

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1E-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	18,797.52	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	2,287.19	2,228.31	82.69	35.49	1.752	CC
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	2,300.00	2,239.84	82.88	35.40	1.746	ES, SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,876.87	1,848.24	220.88	182.77	5.795	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,900.00	1,870.27	220.99	182.38	5.724	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,100.00	2,058.17	233.41	190.51	5.441	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	29.96	23.24	4.458	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	18,797.52	18,451.16	1,019.83	694.20	3.132	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	20.16	13.44	2.999	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	18,797.52	18,423.40	713.82	396.90	2.252	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	10.08	3.36	1.500	Level 3, CC, ES, SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	9.80	3.80	1.632	CC, ES, SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	800.00	799.00	19.88	14.60	3.762	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	18,797.52	18,945.00	654.66	328.61	2.008	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	700.00	699.00	29.96	25.40	6.561	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,021.79	1,018.31	692.17	3.122	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	600.00	599.00	39.76	35.91	10.328	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,389.31	1,339.69	1,014.24	4.116	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	498.00	49.84	46.71	15.927	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,430.54	1,665.31	1,337.77	5.084	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	398.00	59.92	57.51	24.838	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,518.56	1,993.71	1,665.64	6.077	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	298.00	70.00	68.31	41.285	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,889.26	2,329.57	2,003.54	7.145	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	198.00	79.80	78.82	81.544	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	18,797.52	19,796.12	2,707.36	2,378.64	8.236	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	98.00	89.88	89.62	337.699	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	18,797.52	20,184.95	3,042.47	2,714.78	9.284	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	1,000.00	1,000.00	40.32	33.60	5.999	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	18,797.52	18,148.63	1,361.02	1,042.20	4.269	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,274.33	16,152.21	699.65	508.29	3.656	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,350.00	16,166.81	703.64	505.95	3.559	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,181.81	710.36	509.55	3.537	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,100.99	16,586.36	1,311.43	1,119.84	6.845	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,150.00	16,580.95	1,312.32	1,118.24	6.762	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,400.00	16,616.50	1,343.58	1,139.92	6.597	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,304.65	16,512.94	1,177.52	986.93	6.178	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,400.00	16,530.00	1,180.71	985.00	6.033	ES

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	8,600.00	16,530.00	1,207.66	1,003.22	5.907	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,337.17			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	178.92	1,337.75	1,336.98	1,728.599	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,797.52	17,546.00	4,389.65	4,057.43	13.213	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	543.50	537.01	1,327.03	1,323.68	395.748	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	18,797.52	17,340.00	4,139.84	3,807.91	12.472	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	293.99	283.00	1,320.65	1,319.16	889.456	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	583.53	1,321.16	1,317.52	363.172	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	18,797.52	17,471.00	4,042.08	3,709.53	12.155	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.01	1,313.04	1,312.76	4,676.721	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	381.97	1,313.72	1,311.75	667.591	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	18,797.52	17,460.13	3,684.38	3,353.88	11.148	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	623.30	616.94	1,273.41	1,270.87	499.876	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	700.00	678.44	1,273.80	1,270.72	412.999	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	18,797.52	17,372.00	3,417.25	3,089.50	10.426	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	88.52	1,296.72	1,296.44	4,678.274	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	379.37	1,297.48	1,295.37	614.037	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	18,797.52	17,796.00	3,256.27	2,922.87	9.767	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	87.76	1,288.94	1,288.66	4,596.456	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,300.00	1,314.40	1,291.81	1,283.28	151.356	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	18,797.52	17,487.00	3,169.92	2,838.05	9.552	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	1,420.79	1,459.47	1,277.58	1,267.53	127.181	CC, ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	18,797.52	17,442.61	2,808.49	2,487.78	8.757	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	1,884.19	1,962.21	1,243.31	1,228.72	85.223	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	2,000.00	2,081.87	1,244.29	1,228.45	78.575	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	18,797.52	17,583.00	2,482.74	2,152.65	7.522	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	2,281.94	2,387.79	1,212.38	1,192.65	61.449	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	2,300.00	2,400.14	1,212.44	1,192.52	60.870	ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	18,797.52	17,625.99	2,270.81	1,941.27	6.891	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	2,385.77	2,493.26	1,180.56	1,159.24	55.393	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	2,400.00	2,504.33	1,180.58	1,159.11	54.978	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	18,600.00	17,479.00	2,114.57	1,799.00	6.701	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	2,506.81	2,609.10	1,139.10	1,115.22	47.698	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	3,123.85	3,243.33	1,140.14	1,107.45	34.880	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	18,797.52	17,822.43	1,928.08	1,595.39	5.795	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	617.41	609.32	219.10	215.14	55.335	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,400.00	1,368.68	296.61	286.47	29.266	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	246.51			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	88.37	246.60	246.32	883.287	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	6,800.00	6,469.54	3,512.94	3,440.89	48.756	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	89.24	237.99	237.71	851.396	CC
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	187.33	238.60	237.71	266.849	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	3,400.00	3,277.03	553.91	520.30	16.480	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,738.93	1,739.58	44.01	31.48	3.513	CC, ES, SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	160.84	152.35	242.05	241.45	402.565	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	188.04	242.20	241.31	271.146	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	4,500.00	4,176.60	1,386.35	1,338.58	29.019	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,280.20	1,298.49	87.27	77.43	8.868	CC, ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,300.00	1,317.25	87.58	77.53	8.715	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	2,945.48	2,872.11	58.32	31.45	2.171	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	3,000.00	2,923.56	60.98	31.87	2.095	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,750.00	15,353.00	1,777.59	1,600.07	10.014	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,850.00	15,353.00	1,765.81	1,590.63	10.080	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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	8,881.17	15,353.00	1,765.10	1,590.73	10.123	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,700.00	15,243.00	2,114.44	1,933.93	11.713	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,850.00	15,243.00	2,094.71	1,916.97	11.785	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,881.12	15,243.00	2,094.10	1,917.02	11.826	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,650.00	15,134.00	1,218.30	1,038.38	6.771	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,750.00	15,134.00	1,203.67	1,027.44	6.830	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,796.14	15,134.00	1,202.03	1,027.82	6.900	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,700.00	15,352.00	2,691.00	2,511.51	14.993	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,900.00	15,352.00	2,662.13	2,486.23	15.135	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,920.11	15,352.00	2,661.88	2,486.39	15.169	CC
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,900.00	7,970.87	733.16	660.44	10.082	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,971.95	7,916.34	729.53	657.44	10.119	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,799.46	8,063.60	263.28	192.07	3.697	CC
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,800.00	8,063.30	263.28	192.04	3.696	ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,850.00	8,034.34	265.88	192.45	3.621	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,700.00	7,961.97	132.85	55.99	1.729	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,750.00	7,939.47	123.96	52.35	1.731	ES
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,751.94	7,938.63	123.95	52.64	1.738	CC
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,016.15	7,959.38	1,799.01	1,686.64	16.010	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,100.00	7,959.14	1,800.96	1,688.39	15.997	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	15,294.81	8,023.12	1,788.09	1,651.92	13.131	CC, ES, SF

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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 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	12,400.00	7,838.62	810.34	720.84	9.054	SF
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	12,477.85	7,835.13	806.60	717.68	9.071	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	5,383.72	4,950.37	581.15	522.72	9.946	CC
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	5,400.00	4,965.63	581.20	522.56	9.911	ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	5,800.00	5,381.21	603.13	540.12	9.572	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,645.99	8,184.31	1,066.97	982.83	12.681	CC, ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,800.00	8,209.23	1,077.89	992.44	12.615	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	9,050.00	7,988.30	280.06	193.02	3.218	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	9,100.00	7,990.12	263.67	183.27	3.279	ES
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	9,159.77	7,990.10	256.81	184.91	3.572	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,508.84	7,999.99	109.49	35.27	1.475	Level 3, CC, ES, SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,750.00	7,796.04	1,703.64	1,623.02	21.131	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,100.00	7,895.17	1,617.29	1,544.53	22.228	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,155.27	7,895.51	1,616.34	1,544.77	22.583	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,567.22	7,904.17	2,976.17	2,901.66	39.944	CC, ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,400.00	7,914.26	3,495.22	3,394.83	34.818	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,600.00	7,729.57	2,160.83	2,083.55	27.960	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,934.17	7,891.47	2,099.99	2,027.82	29.098	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,500.00	7,675.49	3,572.16	3,493.83	45.602	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,950.00	7,898.11	3,474.13	3,401.42	47.777	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,971.31	7,901.86	3,473.90	3,401.49	47.977	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,882.36	7,868.60	3,453.29	3,384.35	50.090	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	12,500.00	7,883.92	4,333.25	4,233.11	43.275	SF
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,000.00	11,000.00	3,425.26	3,332.53	36.935	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,192.99	8,111.45	3,419.84	3,333.28	39.510	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	13,100.00	8,132.05	3,915.56	3,796.49	32.884	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,000.00	7,973.01	1,570.18	1,484.46	18.316	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,615.87	7,974.83	1,444.36	1,368.51	19.041	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,400.16	8,036.97	1,668.72	1,586.66	20.335	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,500.00	8,039.17	1,671.70	1,589.49	20.333	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,400.00	7,962.96	972.74	865.42	9.064	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,437.73	7,964.00	972.01	864.87	9.073	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,600.00	7,914.20	908.10	814.62	9.714	CC
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,600.00	7,914.20	908.10	814.62	9.714	ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,800.00	7,909.16	929.85	830.61	9.369	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,818.08	8,053.31	3,410.03	3,298.76	30.647	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,900.00	8,052.72	3,411.01	3,297.73	30.111	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,400.00	8,045.20	3,759.07	3,613.05	25.743	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,050.00	7,778.14	2,598.93	2,414.22	14.071	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,600.00	7,780.00	2,536.89	2,361.18	14.438	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,610.60	7,780.00	2,536.87	2,361.27	14.447	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	11,829.77	7,811.00	96.07	-92.43	0.510	Level 1, CC, ES, SF
EXIST VERT HELEN 33-23 - OWB - Design #1	11,821.58	7,832.00	1,386.94	1,198.18	7.348	CC, ES
EXIST VERT HELEN 33-23 - OWB - Design #1	12,100.00	7,832.00	1,414.61	1,219.79	7.261	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	13,441.66	7,823.00	1,672.73	1,462.36	7.951	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	13,500.00	7,823.00	1,673.74	1,461.74	7.895	ES
EXIST VERT HELEN 34-23 - OWB - Design #1	13,800.00	7,823.00	1,710.68	1,490.86	7.782	SF
EXIST VERT HELEN 43-23 - OWB - Design #1	11,961.51	7,815.00	3,003.16	2,813.06	15.798	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	12,000.00	7,815.00	3,003.41	2,812.69	15.748	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,800.00	7,815.00	3,118.02	2,912.58	15.177	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,889.31	7,821.00	2,509.46	2,307.12	12.402	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,900.00	7,821.00	2,509.48	2,306.91	12.388	ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,500.00	7,821.00	2,582.69	2,367.14	11.982	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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	14,627.69	5,050.00	2,804.68	2,722.62	34.179	CC
ABND VERT ALAUX 1 - OWB - Design #1	14,700.00	5,050.00	2,805.61	2,722.42	33.725	ES
ABND VERT ALAUX 1 - OWB - Design #1	16,500.00	5,050.00	3,372.20	3,238.98	25.313	SF
ABND VERT ALAUX 2 - OWB - Design #1	14,632.28	5,450.00	2,620.44	2,518.52	25.710	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	16,000.00	5,450.00	2,955.91	2,829.90	23.459	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,800.00	7,800.00	834.49	709.85	6.695	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,892.32	7,800.00	829.37	705.79	6.711	CC, ES
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,573.86	7,886.00	729.70	451.20	2.620	CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	17,245.03	5,042.00	3,986.02	3,802.56	21.727	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,300.00	5,042.00	3,986.40	3,801.79	21.594	ES
ABND VERT GOLTL 1 - OWB - Design #1	18,500.00	5,042.00	4,178.91	3,972.01	20.198	SF
ABND VERT GOLTL 2 - OWB - Design #1	18,563.75	5,020.00	4,001.46	3,801.44	20.005	CC
ABND VERT GOLTL 2 - OWB - Design #1	18,600.00	5,020.00	4,001.62	3,800.83	19.929	ES
ABND VERT GOLTL 2 - OWB - Design #1	18,797.52	5,020.00	4,008.28	3,803.35	19.559	SF
ABND VERT JL SEARS 1 - OWB - Design #1	15,960.50	5,125.00	2,916.58	2,808.45	26.974	CC
ABND VERT JL SEARS 1 - OWB - Design #1	16,000.00	5,125.00	2,916.85	2,808.39	26.893	ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,300.00	5,125.00	3,209.47	3,080.86	24.955	SF
ABND VERT JL SEARS 2 - OWB - Design #1	15,927.48	5,148.00	2,703.15	2,610.49	29.170	CC
ABND VERT JL SEARS 2 - OWB - Design #1	16,000.00	5,148.00	2,704.13	2,610.27	28.812	ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,600.00	5,148.00	3,178.74	3,039.51	22.832	SF
ABND VERT MANN 1 - OWB - Design #1	17,228.23	5,050.00	3,188.15	3,039.53	21.453	CC
ABND VERT MANN 1 - OWB - Design #1	17,300.00	5,050.00	3,188.96	3,038.93	21.256	ES
ABND VERT MANN 1 - OWB - Design #1	18,500.00	5,050.00	3,432.45	3,257.90	19.665	SF
ABND VERT MANN 2 - OWB - Design #1	18,568.48	5,048.00	3,178.38	3,015.96	19.569	CC
ABND VERT MANN 2 - OWB - Design #1	18,600.00	5,048.00	3,178.53	3,015.49	19.494	ES
ABND VERT MANN 2 - OWB - Design #1	18,797.52	5,048.00	3,186.62	3,019.52	19.070	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,028.65	7,889.05	737.60	625.72	6.593	CC, ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,200.00	7,888.40	757.24	638.68	6.387	SF
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	17,832.94	8,046.59	1,619.38	1,444.14	9.241	CC, ES, SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	18,797.52	8,286.92	1,738.46	1,534.15	8.509	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,700.00	8,074.83	1,210.40	1,013.70	6.154	SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,734.32	8,074.55	1,209.92	1,013.37	6.156	CC, ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,191.90	8,015.11	237.51	73.09	1.444	Level 3, CC
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,200.00	8,015.01	237.65	72.17	1.436	Level 3, ES, SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,478.07	8,087.09	357.91	166.69	1.872	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,500.00	8,087.55	358.58	164.75	1.850	ES, SF
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	18,797.52	8,191.80	574.06	388.19	3.088	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,855.83	8,137.42	831.85	654.48	4.690	CC
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,900.00	8,136.67	833.02	653.03	4.628	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,000.00	8,135.00	844.25	659.52	4.570	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	16,477.51	8,049.48	1,635.48	1,481.04	10.590	CC, ES, SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,400.00	8,011.55	426.91	270.10	2.722	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,453.69	8,009.92	423.52	269.45	2.749	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,501.50	7,916.82	789.10	635.22	5.128	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,600.00	7,915.14	795.23	636.45	5.009	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,600.00	7,878.93	1,113.39	975.03	8.047	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,673.17	7,878.43	1,110.99	973.14	8.059	CC, ES
EXIST VERT ROBERTS 2 - OWB - Design #1	15,999.17	7,841.00	2,837.39	2,586.08	11.290	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	16,100.00	7,841.00	2,839.18	2,585.22	11.179	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,600.00	7,841.00	2,900.31	2,634.97	10.930	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,207.81	7,822.00	2,061.30	1,823.30	8.661	CC
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,300.00	7,822.00	2,063.36	1,822.68	8.573	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,600.00	7,822.00	2,098.27	1,849.97	8.450	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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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						
SI VERT ALAUX 26-3 - OWB - Design #1	14,478.40	7,847.00	238.36	11.61	1.051	Level 2, CC
SI VERT ALAUX 26-3 - OWB - Design #1	14,500.00	7,847.00	239.34	10.13	1.044	Level 2, ES, SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,249.08	7,844.00	2,520.32	2,231.09	8.714	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,300.00	7,844.00	2,520.84	2,230.12	8.671	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,700.00	7,844.00	2,560.34	2,259.96	8.524	SF
SI VERT SEARS 22-26 - OWB - Design #1	15,821.28	7,847.00	415.30	166.84	1.671	CC, ES
SI VERT SEARS 22-26 - OWB - Design #1	15,900.00	7,847.00	422.70	169.04	1.666	SF
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,940.88	5,425.00	3,719.36	3,540.59	20.805	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,000.00	5,425.00	3,719.83	3,539.80	20.662	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,200.00	5,425.00	3,926.70	3,723.63	19.336	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,623.26	5,450.00	2,823.64	2,690.86	21.265	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,700.00	5,450.00	2,824.68	2,690.37	21.031	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,900.00	5,450.00	3,098.87	2,937.58	19.213	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,945.61	5,450.00	2,827.00	2,680.15	19.250	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,000.00	5,450.00	2,827.53	2,679.53	19.105	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	17,100.00	5,450.00	3,053.61	2,881.22	17.713	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,618.53	5,400.00	3,716.80	3,555.68	23.068	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,700.00	5,400.00	3,717.70	3,554.93	22.841	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	16,000.00	5,400.00	3,965.23	3,777.76	21.151	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)	Offset Wellbore Centre +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	38.41	232.05	183.96	296.56				
100.00	100.00	84.00	84.00	0.13	0.67	38.41	232.05	183.96	296.12	295.32	0.80	369.466	
200.00	200.00	184.00	184.00	0.49	2.26	38.41	232.05	183.96	296.12	293.37	2.75	107.560	
300.00	300.00	284.00	284.00	0.85	4.01	38.41	232.05	183.96	296.12	291.27	4.86	60.970	
400.00	400.00	384.00	384.00	1.21	5.75	38.41	232.05	183.96	296.12	289.16	6.96	42.542	
500.00	500.00	484.00	484.00	1.57	7.50	38.41	232.05	183.96	296.12	287.06	9.06	32.669	
600.00	600.00	584.00	584.00	1.93	9.24	38.41	232.05	183.96	296.12	284.96	11.17	26.515	
700.00	700.00	684.00	684.00	2.29	10.99	38.41	232.05	183.96	296.12	282.85	13.27	22.312	
800.00	800.00	784.00	784.00	2.64	12.73	38.41	232.05	183.96	296.12	280.75	15.38	19.259	
900.00	900.00	884.00	884.00	3.00	14.48	38.41	232.05	183.96	296.12	278.64	17.48	16.941	
1,000.00	1,000.00	984.00	984.00	3.36	16.22	38.41	232.05	183.96	296.12	276.54	19.58	15.121	
1,100.00	1,099.98	1,083.98	1,083.98	3.72	17.97	-16.32	232.05	183.96	294.45	272.77	21.68	13.579	
1,200.00	1,199.84	1,183.84	1,183.84	4.07	19.71	-16.64	232.05	183.96	289.43	265.65	23.78	12.171	
1,300.00	1,299.45	1,283.45	1,283.45	4.43	21.45	-17.20	232.05	183.96	281.09	255.21	25.88	10.863	
1,400.00	1,398.70	1,382.70	1,382.70	4.80	23.18	-18.04	232.05	183.96	269.47	241.50	27.97	9.635	
1,500.00	1,497.47	1,481.47	1,481.47	5.18	24.91	-19.22	232.05	183.96	254.62	224.57	30.05	8.473	
1,600.00	1,595.62	1,579.62	1,579.62	5.57	26.62	-20.87	232.05	183.96	236.66	204.53	32.13	7.365	
1,700.00	1,693.06	1,677.06	1,677.06	6.00	28.32	-23.16	232.05	183.96	215.73	181.52	34.21	6.307	
1,800.00	1,789.64	1,773.64	1,773.64	6.45	30.00	-26.39	232.05	183.96	192.08	155.80	36.28	5.294	
1,900.00	1,885.27	1,869.27	1,869.27	6.94	31.67	-31.10	232.05	183.96	166.17	127.80	38.36	4.331	
2,000.00	1,979.82	1,963.82	1,963.82	7.47	33.32	-38.26	232.05	183.96	138.88	98.39	40.49	3.430	
2,100.00	2,073.17	2,057.17	2,057.17	8.05	34.95	-49.66	232.05	183.96	112.14	69.43	42.71	2.626	
2,200.00	2,165.21	2,149.21	2,149.21	8.67	36.56	-67.95	232.05	183.96	90.46	45.35	45.10	2.006	
2,287.19	2,244.31	2,228.31	2,228.31	9.27	37.94	-90.00	232.05	183.96	82.69	35.49	47.20	1.752	CC
2,300.00	2,255.84	2,239.84	2,239.84	9.35	38.14	-93.48	232.05	183.96	82.88	35.40	47.48	1.746	ES, 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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
2,400.00	2,344.94	2,328.94	2,328.94	10.09	39.70	-118.56	232.05	183.96	97.15	47.84	49.31	1.970		
2,500.00	2,432.39	2,416.39	2,416.39	10.89	41.22	-136.17	232.05	183.96	129.35	78.48	50.87	2.543		
2,519.29	2,449.07	2,433.07	2,433.07	11.05	41.51	-138.71	232.05	183.96	136.95	85.78	51.17	2.676		
2,600.00	2,518.69	2,502.69	2,502.69	11.74	42.73	-147.42	232.05	183.96	171.28	118.78	52.50	3.263		
2,700.00	2,604.95	2,588.95	2,588.95	12.62	44.23	-154.46	232.05	183.96	216.95	162.73	54.22	4.001		
2,800.00	2,691.22	2,675.22	2,675.22	13.52	45.74	-159.11	232.05	183.96	264.42	208.41	56.01	4.721		
2,900.00	2,777.48	2,761.48	2,761.48	14.43	47.25	-162.38	232.05	183.96	312.86	255.03	57.84	5.409		
3,000.00	2,863.75	2,847.75	2,847.75	15.35	48.75	-164.78	232.05	183.96	361.89	302.21	59.69	6.063		
3,100.00	2,950.01	2,934.01	2,934.01	16.28	50.26	-166.62	232.05	183.96	411.30	349.75	61.55	6.682		
3,200.00	3,036.27	3,020.27	3,020.27	17.22	51.76	-168.06	232.05	183.96	460.96	397.53	63.43	7.267		
3,300.00	3,122.54	3,106.54	3,106.54	18.17	53.27	-169.23	232.05	183.96	510.81	445.49	65.31	7.821		
3,400.00	3,208.80	3,207.20	3,192.80	19.13	55.02	-170.19	232.05	183.96	560.78	493.32	67.46	8.313		
3,500.00	3,295.07	3,279.07	3,279.07	20.09	56.28	-171.00	232.05	183.96	610.85	541.75	69.10	8.840		
3,600.00	3,381.33	3,365.33	3,365.33	21.05	57.78	-171.68	232.05	183.96	661.01	590.00	71.01	9.309		
3,700.00	3,467.59	3,451.59	3,451.59	22.02	59.29	-172.27	232.05	183.96	711.22	638.31	72.91	9.754		
3,800.00	3,553.86	3,537.86	3,537.86	22.99	60.80	-172.78	232.05	183.96	761.48	686.66	74.82	10.177		
3,900.00	3,640.12	3,624.12	3,624.12	23.97	62.30	-173.23	232.05	183.96	811.78	735.05	76.73	10.579		
4,000.00	3,726.38	3,710.38	3,710.38	24.95	63.81	-173.63	232.05	183.96	862.12	783.47	78.65	10.961		
4,100.00	3,812.65	3,803.35	3,796.65	25.93	65.43	-173.98	232.05	183.96	912.48	831.79	80.68	11.309		
4,200.00	3,898.91	3,882.91	3,882.91	26.91	66.82	-174.29	232.05	183.96	962.86	880.38	82.49	11.673		
4,300.00	3,985.18	3,969.18	3,969.18	27.90	68.32	-174.58	232.05	183.96	1,013.27	928.86	84.41	12.004		
4,400.00	4,071.44	4,055.44	4,055.44	28.88	69.83	-174.83	232.05	183.96	1,063.69	977.36	86.33	12.321		
4,500.00	4,157.70	4,141.70	4,141.70	29.87	71.34	-175.07	232.05	183.96	1,114.13	1,025.87	88.26	12.624		
4,600.00	4,243.97	4,227.97	4,227.97	30.86	72.84	-175.28	232.05	183.96	1,164.58	1,074.39	90.18	12.913		
4,700.00	4,330.23	4,314.23	4,314.23	31.85	74.35	-175.48	232.05	183.96	1,215.03	1,122.92	92.11	13.191		
4,800.00	4,416.49	4,400.49	4,400.49	32.84	75.85	-175.66	232.05	183.96	1,265.50	1,171.46	94.04	13.457		
4,900.00	4,502.76	4,486.76	4,486.76	33.84	77.36	-175.83	232.05	183.96	1,315.98	1,220.01	95.97	13.712		
5,000.00	4,589.02	4,553.00	4,553.00	34.83	78.51	-175.95	232.05	183.96	1,366.62	1,269.17	97.44	14.025		
5,100.00	4,675.29	4,553.00	4,553.00	35.82	78.51	-175.95	232.05	183.96	1,420.94	1,323.75	97.19	14.620		
5,200.00	4,761.55	4,553.00	4,553.00	36.82	78.51	-175.95	232.05	183.96	1,480.04	1,383.37	96.67	15.310		
5,300.00	4,847.81	4,553.00	4,553.00	37.82	78.51	-175.95	232.05	183.96	1,543.36	1,447.41	95.95	16.085		
5,400.00	4,934.08	4,553.00	4,553.00	38.81	78.51	-175.95	232.05	183.96	1,610.40	1,515.31	95.09	16.936		
5,500.00	5,020.34	4,553.00	4,553.00	39.81	78.51	-175.95	232.05	183.96	1,680.72	1,586.59	94.13	17.855		
5,600.00	5,106.60	4,553.00	4,553.00	40.81	78.51	-175.95	232.05	183.96	1,753.93	1,660.81	93.12	18.836		
5,700.00	5,192.87	4,553.00	4,553.00	41.81	78.51	-175.95	232.05	183.96	1,829.67	1,737.60	92.07	19.872		
5,800.00	5,279.13	4,553.00	4,553.00	42.81	78.51	-175.95	232.05	183.96	1,907.66	1,816.63	91.03	20.957		
5,900.00	5,365.40	4,553.00	4,553.00	43.81	78.51	-175.95	232.05	183.96	1,987.61	1,897.62	89.99	22.087		
6,000.00	5,451.66	4,553.00	4,553.00	44.81	78.51	-175.95	232.05	183.96	2,069.31	1,980.33	88.97	23.257		
6,100.00	5,537.92	4,553.00	4,553.00	45.81	78.51	-175.95	232.05	183.96	2,152.55	2,064.56	87.99	24.463		
6,200.00	5,624.19	4,553.00	4,553.00	46.81	78.51	-175.95	232.05	183.96	2,237.16	2,150.12	87.04	25.702		
6,300.00	5,710.45	4,553.00	4,553.00	47.81	78.51	-175.95	232.05	183.96	2,323.00	2,236.87	86.13	26.969		
6,400.00	5,796.72	4,553.00	4,553.00	48.81	78.51	-175.95	232.05	183.96	2,409.93	2,324.67	85.27	28.263		
6,500.00	5,882.98	4,553.00	4,553.00	49.81	78.51	-175.95	232.05	183.96	2,497.84	2,413.40	84.44	29.580		
6,600.00	5,969.24	4,553.00	4,553.00	50.82	78.51	-175.95	232.05	183.96	2,586.63	2,502.97	83.66	30.917		
6,700.00	6,055.51	4,553.00	4,553.00	51.82	78.51	-175.95	232.05	183.96	2,676.21	2,593.28	82.93	32.272		
6,800.00	6,141.77	4,553.00	4,553.00	52.82	78.51	-175.95	232.05	183.96	2,766.50	2,684.27	82.23	33.644		
6,900.00	6,228.03	4,553.00	4,553.00	53.83	78.51	-175.95	232.05	183.96	2,857.44	2,775.87	81.57	35.029		
7,000.00	6,314.30	4,553.00	4,553.00	54.83	78.51	-175.95	232.05	183.96	2,948.97	2,868.01	80.95	36.427		
7,100.00	6,400.56	4,553.00	4,553.00	55.83	78.51	-175.95	232.05	183.96	3,041.03	2,960.65	80.37	37.836		
7,200.00	6,486.83	4,553.00	4,553.00	56.84	78.51	-175.95	232.05	183.96	3,133.58	3,053.75	79.83	39.253		
7,300.00	6,573.09	4,553.00	4,553.00	57.84	78.51	-175.95	232.05	183.96	3,226.57	3,147.25	79.32	40.678		
7,400.00	6,659.35	4,553.00	4,553.00	58.84	78.51	-175.95	232.05	183.96	3,319.97	3,241.12	78.84	42.109		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
7,500.00	6,745.62	4,553.00	4,553.00	59.85	78.51	-175.95	232.05	183.96	3,413.74	3,335.34	78.40	43.545		
7,600.00	6,831.88	4,553.00	4,553.00	60.85	78.51	-175.95	232.05	183.96	3,507.86	3,429.88	77.98	44.984		
7,700.00	6,918.14	4,553.00	4,553.00	61.86	78.51	-175.95	232.05	183.96	3,602.29	3,524.70	77.59	46.426		
7,800.00	7,004.41	4,553.00	4,553.00	62.86	78.51	-175.95	232.05	183.96	3,697.02	3,619.78	77.23	47.870		
7,900.00	7,090.67	4,553.00	4,553.00	63.87	78.51	-175.95	232.05	183.96	3,792.01	3,715.12	76.90	49.313		
8,000.00	7,176.94	4,553.00	4,553.00	64.87	78.51	-175.95	232.05	183.96	3,887.26	3,810.68	76.59	50.757		
8,027.52	7,200.68	4,553.00	4,553.00	65.15	78.51	-175.95	232.05	183.96	3,913.52	3,837.01	76.50	51.154		
8,050.00	7,220.18	4,553.00	4,553.00	65.37	78.51	174.67	232.05	183.96	3,934.91	3,858.47	76.44	51.480		
8,100.00	7,264.25	4,553.00	4,553.00	65.85	78.51	155.39	232.05	183.96	3,981.94	3,905.68	76.26	52.215		
8,150.00	7,308.99	4,553.00	4,553.00	66.28	78.51	137.90	232.05	183.96	4,027.94	3,951.89	76.06	52.960		
8,200.00	7,354.07	4,553.00	4,553.00	66.67	78.51	121.83	232.05	183.96	4,072.61	3,996.79	75.82	53.711		
8,250.00	7,399.14	4,553.00	4,553.00	67.02	78.51	107.25	232.05	183.96	4,115.65	4,040.09	75.57	54.464		
8,300.00	7,443.85	4,553.00	4,553.00	67.32	78.51	94.42	232.05	183.96	4,156.80	4,081.51	75.28	55.217		
8,350.00	7,487.88	4,553.00	4,553.00	67.56	78.51	83.50	232.05	183.96	4,195.79	4,120.82	74.97	55.965		
8,400.00	7,530.87	4,553.00	4,553.00	67.75	78.51	74.43	232.05	183.96	4,232.39	4,157.75	74.64	56.702		
8,450.00	7,572.51	4,553.00	4,553.00	67.90	78.51	67.01	232.05	183.96	4,266.40	4,192.11	74.29	57.426		
8,500.00	7,612.48	4,553.00	4,553.00	68.00	78.51	60.99	232.05	183.96	4,297.62	4,223.69	73.93	58.129		
8,550.00	7,650.47	4,553.00	4,553.00	68.05	78.51	56.11	232.05	183.96	4,325.87	4,252.31	73.56	58.807		
8,600.00	7,686.20	4,553.00	4,553.00	68.06	78.51	52.15	232.05	183.96	4,350.99	4,277.81	73.18	59.453		
8,650.00	7,719.39	4,553.00	4,553.00	68.03	78.51	48.95	232.05	183.96	4,372.86	4,300.05	72.81	60.059		
8,700.00	7,749.79	4,553.00	4,553.00	67.97	78.51	46.36	232.05	183.96	4,391.35	4,318.91	72.44	60.620		
8,750.00	7,777.17	4,553.00	4,553.00	67.87	78.51	44.28	232.05	183.96	4,406.37	4,334.28	72.09	61.127		
8,800.00	7,801.32	4,553.00	4,553.00	67.74	78.51	42.64	232.05	183.96	4,417.84	4,346.09	71.75	61.573		
8,850.00	7,822.06	4,553.00	4,553.00	67.59	78.51	41.37	232.05	183.96	4,425.69	4,354.26	71.44	61.952		
8,900.00	7,839.23	4,553.00	4,553.00	67.41	78.51	40.43	232.05	183.96	4,429.90	4,358.74	71.16	62.256		
8,950.00	7,852.69	4,553.00	4,553.00	67.22	78.51	39.79	232.05	183.96	4,430.43	4,359.52	70.91	62.480		
9,000.00	7,862.35	4,553.00	4,553.00	67.00	78.51	39.44	232.05	183.96	4,427.29	4,356.59	70.70	62.619		
9,050.00	7,868.14	4,553.00	4,553.00	66.78	78.51	39.35	232.05	183.96	4,420.49	4,349.95	70.54	62.670		
9,098.65	7,870.00	4,553.00	4,553.00	66.55	78.51	39.51	232.05	183.96	4,410.40	4,339.98	70.42	62.632		
9,100.00	7,870.00	4,553.00	4,553.00	66.55	78.51	39.51	232.05	183.96	4,410.07	4,339.65	70.42	62.627		
9,200.00	7,870.00	4,553.00	4,553.00	66.09	78.51	39.51	232.05	183.96	4,386.92	4,316.65	70.27	62.426		
9,300.00	7,870.00	4,553.00	4,553.00	65.65	78.51	39.51	232.05	183.96	4,365.94	4,295.68	70.26	62.138		
9,400.00	7,870.00	4,553.00	4,553.00	65.24	78.51	39.51	232.05	183.96	4,347.16	4,276.78	70.38	61.766		
9,500.00	7,870.00	4,553.00	4,553.00	64.85	78.51	39.51	232.05	183.96	4,330.61	4,259.99	70.63	61.316		
9,600.00	7,870.00	4,553.00	4,553.00	64.48	78.51	39.51	232.05	183.96	4,316.32	4,245.32	71.00	60.796		
9,700.00	7,870.00	4,553.00	4,553.00	64.13	78.51	39.51	232.05	183.96	4,304.30	4,232.81	71.48	60.215		
9,800.00	7,870.00	4,553.00	4,553.00	63.80	78.51	39.51	232.05	183.96	4,294.57	4,222.49	72.08	59.583		
9,900.00	7,870.00	4,553.00	4,553.00	63.50	78.51	39.51	232.05	183.96	4,287.16	4,214.38	72.77	58.910		
10,000.00	7,870.00	4,553.00	4,553.00	63.22	78.51	39.51	232.05	183.96	4,282.07	4,208.50	73.57	58.207		
10,100.00	7,870.00	4,553.00	4,553.00	62.96	78.51	39.51	232.05	183.96	4,279.31	4,204.87	74.44	57.485		
10,168.11	7,870.00	4,553.00	4,553.00	62.79	78.51	39.51	232.05	183.96	4,278.77	4,203.67	75.09	56.980		
10,200.00	7,870.00	4,553.00	4,553.00	62.72	78.51	39.51	232.05	183.96	4,278.89	4,203.49	75.40	56.751		
10,300.00	7,870.00	4,553.00	4,553.00	62.50	78.51	39.51	232.05	183.96	4,280.80	4,204.37	76.42	56.014		
10,400.00	7,870.00	4,553.00	4,553.00	62.31	78.51	39.51	232.05	183.96	4,285.05	4,207.53	77.51	55.281		
10,500.00	7,870.00	4,553.00	4,553.00	62.15	78.51	39.51	232.05	183.96	4,291.62	4,212.96	78.66	54.559		
10,600.00	7,870.00	4,553.00	4,553.00	62.01	78.51	39.51	232.05	183.96	4,300.51	4,220.65	79.86	53.853		
10,700.00	7,870.00	4,553.00	4,553.00	61.90	78.51	39.51	232.05	183.96	4,311.70	4,230.60	81.10	53.168		
10,800.00	7,870.00	4,553.00	4,553.00	61.82	78.51	39.51	232.05	183.96	4,325.17	4,242.80	82.37	52.507		
10,900.00	7,870.00	4,553.00	4,553.00	61.78	78.51	39.51	232.05	183.96	4,340.91	4,257.23	83.68	51.875		
11,000.00	7,870.00	4,553.00	4,553.00	61.77	78.51	39.51	232.05	183.96	4,358.89	4,273.87	85.01	51.273		
11,100.00	7,870.00	4,553.00	4,553.00	61.81	78.51	39.51	232.05	183.96	4,379.07	4,292.71	86.37	50.703		
11,200.00	7,870.00	4,553.00	4,553.00	61.90	78.51	39.51	232.05	183.96	4,401.44	4,313.70	87.73	50.168		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,300.00	7,870.00	4,553.00	4,553.00	62.03	78.51	39.51	232.05	183.96	4,425.95	4,336.84	89.11	49.667		
11,400.00	7,870.00	4,553.00	4,553.00	62.23	78.51	39.51	232.05	183.96	4,452.57	4,362.08	90.49	49.203		
11,500.00	7,870.00	4,553.00	4,553.00	62.50	78.51	39.51	232.05	183.96	4,481.27	4,389.39	91.88	48.775		
11,600.00	7,870.00	4,553.00	4,553.00	62.84	78.51	39.51	232.05	183.96	4,512.00	4,418.75	93.26	48.382		
11,700.00	7,870.00	4,553.00	4,553.00	63.25	78.51	39.51	232.05	183.96	4,544.73	4,450.10	94.63	48.026		
11,800.00	7,870.00	4,553.00	4,553.00	63.76	78.51	39.51	232.05	183.96	4,579.40	4,483.41	95.99	47.706		
11,900.00	7,870.00	4,553.00	4,553.00	64.34	78.51	39.51	232.05	183.96	4,615.98	4,518.64	97.34	47.421		
12,000.00	7,870.00	4,553.00	4,553.00	65.01	78.51	39.51	232.05	183.96	4,654.43	4,555.75	98.67	47.170		
12,100.00	7,870.00	4,553.00	4,553.00	65.77	78.51	39.51	232.05	183.96	4,694.68	4,594.70	99.99	46.954		
12,200.00	7,870.00	4,553.00	4,553.00	66.61	78.51	39.51	232.05	183.96	4,736.71	4,635.43	101.28	46.769		
12,300.00	7,870.00	4,553.00	4,553.00	67.51	78.51	39.51	232.05	183.96	4,780.46	4,677.91	102.55	46.617		
12,400.00	7,870.00	4,553.00	4,553.00	68.49	78.51	39.51	232.05	183.96	4,825.89	4,722.10	103.79	46.496		
12,500.00	7,870.00	4,553.00	4,553.00	69.52	78.51	39.51	232.05	183.96	4,872.94	4,767.93	105.01	46.405		
12,600.00	7,870.00	4,553.00	4,553.00	70.61	78.51	39.51	232.05	183.96	4,921.58	4,815.38	106.20	46.342		
12,700.00	7,870.00	4,553.00	4,553.00	71.75	78.51	39.51	232.05	183.96	4,971.75	4,864.39	107.36	46.308		
12,800.00	7,870.00	4,553.00	4,553.00	72.93	78.51	39.51	232.05	183.96	5,023.42	4,914.92	108.50	46.300		
12,900.00	7,870.00	4,553.00	4,553.00	74.14	78.51	39.51	232.05	183.96	5,076.52	4,966.92	109.60	46.318		
13,000.00	7,870.00	4,553.00	4,553.00	75.39	78.51	39.51	232.05	183.96	5,131.03	5,020.35	110.68	46.360		
13,100.00	7,870.00	4,553.00	4,553.00	76.67	78.51	39.51	232.05	183.96	5,186.89	5,075.17	111.72	46.427		
13,200.00	7,870.00	4,553.00	4,553.00	77.98	78.51	39.51	232.05	183.96	5,244.07	5,131.33	112.74	46.516		
13,300.00	7,870.00	4,553.00	4,553.00	79.31	78.51	39.51	232.05	183.96	5,302.51	5,188.79	113.72	46.627		
13,400.00	7,870.00	4,553.00	4,553.00	80.67	78.51	39.51	232.05	183.96	5,362.18	5,247.50	114.68	46.759		
13,500.00	7,870.00	4,553.00	4,553.00	82.04	78.51	39.51	232.05	183.96	5,423.04	5,307.44	115.60	46.910		
13,600.00	7,870.00	4,553.00	4,553.00	83.43	78.51	39.51	232.05	183.96	5,485.05	5,368.55	116.50	47.081		
13,700.00	7,870.00	4,553.00	4,553.00	84.84	78.51	39.51	232.05	183.96	5,548.16	5,430.79	117.37	47.271		
13,800.00	7,870.00	4,553.00	4,553.00	86.27	78.51	39.51	232.05	183.96	5,612.35	5,494.14	118.21	47.477		
13,900.00	7,870.00	4,553.00	4,553.00	87.71	78.51	39.51	232.05	183.96	5,677.58	5,558.55	119.02	47.701		
14,000.00	7,870.00	4,553.00	4,553.00	89.16	78.51	39.51	232.05	183.96	5,743.80	5,623.99	119.81	47.940		
14,100.00	7,870.00	4,553.00	4,553.00	90.63	78.51	39.51	232.05	183.96	5,810.99	5,690.42	120.57	48.195		
14,200.00	7,870.00	4,553.00	4,553.00	92.10	78.51	39.51	232.05	183.96	5,879.12	5,757.81	121.31	48.465		
14,300.00	7,870.00	4,553.00	4,553.00	93.59	78.51	39.51	232.05	183.96	5,948.14	5,826.12	122.02	48.749		
14,400.00	7,870.00	4,553.00	4,553.00	95.09	78.51	39.51	232.05	183.96	6,018.04	5,895.33	122.70	49.046		
14,500.00	7,870.00	4,553.00	4,553.00	96.60	78.51	39.51	232.05	183.96	6,088.77	5,965.41	123.37	49.355		
14,600.00	7,870.00	4,553.00	4,553.00	98.11	78.51	39.51	232.05	183.96	6,160.32	6,036.31	124.01	49.678		
14,700.00	7,870.00	4,553.00	4,553.00	99.64	78.51	39.51	232.05	183.96	6,232.65	6,108.02	124.62	50.012		
14,800.00	7,870.00	4,553.00	4,553.00	101.17	78.51	39.51	232.05	183.96	6,305.73	6,180.51	125.22	50.357		
14,900.00	7,870.00	4,553.00	4,553.00	102.71	78.51	39.51	232.05	183.96	6,379.55	6,253.75	125.80	50.713		
15,000.00	7,870.00	4,553.00	4,553.00	104.26	78.51	39.51	232.05	183.96	6,454.07	6,327.72	126.35	51.079		
15,100.00	7,870.00	4,553.00	4,553.00	105.82	78.51	39.51	232.05	183.96	6,529.27	6,402.38	126.89	51.455		
15,200.00	7,870.00	4,553.00	4,553.00	107.38	78.51	39.51	232.05	183.96	6,605.13	6,477.72	127.41	51.841		
15,300.00	7,870.00	4,553.00	4,553.00	108.95	78.51	39.51	232.05	183.96	6,681.63	6,553.72	127.91	52.235		
15,400.00	7,870.00	4,553.00	4,553.00	110.52	78.51	39.51	232.05	183.96	6,758.74	6,630.34	128.40	52.639		
15,500.00	7,870.00	4,553.00	4,553.00	112.10	78.51	39.51	232.05	183.96	6,836.44	6,707.58	128.87	53.051		
15,600.00	7,870.00	4,553.00	4,553.00	113.69	78.51	39.51	232.05	183.96	6,914.72	6,785.40	129.32	53.470		
15,700.00	7,870.00	4,553.00	4,553.00	115.28	78.51	39.51	232.05	183.96	6,993.55	6,863.79	129.76	53.898		
15,800.00	7,870.00	4,553.00	4,553.00	116.87	78.51	39.51	232.05	183.96	7,072.91	6,942.73	130.18	54.332		
15,900.00	7,870.00	4,553.00	4,553.00	118.47	78.51	39.51	232.05	183.96	7,152.79	7,022.21	130.59	54.774		
16,000.00	7,870.00	4,553.00	4,553.00	120.07	78.51	39.51	232.05	183.96	7,233.18	7,102.19	130.98	55.223		
16,100.00	7,870.00	4,553.00	4,553.00	121.68	78.51	39.51	232.05	183.96	7,314.04	7,182.68	131.36	55.678		
16,200.00	7,870.00	4,553.00	4,553.00	123.30	78.51	39.51	232.05	183.96	7,395.38	7,263.64	131.73	56.139		
16,300.00	7,870.00	4,553.00	4,553.00	124.91	78.51	39.51	232.05	183.96	7,477.16	7,345.07	132.09	56.606		
16,400.00	7,870.00	4,553.00	4,553.00	126.53	78.51	39.51	232.05	183.96	7,559.39	7,426.95	132.44	57.079		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
16,500.00	7,870.00	4,553.00	4,553.00	128.16	78.51	39.51	232.05	183.96	7,642.04	7,509.26	132.77	57.557		
16,600.00	7,870.00	4,553.00	4,553.00	129.79	78.51	39.51	232.05	183.96	7,725.10	7,592.00	133.10	58.041		
16,700.00	7,870.00	4,553.00	4,553.00	131.42	78.51	39.51	232.05	183.96	7,808.55	7,675.14	133.41	58.530		
16,800.00	7,870.00	4,553.00	4,553.00	133.05	78.51	39.51	232.05	183.96	7,892.39	7,758.68	133.72	59.024		
16,900.00	7,870.00	4,553.00	4,553.00	134.69	78.51	39.51	232.05	183.96	7,976.61	7,842.60	134.01	59.522		
17,000.00	7,870.00	4,553.00	4,553.00	136.33	78.51	39.51	232.05	183.96	8,061.18	7,926.88	134.30	60.025		
17,100.00	7,870.00	4,553.00	4,553.00	137.97	78.51	39.51	232.05	183.96	8,146.10	8,011.53	134.57	60.533		
17,200.00	7,870.00	4,553.00	4,553.00	139.62	78.51	39.51	232.05	183.96	8,231.37	8,096.52	134.84	61.044		
17,300.00	7,870.00	4,553.00	4,553.00	141.27	78.51	39.51	232.05	183.96	8,316.96	8,181.85	135.10	61.559		
17,400.00	7,870.00	4,553.00	4,553.00	142.92	78.51	39.51	232.05	183.96	8,402.86	8,267.51	135.36	62.079		
17,500.00	7,870.00	4,553.00	4,553.00	144.58	78.51	39.51	232.05	183.96	8,489.08	8,353.48	135.60	62.602		
17,600.00	7,870.00	4,553.00	4,553.00	146.23	78.51	39.51	232.05	183.96	8,575.60	8,439.76	135.84	63.129		
17,700.00	7,870.00	4,553.00	4,553.00	147.89	78.51	39.51	232.05	183.96	8,662.41	8,526.33	136.08	63.659		
17,800.00	7,870.00	4,553.00	4,553.00	149.56	78.51	39.51	232.05	183.96	8,749.49	8,613.19	136.30	64.192		
17,900.00	7,870.00	4,553.00	4,553.00	151.22	78.51	39.51	232.05	183.96	8,836.86	8,700.33	136.52	64.729		
18,000.00	7,870.00	4,553.00	4,553.00	152.89	78.51	39.51	232.05	183.96	8,924.48	8,787.75	136.74	65.268		
18,100.00	7,870.00	4,553.00	4,553.00	154.55	78.51	39.51	232.05	183.96	9,012.37	8,875.42	136.94	65.811		
18,200.00	7,870.00	4,553.00	4,553.00	156.22	78.51	39.51	232.05	183.96	9,100.50	8,963.36	137.15	66.356		
18,300.00	7,870.00	4,553.00	4,553.00	157.90	78.51	39.51	232.05	183.96	9,188.88	9,051.54	137.34	66.904		
18,400.00	7,870.00	4,553.00	4,553.00	159.57	78.51	39.51	232.05	183.96	9,277.50	9,139.96	137.54	67.455		
18,500.00	7,870.00	4,553.00	4,553.00	161.25	78.51	39.51	232.05	183.96	9,366.34	9,228.62	137.72	68.008		
18,600.00	7,870.00	4,553.00	4,553.00	162.93	78.51	39.51	232.05	183.96	9,455.40	9,317.50	137.91	68.564		
18,700.00	7,870.00	4,553.00	4,553.00	164.60	78.51	39.51	232.05	183.96	9,544.69	9,406.60	138.08	69.122		
18,797.52	7,870.00	4,553.00	4,553.00	166.24	78.51	39.51	232.05	183.96	9,631.96	9,493.70	138.25	69.668		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-4.30	257.19	-19.32	258.35					
100.00	100.00	85.00	85.00	0.13	0.66	-4.30	257.19	-19.32	257.91	257.12	0.79	324.582		
200.00	200.00	185.00	185.00	0.49	2.26	-4.30	257.19	-19.32	257.91	255.16	2.75	93.681		
300.00	300.00	285.00	285.00	0.85	4.01	-4.30	257.19	-19.32	257.91	253.06	4.86	53.102		
400.00	400.00	385.00	385.00	1.21	5.75	-4.30	257.19	-19.32	257.91	250.95	6.96	37.053		
500.00	500.00	485.00	485.00	1.57	7.50	-4.30	257.19	-19.32	257.91	248.85	9.06	28.453		
600.00	600.00	585.00	585.00	1.93	9.24	-4.30	257.19	-19.32	257.91	246.74	11.17	23.093		
700.00	700.00	685.00	685.00	2.29	10.99	-4.30	257.19	-19.32	257.91	244.64	13.27	19.433		
800.00	800.00	785.00	785.00	2.64	12.73	-4.30	257.19	-19.32	257.91	242.54	15.38	16.774		
900.00	900.00	885.00	885.00	3.00	14.48	-4.30	257.19	-19.32	257.91	240.43	17.48	14.755		
1,000.00	1,000.00	985.00	985.00	3.36	16.22	-4.30	257.19	-19.32	257.91	238.33	19.58	13.170		
1,100.00	1,099.98	1,084.98	1,084.98	3.72	17.97	-59.27	257.19	-19.32	257.02	235.33	21.68	11.853		
1,200.00	1,199.84	1,184.84	1,184.84	4.07	19.71	-60.32	257.19	-19.32	254.38	230.60	23.78	10.697		
1,300.00	1,299.45	1,284.45	1,284.45	4.43	21.45	-62.13	257.19	-19.32	250.17	224.29	25.88	9.667		
1,400.00	1,398.70	1,383.70	1,383.70	4.80	23.18	-64.73	257.19	-19.32	244.69	216.71	27.98	8.746		
1,500.00	1,497.47	1,482.47	1,482.47	5.18	24.91	-68.22	257.19	-19.32	238.37	208.29	30.08	7.925		
1,600.00	1,595.62	1,580.62	1,580.62	5.57	26.62	-72.65	257.19	-19.32	231.88	199.68	32.19	7.203		
1,700.00	1,693.06	1,678.06	1,678.06	6.00	28.32	-78.08	257.19	-19.32	226.05	191.73	34.32	6.587		
1,800.00	1,789.64	1,774.64	1,774.64	6.45	30.00	-84.49	257.19	-19.32	221.99	185.54	36.46	6.089		
1,876.87	1,863.24	1,848.24	1,848.24	6.83	31.29	-90.00	257.19	-19.32	220.88	182.77	38.11	5.795 CC		
1,900.00	1,885.27	1,870.27	1,870.27	6.94	31.67	-91.74	257.19	-19.32	220.99	182.38	38.61	5.724 ES		
2,000.00	1,979.82	1,964.82	1,964.82	7.47	33.32	-99.57	257.19	-19.32	224.41	183.64	40.77	5.505		
2,100.00	2,073.17	2,058.17	2,058.17	8.05	34.95	-107.57	257.19	-19.32	233.41	190.51	42.90	5.441 SF		
2,200.00	2,165.21	2,150.21	2,150.21	8.67	36.56	-115.34	257.19	-19.32	248.80	203.81	45.00	5.529		
2,300.00	2,255.84	2,240.84	2,240.84	9.35	38.14	-122.54	257.19	-19.32	270.87	223.83	47.03	5.759		
2,400.00	2,344.94	2,329.94	2,329.94	10.09	39.70	-128.94	257.19	-19.32	299.44	250.43	49.01	6.110		
2,500.00	2,432.39	2,417.39	2,417.39	10.89	41.22	-134.50	257.19	-19.32	334.09	283.16	50.93	6.560		
2,519.29	2,449.07	2,434.07	2,434.07	11.05	41.51	-135.48	257.19	-19.32	341.43	290.14	51.29	6.656		
2,600.00	2,518.69	2,503.69	2,503.69	11.74	42.73	-139.63	257.19	-19.32	373.50	320.69	52.81	7.073		
2,700.00	2,604.95	2,589.95	2,589.95	12.62	44.23	-143.95	257.19	-19.32	415.36	360.70	54.67	7.598		
2,800.00	2,691.22	2,676.22	2,676.22	13.52	45.74	-147.53	257.19	-19.32	458.99	402.46	56.53	8.120		
2,900.00	2,777.48	2,762.48	2,762.48	14.43	47.25	-150.52	257.19	-19.32	503.92	445.53	58.38	8.631		
3,000.00	2,863.75	2,848.75	2,848.75	15.35	48.75	-153.04	257.19	-19.32	549.83	489.58	60.25	9.126		
3,100.00	2,950.01	2,935.01	2,935.01	16.28	50.26	-155.20	257.19	-19.32	596.50	534.38	62.11	9.604		
3,200.00	3,036.27	3,021.27	3,021.27	17.22	51.76	-157.05	257.19	-19.32	643.76	579.77	63.98	10.061		
3,300.00	3,122.54	3,107.54	3,107.54	18.17	53.27	-158.66	257.19	-19.32	691.48	625.63	65.86	10.500		
3,400.00	3,208.80	3,206.20	3,193.80	19.13	54.99	-160.06	257.19	-19.32	739.59	671.64	67.95	10.884		
3,500.00	3,295.07	3,280.07	3,280.07	20.09	56.28	-161.30	257.19	-19.32	788.01	718.39	69.62	11.319		
3,600.00	3,381.33	3,366.33	3,366.33	21.05	57.78	-162.40	257.19	-19.32	836.69	765.18	71.51	11.701		
3,700.00	3,467.59	3,452.59	3,452.59	22.02	59.29	-163.38	257.19	-19.32	885.57	812.17	73.40	12.065		
3,800.00	3,553.86	3,538.86	3,538.86	22.99	60.80	-164.25	257.19	-19.32	934.64	859.35	75.30	12.413		
3,900.00	3,640.12	3,625.12	3,625.12	23.97	62.30	-165.05	257.19	-19.32	983.87	906.67	77.19	12.745		
4,000.00	3,726.38	3,711.38	3,711.38	24.95	63.81	-165.77	257.19	-19.32	1,033.22	954.12	79.10	13.063		
4,100.00	3,812.65	3,802.35	3,797.65	25.93	65.39	-166.42	257.19	-19.32	1,082.69	1,001.60	81.08	13.353		
4,200.00	3,898.91	3,883.91	3,883.91	26.91	66.82	-167.02	257.19	-19.32	1,132.25	1,049.34	82.91	13.657		
4,300.00	3,985.18	3,970.18	3,970.18	27.90	68.32	-167.56	257.19	-19.32	1,181.90	1,097.09	84.82	13.935		
4,400.00	4,071.44	4,056.44	4,056.44	28.88	69.83	-168.07	257.19	-19.32	1,231.63	1,144.90	86.73	14.201		
4,500.00	4,157.70	4,142.70	4,142.70	29.87	71.34	-168.53	257.19	-19.32	1,281.42	1,192.78	88.64	14.456		
4,600.00	4,243.97	4,228.97	4,228.97	30.86	72.84	-168.96	257.19	-19.32	1,331.28	1,240.72	90.56	14.701		
4,700.00	4,330.23	4,315.23	4,315.23	31.85	74.35	-169.36	257.19	-19.32	1,381.18	1,288.71	92.47	14.936		
4,800.00	4,416.49	4,401.49	4,401.49	32.84	75.85	-169.74	257.19	-19.32	1,431.14	1,336.74	94.39	15.161		
4,900.00	4,502.76	4,487.76	4,487.76	33.84	77.36	-170.08	257.19	-19.32	1,481.13	1,384.82	96.32	15.378		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,574.02	4,574.02	34.83	78.86	-170.41	257.19	-19.32	1,531.17	1,432.93	98.24	15.586		
5,100.00	4,675.29	4,660.29	4,660.29	35.82	80.37	-170.71	257.19	-19.32	1,581.24	1,481.08	100.16	15.787		
5,200.00	4,761.55	4,746.55	4,746.55	36.82	81.87	-171.00	257.19	-19.32	1,631.34	1,529.25	102.09	15.980		
5,300.00	4,847.81	4,832.81	4,832.81	37.82	83.38	-171.27	257.19	-19.32	1,681.47	1,577.46	104.01	16.166		
5,400.00	4,934.08	4,919.08	4,919.08	38.81	84.89	-171.52	257.19	-19.32	1,731.63	1,625.69	105.94	16.345		
5,500.00	5,020.34	5,005.34	5,005.34	39.81	86.39	-171.76	257.19	-19.32	1,781.81	1,673.94	107.87	16.518		
5,600.00	5,106.60	5,108.40	5,091.60	40.81	88.19	-171.99	257.19	-19.32	1,832.01	1,721.92	110.09	16.641		
5,700.00	5,192.87	5,177.87	5,177.87	41.81	89.40	-172.20	257.19	-19.32	1,882.23	1,770.50	111.73	16.846		
5,800.00	5,279.13	5,264.13	5,264.13	42.81	90.91	-172.40	257.19	-19.32	1,932.48	1,818.81	113.66	17.002		
5,900.00	5,365.40	5,350.40	5,350.40	43.81	92.41	-172.60	257.19	-19.32	1,982.74	1,867.14	115.60	17.152		
6,000.00	5,451.66	5,436.66	5,436.66	44.81	93.92	-172.78	257.19	-19.32	2,033.01	1,915.48	117.53	17.298		
6,100.00	5,537.92	5,522.92	5,522.92	45.81	95.42	-172.95	257.19	-19.32	2,083.30	1,963.84	119.47	17.439		
6,200.00	5,624.19	5,609.19	5,609.19	46.81	96.93	-173.12	257.19	-19.32	2,133.60	2,012.20	121.40	17.575		
6,300.00	5,710.45	5,704.55	5,695.45	47.81	98.59	-173.28	257.19	-19.32	2,183.92	2,060.43	123.50	17.684		
6,400.00	5,796.72	5,781.72	5,781.72	48.81	99.94	-173.43	257.19	-19.32	2,234.25	2,108.98	125.27	17.835		
6,500.00	5,882.98	5,867.98	5,867.98	49.81	101.45	-173.58	257.19	-19.32	2,284.59	2,157.38	127.21	17.959		
6,600.00	5,969.24	5,954.24	5,954.24	50.82	102.95	-173.71	257.19	-19.32	2,334.94	2,205.79	129.15	18.079		
6,700.00	6,055.51	6,040.51	6,040.51	51.82	104.46	-173.85	257.19	-19.32	2,385.30	2,254.21	131.09	18.196		
6,800.00	6,141.77	6,126.77	6,126.77	52.82	105.96	-173.97	257.19	-19.32	2,435.67	2,302.64	133.03	18.309		
6,900.00	6,228.03	6,213.03	6,213.03	53.83	107.47	-174.10	257.19	-19.32	2,486.05	2,351.08	134.97	18.419		
7,000.00	6,314.30	6,300.70	6,299.30	54.83	109.00	-174.21	257.19	-19.32	2,536.43	2,399.50	136.94	18.523		
7,100.00	6,400.56	6,385.56	6,385.56	55.83	110.48	-174.33	257.19	-19.32	2,586.83	2,447.97	138.86	18.630		
7,200.00	6,486.83	6,471.83	6,471.83	56.84	111.99	-174.43	257.19	-19.32	2,637.23	2,496.43	140.80	18.731		
7,300.00	6,573.09	6,558.09	6,558.09	57.84	113.49	-174.54	257.19	-19.32	2,687.64	2,544.90	142.74	18.829		
7,400.00	6,659.35	6,644.35	6,644.35	58.84	115.00	-174.64	257.19	-19.32	2,738.05	2,593.37	144.69	18.924		
7,500.00	6,745.62	6,730.62	6,730.62	59.85	116.50	-174.74	257.19	-19.32	2,788.47	2,641.84	146.63	19.017		
7,600.00	6,831.88	6,816.88	6,816.88	60.85	118.01	-174.83	257.19	-19.32	2,838.90	2,690.32	148.57	19.108		
7,700.00	6,918.14	6,903.14	6,903.14	61.86	119.51	-174.92	257.19	-19.32	2,889.33	2,738.81	150.52	19.196		
7,800.00	7,004.41	6,989.41	6,989.41	62.86	121.02	-175.01	257.19	-19.32	2,939.77	2,787.30	152.47	19.281		
7,900.00	7,090.67	7,075.67	7,075.67	63.87	122.53	-175.09	257.19	-19.32	2,990.21	2,835.79	154.41	19.365		
8,000.00	7,176.94	7,161.94	7,161.94	64.87	124.03	-175.17	257.19	-19.32	3,040.65	2,884.29	156.36	19.447		
8,027.52	7,200.68	7,185.68	7,185.68	65.15	124.45	-175.20	257.19	-19.32	3,054.54	2,897.64	156.90	19.469		
8,050.00	7,220.18	7,205.18	7,205.18	65.37	124.79	-179.74	257.19	-19.32	3,065.70	2,908.37	157.33	19.485		
8,100.00	7,264.25	7,249.25	7,249.25	65.85	125.55	169.45	257.19	-19.32	3,089.22	2,930.90	158.32	19.513		
8,150.00	7,308.99	7,306.01	7,293.99	66.28	126.55	157.85	257.19	-19.32	3,110.78	2,951.26	159.52	19.501		
8,200.00	7,354.07	7,339.07	7,339.07	66.67	127.12	145.89	257.19	-19.32	3,130.23	2,969.93	160.30	19.528		
8,250.00	7,399.14	7,384.14	7,384.14	67.02	127.91	134.28	257.19	-19.32	3,147.47	2,986.20	161.28	19.516		
8,300.00	7,443.85	7,428.85	7,428.85	67.32	128.69	123.67	257.19	-19.32	3,162.41	3,000.17	162.24	19.493		
8,350.00	7,487.88	7,472.88	7,472.88	67.56	129.46	114.52	257.19	-19.32	3,174.99	3,011.81	163.17	19.458		
8,400.00	7,530.87	7,515.87	7,515.87	67.75	130.21	106.95	257.19	-19.32	3,185.17	3,021.09	164.08	19.413		
8,450.00	7,572.51	7,557.51	7,557.51	67.90	130.93	100.86	257.19	-19.32	3,192.95	3,028.01	164.95	19.358		
8,500.00	7,612.48	7,602.52	7,597.48	68.00	131.72	96.08	257.19	-19.32	3,198.36	3,032.49	165.86	19.283		
8,550.00	7,650.47	7,635.47	7,635.47	68.05	132.30	92.39	257.19	-19.32	3,201.42	3,034.86	166.56	19.221		
8,600.00	7,686.20	7,671.20	7,671.20	68.06	132.92	89.63	257.19	-19.32	3,202.19	3,034.90	167.29	19.141		
8,650.00	7,719.39	7,704.39	7,704.39	68.03	133.50	87.62	257.19	-19.32	3,200.76	3,032.78	167.98	19.055		
8,700.00	7,749.79	7,734.79	7,734.79	67.97	134.03	86.26	257.19	-19.32	3,197.21	3,028.60	168.61	18.962		
8,750.00	7,777.17	7,762.17	7,762.17	67.87	134.51	85.45	257.19	-19.32	3,191.65	3,022.46	169.18	18.865		
8,800.00	7,801.32	7,786.32	7,786.32	67.74	134.93	85.09	257.19	-19.32	3,184.18	3,014.48	169.70	18.763		
8,850.00	7,822.06	7,807.06	7,807.06	67.59	135.29	85.15	257.19	-19.32	3,174.93	3,004.77	170.17	18.658		
8,900.00	7,839.23	7,824.23	7,824.23	67.41	135.59	85.55	257.19	-19.32	3,164.03	2,993.45	170.57	18.550		
8,950.00	7,852.69	7,837.69	7,837.69	67.22	135.82	86.27	257.19	-19.32	3,151.58	2,980.67	170.92	18.439		
9,000.00	7,862.35	7,847.35	7,847.35	67.00	135.99	87.28	257.19	-19.32	3,137.73	2,966.53	171.21	18.327		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,853.14	7,853.14	66.78	136.09	88.54	257.19	-19.32	3,122.60	2,951.16	171.44	18.214		
9,098.65	7,870.00	7,855.00	7,855.00	66.55	136.13	90.00	257.19	-19.32	3,106.75	2,935.15	171.60	18.104		
9,100.00	7,870.00	7,855.00	7,855.00	66.55	136.13	90.00	257.19	-19.32	3,106.30	2,934.69	171.61	18.101		
9,200.00	7,870.00	7,855.00	7,855.00	66.09	136.13	90.00	257.19	-19.32	3,074.14	2,902.23	171.91	17.882		
9,300.00	7,870.00	7,855.00	7,855.00	65.65	136.13	90.00	257.19	-19.32	3,044.93	2,872.66	172.27	17.675		
9,400.00	7,870.00	7,855.00	7,855.00	65.24	136.13	90.00	257.19	-19.32	3,018.76	2,846.08	172.67	17.483		
9,500.00	7,870.00	7,855.00	7,855.00	64.85	136.13	90.00	257.19	-19.32	2,995.69	2,822.57	173.12	17.304		
9,600.00	7,870.00	7,855.00	7,855.00	64.48	136.13	90.00	257.19	-19.32	2,975.81	2,802.19	173.61	17.141		
9,700.00	7,870.00	7,855.00	7,855.00	64.13	136.13	90.00	257.19	-19.32	2,959.17	2,785.03	174.14	16.993		
9,800.00	7,870.00	7,855.00	7,855.00	63.80	136.13	90.00	257.19	-19.32	2,945.84	2,771.12	174.71	16.861		
9,900.00	7,870.00	7,855.00	7,855.00	63.50	136.13	90.00	257.19	-19.32	2,935.85	2,760.54	175.31	16.746		
10,000.00	7,870.00	7,855.00	7,855.00	63.22	136.13	90.00	257.19	-19.32	2,929.25	2,753.31	175.94	16.649		
10,100.00	7,870.00	7,855.00	7,855.00	62.96	136.13	90.00	257.19	-19.32	2,926.05	2,749.46	176.59	16.570		
10,143.66	7,870.00	7,855.00	7,855.00	62.85	136.13	90.00	257.19	-19.32	2,925.72	2,748.83	176.89	16.540		
10,200.00	7,870.00	7,855.00	7,855.00	62.72	136.13	90.00	257.19	-19.32	2,926.27	2,749.01	177.26	16.508		
10,300.00	7,870.00	7,855.00	7,855.00	62.50	136.13	90.00	257.19	-19.32	2,929.90	2,751.96	177.94	16.466		
10,400.00	7,870.00	7,855.00	7,855.00	62.31	136.13	90.00	257.19	-19.32	2,936.93	2,758.31	178.62	16.442		
10,500.00	7,870.00	7,855.00	7,855.00	62.15	136.13	90.00	257.19	-19.32	2,947.34	2,768.04	179.31	16.437		
10,600.00	7,870.00	7,855.00	7,855.00	62.01	136.13	90.00	257.19	-19.32	2,961.10	2,781.11	179.99	16.451		
10,700.00	7,870.00	7,855.00	7,855.00	61.90	136.13	90.00	257.19	-19.32	2,978.15	2,797.48	180.67	16.484		
10,800.00	7,870.00	7,855.00	7,855.00	61.82	136.13	90.00	257.19	-19.32	2,998.44	2,817.11	181.33	16.536		
10,900.00	7,870.00	7,855.00	7,855.00	61.78	136.13	90.00	257.19	-19.32	3,021.91	2,839.93	181.97	16.606		
11,000.00	7,870.00	7,855.00	7,855.00	61.77	136.13	90.00	257.19	-19.32	3,048.47	2,865.87	182.60	16.695		
11,100.00	7,870.00	7,855.00	7,855.00	61.81	136.13	90.00	257.19	-19.32	3,078.06	2,894.85	183.20	16.801		
11,200.00	7,870.00	7,855.00	7,855.00	61.90	136.13	90.00	257.19	-19.32	3,110.58	2,926.80	183.79	16.925		
11,300.00	7,870.00	7,855.00	7,855.00	62.03	136.13	90.00	257.19	-19.32	3,145.95	2,961.61	184.34	17.066		
11,400.00	7,870.00	7,855.00	7,855.00	62.23	136.13	90.00	257.19	-19.32	3,184.06	2,999.19	184.87	17.223		
11,500.00	7,870.00	7,855.00	7,855.00	62.50	136.13	90.00	257.19	-19.32	3,224.83	3,039.45	185.37	17.396		
11,600.00	7,870.00	7,855.00	7,855.00	62.84	136.13	90.00	257.19	-19.32	3,268.15	3,082.30	185.85	17.585		
11,700.00	7,870.00	7,855.00	7,855.00	63.25	136.13	90.00	257.19	-19.32	3,313.92	3,127.62	186.30	17.788		
11,800.00	7,870.00	7,855.00	7,855.00	63.76	136.13	90.00	257.19	-19.32	3,362.02	3,175.32	186.72	18.006		
11,900.00	7,870.00	7,855.00	7,855.00	64.34	136.13	90.00	257.19	-19.32	3,412.42	3,225.30	187.11	18.237		
12,000.00	7,870.00	7,855.00	7,855.00	65.01	136.13	90.00	257.19	-19.32	3,464.95	3,277.47	187.48	18.482		
12,100.00	7,870.00	7,855.00	7,855.00	65.77	136.13	90.00	257.19	-19.32	3,519.54	3,331.71	187.82	18.738		
12,200.00	7,870.00	7,855.00	7,855.00	66.61	136.13	90.00	257.19	-19.32	3,576.09	3,387.94	188.14	19.007		
12,300.00	7,870.00	7,855.00	7,855.00	67.51	136.13	90.00	257.19	-19.32	3,634.51	3,446.07	188.44	19.287		
12,400.00	7,870.00	7,855.00	7,855.00	68.49	136.13	90.00	257.19	-19.32	3,694.72	3,506.00	188.71	19.578		
12,500.00	7,870.00	7,855.00	7,855.00	69.52	136.13	90.00	257.19	-19.32	3,756.62	3,567.65	188.97	19.880		
12,600.00	7,870.00	7,855.00	7,855.00	70.61	136.13	90.00	257.19	-19.32	3,820.14	3,630.94	189.20	20.191		
12,700.00	7,870.00	7,855.00	7,855.00	71.75	136.13	90.00	257.19	-19.32	3,885.20	3,695.78	189.42	20.511		
12,800.00	7,870.00	7,855.00	7,855.00	72.93	136.13	90.00	257.19	-19.32	3,951.71	3,762.09	189.62	20.841		
12,900.00	7,870.00	7,855.00	7,855.00	74.14	136.13	90.00	257.19	-19.32	4,019.61	3,829.81	189.80	21.178		
13,000.00	7,870.00	7,855.00	7,855.00	75.39	136.13	90.00	257.19	-19.32	4,088.83	3,898.87	189.97	21.524		
13,100.00	7,870.00	7,855.00	7,855.00	76.67	136.13	90.00	257.19	-19.32	4,159.30	3,969.19	190.12	21.877		
13,200.00	7,870.00	7,855.00	7,855.00	77.98	136.13	90.00	257.19	-19.32	4,230.97	4,040.71	190.26	22.238		
13,300.00	7,870.00	7,855.00	7,855.00	79.31	136.13	90.00	257.19	-19.32	4,303.76	4,113.37	190.39	22.605		
13,400.00	7,870.00	7,855.00	7,855.00	80.67	136.13	90.00	257.19	-19.32	4,377.63	4,187.12	190.50	22.979		
13,500.00	7,870.00	7,855.00	7,855.00	82.04	136.13	90.00	257.19	-19.32	4,452.52	4,261.90	190.61	23.359		
13,600.00	7,870.00	7,855.00	7,855.00	83.43	136.13	90.00	257.19	-19.32	4,528.37	4,337.66	190.71	23.745		
13,700.00	7,870.00	7,855.00	7,855.00	84.84	136.13	90.00	257.19	-19.32	4,605.15	4,414.35	190.80	24.136		
13,800.00	7,870.00	7,855.00	7,855.00	86.27	136.13	90.00	257.19	-19.32	4,682.81	4,491.93	190.88	24.533		
13,900.00	7,870.00	7,855.00	7,855.00	87.71	136.13	90.00	257.19	-19.32	4,761.30	4,570.35	190.95	24.934		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,000.00	7,870.00	7,855.00	7,855.00	89.16	136.13	90.00	257.19	-19.32	4,840.58	4,649.56	191.02	25.341		
14,100.00	7,870.00	7,855.00	7,855.00	90.63	136.13	90.00	257.19	-19.32	4,920.62	4,729.54	191.08	25.751		
14,200.00	7,870.00	7,855.00	7,855.00	92.10	136.13	90.00	257.19	-19.32	5,001.38	4,810.24	191.14	26.166		
14,300.00	7,870.00	7,855.00	7,855.00	93.59	136.13	90.00	257.19	-19.32	5,082.82	4,891.63	191.19	26.586		
14,400.00	7,870.00	7,855.00	7,855.00	95.09	136.13	90.00	257.19	-19.32	5,164.91	4,973.68	191.23	27.009		
14,500.00	7,870.00	7,855.00	7,855.00	96.60	136.13	90.00	257.19	-19.32	5,247.63	5,056.35	191.27	27.435		
14,600.00	7,870.00	7,855.00	7,855.00	98.11	136.13	90.00	257.19	-19.32	5,330.93	5,139.62	191.31	27.865		
14,700.00	7,870.00	7,855.00	7,855.00	99.64	136.13	90.00	257.19	-19.32	5,414.80	5,223.46	191.35	28.299		
14,800.00	7,870.00	7,855.00	7,855.00	101.17	136.13	90.00	257.19	-19.32	5,499.22	5,307.84	191.38	28.735		
14,900.00	7,870.00	7,855.00	7,855.00	102.71	136.13	90.00	257.19	-19.32	5,584.14	5,392.74	191.40	29.175		
15,000.00	7,870.00	7,855.00	7,855.00	104.26	136.13	90.00	257.19	-19.32	5,669.56	5,478.13	191.43	29.617		
15,100.00	7,870.00	7,855.00	7,855.00	105.82	136.13	90.00	257.19	-19.32	5,755.45	5,564.00	191.45	30.062		
15,200.00	7,870.00	7,855.00	7,855.00	107.38	136.13	90.00	257.19	-19.32	5,841.79	5,650.31	191.47	30.509		
15,300.00	7,870.00	7,855.00	7,855.00	108.95	136.13	90.00	257.19	-19.32	5,928.55	5,737.06	191.49	30.959		
15,400.00	7,870.00	7,855.00	7,855.00	110.52	136.13	90.00	257.19	-19.32	6,015.73	5,824.22	191.51	31.412		
15,500.00	7,870.00	7,855.00	7,855.00	112.10	136.13	90.00	257.19	-19.32	6,103.30	5,911.77	191.53	31.866		
15,600.00	7,870.00	7,855.00	7,855.00	113.69	136.13	90.00	257.19	-19.32	6,191.25	5,999.70	191.54	32.323		
15,700.00	7,870.00	7,855.00	7,855.00	115.28	136.13	90.00	257.19	-19.32	6,279.55	6,088.00	191.56	32.782		
15,800.00	7,870.00	7,855.00	7,855.00	116.87	136.13	90.00	257.19	-19.32	6,368.21	6,176.64	191.57	33.242		
15,900.00	7,870.00	7,855.00	7,855.00	118.47	136.13	90.00	257.19	-19.32	6,457.19	6,265.61	191.58	33.705		
16,000.00	7,870.00	7,855.00	7,855.00	120.07	136.13	90.00	257.19	-19.32	6,546.50	6,354.90	191.59	34.169		
16,100.00	7,870.00	7,855.00	7,855.00	121.68	136.13	90.00	257.19	-19.32	6,636.10	6,444.50	191.60	34.634		
16,200.00	7,870.00	7,855.00	7,855.00	123.30	136.13	90.00	257.19	-19.32	6,726.00	6,534.39	191.61	35.102		
16,300.00	7,870.00	7,855.00	7,855.00	124.91	136.13	90.00	257.19	-19.32	6,816.19	6,624.56	191.62	35.571		
16,400.00	7,870.00	7,855.00	7,855.00	126.53	136.13	90.00	257.19	-19.32	6,906.64	6,715.01	191.63	36.041		
16,500.00	7,870.00	7,855.00	7,855.00	128.16	136.13	90.00	257.19	-19.32	6,997.35	6,805.71	191.64	36.512		
16,600.00	7,870.00	7,855.00	7,855.00	129.79	136.13	90.00	257.19	-19.32	7,088.32	6,896.66	191.65	36.985		
16,700.00	7,870.00	7,855.00	7,855.00	131.42	136.13	90.00	257.19	-19.32	7,179.52	6,987.86	191.66	37.459		
16,800.00	7,870.00	7,855.00	7,855.00	133.05	136.13	90.00	257.19	-19.32	7,270.95	7,079.28	191.67	37.934		
16,900.00	7,870.00	7,855.00	7,855.00	134.69	136.13	90.00	257.19	-19.32	7,362.61	7,170.93	191.68	38.411		
17,000.00	7,870.00	7,855.00	7,855.00	136.33	136.13	90.00	257.19	-19.32	7,454.48	7,262.79	191.69	38.888		
17,100.00	7,870.00	7,855.00	7,855.00	137.97	136.13	90.00	257.19	-19.32	7,546.56	7,354.86	191.70	39.367		
17,200.00	7,870.00	7,855.00	7,855.00	139.62	136.13	90.00	257.19	-19.32	7,638.84	7,447.13	191.71	39.846		
17,300.00	7,870.00	7,855.00	7,855.00	141.27	136.13	90.00	257.19	-19.32	7,731.31	7,539.59	191.72	40.326		
17,400.00	7,870.00	7,855.00	7,855.00	142.92	136.13	90.00	257.19	-19.32	7,823.96	7,632.23	191.73	40.807		
17,500.00	7,870.00	7,855.00	7,855.00	144.58	136.13	90.00	257.19	-19.32	7,916.79	7,725.05	191.74	41.289		
17,600.00	7,870.00	7,855.00	7,855.00	146.23	136.13	90.00	257.19	-19.32	8,009.80	7,818.05	191.75	41.772		
17,700.00	7,870.00	7,855.00	7,855.00	147.89	136.13	90.00	257.19	-19.32	8,102.97	7,911.21	191.76	42.255		
17,800.00	7,870.00	7,855.00	7,855.00	149.56	136.13	90.00	257.19	-19.32	8,196.31	8,004.53	191.78	42.739		
17,900.00	7,870.00	7,855.00	7,855.00	151.22	136.13	90.00	257.19	-19.32	8,289.80	8,098.01	191.79	43.224		
18,000.00	7,870.00	7,855.00	7,855.00	152.89	136.13	90.00	257.19	-19.32	8,383.43	8,191.63	191.80	43.709		
18,100.00	7,870.00	7,855.00	7,855.00	154.55	136.13	90.00	257.19	-19.32	8,477.22	8,285.40	191.81	44.195		
18,200.00	7,870.00	7,855.00	7,855.00	156.22	136.13	90.00	257.19	-19.32	8,571.14	8,379.32	191.83	44.681		
18,300.00	7,870.00	7,855.00	7,855.00	157.90	136.13	90.00	257.19	-19.32	8,665.21	8,473.36	191.84	45.168		
18,400.00	7,870.00	7,855.00	7,855.00	159.57	136.13	90.00	257.19	-19.32	8,759.40	8,567.54	191.86	45.656		
18,500.00	7,870.00	7,855.00	7,855.00	161.25	136.13	90.00	257.19	-19.32	8,853.72	8,661.85	191.87	46.144		
18,600.00	7,870.00	7,855.00	7,855.00	162.93	136.13	90.00	257.19	-19.32	8,948.16	8,756.27	191.89	46.632		
18,700.00	7,870.00	7,855.00	7,855.00	164.60	136.13	90.00	257.19	-19.32	9,042.72	8,850.82	191.91	47.121		
18,797.52	7,870.00	7,855.00	7,855.00	166.24	136.13	90.00	257.19	-19.32	9,135.05	8,943.13	191.92	47.598		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.30	0.36	-29.96	29.96					
100.00	100.00	100.00	100.00	0.13	0.13	-89.30	0.36	-29.96	29.96	29.69	0.27	111.445		
200.00	200.00	200.00	200.00	0.49	0.49	-89.30	0.36	-29.96	29.96	28.98	0.99	30.394		
300.00	300.00	300.00	300.00	0.85	0.85	-89.30	0.36	-29.96	29.96	28.26	1.70	17.597		
400.00	400.00	400.00	400.00	1.21	1.21	-89.30	0.36	-29.96	29.96	27.54	2.42	12.383		
500.00	500.00	500.00	500.00	1.57	1.57	-89.30	0.36	-29.96	29.96	26.83	3.14	9.552		
600.00	600.00	600.00	600.00	1.93	1.93	-89.30	0.36	-29.96	29.96	26.11	3.85	7.775		
700.00	700.00	700.00	700.00	2.29	2.29	-89.30	0.36	-29.96	29.96	25.39	4.57	6.556		
800.00	800.00	800.00	800.00	2.64	2.64	-89.30	0.36	-29.96	29.96	24.68	5.29	5.667		
900.00	900.00	900.00	900.00	3.00	3.00	-89.30	0.36	-29.96	29.96	23.96	6.00	4.990		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.30	0.36	-29.96	29.96	23.24	6.72	4.458	CC, ES	
1,100.00	1,099.98	1,100.02	1,099.98	3.72	3.72	-145.78	0.36	-29.96	31.39	23.96	7.43	4.222		
1,200.00	1,199.84	1,200.16	1,199.84	4.07	4.08	-150.45	0.36	-29.96	35.84	27.69	8.15	4.399		
1,300.00	1,299.45	1,299.45	1,299.45	4.43	4.43	-156.03	0.36	-29.96	43.64	34.78	8.86	4.927		
1,400.00	1,398.70	1,400.32	1,400.30	4.80	4.79	-160.24	1.65	-28.76	53.52	43.95	9.57	5.594		
1,500.00	1,497.47	1,501.56	1,501.39	5.18	5.15	-162.51	5.55	-25.13	63.84	53.57	10.27	6.216		
1,600.00	1,595.62	1,603.14	1,602.57	5.57	5.52	-163.61	12.09	-19.04	74.46	63.48	10.97	6.786		
1,700.00	1,693.06	1,705.06	1,703.72	6.00	5.89	-163.96	21.29	-10.48	85.29	73.62	11.67	7.308		
1,800.00	1,789.64	1,807.33	1,804.68	6.45	6.27	-163.80	33.16	0.56	96.33	83.95	12.37	7.785		
1,900.00	1,885.27	1,909.92	1,905.32	6.94	6.67	-163.28	47.71	14.11	107.54	94.46	13.08	8.223		
2,000.00	1,979.82	2,012.84	2,005.51	7.47	7.10	-162.51	64.95	30.15	118.95	105.15	13.80	8.621		
2,100.00	2,073.17	2,116.07	2,105.08	8.05	7.55	-161.56	84.88	48.69	130.55	116.01	14.54	8.982		
2,200.00	2,165.21	2,219.62	2,203.90	8.67	8.04	-160.46	107.49	69.74	142.35	127.05	15.30	9.305		
2,300.00	2,255.84	2,323.46	2,301.83	9.35	8.57	-159.26	132.77	93.27	154.37	138.27	16.10	9.588		
2,400.00	2,344.94	2,427.59	2,398.70	10.09	9.15	-157.98	160.72	119.28	166.62	149.67	16.95	9.831		
2,500.00	2,432.39	2,532.01	2,494.39	10.89	9.78	-156.64	191.32	147.76	179.12	161.26	17.86	10.030		
2,519.29	2,449.07	2,552.19	2,512.70	11.05	9.90	-156.38	197.53	153.53	181.55	163.51	18.04	10.063		
2,600.00	2,518.69	2,633.39	2,586.03	11.74	10.43	-155.35	223.04	177.28	191.36	172.49	18.88	10.136		
2,700.00	2,604.95	2,732.57	2,675.57	12.62	11.10	-154.22	254.28	206.35	203.51	183.54	19.98	10.187		
2,800.00	2,691.22	2,831.75	2,765.10	13.52	11.79	-153.21	285.51	235.42	215.73	194.62	21.11	10.218		
2,900.00	2,777.48	2,930.94	2,854.64	14.43	12.50	-152.32	316.75	264.49	228.01	205.72	22.28	10.232		
3,000.00	2,863.75	3,030.12	2,944.17	15.35	13.22	-151.51	347.99	293.56	240.34	216.85	23.49	10.233		
3,100.00	2,950.01	3,129.30	3,033.71	16.28	13.95	-150.78	379.22	322.63	252.71	227.99	24.71	10.225		
3,200.00	3,036.27	3,228.49	3,123.24	17.22	14.69	-150.12	410.46	351.70	265.11	239.15	25.97	10.210		
3,300.00	3,122.54	3,327.67	3,212.78	18.17	15.44	-149.52	441.70	380.77	277.55	250.31	27.24	10.190		
3,400.00	3,208.80	3,426.85	3,302.31	19.13	16.20	-148.97	472.93	409.84	290.01	261.48	28.53	10.165		
3,500.00	3,295.07	3,526.04	3,391.85	20.09	16.97	-148.47	504.17	438.91	302.50	272.66	29.84	10.139		
3,600.00	3,381.33	3,625.22	3,481.38	21.05	17.74	-148.01	535.41	467.98	315.01	283.85	31.16	10.110		
3,700.00	3,467.59	3,724.41	3,570.92	22.02	18.51	-147.58	566.64	497.06	327.54	295.05	32.49	10.080		
3,800.00	3,553.86	3,823.59	3,660.45	22.99	19.29	-147.18	597.88	526.13	340.08	306.24	33.84	10.050		
3,900.00	3,640.12	3,922.77	3,749.99	23.97	20.07	-146.81	629.12	555.20	352.64	317.45	35.20	10.019		
4,000.00	3,726.38	4,021.96	3,839.52	24.95	20.86	-146.47	660.35	584.27	365.22	328.65	36.56	9.989		
4,100.00	3,812.65	4,121.14	3,929.06	25.93	21.65	-146.15	691.59	613.34	377.80	339.87	37.94	9.958		
4,200.00	3,898.91	4,220.32	4,018.59	26.91	22.44	-145.85	722.83	642.41	390.40	351.08	39.32	9.929		
4,300.00	3,985.18	4,319.51	4,108.13	27.90	23.24	-145.57	754.06	671.48	403.01	362.30	40.71	9.899		
4,400.00	4,071.44	4,418.69	4,197.66	28.88	24.03	-145.31	785.30	700.55	415.62	373.52	42.11	9.871		
4,500.00	4,157.70	4,517.87	4,287.20	29.87	24.83	-145.06	816.53	729.62	428.25	384.74	43.51	9.843		
4,600.00	4,243.97	4,617.06	4,376.73	30.86	25.63	-144.82	847.77	758.69	440.88	395.96	44.91	9.816		
4,700.00	4,330.23	4,716.24	4,466.27	31.85	26.43	-144.60	879.01	787.76	453.51	407.19	46.32	9.790		
4,800.00	4,416.49	4,815.42	4,555.80	32.84	27.24	-144.39	910.24	816.83	466.16	418.42	47.74	9.765		
4,900.00	4,502.76	4,914.61	4,645.34	33.84	28.04	-144.19	941.48	845.90	478.81	429.65	49.16	9.740		
5,000.00	4,589.02	5,013.79	4,734.87	34.83	28.85	-144.01	972.72	874.97	491.46	440.88	50.58	9.716		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,112.97	4,824.41	35.82	29.66	-143.83	1,003.95	904.04	504.12	452.11	52.01	9.693		
5,200.00	4,761.55	5,212.16	4,913.94	36.82	30.46	-143.66	1,035.19	933.11	516.79	463.35	53.44	9.671		
5,300.00	4,847.81	5,311.34	5,003.48	37.82	31.27	-143.50	1,066.43	962.19	529.46	474.59	54.87	9.649		
5,400.00	4,934.08	5,410.52	5,093.01	38.81	32.08	-143.34	1,097.66	991.26	542.13	485.82	56.31	9.628		
5,500.00	5,020.34	5,509.71	5,182.55	39.81	32.89	-143.20	1,128.90	1,020.33	554.81	497.06	57.75	9.608		
5,600.00	5,106.60	5,608.89	5,272.08	40.81	33.71	-143.06	1,160.14	1,049.40	567.49	508.30	59.19	9.588		
5,700.00	5,192.87	5,708.07	5,361.62	41.81	34.52	-142.92	1,191.37	1,078.47	580.17	519.54	60.63	9.569		
5,800.00	5,279.13	5,807.26	5,451.16	42.81	35.33	-142.79	1,222.61	1,107.54	592.86	530.78	62.07	9.551		
5,900.00	5,365.40	5,906.44	5,540.69	43.81	36.15	-142.67	1,253.84	1,136.61	605.54	542.03	63.52	9.533		
6,000.00	5,451.66	6,005.62	5,630.23	44.81	36.96	-142.55	1,285.08	1,165.68	618.24	553.27	64.97	9.516		
6,100.00	5,537.92	6,104.81	5,719.76	45.81	37.78	-142.44	1,316.32	1,194.75	630.93	564.51	66.42	9.500		
6,200.00	5,624.19	6,203.99	5,809.30	46.81	38.59	-142.33	1,347.55	1,223.82	643.63	575.76	67.87	9.483		
6,300.00	5,710.45	6,303.18	5,898.83	47.81	39.41	-142.22	1,378.79	1,252.89	656.33	587.00	69.32	9.468		
6,400.00	5,796.72	6,402.36	5,988.37	48.81	40.22	-142.12	1,410.03	1,281.96	669.03	598.25	70.78	9.453		
6,500.00	5,882.98	6,501.54	6,077.90	49.81	41.04	-142.03	1,441.26	1,311.03	681.73	609.50	72.23	9.438		
6,600.00	5,969.24	6,600.73	6,167.44	50.82	41.86	-141.93	1,472.50	1,340.10	694.43	620.75	73.69	9.424		
6,700.00	6,055.51	6,700.09	6,256.97	51.82	42.68	-141.84	1,503.74	1,369.17	707.14	631.99	75.15	9.410		
6,800.00	6,141.77	6,799.09	6,346.51	52.82	43.49	-141.76	1,534.97	1,398.25	719.85	643.24	76.61	9.397		
6,900.00	6,228.03	6,901.72	6,436.04	53.83	44.34	-141.67	1,566.21	1,427.32	732.56	654.47	78.09	9.381		
7,000.00	6,314.30	7,002.54	6,525.58	54.83	45.17	-141.59	1,597.45	1,456.39	745.27	665.71	79.56	9.367		
7,100.00	6,400.56	7,103.36	6,615.11	55.83	46.00	-141.51	1,628.68	1,485.46	757.98	676.95	81.03	9.354		
7,200.00	6,486.83	7,204.17	6,704.65	56.84	46.84	-141.44	1,659.92	1,514.53	770.69	688.19	82.51	9.341		
7,300.00	6,573.09	7,304.99	6,794.18	57.84	47.67	-141.36	1,691.15	1,543.60	783.41	699.43	83.98	9.328		
7,400.00	6,659.35	7,405.81	6,883.72	58.84	48.50	-141.29	1,722.39	1,572.67	796.13	710.67	85.46	9.316		
7,500.00	6,745.62	7,506.62	6,973.25	59.85	49.33	-141.23	1,753.63	1,601.74	808.84	721.91	86.94	9.304		
7,600.00	6,831.88	7,607.44	7,062.79	60.85	50.17	-141.16	1,784.86	1,630.81	821.56	733.15	88.41	9.292		
7,700.00	6,918.14	7,691.74	7,152.32	61.86	50.87	-141.09	1,816.10	1,659.88	834.28	744.50	89.78	9.293		
7,800.00	7,004.41	7,804.14	7,256.43	62.86	51.69	-141.77	1,840.91	1,693.64	846.21	755.56	90.65	9.335		
7,900.00	7,090.67	7,909.36	7,356.34	63.87	52.24	-143.69	1,844.37	1,725.98	857.20	767.07	90.13	9.511		
8,000.00	7,176.94	8,001.95	7,443.50	64.87	52.54	-146.34	1,831.50	1,754.13	868.96	780.27	88.69	9.798		
8,027.52	7,200.68	8,024.91	7,464.71	65.15	52.58	-147.12	1,826.03	1,760.97	872.61	784.42	88.18	9.895		
8,050.00	7,220.18	8,043.07	7,481.34	65.37	52.61	-151.47	1,821.08	1,766.34	875.78	788.00	87.78	9.978		
8,100.00	7,264.25	8,082.55	7,516.92	65.85	52.65	-162.09	1,808.42	1,777.80	883.46	796.56	86.90	10.167		
8,150.00	7,308.99	8,120.92	7,550.63	66.28	52.67	-173.86	1,793.67	1,788.66	891.87	805.79	86.08	10.361		
8,200.00	7,354.07	8,158.34	7,582.53	66.67	52.66	173.73	1,777.04	1,798.92	900.88	815.55	85.32	10.559		
8,250.00	7,399.14	8,194.94	7,612.68	67.02	52.63	161.38	1,758.68	1,808.61	910.32	825.69	84.63	10.757		
8,300.00	7,443.85	8,230.85	7,641.11	67.32	52.58	149.82	1,738.75	1,817.74	920.04	836.06	83.99	10.955		
8,350.00	7,487.88	8,266.16	7,667.86	67.56	52.52	139.52	1,717.36	1,826.32	929.91	846.50	83.41	11.149		
8,400.00	7,530.87	8,300.00	7,692.27	67.75	52.44	130.64	1,695.28	1,834.14	939.78	856.86	82.92	11.333		
8,450.00	7,572.51	8,335.30	7,716.37	67.90	52.34	123.08	1,670.67	1,841.86	949.51	867.09	82.43	11.519		
8,500.00	7,612.48	8,369.26	7,738.16	68.00	52.23	116.74	1,645.57	1,848.82	958.99	876.96	82.03	11.691		
8,550.00	7,650.47	8,400.00	7,756.62	68.05	52.12	111.45	1,621.72	1,854.71	968.09	886.29	81.80	11.835		
8,600.00	7,686.20	8,436.25	7,776.80	68.06	51.97	106.93	1,592.31	1,861.14	976.70	895.29	81.41	11.998		
8,650.00	7,719.39	8,469.36	7,793.65	68.03	51.83	103.17	1,564.32	1,866.50	984.73	903.53	81.19	12.128		
8,700.00	7,749.79	8,500.00	7,807.85	67.97	51.70	100.05	1,537.55	1,871.00	992.09	910.95	81.14	12.227		
8,750.00	7,777.17	8,535.01	7,822.39	67.87	51.53	97.40	1,506.05	1,875.59	998.71	917.74	80.97	12.335		
8,800.00	7,801.32	8,567.60	7,834.25	67.74	51.36	95.24	1,475.92	1,879.33	1,004.51	923.56	80.95	12.408		
8,850.00	7,822.06	8,600.00	7,844.41	67.59	51.20	93.50	1,445.33	1,882.51	1,009.44	928.43	81.01	12.460		
8,900.00	7,839.23	8,632.48	7,852.93	67.41	51.02	92.13	1,414.10	1,885.16	1,013.46	932.32	81.14	12.491		
8,950.00	7,852.69	8,664.81	7,859.72	67.22	50.84	91.11	1,382.56	1,887.25	1,016.52	935.19	81.33	12.499		
9,000.00	7,862.35	8,700.00	7,865.18	67.00	50.65	90.42	1,347.85	1,888.90	1,018.60	937.17	81.43	12.509		
9,050.00	7,868.14	8,729.37	7,868.18	66.78	50.48	90.05	1,318.64	1,889.77	1,019.66	937.78	81.88	12.453		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,760.78	7,869.80	66.55	50.30	89.99	1,287.29	1,890.19	1,019.74	937.51	82.22	12.402		
9,100.00	7,870.00	8,761.65	7,869.82	66.55	50.30	89.99	1,286.42	1,890.19	1,019.73	937.49	82.23	12.400		
9,120.33	7,870.00	8,778.54	7,870.00	66.45	50.20	90.00	1,274.09	1,890.21	1,019.64	937.24	82.40	12.374		
9,200.00	7,870.00	8,853.64	7,870.00	66.09	49.78	90.00	1,194.42	1,889.94	1,019.64	938.05	81.59	12.497		
9,300.00	7,870.00	8,953.64	7,870.00	65.65	49.25	90.00	1,094.42	1,889.60	1,019.64	938.99	80.66	12.642		
9,400.00	7,870.00	9,053.64	7,870.00	65.24	48.75	90.00	994.42	1,889.26	1,019.65	939.77	79.87	12.766		
9,500.00	7,870.00	9,153.64	7,870.00	64.85	48.27	90.00	894.42	1,888.92	1,019.65	940.41	79.24	12.868		
9,600.00	7,870.00	9,253.64	7,870.00	64.48	47.83	90.00	794.42	1,888.58	1,019.65	940.89	78.76	12.947		
9,700.00	7,870.00	9,353.64	7,870.00	64.13	47.41	90.00	694.43	1,888.24	1,019.65	941.22	78.43	13.000		
9,800.00	7,870.00	9,453.64	7,870.00	63.80	47.01	90.00	594.43	1,887.90	1,019.65	941.39	78.27	13.028		
9,900.00	7,870.00	9,553.64	7,870.00	63.50	46.64	90.00	494.43	1,887.56	1,019.65	941.40	78.26	13.029		
10,000.00	7,870.00	9,653.64	7,870.00	63.22	46.29	90.00	394.43	1,887.22	1,019.66	941.24	78.41	13.004		
10,100.00	7,870.00	9,753.64	7,870.00	62.96	45.97	90.00	294.43	1,886.88	1,019.66	940.93	78.72	12.952		
10,200.00	7,870.00	9,853.64	7,870.00	62.72	45.67	90.00	194.43	1,886.54	1,019.66	940.47	79.19	12.876		
10,300.00	7,870.00	9,953.64	7,870.00	62.50	45.39	90.00	94.43	1,886.20	1,019.66	939.85	79.82	12.775		
10,400.00	7,870.00	10,053.64	7,870.00	62.31	45.14	90.00	-5.57	1,885.86	1,019.66	939.08	80.59	12.653		
10,500.00	7,870.00	10,153.64	7,870.00	62.15	44.91	90.00	-105.57	1,885.52	1,019.67	938.16	81.51	12.510		
10,600.00	7,870.00	10,253.64	7,870.00	62.01	44.72	90.00	-205.57	1,885.18	1,019.67	937.10	82.57	12.350		
10,700.00	7,870.00	10,353.64	7,870.00	61.90	44.59	90.00	-305.57	1,884.84	1,019.67	935.91	83.76	12.173		
10,800.00	7,870.00	10,453.64	7,870.00	61.82	44.55	90.00	-405.57	1,884.50	1,019.67	934.58	85.09	11.983		
10,900.00	7,870.00	10,553.64	7,870.00	61.78	44.66	90.00	-505.57	1,884.16	1,019.67	933.13	86.54	11.783		
11,000.00	7,870.00	10,653.64	7,870.00	61.77	45.06	90.00	-605.57	1,883.82	1,019.68	931.57	88.11	11.573		
11,100.00	7,870.00	10,753.64	7,870.00	61.81	45.75	90.00	-705.57	1,883.48	1,019.68	929.89	89.79	11.357		
11,200.00	7,870.00	10,853.64	7,870.00	61.90	46.64	90.00	-805.57	1,883.15	1,019.68	928.11	91.57	11.135		
11,300.00	7,870.00	10,953.64	7,870.00	62.03	47.64	90.00	-905.57	1,882.81	1,019.68	926.22	93.46	10.911		
11,400.00	7,870.00	11,053.64	7,870.00	62.23	48.71	90.00	-1,005.56	1,882.47	1,019.68	924.25	95.44	10.684		
11,500.00	7,870.00	11,153.64	7,870.00	62.50	49.83	90.00	-1,105.56	1,882.13	1,019.69	922.18	97.50	10.458		
11,600.00	7,870.00	11,253.64	7,870.00	62.84	51.00	90.00	-1,205.56	1,881.79	1,019.69	920.04	99.65	10.232		
11,700.00	7,870.00	11,353.64	7,870.00	63.25	52.19	90.00	-1,305.56	1,881.45	1,019.69	917.81	101.88	10.009		
11,800.00	7,870.00	11,453.64	7,870.00	63.76	53.42	90.00	-1,405.56	1,881.11	1,019.69	915.51	104.18	9.788		
11,900.00	7,870.00	11,553.64	7,870.00	64.34	54.68	90.00	-1,505.56	1,880.77	1,019.69	913.15	106.54	9.571		
12,000.00	7,870.00	11,653.64	7,870.00	65.01	55.96	90.00	-1,605.56	1,880.43	1,019.70	910.72	108.97	9.357		
12,100.00	7,870.00	11,753.64	7,870.00	65.77	57.27	90.00	-1,705.56	1,880.09	1,019.70	908.24	111.46	9.148		
12,200.00	7,870.00	11,853.64	7,870.00	66.61	58.59	90.00	-1,805.56	1,879.75	1,019.70	905.69	114.01	8.944		
12,300.00	7,870.00	11,953.64	7,870.00	67.51	59.94	90.00	-1,905.56	1,879.41	1,019.70	903.10	116.60	8.745		
12,400.00	7,870.00	12,053.64	7,870.00	68.49	61.30	90.00	-2,005.56	1,879.07	1,019.70	900.46	119.24	8.551		
12,500.00	7,870.00	12,153.64	7,870.00	69.52	62.69	90.00	-2,105.56	1,878.73	1,019.70	897.77	121.93	8.363		
12,600.00	7,870.00	12,253.64	7,870.00	70.61	64.08	90.00	-2,205.56	1,878.39	1,019.71	895.04	124.66	8.180		
12,700.00	7,870.00	12,353.64	7,870.00	71.75	65.50	90.00	-2,305.56	1,878.05	1,019.71	892.27	127.43	8.002		
12,800.00	7,870.00	12,453.64	7,870.00	72.93	66.93	90.00	-2,405.56	1,877.71	1,019.71	889.47	130.24	7.829		
12,900.00	7,870.00	12,553.64	7,870.00	74.14	68.37	90.00	-2,505.56	1,877.37	1,019.71	886.63	133.08	7.662		
13,000.00	7,870.00	12,653.64	7,870.00	75.39	69.83	90.00	-2,605.56	1,877.03	1,019.71	883.76	135.96	7.500		
13,100.00	7,870.00	12,753.64	7,870.00	76.67	71.30	90.00	-2,705.56	1,876.69	1,019.72	880.85	138.86	7.343		
13,200.00	7,870.00	12,853.64	7,870.00	77.98	72.78	90.00	-2,805.55	1,876.35	1,019.72	877.92	141.80	7.191		
13,300.00	7,870.00	12,953.64	7,870.00	79.31	74.27	90.00	-2,905.55	1,876.01	1,019.72	874.96	144.76	7.044		
13,400.00	7,870.00	13,053.64	7,870.00	80.67	75.77	90.00	-3,005.55	1,875.67	1,019.72	871.98	147.74	6.902		
13,500.00	7,870.00	13,153.64	7,870.00	82.04	77.28	90.00	-3,105.55	1,875.33	1,019.72	868.97	150.75	6.764		
13,600.00	7,870.00	13,253.64	7,870.00	83.43	78.80	90.00	-3,205.55	1,874.99	1,019.73	865.94	153.78	6.631		
13,700.00	7,870.00	13,353.64	7,870.00	84.84	80.33	90.00	-3,305.55	1,874.65	1,019.73	862.89	156.84	6.502		
13,800.00	7,870.00	13,453.64	7,870.00	86.27	81.87	90.00	-3,405.55	1,874.31	1,019.73	859.82	159.91	6.377		
13,900.00	7,870.00	13,553.64	7,870.00	87.71	83.42	90.00	-3,505.55	1,873.97	1,019.73	856.73	163.00	6.256		
14,000.00	7,870.00	13,653.64	7,870.00	89.16	84.97	90.00	-3,605.55	1,873.64	1,019.73	853.62	166.11	6.139		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	13,753.64	7,870.00	90.63	86.54	90.00	-3,705.55	1,873.30	1,019.74	850.50	169.23	6.026		
14,200.00	7,870.00	13,853.64	7,870.00	92.10	88.11	90.00	-3,805.55	1,872.96	1,019.74	847.36	172.38	5.916		
14,300.00	7,870.00	13,953.64	7,870.00	93.59	89.68	90.00	-3,905.55	1,872.62	1,019.74	844.21	175.53	5.809		
14,400.00	7,870.00	14,053.64	7,870.00	95.09	91.26	90.00	-4,005.55	1,872.28	1,019.74	841.04	178.70	5.706		
14,500.00	7,870.00	14,153.64	7,870.00	96.60	92.85	90.00	-4,105.55	1,871.94	1,019.74	837.86	181.89	5.606		
14,600.00	7,870.00	14,253.64	7,870.00	98.11	94.44	90.00	-4,205.55	1,871.60	1,019.75	834.66	185.08	5.510		
14,700.00	7,870.00	14,353.64	7,870.00	99.64	96.04	90.00	-4,305.55	1,871.26	1,019.75	831.45	188.29	5.416		
14,800.00	7,870.00	14,453.64	7,870.00	101.17	97.65	90.00	-4,405.55	1,870.92	1,019.75	828.24	191.51	5.325		
14,900.00	7,870.00	14,553.64	7,870.00	102.71	99.26	90.00	-4,505.54	1,870.58	1,019.75	825.01	194.74	5.236		
15,000.00	7,870.00	14,653.64	7,870.00	104.26	100.87	90.00	-4,605.54	1,870.24	1,019.75	821.77	197.99	5.151		
15,100.00	7,870.00	14,753.64	7,870.00	105.82	102.49	90.00	-4,705.54	1,869.90	1,019.75	818.52	201.24	5.067		
15,200.00	7,870.00	14,853.64	7,870.00	107.38	104.11	90.00	-4,805.54	1,869.56	1,019.76	815.26	204.50	4.987		
15,300.00	7,870.00	14,953.64	7,870.00	108.95	105.74	90.00	-4,905.54	1,869.22	1,019.76	811.99	207.77	4.908		
15,400.00	7,870.00	15,053.64	7,870.00	110.52	107.37	90.00	-5,005.54	1,868.88	1,019.76	808.71	211.05	4.832		
15,500.00	7,870.00	15,153.64	7,870.00	112.10	109.01	90.00	-5,105.54	1,868.54	1,019.76	805.43	214.33	4.758		
15,600.00	7,870.00	15,253.64	7,870.00	113.69	110.65	90.00	-5,205.54	1,868.20	1,019.76	802.14	217.63	4.686		
15,700.00	7,870.00	15,353.64	7,870.00	115.28	112.29	90.00	-5,305.54	1,867.86	1,019.77	798.84	220.93	4.616		
15,800.00	7,870.00	15,453.64	7,870.00	116.87	113.94	90.00	-5,405.54	1,867.52	1,019.77	795.53	224.24	4.548		
15,900.00	7,870.00	15,553.64	7,870.00	118.47	115.58	90.00	-5,505.54	1,867.18	1,019.77	792.22	227.55	4.481		
16,000.00	7,870.00	15,653.64	7,870.00	120.07	117.24	90.00	-5,605.54	1,866.84	1,019.77	788.90	230.87	4.417		
16,100.00	7,870.00	15,753.64	7,870.00	121.68	118.89	90.00	-5,705.54	1,866.50	1,019.77	785.57	234.20	4.354		
16,200.00	7,870.00	15,853.64	7,870.00	123.30	120.55	90.00	-5,805.54	1,866.16	1,019.78	782.24	237.54	4.293		
16,300.00	7,870.00	15,953.64	7,870.00	124.91	122.21	90.00	-5,905.54	1,865.82	1,019.78	778.90	240.88	4.234		
16,400.00	7,870.00	16,053.64	7,870.00	126.53	123.88	90.00	-6,005.54	1,865.48	1,019.78	775.56	244.22	4.176		
16,500.00	7,870.00	16,153.64	7,870.00	128.16	125.54	90.00	-6,105.54	1,865.14	1,019.78	772.21	247.57	4.119		
16,600.00	7,870.00	16,253.64	7,870.00	129.79	127.21	90.00	-6,205.54	1,864.80	1,019.78	768.86	250.93	4.064		
16,700.00	7,870.00	16,353.64	7,870.00	131.42	128.88	90.00	-6,305.53	1,864.46	1,019.79	765.50	254.29	4.010		
16,800.00	7,870.00	16,453.64	7,870.00	133.05	130.56	90.00	-6,405.53	1,864.13	1,019.79	762.13	257.65	3.958		
16,900.00	7,870.00	16,553.64	7,870.00	134.69	132.23	90.00	-6,505.53	1,863.79	1,019.79	758.77	261.02	3.907		
17,000.00	7,870.00	16,653.64	7,870.00	136.33	133.91	90.00	-6,605.53	1,863.45	1,019.79	755.39	264.40	3.857		
17,100.00	7,870.00	16,753.64	7,870.00	137.97	135.59	90.00	-6,705.53	1,863.11	1,019.79	752.02	267.78	3.808		
17,200.00	7,870.00	16,853.64	7,870.00	139.62	137.28	90.00	-6,805.53	1,862.77	1,019.80	748.64	271.16	3.761		
17,300.00	7,870.00	16,953.64	7,870.00	141.27	138.96	90.00	-6,905.53	1,862.43	1,019.80	745.25	274.54	3.715		
17,400.00	7,870.00	17,053.64	7,870.00	142.92	140.65	90.00	-7,005.53	1,862.09	1,019.80	741.87	277.93	3.669		
17,500.00	7,870.00	17,153.64	7,870.00	144.58	142.33	90.00	-7,105.53	1,861.75	1,019.80	738.48	281.33	3.625		
17,600.00	7,870.00	17,253.64	7,870.00	146.23	144.02	90.00	-7,205.53	1,861.41	1,019.80	735.08	284.72	3.582		
17,700.00	7,870.00	17,353.64	7,870.00	147.89	145.72	90.00	-7,305.53	1,861.07	1,019.80	731.68	288.12	3.539		
17,800.00	7,870.00	17,453.64	7,870.00	149.56	147.41	90.00	-7,405.53	1,860.73	1,019.81	728.28	291.53	3.498		
17,900.00	7,870.00	17,553.64	7,870.00	151.22	149.10	90.00	-7,505.53	1,860.39	1,019.81	724.88	294.93	3.458		
18,000.00	7,870.00	17,653.64	7,870.00	152.89	150.80	90.00	-7,605.53	1,860.05	1,019.81	721.47	298.34	3.418		
18,100.00	7,870.00	17,753.64	7,870.00	154.55	152.50	90.00	-7,705.53	1,859.71	1,019.81	718.06	301.75	3.380		
18,200.00	7,870.00	17,853.64	7,870.00	156.22	154.20	90.00	-7,805.53	1,859.37	1,019.81	714.65	305.17	3.342		
18,300.00	7,870.00	17,953.64	7,870.00	157.90	155.90	90.00	-7,905.53	1,859.03	1,019.82	711.23	308.59	3.305		
18,400.00	7,870.00	18,053.64	7,870.00	159.57	157.60	90.00	-8,005.52	1,858.69	1,019.82	707.81	312.01	3.269		
18,500.00	7,870.00	18,153.64	7,870.00	161.25	159.30	90.00	-8,105.52	1,858.35	1,019.82	704.39	315.43	3.233		
18,600.00	7,870.00	18,253.64	7,870.00	162.93	161.01	90.00	-8,205.52	1,858.01	1,019.82	700.97	318.85	3.198		
18,700.00	7,870.00	18,353.64	7,870.00	164.60	162.72	90.00	-8,305.52	1,857.67	1,019.82	697.54	322.28	3.164		
18,797.52	7,870.00	18,451.16	7,870.00	166.24	164.38	90.00	-8,403.04	1,857.34	1,019.83	694.20	325.63	3.132 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	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	1,099.98	1,100.02	1,099.98	3.72	3.72	-147.29	0.00	-20.16	21.61	14.17	7.43	2.906		
1,200.00	1,199.84	1,199.84	1,199.84	4.07	4.08	-153.45	0.00	-20.16	26.16	18.02	8.15	3.212		
1,300.00	1,299.45	1,300.48	1,300.45	4.43	4.44	-158.57	1.20	-18.87	32.65	23.80	8.85	3.688		
1,400.00	1,398.70	1,401.36	1,401.19	4.80	4.79	-161.34	4.81	-14.98	39.45	29.90	9.55	4.130		
1,500.00	1,497.47	1,502.47	1,501.91	5.18	5.16	-162.73	10.86	-8.47	46.45	36.20	10.25	4.533		
1,600.00	1,595.62	1,603.83	1,602.49	5.57	5.53	-163.27	19.34	0.66	53.58	42.64	10.94	4.898		
1,700.00	1,693.06	1,705.42	1,702.80	6.00	5.91	-163.26	30.26	12.43	60.83	49.20	11.63	5.230		
1,800.00	1,789.64	1,807.24	1,802.70	6.45	6.31	-162.86	43.63	26.82	68.18	55.85	12.33	5.531		
1,900.00	1,885.27	1,909.28	1,902.06	6.94	6.73	-162.18	59.44	43.85	75.63	62.60	13.03	5.805		
2,000.00	1,979.82	2,011.55	2,000.74	7.47	7.19	-161.31	77.70	63.51	83.19	69.44	13.75	6.052		
2,100.00	2,073.17	2,114.04	2,098.61	8.05	7.68	-160.29	98.38	85.79	90.85	76.37	14.48	6.272		
2,200.00	2,165.21	2,216.74	2,195.53	8.67	8.21	-159.16	121.49	110.67	98.63	83.38	15.25	6.467		
2,300.00	2,255.84	2,319.65	2,291.36	9.35	8.79	-157.95	146.99	138.14	106.54	90.48	16.06	6.633		
2,400.00	2,344.94	2,422.76	2,385.97	10.09	9.42	-156.67	174.89	168.18	114.58	97.66	16.92	6.770		
2,500.00	2,432.39	2,526.07	2,479.22	10.89	10.10	-155.35	205.14	200.75	122.76	104.91	17.85	6.877		
2,519.29	2,449.07	2,546.02	2,497.04	11.05	10.24	-155.09	211.24	207.33	124.35	106.31	18.04	6.894		
2,600.00	2,518.69	2,627.76	2,569.56	11.74	10.83	-153.95	236.89	234.95	130.40	111.50	18.90	6.899		
2,700.00	2,604.95	2,727.44	2,657.89	12.62	11.58	-152.63	268.33	268.81	137.75	117.69	20.07	6.865		
2,800.00	2,691.22	2,827.12	2,746.22	13.52	12.34	-151.45	299.77	302.66	145.17	123.89	21.28	6.823		
2,900.00	2,777.48	2,926.80	2,834.55	14.43	13.12	-150.39	331.21	336.52	152.64	130.11	22.53	6.776		
3,000.00	2,863.75	3,026.48	2,922.88	15.35	13.92	-149.42	362.64	370.38	160.16	136.35	23.81	6.726		
3,100.00	2,950.01	3,126.17	3,011.21	16.28	14.73	-148.54	394.08	404.23	167.72	142.59	25.13	6.674		
3,200.00	3,036.27	3,225.85	3,099.53	17.22	15.55	-147.74	425.52	438.09	175.31	148.84	26.47	6.622		
3,300.00	3,122.54	3,325.53	3,187.86	18.17	16.38	-147.01	456.96	471.95	182.94	155.10	27.85	6.570		
3,400.00	3,208.80	3,425.21	3,276.19	19.13	17.21	-146.33	488.40	505.80	190.60	161.36	29.24	6.519		
3,500.00	3,295.07	3,524.90	3,364.52	20.09	18.05	-145.70	519.83	539.66	198.27	167.63	30.65	6.469		
3,600.00	3,381.33	3,624.58	3,452.85	21.05	18.90	-145.13	551.27	573.51	205.98	173.90	32.08	6.421		
3,700.00	3,467.59	3,724.26	3,541.18	22.02	19.75	-144.59	582.71	607.37	213.70	180.17	33.52	6.375		
3,800.00	3,553.86	3,823.94	3,629.51	22.99	20.61	-144.09	614.15	641.23	221.43	186.45	34.98	6.330		
3,900.00	3,640.12	3,923.63	3,717.83	23.97	21.47	-143.62	645.59	675.08	229.19	192.74	36.45	6.288		
4,000.00	3,726.38	4,023.31	3,806.16	24.95	22.33	-143.19	677.02	708.94	236.95	199.02	37.93	6.247		
4,100.00	3,812.65	4,122.99	3,894.49	25.93	23.20	-142.78	708.46	742.80	244.73	205.31	39.42	6.208		
4,200.00	3,898.91	4,222.67	3,982.82	26.91	24.07	-142.40	739.90	776.65	252.53	211.60	40.92	6.171		
4,300.00	3,985.18	4,322.35	4,071.15	27.90	24.94	-142.04	771.34	810.51	260.33	217.90	42.43	6.136		
4,400.00	4,071.44	4,422.04	4,159.48	28.88	25.81	-141.70	802.78	844.36	268.14	224.20	43.94	6.102		
4,500.00	4,157.70	4,521.72	4,247.81	29.87	26.68	-141.38	834.21	878.22	275.96	230.49	45.47	6.070		
4,600.00	4,243.97	4,621.40	4,336.14	30.86	27.56	-141.08	865.65	912.08	283.79	236.80	46.99	6.039		
4,700.00	4,330.23	4,721.08	4,424.46	31.85	28.44	-140.80	897.09	945.93	291.63	243.10	48.53	6.010		
4,800.00	4,416.49	4,820.77	4,512.79	32.84	29.32	-140.53	928.53	979.79	299.47	249.40	50.06	5.982		
4,900.00	4,502.76	4,920.45	4,601.12	33.84	30.20	-140.27	959.97	1,013.65	307.32	255.71	51.61	5.955		
5,000.00	4,589.02	5,020.13	4,689.45	34.83	31.08	-140.03	991.40	1,047.50	315.17	262.02	53.15	5.929		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,119.81	4,777.78	35.82	31.96	-139.79	1,022.84	1,081.36	323.03	268.33	54.70	5.905		
5,200.00	4,761.55	5,219.50	4,866.11	36.82	32.85	-139.57	1,054.28	1,115.21	330.90	274.64	56.26	5.882		
5,300.00	4,847.81	5,319.18	4,954.44	37.82	33.73	-139.36	1,085.72	1,149.07	338.77	280.95	57.82	5.859		
5,400.00	4,934.08	5,418.86	5,042.77	38.81	34.62	-139.16	1,117.16	1,182.93	346.64	287.26	59.38	5.838		
5,500.00	5,020.34	5,518.54	5,131.09	39.81	35.50	-138.97	1,148.60	1,216.78	354.52	293.58	60.94	5.817		
5,600.00	5,106.60	5,618.22	5,219.42	40.81	36.39	-138.79	1,180.03	1,250.64	362.40	299.89	62.51	5.798		
5,700.00	5,192.87	5,717.91	5,307.75	41.81	37.28	-138.61	1,211.47	1,284.50	370.29	306.21	64.08	5.779		
5,800.00	5,279.13	5,817.59	5,396.08	42.81	38.16	-138.44	1,242.91	1,318.35	378.18	312.53	65.65	5.761		
5,900.00	5,365.40	5,917.27	5,484.41	43.81	39.05	-138.28	1,274.35	1,352.21	386.07	318.85	67.22	5.743		
6,000.00	5,451.66	6,016.95	5,572.74	44.81	39.94	-138.12	1,305.79	1,386.06	393.96	325.17	68.80	5.727		
6,100.00	5,537.92	6,116.64	5,661.07	45.81	40.83	-137.97	1,337.22	1,419.92	401.86	331.49	70.37	5.711		
6,200.00	5,624.19	6,216.32	5,749.40	46.81	41.72	-137.83	1,368.66	1,453.78	409.76	337.81	71.95	5.695		
6,300.00	5,710.45	6,316.00	5,837.72	47.81	42.61	-137.69	1,400.10	1,487.63	417.66	344.13	73.53	5.680		
6,400.00	5,796.72	6,415.68	5,926.05	48.81	43.50	-137.56	1,431.54	1,521.49	425.57	350.46	75.11	5.666		
6,500.00	5,882.98	6,515.37	6,014.38	49.81	44.40	-137.43	1,462.98	1,555.35	433.48	356.78	76.70	5.652		
6,600.00	5,969.24	6,615.05	6,102.71	50.82	45.29	-137.31	1,494.41	1,589.20	441.39	363.10	78.28	5.638		
6,700.00	6,055.51	6,714.73	6,191.04	51.82	46.18	-137.19	1,525.85	1,623.06	449.30	369.43	79.87	5.626		
6,800.00	6,141.77	6,814.41	6,279.37	52.82	47.07	-137.07	1,557.29	1,656.91	457.21	375.76	81.45	5.613		
6,900.00	6,228.03	6,914.09	6,367.70	53.83	47.97	-136.96	1,588.73	1,690.77	465.13	382.08	83.04	5.601		
7,000.00	6,314.30	7,013.78	6,456.03	54.83	48.86	-136.86	1,620.17	1,724.63	473.04	388.41	84.63	5.589		
7,100.00	6,400.56	7,113.46	6,544.35	55.83	49.75	-136.75	1,651.60	1,758.48	480.96	394.74	86.22	5.578		
7,200.00	6,486.83	7,213.14	6,632.68	56.84	50.65	-136.65	1,683.04	1,792.34	488.88	401.07	87.81	5.567		
7,300.00	6,573.09	7,312.82	6,721.01	57.84	51.54	-136.55	1,714.48	1,826.20	496.80	407.39	89.41	5.557		
7,400.00	6,659.35	7,412.51	6,809.34	58.84	52.43	-136.46	1,745.92	1,860.05	504.72	413.72	91.00	5.546		
7,500.00	6,745.62	7,512.19	6,897.67	59.85	53.33	-136.37	1,777.36	1,893.91	512.65	420.05	92.59	5.536		
7,600.00	6,831.88	7,611.87	6,986.00	60.85	54.22	-136.28	1,808.79	1,927.76	520.57	426.38	94.19	5.527		
7,700.00	6,918.14	7,722.73	7,085.24	61.86	55.18	-136.60	1,840.06	1,965.79	527.91	432.42	95.49	5.528		
7,800.00	7,004.41	7,837.97	7,192.10	62.86	55.98	-139.11	1,852.04	2,006.66	532.33	437.74	94.59	5.628		
7,900.00	7,090.67	7,940.80	7,287.69	63.87	56.46	-143.31	1,843.23	2,043.15	535.90	444.07	91.83	5.836		
8,000.00	7,176.94	8,027.76	7,366.32	64.87	56.70	-148.16	1,821.60	2,073.12	542.33	454.18	88.15	6.152		
8,027.52	7,200.68	8,048.89	7,384.89	65.15	56.74	-149.50	1,814.44	2,080.20	545.10	458.02	87.08	6.260		
8,050.00	7,220.18	8,065.55	7,399.36	65.37	56.76	-154.23	1,808.27	2,085.70	547.76	461.55	86.21	6.354		
8,100.00	7,264.25	8,101.79	7,430.21	65.85	56.79	-165.70	1,793.33	2,097.44	554.82	470.41	84.41	6.573		
8,150.00	7,308.99	8,137.07	7,459.34	66.28	56.80	-178.30	1,776.81	2,108.51	563.27	480.48	82.79	6.804		
8,200.00	7,354.07	8,171.52	7,486.82	66.67	56.79	168.48	1,758.86	2,118.95	572.84	491.52	81.32	7.044		
8,250.00	7,399.14	8,205.27	7,512.72	67.02	56.76	155.36	1,739.58	2,128.78	583.29	503.28	80.01	7.291		
8,300.00	7,443.85	8,238.44	7,537.10	67.32	56.71	143.08	1,719.09	2,138.02	594.34	515.53	78.82	7.541		
8,350.00	7,487.88	8,271.09	7,559.98	67.56	56.65	132.11	1,697.47	2,146.69	605.78	528.03	77.74	7.792		
8,400.00	7,530.87	8,300.00	7,579.25	67.75	56.59	122.73	1,677.20	2,153.99	617.38	540.44	76.93	8.025		
8,450.00	7,572.51	8,335.15	7,601.35	67.90	56.49	114.53	1,651.18	2,162.34	628.90	552.96	75.94	8.282		
8,500.00	7,612.48	8,366.67	7,619.88	68.00	56.39	107.70	1,626.66	2,169.34	640.20	565.00	75.20	8.513		
8,550.00	7,650.47	8,400.00	7,638.06	68.05	56.28	101.89	1,599.60	2,176.19	651.11	576.62	74.49	8.741		
8,600.00	7,686.20	8,428.92	7,652.63	68.06	56.17	97.11	1,575.23	2,181.68	661.45	587.36	74.10	8.927		
8,650.00	7,719.39	8,459.72	7,668.86	68.03	56.05	93.03	1,548.45	2,187.02	671.13	597.38	73.74	9.101		
8,700.00	7,749.79	8,490.34	7,679.66	67.97	55.92	89.62	1,521.05	2,191.82	680.01	606.47	73.54	9.247		
8,750.00	7,777.17	8,520.81	7,691.02	67.87	55.78	86.77	1,493.09	2,196.07	688.00	614.50	73.49	9.361		
8,800.00	7,801.32	8,550.00	7,700.59	67.74	55.64	84.44	1,465.75	2,199.63	695.01	621.34	73.68	9.433		
8,850.00	7,822.06	8,581.42	7,709.42	67.59	55.49	82.53	1,435.79	2,202.90	700.98	627.10	73.88	9.488		
8,900.00	7,839.23	8,611.59	7,716.44	67.41	55.33	81.05	1,406.56	2,205.48	705.85	631.53	74.33	9.497		
8,950.00	7,852.69	8,641.70	7,722.01	67.22	55.18	79.94	1,377.04	2,207.51	709.57	634.64	74.93	9.470		
9,000.00	7,862.35	8,671.77	7,726.12	67.00	55.02	79.18	1,347.30	2,208.98	712.11	636.43	75.68	9.409		
9,050.00	7,868.14	8,700.00	7,728.64	66.78	54.87	78.77	1,319.19	2,209.85	713.45	636.73	76.73	9.299		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,731.04	7,729.92	66.55	54.70	78.68	1,288.19	2,210.23	713.58	636.01	77.57	9.199		
9,100.00	7,870.00	8,731.85	7,729.93	66.55	54.70	78.68	1,287.38	2,210.23	713.57	635.97	77.60	9.196		
9,113.39	7,870.00	8,742.39	7,730.00	66.48	54.64	78.68	1,279.96	2,210.23	713.51	635.59	77.92	9.157		
9,200.00	7,870.00	8,825.88	7,730.00	66.09	54.20	78.68	1,193.35	2,209.94	713.51	636.62	76.89	9.279		
9,300.00	7,870.00	8,925.88	7,730.00	65.65	53.69	78.68	1,093.35	2,209.60	713.51	637.70	75.82	9.411		
9,400.00	7,870.00	9,025.88	7,730.00	65.24	53.21	78.68	993.35	2,209.25	713.52	638.63	74.88	9.528		
9,500.00	7,870.00	9,125.88	7,730.00	64.85	52.76	78.68	893.35	2,208.91	713.52	639.42	74.11	9.628		
9,600.00	7,870.00	9,225.88	7,730.00	64.48	52.33	78.68	793.35	2,208.57	713.52	640.04	73.48	9.710		
9,700.00	7,870.00	9,325.88	7,730.00	64.13	51.93	78.68	693.35	2,208.23	713.53	640.51	73.02	9.772		
9,800.00	7,870.00	9,425.88	7,730.00	63.80	51.55	78.68	593.35	2,207.89	713.53	640.81	72.72	9.812		
9,900.00	7,870.00	9,525.88	7,730.00	63.50	51.20	78.68	493.35	2,207.55	713.53	640.95	72.59	9.830		
10,000.00	7,870.00	9,625.88	7,730.00	63.22	50.87	78.68	393.35	2,207.21	713.54	640.92	72.62	9.825		
10,100.00	7,870.00	9,725.88	7,730.00	62.96	50.56	78.68	293.35	2,206.87	713.54	640.72	72.82	9.799		
10,200.00	7,870.00	9,825.88	7,730.00	62.72	50.28	78.68	193.35	2,206.53	713.54	640.36	73.19	9.750		
10,300.00	7,870.00	9,925.88	7,730.00	62.50	50.03	78.68	93.35	2,206.19	713.55	639.83	73.71	9.680		
10,400.00	7,870.00	10,025.88	7,730.00	62.31	49.80	78.69	-6.65	2,205.84	713.55	639.15	74.40	9.591		
10,500.00	7,870.00	10,125.88	7,730.00	62.15	49.60	78.69	-106.65	2,205.50	713.55	638.31	75.24	9.483		
10,600.00	7,870.00	10,225.88	7,730.00	62.01	49.44	78.69	-206.65	2,205.16	713.56	637.32	76.23	9.360		
10,700.00	7,870.00	10,325.88	7,730.00	61.90	49.32	78.69	-306.65	2,204.82	713.56	636.19	77.37	9.223		
10,800.00	7,870.00	10,425.88	7,730.00	61.82	49.26	78.69	-406.65	2,204.48	713.56	634.92	78.64	9.074		
10,900.00	7,870.00	10,525.88	7,730.00	61.78	49.26	78.69	-506.64	2,204.14	713.57	633.52	80.04	8.915		
11,000.00	7,870.00	10,625.88	7,730.00	61.77	49.36	78.69	-606.64	2,203.80	713.57	632.00	81.57	8.748		
11,100.00	7,870.00	10,725.88	7,730.00	61.81	49.57	78.69	-706.64	2,203.46	713.57	630.36	83.22	8.575		
11,200.00	7,870.00	10,825.88	7,730.00	61.90	49.93	78.69	-806.64	2,203.12	713.58	628.60	84.97	8.398		
11,300.00	7,870.00	10,925.88	7,730.00	62.03	50.46	78.69	-906.64	2,202.78	713.58	626.75	86.83	8.218		
11,400.00	7,870.00	11,025.88	7,730.00	62.23	51.15	78.69	-1,006.64	2,202.43	713.58	624.79	88.79	8.037		
11,500.00	7,870.00	11,125.88	7,730.00	62.50	51.97	78.69	-1,106.64	2,202.09	713.58	622.75	90.84	7.856		
11,600.00	7,870.00	11,225.88	7,730.00	62.84	52.91	78.69	-1,206.64	2,201.75	713.59	620.62	92.97	7.675		
11,700.00	7,870.00	11,325.88	7,730.00	63.25	53.94	78.69	-1,306.64	2,201.41	713.59	618.41	95.18	7.497		
11,800.00	7,870.00	11,425.88	7,730.00	63.76	55.04	78.69	-1,406.64	2,201.07	713.59	616.13	97.47	7.321		
11,900.00	7,870.00	11,525.88	7,730.00	64.34	56.19	78.69	-1,506.64	2,200.73	713.60	613.77	99.82	7.149		
12,000.00	7,870.00	11,625.88	7,730.00	65.01	57.39	78.69	-1,606.64	2,200.39	713.60	611.36	102.24	6.979		
12,100.00	7,870.00	11,725.88	7,730.00	65.77	58.62	78.69	-1,706.64	2,200.05	713.60	608.88	104.72	6.814		
12,200.00	7,870.00	11,825.88	7,730.00	66.61	59.88	78.69	-1,806.64	2,199.71	713.61	606.35	107.26	6.653		
12,300.00	7,870.00	11,925.88	7,730.00	67.51	61.18	78.69	-1,906.64	2,199.37	713.61	603.77	109.84	6.497		
12,400.00	7,870.00	12,025.88	7,730.00	68.49	62.50	78.69	-2,006.64	2,199.02	713.61	601.14	112.48	6.344		
12,500.00	7,870.00	12,125.88	7,730.00	69.52	63.84	78.69	-2,106.64	2,198.68	713.62	598.46	115.16	6.197		
12,600.00	7,870.00	12,225.88	7,730.00	70.61	65.20	78.69	-2,206.64	2,198.34	713.62	595.74	117.88	6.054		
12,700.00	7,870.00	12,325.88	7,730.00	71.75	66.58	78.69	-2,306.63	2,198.00	713.62	592.98	120.64	5.915		
12,800.00	7,870.00	12,425.88	7,730.00	72.93	67.98	78.69	-2,406.63	2,197.66	713.63	590.19	123.44	5.781		
12,900.00	7,870.00	12,525.88	7,730.00	74.14	69.40	78.69	-2,506.63	2,197.32	713.63	587.36	126.27	5.652		
13,000.00	7,870.00	12,625.88	7,730.00	75.39	70.83	78.69	-2,606.63	2,196.98	713.63	584.51	129.13	5.527		
13,100.00	7,870.00	12,725.88	7,730.00	76.67	72.27	78.69	-2,706.63	2,196.64	713.64	581.62	132.02	5.406		
13,200.00	7,870.00	12,825.88	7,730.00	77.98	73.73	78.69	-2,806.63	2,196.30	713.64	578.70	134.94	5.289		
13,300.00	7,870.00	12,925.88	7,730.00	79.31	75.20	78.69	-2,906.63	2,195.95	713.64	575.76	137.88	5.176		
13,400.00	7,870.00	13,025.88	7,730.00	80.67	76.68	78.69	-3,006.63	2,195.61	713.65	572.79	140.85	5.067		
13,500.00	7,870.00	13,125.88	7,730.00	82.04	78.17	78.69	-3,106.63	2,195.27	713.65	569.80	143.85	4.961		
13,600.00	7,870.00	13,225.88	7,730.00	83.43	79.67	78.69	-3,206.63	2,194.93	713.65	566.79	146.86	4.859		
13,700.00	7,870.00	13,325.88	7,730.00	84.84	81.18	78.69	-3,306.63	2,194.59	713.66	563.76	149.90	4.761		
13,800.00	7,870.00	13,425.88	7,730.00	86.27	82.70	78.69	-3,406.63	2,194.25	713.66	560.71	152.95	4.666		
13,900.00	7,870.00	13,525.88	7,730.00	87.71	84.23	78.69	-3,506.63	2,193.91	713.66	557.64	156.02	4.574		
14,000.00	7,870.00	13,625.88	7,730.00	89.16	85.77	78.69	-3,606.63	2,193.57	713.67	554.56	159.11	4.485		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	13,725.88	7,730.00	90.63	87.32	78.69	-3,706.63	2,193.23	713.67	551.46	162.21	4.400		
14,200.00	7,870.00	13,825.88	7,730.00	92.10	88.87	78.69	-3,806.63	2,192.89	713.67	548.34	165.33	4.317		
14,300.00	7,870.00	13,925.88	7,730.00	93.59	90.43	78.69	-3,906.63	2,192.54	713.68	545.21	168.46	4.236		
14,400.00	7,870.00	14,025.88	7,730.00	95.09	92.00	78.69	-4,006.62	2,192.20	713.68	542.07	171.61	4.159		
14,500.00	7,870.00	14,125.88	7,730.00	96.60	93.57	78.69	-4,106.62	2,191.86	713.68	538.92	174.77	4.084		
14,600.00	7,870.00	14,225.88	7,730.00	98.11	95.15	78.69	-4,206.62	2,191.52	713.69	535.75	177.94	4.011		
14,700.00	7,870.00	14,325.88	7,730.00	99.64	96.74	78.69	-4,306.62	2,191.18	713.69	532.57	181.12	3.940		
14,800.00	7,870.00	14,425.88	7,730.00	101.17	98.33	78.69	-4,406.62	2,190.84	713.69	529.38	184.31	3.872		
14,900.00	7,870.00	14,525.88	7,730.00	102.71	99.92	78.69	-4,506.62	2,190.50	713.70	526.18	187.52	3.806		
15,000.00	7,870.00	14,625.88	7,730.00	104.26	101.53	78.69	-4,606.62	2,190.16	713.70	522.97	190.73	3.742		
15,100.00	7,870.00	14,725.88	7,730.00	105.82	103.13	78.69	-4,706.62	2,189.82	713.70	519.75	193.95	3.680		
15,200.00	7,870.00	14,825.88	7,730.00	107.38	104.74	78.69	-4,806.62	2,189.48	713.70	516.52	197.18	3.620		
15,300.00	7,870.00	14,925.88	7,730.00	108.95	106.36	78.69	-4,906.62	2,189.13	713.71	513.29	200.42	3.561		
15,400.00	7,870.00	15,025.88	7,730.00	110.52	107.98	78.69	-5,006.62	2,188.79	713.71	510.05	203.67	3.504		
15,500.00	7,870.00	15,125.88	7,730.00	112.10	109.60	78.69	-5,106.62	2,188.45	713.71	506.79	206.92	3.449		
15,600.00	7,870.00	15,225.88	7,730.00	113.69	111.23	78.69	-5,206.62	2,188.11	713.72	503.54	210.18	3.396		
15,700.00	7,870.00	15,325.88	7,730.00	115.28	112.87	78.69	-5,306.62	2,187.77	713.72	500.27	213.45	3.344		
15,800.00	7,870.00	15,425.88	7,730.00	116.87	114.50	78.69	-5,406.62	2,187.43	713.72	497.00	216.72	3.293		
15,900.00	7,870.00	15,525.88	7,730.00	118.47	116.14	78.69	-5,506.62	2,187.09	713.73	493.72	220.01	3.244		
16,000.00	7,870.00	15,625.88	7,730.00	120.07	117.78	78.69	-5,606.62	2,186.75	713.73	490.44	223.29	3.196		
16,100.00	7,870.00	15,725.88	7,730.00	121.68	119.43	78.69	-5,706.61	2,186.41	713.73	487.15	226.59	3.150		
16,200.00	7,870.00	15,825.88	7,730.00	123.30	121.08	78.69	-5,806.61	2,186.07	713.74	483.85	229.88	3.105		
16,300.00	7,870.00	15,925.88	7,730.00	124.91	122.73	78.69	-5,906.61	2,185.72	713.74	480.55	233.19	3.061		
16,400.00	7,870.00	16,025.88	7,730.00	126.53	124.38	78.69	-6,006.61	2,185.38	713.74	477.25	236.50	3.018		
16,500.00	7,870.00	16,125.88	7,730.00	128.16	126.04	78.69	-6,106.61	2,185.04	713.75	473.94	239.81	2.976		
16,600.00	7,870.00	16,225.88	7,730.00	129.79	127.70	78.69	-6,206.61	2,184.70	713.75	470.62	243.13	2.936		
16,700.00	7,870.00	16,325.88	7,730.00	131.42	129.37	78.69	-6,306.61	2,184.36	713.75	467.30	246.45	2.896		
16,800.00	7,870.00	16,425.88	7,730.00	133.05	131.03	78.69	-6,406.61	2,184.02	713.76	463.98	249.78	2.858		
16,900.00	7,870.00	16,525.88	7,730.00	134.69	132.70	78.69	-6,506.61	2,183.68	713.76	460.65	253.11	2.820		
17,000.00	7,870.00	16,625.88	7,730.00	136.33	134.37	78.69	-6,606.61	2,183.34	713.76	457.32	256.44	2.783		
17,100.00	7,870.00	16,725.88	7,730.00	137.97	136.04	78.69	-6,706.61	2,183.00	713.77	453.98	259.78	2.748		
17,200.00	7,870.00	16,825.88	7,730.00	139.62	137.72	78.69	-6,806.61	2,182.65	713.77	450.64	263.12	2.713		
17,300.00	7,870.00	16,925.88	7,730.00	141.27	139.39	78.69	-6,906.61	2,182.31	713.77	447.30	266.47	2.679		
17,400.00	7,870.00	17,025.88	7,730.00	142.92	141.07	78.69	-7,006.61	2,181.97	713.78	443.96	269.82	2.645		
17,500.00	7,870.00	17,125.88	7,730.00	144.58	142.75	78.69	-7,106.61	2,181.63	713.78	440.61	273.17	2.613		
17,600.00	7,870.00	17,225.88	7,730.00	146.23	144.44	78.69	-7,206.61	2,181.29	713.78	437.25	276.53	2.581		
17,700.00	7,870.00	17,325.88	7,730.00	147.89	146.12	78.69	-7,306.61	2,180.95	713.79	433.90	279.89	2.550		
17,800.00	7,870.00	17,425.88	7,730.00	149.56	147.81	78.69	-7,406.60	2,180.61	713.79	430.54	283.25	2.520		
17,900.00	7,870.00	17,525.88	7,730.00	151.22	149.50	78.69	-7,506.60	2,180.27	713.79	427.18	286.61	2.490		
18,000.00	7,870.00	17,625.88	7,730.00	152.89	151.19	78.69	-7,606.60	2,179.93	713.80	423.82	289.98	2.462		
18,100.00	7,870.00	17,725.88	7,730.00	154.55	152.88	78.69	-7,706.60	2,179.59	713.80	420.45	293.35	2.433		
18,200.00	7,870.00	17,825.88	7,730.00	156.22	154.57	78.69	-7,806.60	2,179.24	713.80	417.08	296.72	2.406		
18,300.00	7,870.00	17,925.88	7,730.00	157.90	156.26	78.69	-7,906.60	2,178.90	713.81	413.71	300.10	2.379		
18,400.00	7,870.00	18,025.88	7,730.00	159.57	157.96	78.69	-8,006.60	2,178.56	713.81	410.34	303.47	2.352		
18,500.00	7,870.00	18,125.88	7,730.00	161.25	159.66	78.69	-8,106.60	2,178.22	713.81	406.96	306.85	2.326		
18,600.00	7,870.00	18,225.88	7,730.00	162.93	161.36	78.69	-8,206.60	2,177.88	713.82	403.58	310.23	2.301		
18,700.00	7,870.00	18,325.88	7,730.00	164.60	163.06	78.69	-8,306.60	2,177.54	713.82	400.20	313.62	2.276		
18,797.52	7,870.00	18,423.40	7,730.00	166.24	164.72	78.69	-8,404.12	2,177.21	713.82	396.90	316.92	2.252 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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, CC, ES, SF	
1,100.00	1,099.98	1,099.98	1,099.98	3.72	3.72	-149.63	0.00	-10.08	11.55	4.11	7.43	1.553		
1,200.00	1,199.84	1,200.32	1,200.29	4.07	4.08	-156.14	1.10	-8.71	14.71	6.57	8.14	1.807		
1,300.00	1,299.45	1,300.77	1,300.61	4.43	4.43	-159.66	4.42	-4.61	18.06	9.22	8.84	2.044		
1,400.00	1,398.70	1,401.35	1,400.80	4.80	4.79	-161.51	9.95	2.24	21.51	11.98	9.53	2.258		
1,500.00	1,497.47	1,502.05	1,500.73	5.18	5.16	-162.36	17.70	11.83	25.03	14.82	10.21	2.451		
1,600.00	1,595.62	1,602.87	1,600.29	5.57	5.54	-162.56	27.66	24.16	28.60	17.70	10.90	2.624		
1,700.00	1,693.06	1,703.80	1,699.34	6.00	5.94	-162.34	39.84	39.23	32.21	20.63	11.58	2.781		
1,800.00	1,789.64	1,804.85	1,797.76	6.45	6.37	-161.82	54.21	57.03	35.86	23.59	12.27	2.922		
1,900.00	1,885.27	1,906.02	1,895.43	6.94	6.82	-161.08	70.78	77.54	39.55	26.58	12.97	3.049		
2,000.00	1,979.82	2,007.30	1,992.20	7.47	7.31	-160.18	89.53	100.75	43.28	29.59	13.68	3.163		
2,100.00	2,073.17	2,108.69	2,087.97	8.05	7.84	-159.16	110.44	126.64	47.05	32.63	14.42	3.262		
2,200.00	2,165.21	2,210.18	2,182.60	8.67	8.42	-158.05	133.49	155.17	50.87	35.68	15.19	3.348		
2,300.00	2,255.84	2,311.79	2,275.98	9.35	9.05	-156.87	158.66	186.33	54.74	38.73	16.01	3.420		
2,400.00	2,344.94	2,413.50	2,367.96	10.09	9.73	-155.65	185.93	220.08	58.66	41.79	16.88	3.476		
2,500.00	2,432.39	2,515.31	2,458.44	10.89	10.48	-154.38	215.26	256.39	62.64	44.83	17.81	3.517		
2,519.29	2,449.07	2,534.97	2,475.71	11.05	10.63	-154.13	221.15	263.69	63.42	45.41	18.00	3.522		
2,600.00	2,518.69	2,616.73	2,546.92	11.74	11.28	-152.72	246.41	294.95	65.76	46.87	18.89	3.482		
2,700.00	2,604.95	2,716.68	2,633.62	12.62	12.10	-150.82	277.65	333.63	68.14	47.98	20.16	3.380		
2,800.00	2,691.22	2,816.63	2,720.32	13.52	12.95	-149.05	308.90	372.31	70.59	49.09	21.50	3.283		
2,900.00	2,777.48	2,916.58	2,807.02	14.43	13.82	-147.39	340.14	410.99	73.11	50.21	22.90	3.192		
3,000.00	2,863.75	3,016.52	2,893.72	15.35	14.70	-145.86	371.39	449.67	75.68	51.32	24.36	3.107		
3,100.00	2,950.01	3,116.47	2,980.42	16.28	15.59	-144.42	402.64	488.35	78.30	52.43	25.87	3.027		
3,200.00	3,036.27	3,216.42	3,067.12	17.22	16.49	-143.07	433.88	527.02	80.97	53.54	27.42	2.952		
3,300.00	3,122.54	3,316.36	3,153.82	18.17	17.40	-141.82	465.13	565.70	83.68	54.66	29.02	2.884		
3,400.00	3,208.80	3,416.31	3,240.53	19.13	18.32	-140.64	496.37	604.38	86.42	55.78	30.65	2.820		
3,500.00	3,295.07	3,516.26	3,327.23	20.09	19.25	-139.53	527.62	643.06	89.20	56.90	32.31	2.761		
3,600.00	3,381.33	3,616.20	3,413.93	21.05	20.18	-138.50	558.86	681.74	92.01	58.02	33.99	2.707		
3,700.00	3,467.59	3,716.15	3,500.63	22.02	21.11	-137.52	590.11	720.42	94.86	59.15	35.70	2.657		
3,800.00	3,553.86	3,816.10	3,587.33	22.99	22.05	-136.60	621.35	759.10	97.72	60.28	37.44	2.610		
3,900.00	3,640.12	3,916.05	3,674.03	23.97	22.99	-135.74	652.60	797.78	100.61	61.42	39.19	2.567		
4,000.00	3,726.38	4,015.99	3,760.73	24.95	23.93	-134.92	683.84	836.45	103.52	62.57	40.96	2.528		
4,100.00	3,812.65	4,115.94	3,847.43	25.93	24.88	-134.14	715.09	875.13	106.45	63.72	42.74	2.491		
4,200.00	3,898.91	4,215.89	3,934.13	26.91	25.83	-133.41	746.33	913.81	109.40	64.87	44.53	2.457		
4,300.00	3,985.18	4,315.83	4,020.84	27.90	26.79	-132.72	777.58	952.49	112.37	66.03	46.34	2.425		
4,400.00	4,071.44	4,415.78	4,107.54	28.88	27.74	-132.06	808.82	991.17	115.35	67.20	48.16	2.395		
4,500.00	4,157.70	4,515.73	4,194.24	29.87	28.70	-131.44	840.07	1,029.85	118.35	68.37	49.99	2.368		
4,600.00	4,243.97	4,615.67	4,280.94	30.86	29.65	-130.85	871.31	1,068.53	121.36	69.54	51.82	2.342		
4,700.00	4,330.23	4,715.62	4,367.64	31.85	30.61	-130.28	902.56	1,107.21	124.38	70.72	53.66	2.318		
4,800.00	4,416.49	4,815.57	4,454.34	32.84	31.57	-129.74	933.80	1,145.89	127.42	71.91	55.51	2.295		
4,900.00	4,502.76	4,915.52	4,541.04	33.84	32.54	-129.23	965.05	1,184.56	130.46	73.10	57.37	2.274		
5,000.00	4,589.02	5,015.46	4,627.74	34.83	33.50	-128.74	996.30	1,223.24	133.52	74.29	59.23	2.254		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,115.41	4,714.44	35.82	34.46	-128.28	1,027.54	1,261.92	136.58	75.49	61.09	2.236		
5,200.00	4,761.55	5,215.36	4,801.15	36.82	35.43	-127.83	1,058.79	1,300.60	139.65	76.69	62.96	2.218		
5,300.00	4,847.81	5,315.30	4,887.85	37.82	36.39	-127.40	1,090.03	1,339.28	142.73	77.90	64.84	2.201		
5,400.00	4,934.08	5,415.25	4,974.55	38.81	37.36	-126.99	1,121.28	1,377.96	145.82	79.11	66.71	2.186		
5,500.00	5,020.34	5,515.20	5,061.25	39.81	38.33	-126.60	1,152.52	1,416.64	148.92	80.32	68.59	2.171		
5,600.00	5,106.60	5,615.14	5,147.95	40.81	39.30	-126.22	1,183.77	1,455.32	152.02	81.54	70.48	2.157		
5,700.00	5,192.87	5,715.09	5,234.65	41.81	40.26	-125.86	1,215.01	1,493.99	155.13	82.76	72.36	2.144		
5,800.00	5,279.13	5,815.04	5,321.35	42.81	41.23	-125.51	1,246.26	1,532.67	158.24	83.99	74.25	2.131		
5,900.00	5,365.40	5,914.99	5,408.05	43.81	42.20	-125.18	1,277.50	1,571.35	161.36	85.22	76.14	2.119		
6,000.00	5,451.66	6,014.93	5,494.75	44.81	43.17	-124.86	1,308.75	1,610.03	164.49	86.45	78.04	2.108		
6,100.00	5,537.92	6,114.88	5,581.46	45.81	44.14	-124.55	1,339.99	1,648.71	167.62	87.69	79.93	2.097		
6,200.00	5,624.19	6,214.83	5,668.16	46.81	45.11	-124.25	1,371.24	1,687.39	170.75	88.92	81.83	2.087		
6,300.00	5,710.45	6,314.77	5,754.86	47.81	46.09	-123.97	1,402.48	1,726.07	173.89	90.17	83.73	2.077		
6,400.00	5,796.72	6,414.72	5,841.56	48.81	47.06	-123.69	1,433.73	1,764.75	177.04	91.41	85.63	2.068		
6,500.00	5,882.98	6,514.67	5,928.26	49.81	48.03	-123.42	1,464.97	1,803.43	180.18	92.66	87.53	2.059		
6,600.00	5,969.24	6,614.61	6,014.96	50.82	49.00	-123.16	1,496.22	1,842.10	183.33	93.90	89.43	2.050		
6,700.00	6,055.51	6,714.56	6,101.66	51.82	49.98	-122.92	1,527.47	1,880.78	186.49	95.16	91.33	2.042		
6,800.00	6,141.77	6,814.51	6,188.36	52.82	50.95	-122.67	1,558.71	1,919.46	189.65	96.41	93.24	2.034		
6,900.00	6,228.03	6,914.46	6,275.06	53.83	51.92	-122.44	1,589.96	1,958.14	192.81	97.67	95.14	2.027		
7,000.00	6,314.30	7,014.40	6,361.77	54.83	52.90	-122.22	1,621.20	1,996.82	195.97	98.92	97.05	2.019		
7,100.00	6,400.56	7,114.35	6,448.47	55.83	53.87	-122.00	1,652.45	2,035.50	199.14	100.18	98.96	2.012		
7,200.00	6,486.83	7,214.30	6,535.17	56.84	54.85	-121.79	1,683.69	2,074.18	202.31	101.45	100.86	2.006		
7,300.00	6,573.09	7,314.24	6,621.87	57.84	55.82	-121.58	1,714.94	2,112.86	205.48	102.71	102.77	1.999		
7,400.00	6,659.35	7,414.19	6,708.57	58.84	56.79	-121.38	1,746.18	2,151.53	208.66	103.98	104.68	1.993		
7,500.00	6,745.62	7,514.14	6,795.27	59.85	57.77	-121.19	1,777.43	2,190.21	211.84	105.24	106.59	1.987		
7,600.00	6,831.88	7,614.08	6,881.97	60.85	58.74	-121.00	1,808.67	2,228.89	215.02	106.51	108.50	1.982		
7,700.00	6,918.14	7,720.38	6,974.50	61.86	59.77	-121.09	1,840.77	2,270.16	217.75	107.53	110.23	1.976		
7,800.00	7,004.41	7,838.13	7,080.65	62.86	60.75	-125.57	1,858.43	2,317.45	213.86	105.87	107.99	1.980		
7,900.00	7,090.67	7,944.86	7,177.93	63.87	61.41	-135.14	1,853.62	2,360.72	205.52	104.77	100.75	2.040		
7,983.69	7,162.87	8,022.21	7,247.08	64.71	61.74	-145.63	1,837.83	2,391.43	201.71	109.93	91.78	2.198		
8,000.00	7,176.94	8,035.95	7,259.13	64.87	61.79	-147.78	1,833.97	2,396.78	201.90	112.05	89.86	2.247		
8,027.52	7,200.68	8,058.15	7,278.41	65.15	61.86	-151.39	1,827.06	2,405.33	203.18	116.63	86.56	2.347		
8,050.00	7,220.18	8,075.64	7,293.43	65.37	61.90	-157.87	1,821.04	2,411.99	205.18	121.24	83.94	2.444		
8,100.00	7,264.25	8,113.63	7,325.42	65.85	61.98	-173.06	1,806.26	2,426.17	212.37	133.56	78.81	2.695		
8,150.00	7,308.99	8,150.51	7,355.54	66.28	62.04	170.97	1,789.73	2,439.52	222.76	148.12	74.65	2.984		
8,200.00	7,354.07	8,186.43	7,383.91	66.67	62.06	154.82	1,771.62	2,452.08	235.55	164.29	71.26	3.305		
8,250.00	7,399.14	8,221.54	7,410.58	67.02	62.07	139.25	1,752.07	2,463.88	250.00	181.58	68.42	3.654		
8,300.00	7,443.85	8,255.96	7,435.61	67.32	62.06	124.99	1,731.22	2,474.95	265.47	199.57	65.90	4.028		
8,350.00	7,487.88	8,289.78	7,459.06	67.56	62.02	112.47	1,709.15	2,485.30	281.44	217.87	63.57	4.427		
8,400.00	7,530.87	8,323.09	7,480.94	67.75	61.97	101.80	1,685.99	2,494.96	297.49	236.14	61.35	4.849		
8,450.00	7,572.51	8,355.96	7,501.30	67.90	61.91	92.86	1,661.81	2,503.94	313.29	254.05	59.24	5.289		
8,500.00	7,612.48	8,388.43	7,520.14	68.00	61.83	85.43	1,636.69	2,512.24	328.58	271.32	57.25	5.739		
8,550.00	7,650.47	8,420.58	7,537.48	68.05	61.75	79.27	1,610.73	2,519.87	343.14	287.70	55.44	6.189		
8,600.00	7,686.20	8,450.00	7,552.17	68.06	61.66	74.24	1,586.07	2,526.32	356.83	302.98	53.85	6.626		
8,650.00	7,719.39	8,484.05	7,567.69	68.03	61.54	69.95	1,556.55	2,533.12	369.46	316.87	52.59	7.025		
8,700.00	7,749.79	8,515.44	7,580.56	67.97	61.42	66.46	1,528.48	2,538.76	380.97	329.29	51.69	7.371		
8,750.00	7,777.17	8,550.00	7,593.09	67.87	61.29	63.53	1,496.74	2,544.22	391.28	340.24	51.05	7.665		
8,800.00	7,801.32	8,577.72	7,601.86	67.74	61.17	61.26	1,470.72	2,548.03	400.25	349.03	51.22	7.815		
8,850.00	7,822.06	8,608.66	7,610.28	67.59	61.03	59.38	1,441.18	2,551.68	407.87	356.16	51.72	7.887		
8,900.00	7,839.23	8,639.50	7,617.20	67.41	60.89	57.92	1,411.28	2,554.66	414.10	361.38	52.72	7.854		
8,950.00	7,852.69	8,670.26	7,622.64	67.22	60.74	56.84	1,381.10	2,556.98	418.88	364.67	54.21	7.727		
9,000.00	7,862.35	8,700.00	7,626.48	67.00	60.60	56.09	1,351.65	2,558.59	422.20	365.91	56.29	7.500		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	8,731.63	7,629.03	66.78	60.44	55.67	1,320.15	2,559.62	424.03	365.55	58.48	7.251		
9,098.65	7,870.00	8,761.46	7,629.98	66.55	60.29	55.56	1,290.34	2,559.94	424.38	363.30	61.08	6.948		
9,100.00	7,870.00	8,762.29	7,629.99	66.55	60.29	55.56	1,289.51	2,559.94	424.37	363.22	61.15	6.940		
9,135.85	7,870.00	8,804.49	7,630.00	66.38	60.08	55.56	1,256.29	2,559.83	424.35	363.21	61.14	6.941		
9,200.00	7,870.00	8,859.66	7,630.00	66.09	59.80	55.56	1,192.14	2,559.62	424.35	363.90	60.44	7.020		
9,300.00	7,870.00	8,959.66	7,630.00	65.65	59.33	55.56	1,092.14	2,559.28	424.35	364.95	59.40	7.144		
9,400.00	7,870.00	9,059.66	7,630.00	65.24	58.88	55.56	992.14	2,558.94	424.34	365.86	58.49	7.255		
9,500.00	7,870.00	9,159.66	7,630.00	64.85	58.46	55.56	892.14	2,558.61	424.34	366.62	57.72	7.351		
9,600.00	7,870.00	9,259.66	7,630.00	64.48	58.06	55.56	792.14	2,558.27	424.34	367.23	57.12	7.430		
9,700.00	7,870.00	9,359.66	7,630.00	64.13	57.68	55.56	692.14	2,557.94	424.34	367.68	56.66	7.489		
9,800.00	7,870.00	9,459.66	7,630.00	63.80	57.33	55.56	592.14	2,557.60	424.34	367.97	56.37	7.527		
9,900.00	7,870.00	9,559.66	7,630.00	63.50	57.00	55.56	492.14	2,557.26	424.34	368.10	56.24	7.545		
10,000.00	7,870.00	9,659.66	7,630.00	63.22	56.69	55.56	392.14	2,556.93	424.34	368.06	56.28	7.540		
10,100.00	7,870.00	9,759.66	7,630.00	62.96	56.41	55.56	292.14	2,556.59	424.34	367.85	56.48	7.513		
10,200.00	7,870.00	9,859.66	7,630.00	62.72	56.14	55.56	192.14	2,556.25	424.34	367.49	56.85	7.464		
10,300.00	7,870.00	9,959.66	7,630.00	62.50	55.91	55.56	92.14	2,555.92	424.34	366.96	57.37	7.396		
10,400.00	7,870.00	10,059.66	7,630.00	62.31	55.70	55.56	-7.86	2,555.58	424.33	366.28	58.05	7.310		
10,500.00	7,870.00	10,159.66	7,630.00	62.15	55.52	55.56	-107.86	2,555.24	424.33	365.45	58.88	7.207		
10,600.00	7,870.00	10,259.66	7,630.00	62.01	55.37	55.56	-207.86	2,554.91	424.33	364.48	59.85	7.090		
10,700.00	7,870.00	10,359.66	7,630.00	61.90	55.25	55.56	-307.85	2,554.57	424.33	363.37	60.96	6.961		
10,800.00	7,870.00	10,459.66	7,630.00	61.82	55.17	55.56	-407.85	2,554.23	424.33	362.13	62.20	6.822		
10,900.00	7,870.00	10,559.66	7,630.00	61.78	55.14	55.56	-507.85	2,553.90	424.33	360.77	63.56	6.676		
11,000.00	7,870.00	10,659.66	7,630.00	61.77	55.15	55.56	-607.85	2,553.56	424.33	359.29	65.04	6.524		
11,100.00	7,870.00	10,759.66	7,630.00	61.81	55.23	55.56	-707.85	2,553.22	424.33	357.71	66.62	6.369		
11,200.00	7,870.00	10,859.66	7,630.00	61.90	55.38	55.56	-807.85	2,552.89	424.33	356.03	68.30	6.213		
11,300.00	7,870.00	10,959.66	7,630.00	62.03	55.61	55.56	-907.85	2,552.55	424.33	354.25	70.07	6.055		
11,400.00	7,870.00	11,059.66	7,630.00	62.23	55.95	55.56	-1,007.85	2,552.22	424.32	352.39	71.93	5.899		
11,500.00	7,870.00	11,159.66	7,630.00	62.50	56.39	55.56	-1,107.85	2,551.88	424.32	350.45	73.87	5.744		
11,600.00	7,870.00	11,259.66	7,630.00	62.84	56.94	55.56	-1,207.85	2,551.54	424.32	348.44	75.88	5.592		
11,700.00	7,870.00	11,359.66	7,630.00	63.25	57.60	55.56	-1,307.85	2,551.21	424.32	346.36	77.96	5.443		
11,800.00	7,870.00	11,459.66	7,630.00	63.76	58.38	55.56	-1,407.85	2,550.87	424.32	344.22	80.10	5.298		
11,900.00	7,870.00	11,559.66	7,630.00	64.34	59.25	55.56	-1,507.85	2,550.53	424.32	342.03	82.29	5.156		
12,000.00	7,870.00	11,659.66	7,630.00	65.01	60.20	55.56	-1,607.85	2,550.20	424.32	339.78	84.54	5.019		
12,100.00	7,870.00	11,759.66	7,630.00	65.77	61.23	55.56	-1,707.85	2,549.86	424.32	337.48	86.84	4.886		
12,200.00	7,870.00	11,859.66	7,630.00	66.61	62.33	55.55	-1,807.85	2,549.52	424.32	335.14	89.18	4.758		
12,300.00	7,870.00	11,959.66	7,630.00	67.51	63.47	55.55	-1,907.85	2,549.19	424.32	332.75	91.57	4.634		
12,400.00	7,870.00	12,059.66	7,630.00	68.49	64.67	55.55	-2,007.85	2,548.85	424.31	330.33	93.99	4.515		
12,500.00	7,870.00	12,159.66	7,630.00	69.52	65.90	55.55	-2,107.84	2,548.51	424.31	327.87	96.45	4.400		
12,600.00	7,870.00	12,259.66	7,630.00	70.61	67.17	55.55	-2,207.84	2,548.18	424.31	325.38	98.94	4.289		
12,700.00	7,870.00	12,359.66	7,630.00	71.75	68.46	55.55	-2,307.84	2,547.84	424.31	322.86	101.46	4.182		
12,800.00	7,870.00	12,459.66	7,630.00	72.93	69.78	55.55	-2,407.84	2,547.50	424.31	320.31	104.00	4.080		
12,900.00	7,870.00	12,559.66	7,630.00	74.14	71.13	55.55	-2,507.84	2,547.17	424.31	317.73	106.58	3.981		
13,000.00	7,870.00	12,659.66	7,630.00	75.39	72.50	55.55	-2,607.84	2,546.83	424.31	315.13	109.18	3.886		
13,100.00	7,870.00	12,759.66	7,630.00	76.67	73.89	55.55	-2,707.84	2,546.49	424.31	312.51	111.80	3.795		
13,200.00	7,870.00	12,859.66	7,630.00	77.98	75.29	55.55	-2,807.84	2,546.16	424.31	309.86	114.44	3.708		
13,300.00	7,870.00	12,959.66	7,630.00	79.31	76.72	55.55	-2,907.84	2,545.82	424.31	307.20	117.10	3.623		
13,400.00	7,870.00	13,059.66	7,630.00	80.67	78.15	55.55	-3,007.84	2,545.49	424.30	304.52	119.78	3.542		
13,500.00	7,870.00	13,159.66	7,630.00	82.04	79.60	55.55	-3,107.84	2,545.15	424.30	301.82	122.48	3.464		
13,600.00	7,870.00	13,259.66	7,630.00	83.43	81.07	55.55	-3,207.84	2,544.81	424.30	299.11	125.20	3.389		
13,700.00	7,870.00	13,359.66	7,630.00	84.84	82.55	55.55	-3,307.84	2,544.48	424.30	296.38	127.92	3.317		
13,800.00	7,870.00	13,459.66	7,630.00	86.27	84.03	55.55	-3,407.84	2,544.14	424.30	293.63	130.67	3.247		
13,900.00	7,870.00	13,559.66	7,630.00	87.71	85.53	55.55	-3,507.84	2,543.80	424.30	290.88	133.42	3.180		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,000.00	7,870.00	13,659.66	7,630.00	89.16	87.04	55.55	-3,607.84	2,543.47	424.30	288.11	136.19	3.115		
14,100.00	7,870.00	13,759.66	7,630.00	90.63	88.56	55.55	-3,707.84	2,543.13	424.30	285.33	138.97	3.053		
14,200.00	7,870.00	13,859.66	7,630.00	92.10	90.08	55.55	-3,807.83	2,542.79	424.30	282.54	141.76	2.993		
14,300.00	7,870.00	13,959.66	7,630.00	93.59	91.62	55.55	-3,907.83	2,542.46	424.30	279.73	144.56	2.935		
14,400.00	7,870.00	14,059.66	7,630.00	95.09	93.16	55.55	-4,007.83	2,542.12	424.29	276.92	147.37	2.879		
14,500.00	7,870.00	14,159.66	7,630.00	96.60	94.71	55.55	-4,107.83	2,541.78	424.29	274.10	150.19	2.825		
14,600.00	7,870.00	14,259.66	7,630.00	98.11	96.26	55.55	-4,207.83	2,541.45	424.29	271.27	153.02	2.773		
14,700.00	7,870.00	14,359.66	7,630.00	99.64	97.83	55.55	-4,307.83	2,541.11	424.29	268.44	155.86	2.722		
14,800.00	7,870.00	14,459.66	7,630.00	101.17	99.40	55.55	-4,407.83	2,540.77	424.29	265.59	158.70	2.674		
14,900.00	7,870.00	14,559.66	7,630.00	102.71	100.97	55.55	-4,507.83	2,540.44	424.29	262.74	161.55	2.626		
15,000.00	7,870.00	14,659.66	7,630.00	104.26	102.56	55.55	-4,607.83	2,540.10	424.29	259.88	164.41	2.581		
15,100.00	7,870.00	14,759.66	7,630.00	105.82	104.14	55.55	-4,707.83	2,539.76	424.29	257.01	167.28	2.536		
15,200.00	7,870.00	14,859.66	7,630.00	107.38	105.74	55.55	-4,807.83	2,539.43	424.29	254.14	170.15	2.494		
15,300.00	7,870.00	14,959.66	7,630.00	108.95	107.33	55.55	-4,907.83	2,539.09	424.29	251.26	173.02	2.452		
15,400.00	7,870.00	15,059.66	7,630.00	110.52	108.94	55.55	-5,007.83	2,538.76	424.28	248.38	175.91	2.412		
15,500.00	7,870.00	15,159.66	7,630.00	112.10	110.54	55.55	-5,107.83	2,538.42	424.28	245.49	178.80	2.373		
15,600.00	7,870.00	15,259.66	7,630.00	113.69	112.16	55.55	-5,207.83	2,538.08	424.28	242.59	181.69	2.335		
15,700.00	7,870.00	15,359.66	7,630.00	115.28	113.77	55.55	-5,307.83	2,537.75	424.28	239.69	184.59	2.299		
15,800.00	7,870.00	15,459.66	7,630.00	116.87	115.39	55.55	-5,407.83	2,537.41	424.28	236.79	187.49	2.263		
15,900.00	7,870.00	15,559.66	7,630.00	118.47	117.02	55.55	-5,507.83	2,537.07	424.28	233.88	190.40	2.228		
16,000.00	7,870.00	15,659.66	7,630.00	120.07	118.64	55.55	-5,607.82	2,536.74	424.28	230.97	193.31	2.195		
16,100.00	7,870.00	15,759.66	7,630.00	121.68	120.28	55.55	-5,707.82	2,536.40	424.28	228.05	196.23	2.162		
16,200.00	7,870.00	15,859.66	7,630.00	123.30	121.91	55.55	-5,807.82	2,536.06	424.28	225.13	199.15	2.130		
16,300.00	7,870.00	15,959.66	7,630.00	124.91	123.55	55.55	-5,907.82	2,535.73	424.27	222.21	202.07	2.100		
16,400.00	7,870.00	16,059.66	7,630.00	126.53	125.19	55.55	-6,007.82	2,535.39	424.27	219.28	205.00	2.070		
16,500.00	7,870.00	16,159.66	7,630.00	128.16	126.84	55.55	-6,107.82	2,535.05	424.27	216.35	207.93	2.040		
16,600.00	7,870.00	16,259.66	7,630.00	129.79	128.48	55.55	-6,207.82	2,534.72	424.27	213.41	210.86	2.012		
16,700.00	7,870.00	16,359.66	7,630.00	131.42	130.13	55.55	-6,307.82	2,534.38	424.27	210.47	213.80	1.984		
16,800.00	7,870.00	16,459.66	7,630.00	133.05	131.79	55.55	-6,407.82	2,534.04	424.27	207.53	216.74	1.958		
16,900.00	7,870.00	16,559.66	7,630.00	134.69	133.44	55.55	-6,507.82	2,533.71	424.27	204.59	219.68	1.931		
17,000.00	7,870.00	16,659.66	7,630.00	136.33	135.10	55.55	-6,607.82	2,533.37	424.27	201.64	222.62	1.906		
17,100.00	7,870.00	16,759.66	7,630.00	137.97	136.76	55.55	-6,707.82	2,533.04	424.27	198.69	225.57	1.881		
17,200.00	7,870.00	16,859.66	7,630.00	139.62	138.43	55.55	-6,807.82	2,532.70	424.27	195.74	228.52	1.857		
17,300.00	7,870.00	16,959.66	7,630.00	141.27	140.09	55.55	-6,907.82	2,532.36	424.26	192.79	231.48	1.833		
17,400.00	7,870.00	17,059.66	7,630.00	142.92	141.76	55.55	-7,007.82	2,532.03	424.26	189.83	234.43	1.810		
17,500.00	7,870.00	17,159.66	7,630.00	144.58	143.43	55.55	-7,107.82	2,531.69	424.26	186.87	237.39	1.787		
17,600.00	7,870.00	17,259.66	7,630.00	146.23	145.10	55.55	-7,207.82	2,531.35	424.26	183.91	240.35	1.765		
17,700.00	7,870.00	17,359.66	7,630.00	147.89	146.78	55.55	-7,307.82	2,531.02	424.26	180.95	243.31	1.744		
17,800.00	7,870.00	17,459.66	7,630.00	149.56	148.46	55.55	-7,407.81	2,530.68	424.26	177.98	246.28	1.723		
17,900.00	7,870.00	17,559.66	7,630.00	151.22	150.13	55.55	-7,507.81	2,530.34	424.26	175.02	249.24	1.702		
18,000.00	7,870.00	17,659.66	7,630.00	152.89	151.82	55.55	-7,607.81	2,530.01	424.26	172.05	252.21	1.682		
18,100.00	7,870.00	17,759.66	7,630.00	154.55	153.50	55.55	-7,707.81	2,529.67	424.26	169.08	255.18	1.663		
18,200.00	7,870.00	17,859.66	7,630.00	156.22	155.18	55.55	-7,807.81	2,529.33	424.26	166.11	258.15	1.643		
18,300.00	7,870.00	17,959.66	7,630.00	157.90	156.87	55.55	-7,907.81	2,529.00	424.25	163.13	261.12	1.625		
18,400.00	7,870.00	18,059.66	7,630.00	159.57	158.55	55.55	-8,007.81	2,528.66	424.25	160.16	264.10	1.606		
18,500.00	7,870.00	18,159.66	7,630.00	161.25	160.24	55.55	-8,107.81	2,528.32	424.25	157.18	267.07	1.589		
18,600.00	7,870.00	18,259.66	7,630.00	162.93	161.93	55.55	-8,207.81	2,527.99	424.25	154.20	270.05	1.571		
18,700.00	7,870.00	18,359.66	7,630.00	164.60	163.63	55.55	-8,307.81	2,527.65	424.25	151.22	273.03	1.554		
18,797.52	7,870.00	18,457.18	7,630.00	166.24	165.28	55.55	-8,405.33	2,527.32	424.25	148.31	275.94	1.537		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	9.80	9.80					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	9.80	9.80	9.53	0.27	36.451		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	9.80	9.80	8.81	0.99	9.941		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	9.80	9.80	8.10	1.70	5.755		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	9.80	9.80	7.38	2.42	4.050		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	9.80	9.80	6.66	3.14	3.124		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	9.80	9.80	5.95	3.85	2.543		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	9.80	9.80	5.23	4.57	2.144		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	9.80	9.80	4.51	5.29	1.853		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	9.80	9.80	3.80	6.00	1.632 CC, ES, SF		
1,000.00	1,000.00	999.67	999.65	3.36	3.36	85.22	0.94	11.26	11.30	4.59	6.71	1.683		
1,100.00	1,099.98	1,099.21	1,099.05	3.72	3.71	24.38	3.76	15.61	14.49	7.08	7.41	1.955		
1,200.00	1,199.84	1,198.62	1,198.08	4.07	4.07	20.91	8.44	22.86	17.81	9.72	8.09	2.200		
1,300.00	1,299.45	1,297.91	1,296.64	4.43	4.43	18.94	14.98	32.97	21.21	12.43	8.77	2.417		
1,400.00	1,398.70	1,397.09	1,394.60	4.80	4.81	17.86	23.35	45.93	24.64	15.19	9.45	2.608		
1,500.00	1,497.47	1,496.15	1,491.86	5.18	5.21	17.35	33.55	61.71	28.08	17.97	10.12	2.776		
1,600.00	1,595.62	1,595.10	1,588.30	5.57	5.63	17.22	45.55	80.27	31.54	20.76	10.78	2.925		
1,700.00	1,693.06	1,693.93	1,683.80	6.00	6.08	17.37	59.34	101.60	35.00	23.55	11.45	3.057		
1,800.00	1,789.64	1,792.65	1,778.27	6.45	6.57	17.71	74.89	125.65	38.46	26.34	12.12	3.172		
1,900.00	1,885.27	1,891.25	1,871.59	6.94	7.10	18.19	92.17	152.39	41.92	29.11	12.80	3.274		
2,000.00	1,979.82	1,989.75	1,963.66	7.47	7.67	18.79	111.17	181.78	45.38	31.88	13.50	3.361		
2,100.00	2,073.17	2,088.14	2,054.37	8.05	8.30	19.47	131.85	213.77	48.83	34.62	14.21	3.435		
2,200.00	2,165.21	2,186.42	2,143.62	8.67	8.97	20.22	154.18	248.32	52.28	37.33	14.95	3.496		
2,300.00	2,255.84	2,284.61	2,231.32	9.35	9.71	21.03	178.14	285.38	55.73	40.00	15.73	3.543		
2,400.00	2,344.94	2,382.68	2,317.37	10.09	10.50	21.88	203.68	324.90	59.17	42.63	16.55	3.577		
2,500.00	2,432.39	2,480.67	2,401.68	10.89	11.35	22.76	230.78	366.82	62.62	45.20	17.41	3.596		
2,519.29	2,449.07	2,499.56	2,417.73	11.05	11.52	22.94	236.19	375.19	63.28	45.70	17.59	3.598		
2,600.00	2,518.69	2,578.50	2,484.10	11.74	12.27	23.32	259.39	411.08	67.10	48.79	18.31	3.665		
2,700.00	2,604.95	2,677.90	2,566.61	12.62	13.25	23.19	289.48	457.63	73.63	54.31	19.32	3.812		
2,800.00	2,691.22	2,777.68	2,649.41	13.52	14.26	23.07	319.71	504.39	80.21	59.84	20.38	3.936		
2,900.00	2,777.48	2,877.46	2,732.21	14.43	15.28	22.96	349.94	551.15	86.80	65.34	21.46	4.045		
3,000.00	2,863.75	2,977.25	2,815.01	15.35	16.32	22.87	380.17	597.92	93.38	70.83	22.55	4.141		
3,100.00	2,950.01	3,077.03	2,897.81	16.28	17.37	22.79	410.39	644.68	99.97	76.31	23.66	4.226		
3,200.00	3,036.27	3,176.81	2,980.62	17.22	18.43	22.73	440.62	691.45	106.55	81.78	24.77	4.301		
3,300.00	3,122.54	3,276.60	3,063.42	18.17	19.50	22.67	470.85	738.21	113.14	87.24	25.90	4.369		
3,400.00	3,208.80	3,376.38	3,146.22	19.13	20.58	22.61	501.08	784.97	119.72	92.69	27.03	4.429		
3,500.00	3,295.07	3,476.16	3,229.02	20.09	21.66	22.56	531.31	831.74	126.31	98.14	28.17	4.484		
3,600.00	3,381.33	3,575.94	3,311.82	21.05	22.74	22.52	561.54	878.50	132.89	103.58	29.32	4.533		
3,700.00	3,467.59	3,675.73	3,394.62	22.02	23.83	22.48	591.77	925.27	139.48	109.01	30.47	4.577		
3,800.00	3,553.86	3,775.51	3,477.42	22.99	24.93	22.44	622.00	972.03	146.07	114.44	31.63	4.618		
3,900.00	3,640.12	3,875.29	3,560.22	23.97	26.02	22.41	652.22	1,018.79	152.65	119.86	32.79	4.655		
4,000.00	3,726.38	3,975.08	3,643.02	24.95	27.12	22.38	682.45	1,065.56	159.24	125.28	33.96	4.689		
4,100.00	3,812.65	4,074.86	3,725.82	25.93	28.23	22.35	712.68	1,112.32	165.82	130.70	35.13	4.721		
4,200.00	3,898.91	4,174.64	3,808.62	26.91	29.33	22.33	742.91	1,159.09	172.41	136.11	36.30	4.750		
4,300.00	3,985.18	4,274.42	3,891.42	27.90	30.44	22.31	773.14	1,205.85	178.99	141.52	37.47	4.777		
4,400.00	4,071.44	4,374.21	3,974.22	28.88	31.55	22.28	803.37	1,252.62	185.58	146.93	38.65	4.801		
4,500.00	4,157.70	4,473.99	4,057.03	29.87	32.66	22.26	833.60	1,299.38	192.17	152.33	39.83	4.824		
4,600.00	4,243.97	4,573.77	4,139.83	30.86	33.77	22.24	863.83	1,346.14	198.75	157.74	41.01	4.846		
4,700.00	4,330.23	4,673.56	4,222.63	31.85	34.88	22.23	894.05	1,392.91	205.34	163.14	42.20	4.866		
4,800.00	4,416.49	4,773.34	4,305.43	32.84	35.99	22.21	924.28	1,439.67	211.92	168.54	43.39	4.885		
4,900.00	4,502.76	4,873.12	4,388.23	33.84	37.11	22.19	954.51	1,486.44	218.51	173.93	44.57	4.902		
5,000.00	4,589.02	4,972.91	4,471.03	34.83	38.22	22.18	984.74	1,533.20	225.10	179.33	45.76	4.919		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,072.69	4,553.83	35.82	39.34	22.16	1,014.97	1,579.96	231.68	184.73	46.96	4.934		
5,200.00	4,761.55	5,172.47	4,636.63	36.82	40.46	22.15	1,045.20	1,626.73	238.27	190.12	48.15	4.949		
5,300.00	4,847.81	5,272.25	4,719.43	37.82	41.58	22.14	1,075.43	1,673.49	244.85	195.51	49.34	4.962		
5,400.00	4,934.08	5,372.04	4,802.23	38.81	42.70	22.13	1,105.66	1,720.26	251.44	200.90	50.54	4.975		
5,500.00	5,020.34	5,471.82	4,885.03	39.81	43.82	22.12	1,135.89	1,767.02	258.02	206.29	51.73	4.988		
5,600.00	5,106.60	5,571.60	4,967.83	40.81	44.94	22.11	1,166.11	1,813.78	264.61	211.68	52.93	4.999		
5,700.00	5,192.87	5,671.39	5,050.63	41.81	46.06	22.10	1,196.34	1,860.55	271.20	217.07	54.13	5.010		
5,800.00	5,279.13	5,771.17	5,133.44	42.81	47.18	22.09	1,226.57	1,907.31	277.78	222.46	55.33	5.021		
5,900.00	5,365.40	5,870.95	5,216.24	43.81	48.30	22.08	1,256.80	1,954.08	284.37	227.84	56.53	5.031		
6,000.00	5,451.66	5,970.73	5,299.04	44.81	49.42	22.07	1,287.03	2,000.84	290.95	233.23	57.73	5.040		
6,100.00	5,537.92	6,070.52	5,381.84	45.81	50.54	22.06	1,317.26	2,047.60	297.54	238.61	58.93	5.049		
6,200.00	5,624.19	6,170.30	5,464.64	46.81	51.67	22.05	1,347.49	2,094.37	304.13	244.00	60.13	5.058		
6,300.00	5,710.45	6,270.08	5,547.44	47.81	52.79	22.04	1,377.72	2,141.13	310.71	249.38	61.33	5.066		
6,400.00	5,796.72	6,369.87	5,630.24	48.81	53.91	22.04	1,407.94	2,187.90	317.30	254.76	62.54	5.074		
6,500.00	5,882.98	6,469.65	5,713.04	49.81	55.04	22.03	1,438.17	2,234.66	323.88	260.15	63.74	5.081		
6,600.00	5,969.24	6,569.43	5,795.84	50.82	56.16	22.02	1,468.40	2,281.43	330.47	265.53	64.94	5.089		
6,700.00	6,055.51	6,669.21	5,878.64	51.82	57.29	22.02	1,498.63	2,328.19	337.06	270.91	66.15	5.095		
6,800.00	6,141.77	6,769.00	5,961.44	52.82	58.41	22.01	1,528.86	2,374.95	343.64	276.29	67.35	5.102		
6,900.00	6,228.03	6,868.78	6,044.24	53.83	59.54	22.00	1,559.09	2,421.72	350.23	281.67	68.56	5.108		
7,000.00	6,314.30	6,968.56	6,127.04	54.83	60.66	22.00	1,589.32	2,468.48	356.81	287.05	69.76	5.115		
7,100.00	6,400.56	7,068.35	6,209.84	55.83	61.79	21.99	1,619.55	2,515.25	363.40	292.43	70.97	5.120		
7,200.00	6,486.83	7,168.13	6,292.65	56.84	62.91	21.99	1,649.77	2,562.01	369.99	297.81	72.18	5.126		
7,300.00	6,573.09	7,267.91	6,375.45	57.84	64.04	21.98	1,680.00	2,608.77	376.57	303.19	73.39	5.131		
7,400.00	6,659.35	7,367.69	6,458.25	58.84	65.17	21.98	1,710.23	2,655.54	383.16	308.57	74.59	5.137		
7,500.00	6,745.62	7,467.48	6,541.05	59.85	66.29	21.97	1,740.46	2,702.30	389.75	313.94	75.80	5.142		
7,600.00	6,831.88	7,567.26	6,623.85	60.85	67.42	21.97	1,770.69	2,749.07	396.33	319.32	77.01	5.147		
7,700.00	6,918.14	7,667.04	6,706.65	61.86	68.55	21.96	1,800.92	2,795.83	402.92	324.70	78.22	5.151		
7,800.00	7,004.41	7,766.83	6,789.45	62.86	69.67	21.96	1,831.15	2,842.59	409.50	330.08	79.43	5.156		
7,900.00	7,090.67	7,872.74	6,878.04	63.87	70.85	22.36	1,860.36	2,892.62	415.70	334.60	81.10	5.126		
8,000.00	7,176.94	7,980.33	6,971.04	64.87	71.91	25.18	1,872.36	2,945.07	419.95	334.97	84.98	4.942		
8,027.52	7,200.68	8,008.33	6,995.42	65.15	72.15	26.33	1,872.18	2,958.81	421.02	334.60	86.42	4.872		
8,050.00	7,220.18	8,030.68	7,014.87	65.37	72.33	24.03	1,871.05	2,969.77	421.99	334.35	87.64	4.815		
8,100.00	7,264.25	8,079.39	7,057.03	65.85	72.70	17.91	1,865.59	2,993.51	424.66	334.45	90.21	4.708		
8,150.00	7,308.99	8,126.79	7,097.54	66.28	73.01	10.60	1,856.35	3,016.30	427.99	335.48	92.50	4.627		
8,200.00	7,354.07	8,173.01	7,136.27	66.67	73.26	2.55	1,843.67	3,038.08	431.91	337.47	94.44	4.574		
8,250.00	7,399.14	8,218.16	7,173.12	67.02	73.47	-5.56	1,827.87	3,058.80	436.35	340.40	95.95	4.548		
8,300.00	7,443.85	8,262.35	7,208.04	67.32	73.64	-13.02	1,809.23	3,078.41	441.22	344.22	97.00	4.549		
8,350.00	7,487.88	8,305.67	7,240.97	67.56	73.76	-19.41	1,788.01	3,096.90	446.41	348.83	97.58	4.575		
8,400.00	7,530.87	8,348.21	7,271.86	67.75	73.84	-24.57	1,764.45	3,114.22	451.84	354.14	97.69	4.625		
8,450.00	7,572.51	8,390.07	7,300.68	67.90	73.89	-28.59	1,738.77	3,130.38	457.39	360.02	97.37	4.697		
8,500.00	7,612.48	8,431.30	7,327.40	68.00	73.91	-31.65	1,711.19	3,145.35	462.98	366.32	96.67	4.790		
8,550.00	7,650.47	8,471.98	7,352.02	68.05	73.90	-33.94	1,681.88	3,159.12	468.51	372.89	95.62	4.900		
8,600.00	7,686.20	8,512.17	7,374.50	68.06	73.87	-35.62	1,651.03	3,171.68	473.88	379.59	94.29	5.026		
8,650.00	7,719.39	8,551.93	7,394.83	68.03	73.82	-36.85	1,618.81	3,183.03	479.02	386.27	92.75	5.165		
8,700.00	7,749.79	8,591.32	7,413.01	67.97	73.74	-37.73	1,585.38	3,193.16	483.84	392.78	91.06	5.313		
8,750.00	7,777.17	8,630.38	7,429.02	67.87	73.64	-38.35	1,550.90	3,202.07	488.29	398.98	89.30	5.468		
8,800.00	7,801.32	8,669.15	7,442.85	67.74	73.53	-38.78	1,515.51	3,209.74	492.28	404.76	87.53	5.624		
8,850.00	7,822.06	8,707.69	7,454.51	67.59	73.41	-39.07	1,479.35	3,216.19	495.78	409.98	85.81	5.778		
8,900.00	7,839.23	8,746.03	7,463.98	67.41	73.28	-39.25	1,442.57	3,221.40	498.74	414.55	84.20	5.924		
8,950.00	7,852.69	8,784.21	7,471.26	67.22	73.13	-39.36	1,405.31	3,225.38	501.12	418.37	82.75	6.056		
9,000.00	7,862.35	8,822.27	7,476.35	67.00	72.98	-39.40	1,367.70	3,228.12	502.88	421.39	81.50	6.171		
9,050.00	7,868.14	8,860.24	7,479.25	66.78	72.82	-39.40	1,329.88	3,229.63	504.01	423.53	80.48	6.263		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,898.91	7,480.00	66.55	72.65	-39.37	1,291.23	3,229.92	504.48	424.63	79.85	6.318		
9,100.00	7,870.00	8,900.26	7,480.00	66.55	72.64	-39.37	1,289.87	3,229.91	504.48	424.63	79.85	6.318		
9,200.00	7,870.00	9,000.26	7,480.00	66.09	72.21	-39.37	1,189.87	3,229.57	504.48	424.28	80.20	6.290		
9,300.00	7,870.00	9,100.26	7,480.00	65.65	71.80	-39.37	1,089.87	3,229.23	504.48	423.85	80.63	6.257		
9,400.00	7,870.00	9,200.26	7,480.00	65.24	71.41	-39.37	989.88	3,228.89	504.48	423.34	81.13	6.218		
9,500.00	7,870.00	9,300.26	7,480.00	64.85	71.04	-39.37	889.88	3,228.56	504.48	422.76	81.72	6.174		
9,600.00	7,870.00	9,400.26	7,480.00	64.48	70.69	-39.37	789.88	3,228.22	504.48	422.10	82.37	6.124		
9,700.00	7,870.00	9,500.26	7,480.00	64.13	70.36	-39.37	689.88	3,227.88	504.48	421.37	83.10	6.070		
9,800.00	7,870.00	9,600.26	7,480.00	63.80	70.05	-39.37	589.88	3,227.54	504.48	420.57	83.91	6.012		
9,900.00	7,870.00	9,700.26	7,480.00	63.50	69.76	-39.37	489.88	3,227.20	504.47	419.70	84.78	5.951		
10,000.00	7,870.00	9,800.26	7,480.00	63.22	69.48	-39.37	389.88	3,226.86	504.47	418.76	85.72	5.885		
10,100.00	7,870.00	9,900.26	7,480.00	62.96	69.23	-39.37	289.88	3,226.52	504.47	417.75	86.72	5.817		
10,200.00	7,870.00	10,000.26	7,480.00	62.72	69.00	-39.37	189.88	3,226.18	504.47	416.69	87.78	5.747		
10,300.00	7,870.00	10,100.26	7,480.00	62.50	68.79	-39.37	89.88	3,225.84	504.47	415.56	88.91	5.674		
10,400.00	7,870.00	10,200.26	7,480.00	62.31	68.60	-39.37	-10.12	3,225.50	504.47	414.37	90.10	5.599		
10,500.00	7,870.00	10,300.26	7,480.00	62.15	68.43	-39.37	-110.12	3,225.16	504.47	413.13	91.34	5.523		
10,600.00	7,870.00	10,400.26	7,480.00	62.01	68.29	-39.37	-210.12	3,224.83	504.47	411.84	92.63	5.446		
10,700.00	7,870.00	10,500.26	7,480.00	61.90	68.17	-39.37	-310.12	3,224.49	504.47	410.49	93.98	5.368		
10,800.00	7,870.00	10,600.26	7,480.00	61.82	68.07	-39.37	-410.12	3,224.15	504.47	409.10	95.37	5.290		
10,900.00	7,870.00	10,700.26	7,480.00	61.78	68.00	-39.37	-510.12	3,223.81	504.47	407.65	96.81	5.211		
11,000.00	7,870.00	10,800.26	7,480.00	61.77	67.96	-39.37	-610.12	3,223.47	504.46	406.17	98.30	5.132		
11,100.00	7,870.00	10,900.26	7,480.00	61.81	67.96	-39.37	-710.11	3,223.13	504.46	404.63	99.83	5.053		
11,200.00	7,870.00	11,000.26	7,480.00	61.90	67.98	-39.37	-810.11	3,222.79	504.46	403.06	101.40	4.975		
11,300.00	7,870.00	11,100.26	7,480.00	62.03	68.05	-39.37	-910.11	3,222.45	504.46	401.45	103.01	4.897		
11,400.00	7,870.00	11,200.26	7,480.00	62.23	68.15	-39.37	-1,010.11	3,222.11	504.46	399.80	104.66	4.820		
11,500.00	7,870.00	11,300.26	7,480.00	62.50	68.30	-39.37	-1,110.11	3,221.77	504.46	398.12	106.34	4.744		
11,600.00	7,870.00	11,400.26	7,480.00	62.84	68.50	-39.37	-1,210.11	3,221.43	504.46	396.40	108.06	4.668		
11,700.00	7,870.00	11,500.26	7,480.00	63.25	68.75	-39.37	-1,310.11	3,221.10	504.46	394.65	109.81	4.594		
11,800.00	7,870.00	11,600.26	7,480.00	63.76	69.06	-39.37	-1,410.11	3,220.76	504.46	392.87	111.59	4.521		
11,900.00	7,870.00	11,700.26	7,480.00	64.34	69.44	-39.37	-1,510.11	3,220.42	504.46	391.06	113.40	4.448		
12,000.00	7,870.00	11,800.26	7,480.00	65.01	69.88	-39.37	-1,610.11	3,220.08	504.46	389.22	115.24	4.378		
12,100.00	7,870.00	11,900.26	7,480.00	65.77	70.39	-39.37	-1,710.11	3,219.74	504.46	387.35	117.10	4.308		
12,200.00	7,870.00	12,000.26	7,480.00	66.61	70.97	-39.37	-1,810.11	3,219.40	504.45	385.46	118.99	4.239		
12,300.00	7,870.00	12,100.26	7,480.00	67.51	71.62	-39.37	-1,910.11	3,219.06	504.45	383.55	120.91	4.172		
12,400.00	7,870.00	12,200.26	7,480.00	68.49	72.35	-39.37	-2,010.11	3,218.72	504.45	381.61	122.85	4.106		
12,500.00	7,870.00	12,300.26	7,480.00	69.52	73.14	-39.37	-2,110.11	3,218.38	504.45	379.65	124.81	4.042		
12,600.00	7,870.00	12,400.26	7,480.00	70.61	74.01	-39.37	-2,210.11	3,218.04	504.45	377.66	126.79	3.979		
12,700.00	7,870.00	12,500.26	7,480.00	71.75	74.93	-39.37	-2,310.11	3,217.70	504.45	375.66	128.79	3.917		
12,800.00	7,870.00	12,600.26	7,480.00	72.93	75.92	-39.37	-2,410.11	3,217.36	504.45	373.64	130.81	3.856		
12,900.00	7,870.00	12,700.26	7,480.00	74.14	76.96	-39.36	-2,510.10	3,217.03	504.45	371.60	132.84	3.797		
13,000.00	7,870.00	12,800.26	7,480.00	75.39	78.04	-39.36	-2,610.10	3,216.69	504.45	369.55	134.90	3.739		
13,100.00	7,870.00	12,900.26	7,480.00	76.67	79.18	-39.36	-2,710.10	3,216.35	504.45	367.47	136.97	3.683		
13,200.00	7,870.00	13,000.26	7,480.00	77.98	80.35	-39.36	-2,810.10	3,216.01	504.45	365.38	139.06	3.628		
13,300.00	7,870.00	13,100.26	7,480.00	79.31	81.56	-39.36	-2,910.10	3,215.67	504.44	363.28	141.16	3.573		
13,400.00	7,870.00	13,200.26	7,480.00	80.67	82.80	-39.36	-3,010.10	3,215.33	504.44	361.16	143.28	3.521		
13,500.00	7,870.00	13,300.26	7,480.00	82.04	84.08	-39.36	-3,110.10	3,214.99	504.44	359.03	145.41	3.469		
13,600.00	7,870.00	13,400.26	7,480.00	83.43	85.38	-39.36	-3,210.10	3,214.65	504.44	356.88	147.56	3.419		
13,700.00	7,870.00	13,500.26	7,480.00	84.84	86.71	-39.36	-3,310.10	3,214.31	504.44	354.72	149.72	3.369		
13,800.00	7,870.00	13,600.26	7,480.00	86.27	88.06	-39.36	-3,410.10	3,213.97	504.44	352.55	151.89	3.321		
13,900.00	7,870.00	13,700.26	7,480.00	87.71	89.43	-39.36	-3,510.10	3,213.63	504.44	350.37	154.07	3.274		
14,000.00	7,870.00	13,800.26	7,480.00	89.16	90.82	-39.36	-3,610.10	3,213.30	504.44	348.18	156.26	3.228		
14,100.00	7,870.00	13,900.26	7,480.00	90.63	92.22	-39.36	-3,710.10	3,212.96	504.44	345.97	158.46	3.183		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,870.00	14,000.26	7,480.00	92.10	93.65	-39.36	-3,810.10	3,212.62	504.44	343.76	160.68	3.139		
14,300.00	7,870.00	14,100.26	7,480.00	93.59	95.08	-39.36	-3,910.10	3,212.28	504.44	341.53	162.90	3.097		
14,400.00	7,870.00	14,200.26	7,480.00	95.09	96.53	-39.36	-4,010.10	3,211.94	504.43	339.30	165.13	3.055		
14,500.00	7,870.00	14,300.26	7,480.00	96.60	98.00	-39.36	-4,110.10	3,211.60	504.43	337.06	167.38	3.014		
14,600.00	7,870.00	14,400.26	7,480.00	98.11	99.47	-39.36	-4,210.09	3,211.26	504.43	334.81	169.63	2.974		
14,700.00	7,870.00	14,500.26	7,480.00	99.64	100.96	-39.36	-4,310.09	3,210.92	504.43	332.55	171.89	2.935		
14,800.00	7,870.00	14,600.26	7,480.00	101.17	102.46	-39.36	-4,410.09	3,210.58	504.43	330.28	174.15	2.896		
14,900.00	7,870.00	14,700.26	7,480.00	102.71	103.97	-39.36	-4,510.09	3,210.24	504.43	328.00	176.43	2.859		
15,000.00	7,870.00	14,800.26	7,480.00	104.26	105.48	-39.36	-4,610.09	3,209.90	504.43	325.72	178.71	2.823		
15,100.00	7,870.00	14,900.26	7,480.00	105.82	107.01	-39.36	-4,710.09	3,209.57	504.43	323.43	181.00	2.787		
15,200.00	7,870.00	15,000.26	7,480.00	107.38	108.54	-39.36	-4,810.09	3,209.23	504.43	321.13	183.30	2.752		
15,300.00	7,870.00	15,100.26	7,480.00	108.95	110.08	-39.36	-4,910.09	3,208.89	504.43	318.83	185.60	2.718		
15,400.00	7,870.00	15,200.26	7,480.00	110.52	111.63	-39.36	-5,010.09	3,208.55	504.43	316.52	187.91	2.684		
15,500.00	7,870.00	15,300.26	7,480.00	112.10	113.18	-39.36	-5,110.09	3,208.21	504.43	314.20	190.23	2.652		
15,600.00	7,870.00	15,400.26	7,480.00	113.69	114.75	-39.36	-5,210.09	3,207.87	504.42	311.88	192.55	2.620		
15,700.00	7,870.00	15,500.26	7,480.00	115.28	116.31	-39.36	-5,310.09	3,207.53	504.42	309.55	194.87	2.588		
15,800.00	7,870.00	15,600.26	7,480.00	116.87	117.89	-39.36	-5,410.09	3,207.19	504.42	307.22	197.21	2.558		
15,900.00	7,870.00	15,700.26	7,480.00	118.47	119.47	-39.36	-5,510.09	3,206.85	504.42	304.88	199.54	2.528		
16,000.00	7,870.00	15,800.26	7,480.00	120.07	121.05	-39.36	-5,610.09	3,206.51	504.42	302.53	201.89	2.499		
16,100.00	7,870.00	15,900.26	7,480.00	121.68	122.64	-39.36	-5,710.09	3,206.17	504.42	300.18	204.24	2.470		
16,200.00	7,870.00	16,000.26	7,480.00	123.30	124.23	-39.36	-5,810.09	3,205.84	504.42	297.83	206.59	2.442		
16,300.00	7,870.00	16,100.26	7,480.00	124.91	125.83	-39.36	-5,910.09	3,205.50	504.42	295.47	208.95	2.414		
16,400.00	7,870.00	16,200.26	7,480.00	126.53	127.44	-39.36	-6,010.08	3,205.16	504.42	293.11	211.31	2.387		
16,500.00	7,870.00	16,300.26	7,480.00	128.16	129.05	-39.36	-6,110.08	3,204.82	504.42	290.74	213.67	2.361		
16,600.00	7,870.00	16,400.26	7,480.00	129.79	130.66	-39.36	-6,210.08	3,204.48	504.42	288.37	216.05	2.335		
16,700.00	7,870.00	16,500.26	7,480.00	131.42	132.27	-39.36	-6,310.08	3,204.14	504.41	285.99	218.42	2.309		
16,800.00	7,870.00	16,600.26	7,480.00	133.05	133.89	-39.36	-6,410.08	3,203.80	504.41	283.62	220.80	2.285		
16,900.00	7,870.00	16,700.26	7,480.00	134.69	135.52	-39.36	-6,510.08	3,203.46	504.41	281.23	223.18	2.260		
17,000.00	7,870.00	16,800.26	7,480.00	136.33	137.14	-39.36	-6,610.08	3,203.12	504.41	278.85	225.57	2.236		
17,100.00	7,870.00	16,900.26	7,480.00	137.97	138.77	-39.36	-6,710.08	3,202.78	504.41	276.46	227.96	2.213		
17,200.00	7,870.00	17,000.26	7,480.00	139.62	140.41	-39.36	-6,810.08	3,202.44	504.41	274.06	230.35	2.190		
17,300.00	7,870.00	17,100.26	7,480.00	141.27	142.04	-39.36	-6,910.08	3,202.11	504.41	271.66	232.75	2.167		
17,400.00	7,870.00	17,200.26	7,480.00	142.92	143.68	-39.36	-7,010.08	3,201.77	504.41	269.26	235.14	2.145		
17,500.00	7,870.00	17,300.26	7,480.00	144.58	145.33	-39.36	-7,110.08	3,201.43	504.41	266.86	237.55	2.123		
17,600.00	7,870.00	17,400.26	7,480.00	146.23	146.97	-39.36	-7,210.08	3,201.09	504.41	264.45	239.95	2.102		
17,700.00	7,870.00	17,500.26	7,480.00	147.89	148.62	-39.36	-7,310.08	3,200.75	504.41	262.04	242.36	2.081		
17,800.00	7,870.00	17,600.26	7,480.00	149.56	150.27	-39.36	-7,410.08	3,200.41	504.40	259.63	244.77	2.061		
17,900.00	7,870.00	17,700.26	7,480.00	151.22	151.92	-39.36	-7,510.08	3,200.07	504.40	257.22	247.19	2.041		
18,000.00	7,870.00	17,800.26	7,480.00	152.89	153.58	-39.36	-7,610.08	3,199.73	504.40	254.80	249.60	2.021		
18,100.00	7,870.00	17,900.26	7,480.00	154.55	155.24	-39.36	-7,710.07	3,199.39	504.40	252.38	252.02	2.001		
18,200.00	7,870.00	18,000.26	7,480.00	156.22	156.90	-39.36	-7,810.07	3,199.05	504.40	249.96	254.45	1.982		
18,300.00	7,870.00	18,100.26	7,480.00	157.90	158.56	-39.36	-7,910.07	3,198.71	504.40	247.53	256.87	1.964		
18,400.00	7,870.00	18,200.26	7,480.00	159.57	160.22	-39.36	-8,010.07	3,198.37	504.40	245.10	259.30	1.945		
18,500.00	7,870.00	18,300.26	7,480.00	161.25	161.89	-39.36	-8,110.07	3,198.04	504.40	242.67	261.73	1.927		
18,600.00	7,870.00	18,400.26	7,480.00	162.93	163.56	-39.36	-8,210.07	3,197.70	504.40	240.24	264.16	1.909		
18,700.00	7,870.00	18,500.26	7,480.00	164.60	165.23	-39.36	-8,310.07	3,197.36	504.40	237.80	266.59	1.892		
18,797.52	7,870.00	18,597.78	7,480.00	166.24	166.86	-39.36	-8,407.59	3,197.03	504.40	235.43	268.97	1.875		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	19.88	19.88					
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	19.88	19.88	19.61	0.27	72.971		
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	19.88	19.88	18.89	0.99	20.094		
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	19.88	19.88	18.17	1.71	11.651		
400.00	400.00	401.00	399.00	1.21	1.21	90.00	0.00	19.88	19.88	17.46	2.42	8.204		
500.00	500.00	501.00	499.00	1.57	1.57	90.00	0.00	19.88	19.88	16.74	3.14	6.331		
600.00	600.00	601.00	599.00	1.93	1.93	90.00	0.00	19.88	19.88	16.02	3.86	5.154		
700.00	700.00	701.00	699.00	2.29	2.29	90.00	0.00	19.88	19.88	15.31	4.57	4.346		
800.00	800.00	799.00	799.00	2.64	2.64	90.00	0.00	19.88	19.88	14.60	5.28	3.762 CC, ES		
900.00	900.00	898.37	898.35	3.00	2.99	87.71	0.85	21.34	21.36	15.37	5.99	3.565		
1,000.00	1,000.00	997.50	997.35	3.36	3.34	82.38	3.45	25.75	26.03	19.34	6.69	3.889		
1,100.00	1,099.98	1,096.32	1,095.79	3.72	3.70	23.29	7.75	33.08	32.53	25.15	7.38	4.407		
1,200.00	1,199.84	1,194.90	1,193.65	4.07	4.06	20.76	13.76	43.32	39.20	31.15	8.06	4.865		
1,300.00	1,299.45	1,293.26	1,290.82	4.43	4.44	19.32	21.44	56.41	45.97	37.24	8.73	5.267		
1,400.00	1,398.70	1,391.38	1,387.19	4.80	4.84	18.58	30.79	72.33	52.78	43.38	9.39	5.618		
1,500.00	1,497.47	1,489.28	1,482.65	5.18	5.26	18.28	41.78	91.05	59.61	49.55	10.06	5.928		
1,600.00	1,595.62	1,586.96	1,577.10	5.57	5.71	18.29	54.38	112.51	66.44	55.72	10.72	6.198		
1,700.00	1,693.06	1,684.41	1,670.43	6.00	6.20	18.53	68.56	136.68	73.27	61.89	11.38	6.436		
1,800.00	1,789.64	1,781.65	1,762.55	6.45	6.73	18.93	84.31	163.51	80.10	68.04	12.05	6.645		
1,900.00	1,885.27	1,878.68	1,853.37	6.94	7.30	19.45	101.60	192.95	86.92	74.18	12.74	6.824		
2,000.00	1,979.82	1,975.49	1,942.78	7.47	7.92	20.07	120.38	224.96	93.73	80.29	13.43	6.977		
2,100.00	2,073.17	2,072.10	2,030.71	8.05	8.59	20.76	140.65	259.48	100.52	86.37	14.15	7.103		
2,200.00	2,165.21	2,168.51	2,117.05	8.67	9.32	21.52	162.35	296.45	107.31	92.41	14.90	7.202		
2,300.00	2,255.84	2,264.72	2,201.73	9.35	10.10	22.31	185.46	335.83	114.09	98.40	15.69	7.274		
2,400.00	2,344.94	2,360.74	2,284.67	10.09	10.94	23.15	209.95	377.54	120.86	104.34	16.52	7.318		
2,500.00	2,432.39	2,456.57	2,365.78	10.89	11.84	24.02	235.78	421.55	127.62	110.22	17.40	7.334		
2,519.29	2,449.07	2,475.03	2,381.21	11.05	12.02	24.19	240.92	430.29	128.92	111.34	17.58	7.335		
2,600.00	2,518.69	2,554.24	2,446.89	11.74	12.82	24.83	263.33	468.47	135.01	116.58	18.42	7.328		
2,700.00	2,604.95	2,653.92	2,529.44	12.62	13.84	25.54	291.62	516.66	142.76	123.18	19.58	7.291		
2,800.00	2,691.22	2,753.61	2,611.99	13.52	14.88	26.18	319.90	564.85	150.53	129.76	20.77	7.247		
2,900.00	2,777.48	2,853.29	2,694.54	14.43	15.94	26.75	348.19	613.03	158.32	136.33	21.99	7.199		
3,000.00	2,863.75	2,952.97	2,777.10	15.35	17.01	27.27	376.47	661.22	166.12	142.88	23.24	7.149		
3,100.00	2,950.01	3,052.66	2,859.65	16.28	18.09	27.74	404.76	709.41	173.93	149.43	24.51	7.098		
3,200.00	3,036.27	3,152.34	2,942.20	17.22	19.17	28.17	433.05	757.59	181.76	155.96	25.79	7.047		
3,300.00	3,122.54	3,252.03	3,024.75	18.17	20.26	28.57	461.33	805.78	189.59	162.49	27.10	6.996		
3,400.00	3,208.80	3,351.71	3,107.31	19.13	21.36	28.93	489.62	853.97	197.43	169.01	28.42	6.947		
3,500.00	3,295.07	3,451.40	3,189.86	20.09	22.47	29.27	517.91	902.15	205.28	175.53	29.76	6.899		
3,600.00	3,381.33	3,551.08	3,272.41	21.05	23.57	29.58	546.19	950.34	213.14	182.03	31.10	6.852		
3,700.00	3,467.59	3,650.77	3,354.96	22.02	24.68	29.87	574.48	998.53	221.00	188.54	32.46	6.808		
3,800.00	3,553.86	3,750.45	3,437.52	22.99	25.80	30.14	602.77	1,046.71	228.87	195.04	33.83	6.765		
3,900.00	3,640.12	3,850.13	3,520.07	23.97	26.91	30.39	631.05	1,094.90	236.74	201.53	35.21	6.724		
4,000.00	3,726.38	3,949.82	3,602.62	24.95	28.03	30.63	659.34	1,143.09	244.62	208.02	36.59	6.685		
4,100.00	3,812.65	4,049.50	3,685.17	25.93	29.15	30.85	687.62	1,191.27	252.49	214.51	37.99	6.641		
4,200.00	3,898.91	4,149.19	3,767.73	26.91	30.27	31.06	715.91	1,239.46	260.38	220.99	39.39	6.611		
4,300.00	3,985.18	4,248.87	3,850.28	27.90	31.40	31.25	744.20	1,287.65	268.26	227.47	40.79	6.577		
4,400.00	4,071.44	4,348.56	3,932.83	28.88	32.52	31.44	772.48	1,335.83	276.15	233.95	42.20	6.544		
4,500.00	4,157.70	4,448.24	4,015.38	29.87	33.65	31.61	800.77	1,384.02	284.05	240.43	43.62	6.512		
4,600.00	4,243.97	4,547.93	4,097.94	30.86	34.78	31.78	829.06	1,432.21	291.94	246.90	45.04	6.482		
4,700.00	4,330.23	4,647.61	4,180.49	31.85	35.91	31.93	857.34	1,480.39	299.84	253.38	46.46	6.454		
4,800.00	4,416.49	4,747.29	4,263.04	32.84	37.04	32.08	885.63	1,528.58	307.74	259.85	47.89	6.426		
4,900.00	4,502.76	4,846.98	4,345.59	33.84	38.17	32.22	913.91	1,576.77	315.64	266.32	49.32	6.400		
5,000.00	4,589.02	4,946.66	4,428.15	34.83	39.30	32.35	942.20	1,624.95	323.54	272.79	50.76	6.374		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,046.35	4,510.70	35.82	40.44	32.48	970.49	1,673.14	331.45	279.25	52.19	6.350		
5,200.00	4,761.55	5,146.03	4,593.25	36.82	41.57	32.60	998.77	1,721.33	339.35	285.72	53.63	6.327		
5,300.00	4,847.81	5,245.72	4,675.80	37.82	42.70	32.72	1,027.06	1,769.51	347.26	292.18	55.08	6.305		
5,400.00	4,934.08	5,345.40	4,758.36	38.81	43.84	32.83	1,055.35	1,817.70	355.17	298.64	56.52	6.284		
5,500.00	5,020.34	5,445.09	4,840.91	39.81	44.97	32.93	1,083.63	1,865.89	363.08	305.11	57.97	6.263		
5,600.00	5,106.60	5,544.77	4,923.46	40.81	46.11	33.04	1,111.92	1,914.07	370.99	311.57	59.42	6.243		
5,700.00	5,192.87	5,644.46	5,006.01	41.81	47.25	33.13	1,140.21	1,962.26	378.90	318.03	60.87	6.224		
5,800.00	5,279.13	5,744.14	5,088.57	42.81	48.38	33.23	1,168.49	2,010.45	386.81	324.49	62.33	6.206		
5,900.00	5,365.40	5,843.82	5,171.12	43.81	49.52	33.32	1,196.78	2,058.63	394.73	330.95	63.78	6.189		
6,000.00	5,451.66	5,943.51	5,253.67	44.81	50.66	33.40	1,225.06	2,106.82	402.64	337.40	65.24	6.172		
6,100.00	5,537.92	6,043.19	5,336.22	45.81	51.80	33.48	1,253.35	2,155.01	410.56	343.86	66.70	6.155		
6,200.00	5,624.19	6,142.88	5,418.78	46.81	52.94	33.56	1,281.64	2,203.20	418.48	350.32	68.16	6.140		
6,300.00	5,710.45	6,242.56	5,501.33	47.81	54.07	33.64	1,309.92	2,251.38	426.39	356.77	69.62	6.125		
6,400.00	5,796.72	6,342.25	5,583.88	48.81	55.21	33.71	1,338.21	2,299.57	434.31	363.23	71.08	6.110		
6,500.00	5,882.98	6,441.93	5,666.43	49.81	56.35	33.78	1,366.50	2,347.76	442.23	369.68	72.55	6.096		
6,600.00	5,969.24	6,541.62	5,748.99	50.82	57.49	33.85	1,394.78	2,395.94	450.15	376.14	74.01	6.082		
6,700.00	6,055.51	6,641.30	5,831.54	51.82	58.63	33.92	1,423.07	2,444.13	458.07	382.59	75.48	6.069		
6,800.00	6,141.77	6,740.98	5,914.09	52.82	59.77	33.98	1,451.35	2,492.32	465.99	389.05	76.95	6.056		
6,900.00	6,228.03	6,840.67	5,996.64	53.83	60.91	34.04	1,479.64	2,540.50	473.91	395.50	78.41	6.044		
7,000.00	6,314.30	6,940.35	6,079.20	54.83	62.05	34.10	1,507.93	2,588.69	481.84	401.95	79.88	6.032		
7,100.00	6,400.56	7,040.04	6,161.75	55.83	63.19	34.16	1,536.21	2,636.88	489.76	408.41	81.35	6.020		
7,200.00	6,486.83	7,139.72	6,244.30	56.84	64.33	34.22	1,564.50	2,685.06	497.68	414.86	82.82	6.009		
7,300.00	6,573.09	7,239.41	6,326.85	57.84	65.47	34.27	1,592.79	2,733.25	505.61	421.31	84.30	5.998		
7,400.00	6,659.35	7,339.09	6,409.41	58.84	66.62	34.33	1,621.07	2,781.44	513.53	427.76	85.77	5.987		
7,500.00	6,745.62	7,438.78	6,491.96	59.85	67.76	34.38	1,649.36	2,829.62	521.45	434.21	87.24	5.977		
7,600.00	6,831.88	7,538.46	6,574.51	60.85	68.90	34.43	1,677.65	2,877.81	529.38	440.66	88.71	5.967		
7,700.00	6,918.14	7,638.14	6,657.06	61.86	70.04	34.47	1,705.93	2,926.00	537.30	447.12	90.19	5.958		
7,800.00	7,004.41	7,737.83	6,739.62	62.86	71.18	34.52	1,734.22	2,974.18	545.23	453.57	91.66	5.948		
7,900.00	7,090.67	7,837.51	6,822.17	63.87	72.32	34.57	1,762.50	3,022.37	553.16	460.02	93.14	5.939		
8,000.00	7,176.94	7,937.20	6,904.72	64.87	73.47	34.61	1,790.79	3,070.56	561.08	466.47	94.62	5.930		
8,027.52	7,200.68	7,964.63	6,927.44	65.15	73.78	34.62	1,798.58	3,083.82	563.26	468.24	95.02	5.928		
8,050.00	7,220.18	7,987.04	6,946.00	65.37	74.04	31.37	1,804.93	3,094.65	565.02	469.72	95.30	5.929		
8,100.00	7,264.25	8,036.73	6,987.15	65.85	74.61	22.83	1,819.03	3,118.67	568.77	473.27	95.50	5.955		
8,150.00	7,308.99	8,085.91	7,027.87	66.28	75.17	12.70	1,832.99	3,142.44	572.37	477.21	95.15	6.015		
8,200.00	7,354.07	8,134.20	7,067.86	66.67	75.72	1.49	1,846.69	3,165.78	575.95	481.69	94.26	6.110		
8,250.00	7,399.14	8,181.17	7,106.82	67.02	76.26	-9.99	1,859.81	3,188.52	579.77	486.91	92.86	6.243		
8,300.00	7,443.85	8,228.43	7,146.65	67.32	76.78	-20.80	1,870.06	3,211.76	584.04	492.69	91.35	6.393		
8,350.00	7,487.88	8,277.13	7,188.32	67.56	77.29	-30.44	1,876.62	3,236.06	588.76	498.87	89.89	6.550		
8,400.00	7,530.87	8,327.41	7,231.70	67.75	77.78	-38.74	1,879.07	3,261.34	593.90	505.36	88.53	6.708		
8,450.00	7,572.51	8,379.45	7,276.62	67.90	78.24	-45.77	1,876.95	3,287.50	599.40	512.06	87.34	6.863		
8,500.00	7,612.48	8,433.42	7,322.84	68.00	78.66	-51.70	1,869.79	3,314.40	605.19	518.86	86.33	7.010		
8,550.00	7,650.47	8,489.50	7,370.03	68.05	79.04	-56.71	1,857.06	3,341.84	611.19	525.66	85.52	7.146		
8,600.00	7,686.20	8,547.85	7,417.75	68.06	79.36	-60.95	1,838.21	3,369.58	617.29	532.37	84.92	7.269		
8,650.00	7,719.39	8,608.62	7,465.43	68.03	79.62	-64.56	1,812.73	3,397.27	623.39	538.87	84.52	7.376		
8,700.00	7,749.79	8,671.94	7,512.34	67.97	79.81	-67.63	1,780.12	3,424.49	629.33	545.03	84.30	7.465		
8,750.00	7,777.17	8,737.85	7,557.58	67.87	79.94	-70.24	1,740.04	3,450.71	634.99	550.70	84.29	7.534		
8,800.00	7,801.32	8,806.35	7,600.06	67.74	79.98	-72.42	1,692.32	3,475.30	640.20	555.70	84.49	7.577		
8,850.00	7,822.06	8,877.32	7,638.56	67.59	79.95	-74.22	1,637.08	3,497.54	644.81	559.86	84.95	7.590		
8,900.00	7,839.23	8,950.51	7,671.79	67.41	79.84	-75.65	1,574.80	3,516.69	648.68	562.95	85.72	7.567		
8,950.00	7,852.69	9,025.55	7,698.47	67.22	79.66	-76.70	1,506.41	3,532.00	651.67	564.83	86.84	7.504		
9,000.00	7,862.35	9,101.95	7,717.47	67.00	79.43	-77.40	1,433.26	3,542.82	653.69	565.39	88.30	7.403		
9,050.00	7,868.14	9,179.11	7,727.96	66.78	79.14	-77.73	1,357.10	3,548.67	654.65	564.59	90.06	7.269		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.64	7,870.00	9,246.12	7,730.00	66.55	78.87	-77.74	1,290.15	3,549.64	654.65	563.42	91.23	7.176		
9,098.65	7,870.00	9,246.13	7,730.00	66.55	78.87	-77.74	1,290.15	3,549.64	654.65	563.42	91.23	7.176		
9,100.00	7,870.00	9,247.48	7,730.00	66.55	78.87	-77.74	1,288.80	3,549.63	654.65	563.44	91.22	7.177		
9,200.00	7,870.00	9,347.48	7,730.00	66.09	78.46	-77.74	1,188.80	3,549.29	654.65	564.23	90.42	7.240		
9,300.00	7,870.00	9,447.48	7,730.00	65.65	78.08	-77.74	1,088.80	3,548.96	654.65	564.91	89.74	7.295		
9,400.00	7,870.00	9,547.48	7,730.00	65.24	77.71	-77.74	988.80	3,548.62	654.65	565.45	89.20	7.339		
9,500.00	7,870.00	9,647.48	7,730.00	64.85	77.37	-77.74	888.80	3,548.28	654.65	565.86	88.79	7.373		
9,600.00	7,870.00	9,747.48	7,730.00	64.48	77.04	-77.74	788.80	3,547.94	654.65	566.14	88.51	7.396		
9,700.00	7,870.00	9,847.48	7,730.00	64.13	76.73	-77.74	688.80	3,547.61	654.65	566.28	88.37	7.408		
9,800.00	7,870.00	9,947.48	7,730.00	63.80	76.44	-77.74	588.80	3,547.27	654.65	566.29	88.36	7.409		
9,900.00	7,870.00	10,047.48	7,730.00	63.50	76.17	-77.74	488.80	3,546.93	654.65	566.16	88.50	7.398		
10,000.00	7,870.00	10,147.48	7,730.00	63.22	75.92	-77.74	388.80	3,546.59	654.65	565.89	88.76	7.375		
10,100.00	7,870.00	10,247.48	7,730.00	62.96	75.68	-77.74	288.80	3,546.26	654.65	565.49	89.16	7.342		
10,200.00	7,870.00	10,347.48	7,730.00	62.72	75.47	-77.74	188.81	3,545.92	654.65	564.96	89.70	7.299		
10,300.00	7,870.00	10,447.48	7,730.00	62.50	75.27	-77.74	88.81	3,545.58	654.65	564.29	90.36	7.245		
10,400.00	7,870.00	10,547.48	7,730.00	62.31	75.09	-77.74	-11.19	3,545.24	654.65	563.50	91.15	7.182		
10,500.00	7,870.00	10,647.48	7,730.00	62.15	74.94	-77.74	-111.19	3,544.91	654.65	562.59	92.07	7.111		
10,600.00	7,870.00	10,747.48	7,730.00	62.01	74.80	-77.74	-211.19	3,544.57	654.65	561.55	93.10	7.031		
10,700.00	7,870.00	10,847.48	7,730.00	61.90	74.69	-77.74	-311.19	3,544.23	654.65	560.40	94.26	6.945		
10,800.00	7,870.00	10,947.48	7,730.00	61.82	74.60	-77.74	-411.19	3,543.89	654.65	559.13	95.52	6.854		
10,900.00	7,870.00	11,047.48	7,730.00	61.78	74.53	-77.74	-511.19	3,543.56	654.65	557.76	96.89	6.756		
11,000.00	7,870.00	11,147.48	7,730.00	61.77	74.49	-77.74	-611.19	3,543.22	654.65	556.28	98.37	6.655		
11,100.00	7,870.00	11,247.48	7,730.00	61.81	74.47	-77.74	-711.19	3,542.88	654.65	554.71	99.94	6.550		
11,200.00	7,870.00	11,347.48	7,730.00	61.90	74.48	-77.74	-811.19	3,542.54	654.65	553.04	101.61	6.443		
11,300.00	7,870.00	11,447.48	7,730.00	62.03	74.53	-77.74	-911.19	3,542.20	654.65	551.28	103.37	6.333		
11,400.00	7,870.00	11,547.48	7,730.00	62.23	74.60	-77.74	-1,011.19	3,541.87	654.65	549.44	105.22	6.222		
11,500.00	7,870.00	11,647.48	7,730.00	62.50	74.71	-77.74	-1,111.19	3,541.53	654.65	547.51	107.14	6.110		
11,600.00	7,870.00	11,747.48	7,730.00	62.84	74.86	-77.74	-1,211.19	3,541.19	654.65	545.51	109.14	5.998		
11,700.00	7,870.00	11,847.48	7,730.00	63.25	75.05	-77.74	-1,311.19	3,540.85	654.65	543.44	111.21	5.886		
11,800.00	7,870.00	11,947.48	7,730.00	63.76	75.29	-77.74	-1,411.19	3,540.52	654.65	541.30	113.35	5.775		
11,900.00	7,870.00	12,047.48	7,730.00	64.34	75.57	-77.74	-1,511.18	3,540.18	654.65	539.09	115.56	5.665		
12,000.00	7,870.00	12,147.48	7,730.00	65.01	75.90	-77.74	-1,611.18	3,539.84	654.65	536.83	117.83	5.556		
12,100.00	7,870.00	12,247.48	7,730.00	65.77	76.28	-77.74	-1,711.18	3,539.50	654.65	534.50	120.15	5.449		
12,200.00	7,870.00	12,347.48	7,730.00	66.61	76.72	-77.74	-1,811.18	3,539.17	654.65	532.12	122.53	5.343		
12,300.00	7,870.00	12,447.48	7,730.00	67.51	77.22	-77.74	-1,911.18	3,538.83	654.66	529.70	124.96	5.239		
12,400.00	7,870.00	12,547.48	7,730.00	68.49	77.77	-77.74	-2,011.18	3,538.49	654.66	527.22	127.44	5.137		
12,500.00	7,870.00	12,647.48	7,730.00	69.52	78.39	-77.74	-2,111.18	3,538.15	654.66	524.69	129.96	5.037		
12,600.00	7,870.00	12,747.48	7,730.00	70.61	79.07	-77.74	-2,211.18	3,537.82	654.66	522.13	132.53	4.940		
12,700.00	7,870.00	12,847.48	7,730.00	71.75	79.81	-77.74	-2,311.18	3,537.48	654.66	519.52	135.13	4.845		
12,800.00	7,870.00	12,947.48	7,730.00	72.93	80.61	-77.74	-2,411.18	3,537.14	654.66	516.88	137.78	4.752		
12,900.00	7,870.00	13,047.48	7,730.00	74.14	81.46	-77.74	-2,511.18	3,536.80	654.66	514.20	140.46	4.661		
13,000.00	7,870.00	13,147.48	7,730.00	75.39	82.37	-77.74	-2,611.18	3,536.47	654.66	511.48	143.17	4.572		
13,100.00	7,870.00	13,247.48	7,730.00	76.67	83.34	-77.74	-2,711.18	3,536.13	654.66	508.74	145.92	4.486		
13,200.00	7,870.00	13,347.48	7,730.00	77.98	84.35	-77.74	-2,811.18	3,535.79	654.66	505.96	148.70	4.403		
13,300.00	7,870.00	13,447.48	7,730.00	79.31	85.40	-77.74	-2,911.18	3,535.45	654.66	503.15	151.50	4.321		
13,400.00	7,870.00	13,547.48	7,730.00	80.67	86.50	-77.74	-3,011.18	3,535.12	654.66	500.32	154.33	4.242		
13,500.00	7,870.00	13,647.48	7,730.00	82.04	87.64	-77.74	-3,111.18	3,534.78	654.66	497.46	157.19	4.165		
13,600.00	7,870.00	13,747.48	7,730.00	83.43	88.81	-77.74	-3,211.18	3,534.44	654.66	494.58	160.07	4.090		
13,700.00	7,870.00	13,847.48	7,730.00	84.84	90.02	-77.74	-3,311.17	3,534.10	654.66	491.68	162.98	4.017		
13,800.00	7,870.00	13,947.48	7,730.00	86.27	91.26	-77.74	-3,411.17	3,533.77	654.66	488.75	165.91	3.946		
13,900.00	7,870.00	14,047.48	7,730.00	87.71	92.52	-77.74	-3,511.17	3,533.43	654.66	485.80	168.85	3.877		
14,000.00	7,870.00	14,147.48	7,730.00	89.16	93.81	-77.74	-3,611.17	3,533.09	654.66	482.84	171.82	3.810		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	14,247.48	7,730.00	90.63	95.13	-77.74	-3,711.17	3,532.75	654.66	479.85	174.81	3.745		
14,200.00	7,870.00	14,347.48	7,730.00	92.10	96.46	-77.74	-3,811.17	3,532.41	654.66	476.85	177.81	3.682		
14,300.00	7,870.00	14,447.48	7,730.00	93.59	97.82	-77.74	-3,911.17	3,532.08	654.66	473.83	180.83	3.620		
14,400.00	7,870.00	14,547.48	7,730.00	95.09	99.19	-77.74	-4,011.17	3,531.74	654.66	470.79	183.86	3.561		
14,500.00	7,870.00	14,647.48	7,730.00	96.60	100.59	-77.74	-4,111.17	3,531.40	654.66	467.74	186.92	3.502		
14,600.00	7,870.00	14,747.48	7,730.00	98.11	102.00	-77.74	-4,211.17	3,531.06	654.66	464.68	189.98	3.446		
14,700.00	7,870.00	14,847.48	7,730.00	99.64	103.42	-77.74	-4,311.17	3,530.73	654.66	461.60	193.06	3.391		
14,800.00	7,870.00	14,947.48	7,730.00	101.17	104.86	-77.74	-4,411.17	3,530.39	654.66	458.51	196.15	3.338		
14,900.00	7,870.00	15,047.48	7,730.00	102.71	106.31	-77.74	-4,511.17	3,530.05	654.66	455.40	199.26	3.286		
15,000.00	7,870.00	15,147.48	7,730.00	104.26	107.77	-77.74	-4,611.17	3,529.71	654.66	452.29	202.37	3.235		
15,100.00	7,870.00	15,247.48	7,730.00	105.82	109.24	-77.74	-4,711.17	3,529.38	654.66	449.16	205.50	3.186		
15,200.00	7,870.00	15,347.48	7,730.00	107.38	110.73	-77.74	-4,811.17	3,529.04	654.66	446.02	208.64	3.138		
15,300.00	7,870.00	15,447.48	7,730.00	108.95	112.22	-77.74	-4,911.17	3,528.70	654.66	442.87	211.79	3.091		
15,400.00	7,870.00	15,547.48	7,730.00	110.52	113.72	-77.74	-5,011.17	3,528.36	654.66	439.71	214.95	3.046		
15,500.00	7,870.00	15,647.48	7,730.00	112.10	115.24	-77.74	-5,111.16	3,528.03	654.66	436.54	218.12	3.001		
15,600.00	7,870.00	15,747.48	7,730.00	113.69	116.76	-77.74	-5,211.16	3,527.69	654.66	433.37	221.29	2.958		
15,700.00	7,870.00	15,847.48	7,730.00	115.28	118.29	-77.74	-5,311.16	3,527.35	654.66	430.18	224.48	2.916		
15,800.00	7,870.00	15,947.48	7,730.00	116.87	119.82	-77.74	-5,411.16	3,527.01	654.66	426.99	227.67	2.875		
15,900.00	7,870.00	16,047.48	7,730.00	118.47	121.37	-77.74	-5,511.16	3,526.68	654.66	423.78	230.88	2.836		
16,000.00	7,870.00	16,147.48	7,730.00	120.07	122.92	-77.74	-5,611.16	3,526.34	654.66	420.57	234.09	2.797		
16,100.00	7,870.00	16,247.48	7,730.00	121.68	124.47	-77.74	-5,711.16	3,526.00	654.66	417.36	237.30	2.759		
16,200.00	7,870.00	16,347.48	7,730.00	123.30	126.04	-77.74	-5,811.16	3,525.66	654.66	414.13	240.53	2.722		
16,300.00	7,870.00	16,447.48	7,730.00	124.91	127.61	-77.74	-5,911.16	3,525.33	654.66	410.90	243.76	2.686		
16,400.00	7,870.00	16,547.48	7,730.00	126.53	129.18	-77.74	-6,011.16	3,524.99	654.66	407.67	247.00	2.650		
16,500.00	7,870.00	16,647.48	7,730.00	128.16	130.76	-77.74	-6,111.16	3,524.65	654.66	404.42	250.24	2.616		
16,600.00	7,870.00	16,747.48	7,730.00	129.79	132.34	-77.74	-6,211.16	3,524.31	654.66	401.17	253.49	2.583		
16,700.00	7,870.00	16,847.48	7,730.00	131.42	133.93	-77.74	-6,311.16	3,523.98	654.66	397.92	256.74	2.550		
16,800.00	7,870.00	16,947.48	7,730.00	133.05	135.53	-77.74	-6,411.16	3,523.64	654.66	394.66	260.01	2.518		
16,900.00	7,870.00	17,047.48	7,730.00	134.69	137.13	-77.74	-6,511.16	3,523.30	654.66	391.39	263.27	2.487		
17,000.00	7,870.00	17,147.48	7,730.00	136.33	138.73	-77.74	-6,611.16	3,522.96	654.66	388.12	266.54	2.456		
17,100.00	7,870.00	17,247.48	7,730.00	137.97	140.34	-77.74	-6,711.16	3,522.62	654.66	384.84	269.82	2.426		
17,200.00	7,870.00	17,347.48	7,730.00	139.62	141.95	-77.74	-6,811.15	3,522.29	654.66	381.56	273.10	2.397		
17,300.00	7,870.00	17,447.48	7,730.00	141.27	143.56	-77.74	-6,911.15	3,521.95	654.66	378.27	276.39	2.369		
17,400.00	7,870.00	17,547.48	7,730.00	142.92	145.18	-77.74	-7,011.15	3,521.61	654.66	374.98	279.68	2.341		
17,500.00	7,870.00	17,647.48	7,730.00	144.58	146.80	-77.74	-7,111.15	3,521.27	654.66	371.69	282.97	2.314		
17,600.00	7,870.00	17,747.48	7,730.00	146.23	148.43	-77.74	-7,211.15	3,520.94	654.66	368.39	286.27	2.287		
17,700.00	7,870.00	17,847.48	7,730.00	147.89	150.05	-77.74	-7,311.15	3,520.60	654.66	365.09	289.58	2.261		
17,800.00	7,870.00	17,947.48	7,730.00	149.56	151.69	-77.74	-7,411.15	3,520.26	654.66	361.78	292.88	2.235		
17,900.00	7,870.00	18,047.48	7,730.00	151.22	153.32	-77.74	-7,511.15	3,519.92	654.66	358.47	296.19	2.210		
18,000.00	7,870.00	18,147.48	7,730.00	152.89	154.96	-77.74	-7,611.15	3,519.59	654.66	355.16	299.51	2.186		
18,100.00	7,870.00	18,247.48	7,730.00	154.55	156.60	-77.74	-7,711.15	3,519.25	654.66	351.84	302.82	2.162		
18,200.00	7,870.00	18,347.48	7,730.00	156.22	158.24	-77.74	-7,811.15	3,518.91	654.66	348.52	306.15	2.138		
18,300.00	7,870.00	18,447.48	7,730.00	157.90	159.89	-77.74	-7,911.15	3,518.57	654.66	345.19	309.47	2.115		
18,400.00	7,870.00	18,547.48	7,730.00	159.57	161.54	-77.74	-8,011.15	3,518.24	654.66	341.87	312.80	2.093		
18,500.00	7,870.00	18,647.48	7,730.00	161.25	163.19	-77.74	-8,111.15	3,517.90	654.66	338.54	316.13	2.071		
18,600.00	7,870.00	18,747.48	7,730.00	162.93	164.84	-77.74	-8,211.15	3,517.56	654.66	335.20	319.46	2.049		
18,700.00	7,870.00	18,847.48	7,730.00	164.60	166.49	-77.74	-8,311.15	3,517.22	654.66	331.87	322.80	2.028		
18,797.52	7,870.00	18,945.00	7,730.00	166.24	168.11	-77.74	-8,408.66	3,516.89	654.66	328.61	326.05	2.008 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	90.70	-0.36	29.96	29.96	29.69	0.27	109.979		
100.00	100.00	101.00	99.00	0.13	0.14	90.70	-0.36	29.96	29.96	28.97	0.99	30.284		
200.00	200.00	201.00	199.00	0.49	0.50	90.70	-0.36	29.96	29.96	28.97	0.99	30.284		
300.00	300.00	301.00	299.00	0.85	0.85	90.70	-0.36	29.96	29.96	28.26	1.71	17.560		
400.00	400.00	401.00	399.00	1.21	1.21	90.70	-0.36	29.96	29.96	27.54	2.42	12.364		
500.00	500.00	501.00	499.00	1.57	1.57	90.70	-0.36	29.96	29.96	26.82	3.14	9.542		
600.00	600.00	601.00	599.00	1.93	1.93	90.70	-0.36	29.96	29.96	26.11	3.86	7.768		
700.00	700.00	699.00	699.00	2.29	2.28	90.70	-0.36	29.96	29.96	25.40	4.57	6.561	CC, ES	
800.00	800.00	798.06	798.04	2.64	2.63	89.22	0.43	31.44	31.46	26.18	5.28	5.963		
900.00	900.00	896.88	896.73	3.00	2.98	85.49	2.83	35.92	36.10	30.13	5.98	6.041		
1,000.00	1,000.00	995.24	994.72	3.36	3.34	81.06	6.82	43.35	44.10	37.43	6.67	6.611		
1,100.00	1,099.98	1,093.11	1,091.88	3.72	3.70	23.03	12.37	53.69	53.96	46.61	7.35	7.340		
1,200.00	1,199.84	1,190.64	1,188.25	4.07	4.08	21.05	19.45	66.89	64.00	55.98	8.02	7.980		
1,300.00	1,299.45	1,287.84	1,283.73	4.43	4.48	19.93	28.05	82.92	74.12	65.44	8.68	8.536		
1,400.00	1,398.70	1,384.71	1,378.21	4.80	4.90	19.36	38.14	101.72	84.28	74.94	9.34	9.022		
1,500.00	1,497.47	1,481.25	1,471.60	5.18	5.35	19.17	49.69	123.25	94.45	84.45	10.00	9.445		
1,600.00	1,595.62	1,577.46	1,563.81	5.57	5.84	19.23	62.67	147.45	104.61	93.95	10.66	9.815		
1,700.00	1,693.06	1,673.36	1,654.74	6.00	6.36	19.48	77.06	174.27	114.75	103.43	11.32	10.137		
1,800.00	1,789.64	1,768.94	1,744.31	6.45	6.93	19.87	92.83	203.66	124.87	112.88	11.99	10.415		
1,900.00	1,885.27	1,864.22	1,832.44	6.94	7.55	20.37	109.94	235.56	134.96	122.29	12.67	10.651		
2,000.00	1,979.82	1,959.20	1,919.04	7.47	8.22	20.96	128.37	269.92	145.02	131.65	13.37	10.847		
2,100.00	2,073.17	2,053.88	2,004.04	8.05	8.94	21.61	148.09	306.66	155.05	140.96	14.09	11.004		
2,200.00	2,165.21	2,148.27	2,087.36	8.67	9.71	22.31	169.05	345.73	165.05	150.21	14.84	11.121		
2,300.00	2,255.84	2,242.38	2,168.94	9.35	10.54	23.05	191.23	387.08	175.02	159.39	15.63	11.198		
2,400.00	2,344.94	2,336.22	2,248.70	10.09	11.43	23.83	214.60	430.63	184.95	168.49	16.46	11.234		
2,500.00	2,432.39	2,429.78	2,326.57	10.89	12.37	24.63	239.12	476.33	194.86	177.51	17.35	11.229		
2,519.29	2,449.07	2,447.80	2,341.38	11.05	12.56	24.79	243.98	485.39	196.77	179.24	17.53	11.224		
2,600.00	2,518.69	2,523.69	2,403.00	11.74	13.38	25.41	264.91	524.40	205.74	187.43	18.31	11.237		
2,700.00	2,604.95	2,622.93	2,483.03	12.62	14.48	26.05	292.66	576.12	217.80	198.31	19.48	11.178		
2,800.00	2,691.22	2,722.17	2,563.05	13.52	15.61	26.63	320.40	627.84	229.88	209.19	20.69	11.110		
2,900.00	2,777.48	2,821.41	2,643.08	14.43	16.74	27.14	348.15	679.55	241.98	220.05	21.93	11.036		
3,000.00	2,863.75	2,920.65	2,723.11	15.35	17.89	27.61	375.90	731.27	254.10	230.91	23.19	10.959		
3,100.00	2,950.01	3,019.90	2,803.14	16.28	19.05	28.04	403.64	782.99	266.24	241.77	24.47	10.880		
3,200.00	3,036.27	3,119.14	2,883.17	17.22	20.22	28.43	431.39	834.70	278.39	252.62	25.77	10.802		
3,300.00	3,122.54	3,218.38	2,963.20	18.17	21.39	28.78	459.14	886.42	290.55	263.46	27.09	10.725		
3,400.00	3,208.80	3,317.62	3,043.22	19.13	22.57	29.11	486.88	938.14	302.72	274.29	28.42	10.650		
3,500.00	3,295.07	3,416.87	3,123.25	20.09	23.75	29.41	514.63	989.85	314.90	285.13	29.77	10.578		
3,600.00	3,381.33	3,516.11	3,203.28	21.05	24.94	29.69	542.38	1,041.57	327.09	295.96	31.13	10.508		
3,700.00	3,467.59	3,615.35	3,283.31	22.02	26.13	29.95	570.12	1,093.29	339.28	306.78	32.50	10.440		
3,800.00	3,553.86	3,714.59	3,363.34	22.99	27.32	30.20	597.87	1,145.00	351.48	317.61	33.87	10.376		
3,900.00	3,640.12	3,813.83	3,443.37	23.97	28.52	30.42	625.62	1,196.72	363.69	328.43	35.26	10.314		
4,000.00	3,726.38	3,913.08	3,523.39	24.95	29.71	30.63	653.36	1,248.44	375.90	339.25	36.66	10.255		
4,100.00	3,812.65	4,012.32	3,603.42	25.93	30.91	30.83	681.11	1,300.15	388.12	350.06	38.06	10.199		
4,200.00	3,898.91	4,111.56	3,683.45	26.91	32.12	31.02	708.86	1,351.87	400.34	360.88	39.46	10.145		
4,300.00	3,985.18	4,210.80	3,763.48	27.90	33.32	31.19	736.60	1,403.59	412.57	371.69	40.87	10.093		
4,400.00	4,071.44	4,310.05	3,843.51	28.88	34.52	31.36	764.35	1,455.30	424.80	382.50	42.29	10.044		
4,500.00	4,157.70	4,409.29	3,923.54	29.87	35.73	31.51	792.10	1,507.02	437.03	393.31	43.71	9.997		
4,600.00	4,243.97	4,508.53	4,003.57	30.86	36.94	31.66	819.84	1,558.74	449.26	404.12	45.14	9.952		
4,700.00	4,330.23	4,607.77	4,083.59	31.85	38.14	31.80	847.59	1,610.45	461.50	414.93	46.57	9.910		
4,800.00	4,416.49	4,707.02	4,163.62	32.84	39.35	31.93	875.34	1,662.17	473.74	425.74	48.00	9.869		
4,900.00	4,502.76	4,806.26	4,243.65	33.84	40.56	32.05	903.08	1,713.89	485.98	436.54	49.44	9.829		
5,000.00	4,589.02	4,905.50	4,323.68	34.83	41.77	32.17	930.83	1,765.60	498.23	447.35	50.88	9.792		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,004.74	4,403.71	35.82	42.99	32.29	958.58	1,817.32	510.48	458.15	52.33	9.756		
5,200.00	4,761.55	5,103.98	4,483.74	36.82	44.20	32.39	986.32	1,869.04	522.73	468.95	53.77	9.721		
5,300.00	4,847.81	5,203.23	4,563.76	37.82	45.41	32.50	1,014.07	1,920.75	534.98	479.76	55.22	9.688		
5,400.00	4,934.08	5,302.47	4,643.79	38.81	46.62	32.60	1,041.82	1,972.47	547.23	490.56	56.67	9.656		
5,500.00	5,020.34	5,401.71	4,723.82	39.81	47.84	32.69	1,069.56	2,024.19	559.48	501.36	58.12	9.626		
5,600.00	5,106.60	5,500.95	4,803.85	40.81	49.05	32.78	1,097.31	2,075.90	571.74	512.16	59.58	9.597		
5,700.00	5,192.87	5,600.20	4,883.88	41.81	50.27	32.87	1,125.06	2,127.62	583.99	522.96	61.03	9.569		
5,800.00	5,279.13	5,699.44	4,963.91	42.81	51.48	32.95	1,152.80	2,179.34	596.25	533.76	62.49	9.541		
5,900.00	5,365.40	5,798.68	5,043.93	43.81	52.70	33.03	1,180.55	2,231.05	608.51	544.56	63.95	9.515		
6,000.00	5,451.66	5,897.92	5,123.96	44.81	53.91	33.11	1,208.30	2,282.77	620.77	555.36	65.41	9.490		
6,100.00	5,537.92	6,002.84	5,203.99	45.81	55.20	33.18	1,236.04	2,334.49	633.03	566.12	66.92	9.460		
6,200.00	5,624.19	6,103.59	5,284.02	46.81	56.44	33.25	1,263.79	2,386.20	645.29	576.90	68.39	9.435		
6,300.00	5,710.45	6,204.35	5,364.05	47.81	57.67	33.32	1,291.54	2,437.92	657.56	587.69	69.87	9.412		
6,400.00	5,796.72	6,305.11	5,444.08	48.81	58.91	33.38	1,319.28	2,489.64	669.82	598.48	71.34	9.389		
6,500.00	5,882.98	6,405.87	5,524.10	49.81	60.14	33.45	1,347.03	2,541.35	682.09	609.26	72.82	9.366		
6,600.00	5,969.24	6,506.62	5,604.13	50.82	61.38	33.51	1,374.78	2,593.07	694.35	620.05	74.30	9.345		
6,700.00	6,055.51	6,592.62	5,684.16	51.82	62.43	33.57	1,402.52	2,644.79	706.62	630.94	75.68	9.338		
6,800.00	6,141.77	6,708.14	5,764.19	52.82	63.85	33.62	1,430.27	2,696.50	718.89	641.62	77.27	9.304		
6,900.00	6,228.03	6,808.90	5,844.22	53.83	65.09	33.68	1,458.02	2,748.22	731.15	652.40	78.75	9.285		
7,000.00	6,314.30	6,909.65	5,924.25	54.83	66.33	33.73	1,485.76	2,799.93	743.42	663.19	80.23	9.266		
7,100.00	6,400.56	6,989.59	6,004.28	55.83	67.31	33.78	1,513.51	2,851.65	755.69	674.13	81.56	9.265		
7,200.00	6,486.83	7,088.83	6,084.30	56.84	68.53	33.83	1,541.26	2,903.37	767.96	684.92	83.04	9.248		
7,300.00	6,573.09	7,188.07	6,164.33	57.84	69.75	33.88	1,569.00	2,955.08	780.23	695.72	84.51	9.232		
7,400.00	6,659.35	7,287.31	6,244.36	58.84	70.97	33.93	1,596.75	3,006.80	792.50	706.51	85.99	9.217		
7,500.00	6,745.62	7,386.56	6,324.39	59.85	72.19	33.97	1,624.50	3,058.52	804.77	717.31	87.46	9.201		
7,600.00	6,831.88	7,485.80	6,404.42	60.85	73.40	34.02	1,652.24	3,110.23	817.04	728.10	88.94	9.187		
7,700.00	6,918.14	7,585.04	6,484.45	61.86	74.62	34.06	1,679.99	3,161.95	829.32	738.90	90.42	9.172		
7,800.00	7,004.41	7,684.28	6,564.47	62.86	75.84	34.10	1,707.73	3,213.67	841.59	749.69	91.89	9.158		
7,900.00	7,090.67	7,783.53	6,644.50	63.87	77.06	34.14	1,735.48	3,265.38	853.86	760.49	93.37	9.145		
8,000.00	7,176.94	7,882.77	6,724.53	64.87	78.28	34.18	1,763.23	3,317.10	866.13	771.28	94.85	9.132		
8,027.52	7,200.68	7,910.08	6,746.56	65.15	78.62	34.19	1,770.86	3,331.34	869.51	774.25	95.26	9.128		
8,050.00	7,220.18	7,932.39	6,764.54	65.37	78.89	31.05	1,777.10	3,342.96	872.25	776.70	95.55	9.129		
8,100.00	7,264.25	7,981.87	6,804.45	65.85	79.50	22.88	1,790.94	3,368.74	878.19	782.28	95.91	9.156		
8,150.00	7,308.99	8,030.85	6,843.95	66.28	80.10	13.26	1,804.63	3,394.27	883.95	788.07	95.88	9.219		
8,200.00	7,354.07	8,078.97	6,882.74	66.67	80.70	2.68	1,818.08	3,419.34	889.59	794.13	95.46	9.319		
8,250.00	7,399.14	8,125.84	6,920.55	67.02	81.27	-8.10	1,831.19	3,443.77	895.23	800.57	94.66	9.457		
8,300.00	7,443.85	8,171.13	6,957.06	67.32	81.83	-18.32	1,843.85	3,467.37	901.07	807.56	93.51	9.636		
8,350.00	7,487.88	8,214.47	6,992.02	67.56	82.36	-27.48	1,855.97	3,489.96	907.32	815.26	92.06	9.856		
8,400.00	7,530.87	8,256.70	7,026.12	67.75	82.88	-35.40	1,867.55	3,511.99	914.20	823.82	90.38	10.115		
8,450.00	7,572.51	8,301.53	7,062.89	67.90	83.42	-42.12	1,877.16	3,535.75	921.80	833.03	88.77	10.385		
8,500.00	7,612.48	8,348.78	7,102.21	68.00	83.96	-47.77	1,883.56	3,561.13	930.05	842.74	87.30	10.653		
8,550.00	7,650.47	8,398.96	7,144.31	68.05	84.50	-52.55	1,886.10	3,588.29	938.90	852.85	86.05	10.911		
8,600.00	7,686.20	8,452.69	7,189.40	68.06	85.03	-56.64	1,883.96	3,617.38	948.26	863.21	85.04	11.150		
8,650.00	7,719.39	8,510.73	7,237.71	68.03	85.54	-60.19	1,876.01	3,648.51	958.01	873.72	84.29	11.366		
8,700.00	7,749.79	8,574.02	7,289.33	67.97	86.02	-63.33	1,860.76	3,681.76	967.98	884.18	83.80	11.552		
8,750.00	7,777.17	8,643.66	7,344.11	67.87	86.46	-66.14	1,836.29	3,717.02	977.97	894.42	83.55	11.706		
8,800.00	7,801.32	8,720.88	7,401.45	67.74	86.82	-68.70	1,800.14	3,753.88	987.68	904.15	83.53	11.824		
8,850.00	7,822.06	8,806.90	7,459.89	67.59	87.09	-71.00	1,749.51	3,791.41	996.78	912.99	83.80	11.895		
8,900.00	7,839.23	8,902.67	7,516.65	67.41	87.20	-73.03	1,681.65	3,827.79	1,004.84	920.38	84.47	11.896		
8,950.00	7,852.69	9,008.30	7,567.30	67.22	87.16	-74.69	1,594.98	3,860.17	1,011.39	925.61	85.78	11.791		
9,000.00	7,862.35	9,122.51	7,606.05	67.00	86.95	-75.86	1,490.62	3,884.82	1,015.93	927.96	87.97	11.548		
9,050.00	7,868.14	9,242.22	7,627.21	66.78	86.58	-76.41	1,373.76	3,898.08	1,018.10	926.99	91.11	11.174		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	9,327.11	7,630.00	66.55	86.26	-76.42	1,288.99	3,899.59	1,018.13	925.33	92.80	10.972		
9,100.00	7,870.00	9,328.46	7,630.00	66.55	86.26	-76.42	1,287.63	3,899.59	1,018.13	925.35	92.79	10.973		
9,200.00	7,870.00	9,428.46	7,630.00	66.09	85.88	-76.42	1,187.63	3,899.25	1,018.13	926.11	92.03	11.063		
9,300.00	7,870.00	9,528.46	7,630.00	65.65	85.52	-76.42	1,087.64	3,898.92	1,018.14	926.74	91.39	11.140		
9,400.00	7,870.00	9,628.46	7,630.00	65.24	85.18	-76.42	987.64	3,898.58	1,018.14	927.25	90.89	11.202		
9,500.00	7,870.00	9,728.46	7,630.00	64.85	84.86	-76.42	887.64	3,898.24	1,018.14	927.63	90.51	11.249		
9,600.00	7,870.00	9,828.46	7,630.00	64.48	84.55	-76.42	787.64	3,897.91	1,018.14	927.88	90.26	11.280		
9,700.00	7,870.00	9,928.46	7,630.00	64.13	84.26	-76.42	687.64	3,897.57	1,018.14	927.99	90.15	11.294		
9,800.00	7,870.00	10,028.46	7,630.00	63.80	83.99	-76.42	587.64	3,897.24	1,018.14	927.98	90.17	11.292		
9,900.00	7,870.00	10,128.46	7,630.00	63.50	83.73	-76.42	487.64	3,896.90	1,018.15	927.83	90.32	11.273		
10,000.00	7,870.00	10,228.46	7,630.00	63.22	83.49	-76.42	387.64	3,896.56	1,018.15	927.55	90.60	11.238		
10,100.00	7,870.00	10,328.46	7,630.00	62.96	83.26	-76.42	287.64	3,896.23	1,018.15	927.13	91.01	11.187		
10,200.00	7,870.00	10,428.46	7,630.00	62.72	83.06	-76.42	187.64	3,895.89	1,018.15	926.59	91.56	11.120		
10,300.00	7,870.00	10,528.46	7,630.00	62.50	82.87	-76.42	87.64	3,895.56	1,018.15	925.93	92.23	11.040		
10,400.00	7,870.00	10,628.46	7,630.00	62.31	82.70	-76.42	-12.36	3,895.22	1,018.15	925.14	93.02	10.946		
10,500.00	7,870.00	10,728.46	7,630.00	62.15	82.55	-76.42	-112.36	3,894.89	1,018.16	924.22	93.93	10.839		
10,600.00	7,870.00	10,828.46	7,630.00	62.01	82.41	-76.42	-212.36	3,894.55	1,018.16	923.20	94.96	10.722		
10,700.00	7,870.00	10,928.46	7,630.00	61.90	82.29	-76.42	-312.36	3,894.21	1,018.16	922.05	96.11	10.594		
10,800.00	7,870.00	11,028.46	7,630.00	61.82	82.20	-76.42	-412.36	3,893.88	1,018.16	920.80	97.36	10.458		
10,900.00	7,870.00	11,128.46	7,630.00	61.78	82.12	-76.42	-512.36	3,893.54	1,018.16	919.44	98.72	10.314		
11,000.00	7,870.00	11,228.46	7,630.00	61.77	82.07	-76.42	-612.36	3,893.21	1,018.16	917.99	100.18	10.164		
11,100.00	7,870.00	11,328.46	7,630.00	61.81	82.03	-76.42	-712.35	3,892.87	1,018.17	916.43	101.73	10.008		
11,200.00	7,870.00	11,428.46	7,630.00	61.90	82.02	-76.42	-812.35	3,892.53	1,018.17	914.79	103.38	9.849		
11,300.00	7,870.00	11,528.46	7,630.00	62.03	82.04	-76.42	-912.35	3,892.20	1,018.17	913.05	105.12	9.686		
11,400.00	7,870.00	11,628.46	7,630.00	62.23	82.08	-76.42	-1,012.35	3,891.86	1,018.17	911.23	106.94	9.521		
11,500.00	7,870.00	11,728.46	7,630.00	62.50	82.14	-76.42	-1,112.35	3,891.53	1,018.17	909.34	108.84	9.355		
11,600.00	7,870.00	11,828.46	7,630.00	62.84	82.24	-76.42	-1,212.35	3,891.19	1,018.18	907.37	110.81	9.188		
11,700.00	7,870.00	11,928.46	7,630.00	63.25	82.37	-76.42	-1,312.35	3,890.85	1,018.18	905.32	112.86	9.022		
11,800.00	7,870.00	12,028.46	7,630.00	63.76	82.53	-76.42	-1,412.35	3,890.52	1,018.18	903.21	114.97	8.856		
11,900.00	7,870.00	12,128.46	7,630.00	64.34	82.72	-76.42	-1,512.35	3,890.18	1,018.18	901.04	117.14	8.692		
12,000.00	7,870.00	12,228.46	7,630.00	65.01	82.95	-76.42	-1,612.35	3,889.85	1,018.18	898.80	119.38	8.529		
12,100.00	7,870.00	12,328.46	7,630.00	65.77	83.22	-76.42	-1,712.35	3,889.51	1,018.18	896.51	121.68	8.368		
12,200.00	7,870.00	12,428.46	7,630.00	66.61	83.54	-76.42	-1,812.35	3,889.17	1,018.19	894.16	124.02	8.210		
12,300.00	7,870.00	12,528.46	7,630.00	67.51	83.89	-76.42	-1,912.35	3,888.84	1,018.19	891.77	126.42	8.054		
12,400.00	7,870.00	12,628.46	7,630.00	68.49	84.30	-76.42	-2,012.35	3,888.50	1,018.19	889.32	128.87	7.901		
12,500.00	7,870.00	12,728.46	7,630.00	69.52	84.75	-76.42	-2,112.35	3,888.17	1,018.19	886.83	131.36	7.751		
12,600.00	7,870.00	12,828.46	7,630.00	70.61	85.25	-76.42	-2,212.35	3,887.83	1,018.19	884.30	133.90	7.604		
12,700.00	7,870.00	12,928.46	7,630.00	71.75	85.80	-76.42	-2,312.35	3,887.49	1,018.19	881.72	136.47	7.461		
12,800.00	7,870.00	13,028.46	7,630.00	72.93	86.40	-76.42	-2,412.35	3,887.16	1,018.20	879.11	139.08	7.321		
12,900.00	7,870.00	13,128.46	7,630.00	74.14	87.05	-76.42	-2,512.34	3,886.82	1,018.20	876.46	141.73	7.184		
13,000.00	7,870.00	13,228.46	7,630.00	75.39	87.76	-76.42	-2,612.34	3,886.49	1,018.20	873.78	144.42	7.050		
13,100.00	7,870.00	13,328.46	7,630.00	76.67	88.52	-76.42	-2,712.34	3,886.15	1,018.20	871.07	147.13	6.920		
13,200.00	7,870.00	13,428.46	7,630.00	77.98	89.33	-76.42	-2,812.34	3,885.81	1,018.20	868.32	149.88	6.794		
13,300.00	7,870.00	13,528.46	7,630.00	79.31	90.19	-76.42	-2,912.34	3,885.48	1,018.20	865.55	152.65	6.670		
13,400.00	7,870.00	13,628.46	7,630.00	80.67	91.10	-76.42	-3,012.34	3,885.14	1,018.21	862.75	155.46	6.550		
13,500.00	7,870.00	13,728.46	7,630.00	82.04	92.06	-76.42	-3,112.34	3,884.81	1,018.21	859.92	158.28	6.433		
13,600.00	7,870.00	13,828.46	7,630.00	83.43	93.05	-76.42	-3,212.34	3,884.47	1,018.21	857.07	161.14	6.319		
13,700.00	7,870.00	13,928.46	7,630.00	84.84	94.09	-76.42	-3,312.34	3,884.14	1,018.21	854.20	164.01	6.208		
13,800.00	7,870.00	14,028.46	7,630.00	86.27	95.17	-76.42	-3,412.34	3,883.80	1,018.21	851.30	166.91	6.100		
13,900.00	7,870.00	14,128.46	7,630.00	87.71	96.29	-76.42	-3,512.34	3,883.46	1,018.22	848.39	169.83	5.996		
14,000.00	7,870.00	14,228.46	7,630.00	89.16	97.44	-76.42	-3,612.34	3,883.13	1,018.22	845.45	172.77	5.894		
14,100.00	7,870.00	14,328.46	7,630.00	90.63	98.62	-76.42	-3,712.34	3,882.79	1,018.22	842.49	175.72	5.794		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	14,428.46	7,630.00	92.10	99.83	-76.42	-3,812.34	3,882.46	1,018.22	839.52	178.70	5.698		
14,300.00	7,870.00	14,528.46	7,630.00	93.59	101.07	-76.42	-3,912.34	3,882.12	1,018.22	836.53	181.69	5.604		
14,400.00	7,870.00	14,628.46	7,630.00	95.09	102.34	-76.42	-4,012.34	3,881.78	1,018.22	833.52	184.70	5.513		
14,500.00	7,870.00	14,728.46	7,630.00	96.60	103.63	-76.42	-4,112.34	3,881.45	1,018.23	830.50	187.72	5.424		
14,600.00	7,870.00	14,828.46	7,630.00	98.11	104.94	-76.42	-4,212.34	3,881.11	1,018.23	827.47	190.76	5.338		
14,700.00	7,870.00	14,928.46	7,630.00	99.64	106.27	-76.42	-4,312.33	3,880.78	1,018.23	824.41	193.81	5.254		
14,800.00	7,870.00	15,028.46	7,630.00	101.17	107.62	-76.42	-4,412.33	3,880.44	1,018.23	821.35	196.88	5.172		
14,900.00	7,870.00	15,128.46	7,630.00	102.71	108.99	-76.42	-4,512.33	3,880.10	1,018.23	818.27	199.96	5.092		
15,000.00	7,870.00	15,228.46	7,630.00	104.26	110.38	-76.42	-4,612.33	3,879.77	1,018.23	815.19	203.05	5.015		
15,100.00	7,870.00	15,328.46	7,630.00	105.82	111.78	-76.42	-4,712.33	3,879.43	1,018.24	812.08	206.15	4.939		
15,200.00	7,870.00	15,428.46	7,630.00	107.38	113.20	-76.42	-4,812.33	3,879.10	1,018.24	808.97	209.26	4.866		
15,300.00	7,870.00	15,528.46	7,630.00	108.95	114.63	-76.42	-4,912.33	3,878.76	1,018.24	805.85	212.39	4.794		
15,400.00	7,870.00	15,628.46	7,630.00	110.52	116.07	-76.42	-5,012.33	3,878.42	1,018.24	802.72	215.52	4.725		
15,500.00	7,870.00	15,728.46	7,630.00	112.10	117.53	-76.42	-5,112.33	3,878.09	1,018.24	799.58	218.67	4.657		
15,600.00	7,870.00	15,828.46	7,630.00	113.69	118.99	-76.43	-5,212.33	3,877.75	1,018.24	796.43	221.82	4.590		
15,700.00	7,870.00	15,928.46	7,630.00	115.28	120.47	-76.43	-5,312.33	3,877.42	1,018.25	793.27	224.98	4.526		
15,800.00	7,870.00	16,028.46	7,630.00	116.87	121.96	-76.43	-5,412.33	3,877.08	1,018.25	790.10	228.15	4.463		
15,900.00	7,870.00	16,128.46	7,630.00	118.47	123.45	-76.43	-5,512.33	3,876.74	1,018.25	786.92	231.33	4.402		
16,000.00	7,870.00	16,228.46	7,630.00	120.07	124.96	-76.43	-5,612.33	3,876.41	1,018.25	783.74	234.52	4.342		
16,100.00	7,870.00	16,328.46	7,630.00	121.68	126.47	-76.43	-5,712.33	3,876.07	1,018.25	780.54	237.71	4.284		
16,200.00	7,870.00	16,428.46	7,630.00	123.30	127.99	-76.43	-5,812.33	3,875.74	1,018.26	777.34	240.91	4.227		
16,300.00	7,870.00	16,528.46	7,630.00	124.91	129.52	-76.43	-5,912.33	3,875.40	1,018.26	774.14	244.12	4.171		
16,400.00	7,870.00	16,628.46	7,630.00	126.53	131.06	-76.43	-6,012.32	3,875.06	1,018.26	770.92	247.33	4.117		
16,500.00	7,870.00	16,728.46	7,630.00	128.16	132.60	-76.43	-6,112.32	3,874.73	1,018.26	767.70	250.56	4.064		
16,600.00	7,870.00	16,828.46	7,630.00	129.79	134.15	-76.43	-6,212.32	3,874.39	1,018.26	764.48	253.78	4.012		
16,700.00	7,870.00	16,928.46	7,630.00	131.42	135.71	-76.43	-6,312.32	3,874.06	1,018.26	761.25	257.02	3.962		
16,800.00	7,870.00	17,028.46	7,630.00	133.05	137.27	-76.43	-6,412.32	3,873.72	1,018.27	758.01	260.26	3.913		
16,900.00	7,870.00	17,128.46	7,630.00	134.69	138.84	-76.43	-6,512.32	3,873.39	1,018.27	754.77	263.50	3.864		
17,000.00	7,870.00	17,228.46	7,630.00	136.33	140.41	-76.43	-6,612.32	3,873.05	1,018.27	751.52	266.75	3.817		
17,100.00	7,870.00	17,328.46	7,630.00	137.97	141.99	-76.43	-6,712.32	3,872.71	1,018.27	748.27	270.00	3.771		
17,200.00	7,870.00	17,428.46	7,630.00	139.62	143.58	-76.43	-6,812.32	3,872.38	1,018.27	745.01	273.26	3.726		
17,300.00	7,870.00	17,528.46	7,630.00	141.27	145.16	-76.43	-6,912.32	3,872.04	1,018.27	741.74	276.53	3.682		
17,400.00	7,870.00	17,628.46	7,630.00	142.92	146.76	-76.43	-7,012.32	3,871.71	1,018.28	738.48	279.80	3.639		
17,500.00	7,870.00	17,728.46	7,630.00	144.58	148.35	-76.43	-7,112.32	3,871.37	1,018.28	735.21	283.07	3.597		
17,600.00	7,870.00	17,828.46	7,630.00	146.23	149.95	-76.43	-7,212.32	3,871.03	1,018.28	731.93	286.35	3.556		
17,700.00	7,870.00	17,928.46	7,630.00	147.89	151.56	-76.43	-7,312.32	3,870.70	1,018.28	728.65	289.63	3.516		
17,800.00	7,870.00	18,028.46	7,630.00	149.56	153.17	-76.43	-7,412.32	3,870.36	1,018.28	725.36	292.92	3.476		
17,900.00	7,870.00	18,128.46	7,630.00	151.22	154.78	-76.43	-7,512.32	3,870.03	1,018.28	722.08	296.21	3.438		
18,000.00	7,870.00	18,228.46	7,630.00	152.89	156.40	-76.43	-7,612.32	3,869.69	1,018.29	718.78	299.50	3.400		
18,100.00	7,870.00	18,328.46	7,630.00	154.55	158.02	-76.43	-7,712.32	3,869.35	1,018.29	715.49	302.80	3.363		
18,200.00	7,870.00	18,428.46	7,630.00	156.22	159.64	-76.43	-7,812.31	3,869.02	1,018.29	712.19	306.10	3.327		
18,300.00	7,870.00	18,528.46	7,630.00	157.90	161.27	-76.43	-7,912.31	3,868.68	1,018.29	708.89	309.40	3.291		
18,400.00	7,870.00	18,628.46	7,630.00	159.57	162.90	-76.43	-8,012.31	3,868.35	1,018.29	705.58	312.71	3.256		
18,500.00	7,870.00	18,728.46	7,630.00	161.25	164.53	-76.43	-8,112.31	3,868.01	1,018.30	702.27	316.02	3.222		
18,600.00	7,870.00	18,828.46	7,630.00	162.93	166.16	-76.43	-8,212.31	3,867.67	1,018.30	698.96	319.34	3.189		
18,700.00	7,870.00	18,928.46	7,630.00	164.60	167.80	-76.43	-8,312.31	3,867.34	1,018.30	695.64	322.65	3.156		
18,709.16	7,870.00	18,937.62	7,630.00	164.76	167.95	-76.43	-8,321.47	3,867.31	1,018.30	695.34	322.96	3.153		
18,797.52	7,870.00	19,021.79	7,630.00	166.24	169.33	-76.43	-8,405.64	3,867.02	1,018.31	692.17	326.14	3.122 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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 11-22H-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	1.00	-1.00	0.00	0.00	90.52	-0.36	39.76	39.76					
100.00	100.00	101.00	99.00	0.13	0.14	90.52	-0.36	39.76	39.76	39.49	0.27	145.949		
200.00	200.00	201.00	199.00	0.49	0.50	90.52	-0.36	39.76	39.76	38.77	0.99	40.189		
300.00	300.00	301.00	299.00	0.85	0.85	90.52	-0.36	39.76	39.76	38.06	1.71	23.303		
400.00	400.00	401.00	399.00	1.21	1.21	90.52	-0.36	39.76	39.76	37.34	2.42	16.408		
500.00	500.00	501.00	499.00	1.57	1.57	90.52	-0.36	39.76	39.76	36.62	3.14	12.662		
600.00	600.00	599.00	599.00	1.93	1.92	90.52	-0.36	39.76	39.76	35.91	3.85	10.328	CC, ES	
700.00	700.00	697.75	697.73	2.29	2.27	89.48	0.37	41.26	41.28	36.72	4.56	9.057		
800.00	800.00	796.26	796.10	2.64	2.62	86.75	2.60	45.79	45.96	40.70	5.26	8.740		
900.00	900.00	894.30	893.78	3.00	2.98	83.26	6.30	53.31	53.94	47.98	5.95	9.058		
1,000.00	1,000.00	991.65	990.44	3.36	3.34	79.84	11.43	63.75	65.33	58.69	6.64	9.834		
1,100.00	1,099.98	1,088.37	1,086.01	3.72	3.72	22.63	17.96	77.03	78.56	71.24	7.32	10.736		
1,200.00	1,199.84	1,184.66	1,180.61	4.07	4.12	21.12	25.87	93.11	91.93	83.95	7.98	11.522		
1,300.00	1,299.45	1,280.51	1,274.13	4.43	4.54	20.27	35.13	111.95	105.37	96.73	8.64	12.201		
1,400.00	1,398.70	1,375.93	1,366.48	4.80	4.99	19.87	45.71	133.49	118.81	109.52	9.29	12.790		
1,500.00	1,497.47	1,470.94	1,457.58	5.18	5.48	19.77	57.60	157.66	132.24	122.30	9.94	13.300		
1,600.00	1,595.62	1,565.53	1,547.35	5.57	6.01	19.88	70.74	184.40	145.63	135.03	10.60	13.742		
1,700.00	1,693.06	1,659.72	1,635.72	6.00	6.58	20.16	85.13	213.66	158.98	147.72	11.26	14.122		
1,800.00	1,789.64	1,753.51	1,722.59	6.45	7.19	20.55	100.72	245.37	172.28	160.36	11.93	14.447		
1,900.00	1,885.27	1,846.91	1,807.91	6.94	7.85	21.04	117.48	279.46	185.53	172.92	12.61	14.717		
2,000.00	1,979.82	1,939.93	1,891.60	7.47	8.56	21.60	135.38	315.88	198.71	185.41	13.30	14.936		
2,100.00	2,073.17	2,032.57	1,973.61	8.05	9.33	22.21	154.40	354.56	211.84	197.81	14.03	15.102		
2,200.00	2,165.21	2,124.85	2,053.86	8.67	10.15	22.87	174.49	395.43	224.91	210.13	14.78	15.217		
2,300.00	2,255.84	2,216.78	2,132.31	9.35	11.02	23.57	195.63	438.43	237.91	222.34	15.57	15.281		
2,400.00	2,344.94	2,308.36	2,208.89	10.09	11.94	24.30	217.79	483.49	250.86	234.45	16.41	15.291		
2,500.00	2,432.39	2,399.60	2,283.56	10.89	12.92	25.05	240.92	530.55	263.74	246.45	17.29	15.250		
2,519.29	2,449.07	2,417.17	2,297.74	11.05	13.12	25.20	245.49	539.85	266.22	248.75	17.47	15.236		
2,600.00	2,518.69	2,496.00	2,361.05	11.74	14.02	25.91	266.22	582.00	276.91	258.52	18.39	15.060		
2,700.00	2,604.95	2,595.02	2,440.56	12.62	15.16	26.72	292.26	634.97	290.24	270.64	19.59	14.812		
2,800.00	2,691.22	2,705.95	2,520.07	13.52	16.46	27.47	318.30	687.95	303.62	282.71	20.91	14.519		
2,900.00	2,777.48	2,793.08	2,599.58	14.43	17.49	28.15	344.34	740.92	317.05	294.93	22.12	14.334		
3,000.00	2,863.75	2,907.90	2,679.09	15.35	18.85	28.78	370.39	793.89	330.52	306.99	23.53	14.049		
3,100.00	2,950.01	3,008.87	2,758.61	16.28	20.06	29.35	396.43	846.86	344.02	319.15	24.87	13.831		
3,200.00	3,036.27	3,090.16	2,838.12	17.22	21.04	29.89	422.47	899.83	357.56	331.44	26.12	13.691		
3,300.00	3,122.54	3,189.18	2,917.63	18.17	22.24	30.38	448.51	952.81	371.12	343.63	27.49	13.498		
3,400.00	3,208.80	3,288.21	2,997.14	19.13	23.44	30.84	474.56	1,005.78	384.71	355.82	28.89	13.316		
3,500.00	3,295.07	3,387.24	3,076.65	20.09	24.65	31.27	500.60	1,058.75	398.32	368.02	30.30	13.145		
3,600.00	3,381.33	3,486.26	3,156.16	21.05	25.86	31.67	526.64	1,111.72	411.96	380.23	31.73	12.983		
3,700.00	3,467.59	3,585.29	3,235.67	22.02	27.07	32.05	552.69	1,164.69	425.61	392.44	33.17	12.831		
3,800.00	3,553.86	3,684.32	3,315.18	22.99	28.29	32.40	578.73	1,217.67	439.28	404.65	34.62	12.688		
3,900.00	3,640.12	3,783.34	3,394.69	23.97	29.50	32.73	604.77	1,270.64	452.96	416.87	36.09	12.552		
4,000.00	3,726.38	3,882.37	3,474.21	24.95	30.72	33.04	630.81	1,323.61	466.66	429.10	37.56	12.425		
4,100.00	3,812.65	3,981.40	3,553.72	25.93	31.94	33.33	656.86	1,376.58	480.37	441.33	39.04	12.305		
4,200.00	3,898.91	4,080.42	3,633.23	26.91	33.17	33.61	682.90	1,429.56	494.09	453.56	40.53	12.191		
4,300.00	3,985.18	4,179.45	3,712.74	27.90	34.39	33.87	708.94	1,482.53	507.82	465.79	42.03	12.083		
4,400.00	4,071.44	4,278.48	3,792.25	28.88	35.61	34.12	734.98	1,535.50	521.56	478.03	43.53	11.982		
4,500.00	4,157.70	4,377.51	3,871.76	29.87	36.84	34.35	761.03	1,588.47	535.31	490.27	45.04	11.885		
4,600.00	4,243.97	4,476.53	3,951.27	30.86	38.07	34.58	787.07	1,641.44	549.07	502.52	46.56	11.794		
4,700.00	4,330.23	4,575.56	4,030.78	31.85	39.29	34.79	813.11	1,694.42	562.84	514.76	48.08	11.707		
4,800.00	4,416.49	4,674.59	4,110.29	32.84	40.52	34.99	839.15	1,747.39	576.62	527.01	49.60	11.625		
4,900.00	4,502.76	4,773.61	4,189.81	33.84	41.75	35.18	865.20	1,800.36	590.40	539.26	51.13	11.546		
5,000.00	4,589.02	4,872.64	4,269.32	34.83	42.98	35.37	891.24	1,853.33	604.18	551.52	52.67	11.472		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,971.67	4,348.83	35.82	44.21	35.54	917.28	1,906.30	617.98	563.77	54.21	11.401		
5,200.00	4,761.55	5,070.69	4,428.34	36.82	45.44	35.71	943.32	1,959.28	631.78	576.03	55.75	11.333		
5,300.00	4,847.81	5,169.72	4,507.85	37.82	46.68	35.87	969.37	2,012.25	645.58	588.29	57.29	11.268		
5,400.00	4,934.08	5,268.75	4,587.36	38.81	47.91	36.03	995.41	2,065.22	659.39	600.55	58.84	11.206		
5,500.00	5,020.34	5,367.77	4,666.87	39.81	49.14	36.18	1,021.45	2,118.19	673.20	612.81	60.39	11.147		
5,600.00	5,106.60	5,466.80	4,746.38	40.81	50.37	36.32	1,047.49	2,171.16	687.02	625.08	61.95	11.091		
5,700.00	5,192.87	5,565.83	4,825.90	41.81	51.61	36.45	1,073.54	2,224.14	700.84	637.34	63.50	11.037		
5,800.00	5,279.13	5,664.85	4,905.41	42.81	52.84	36.59	1,099.58	2,277.11	714.67	649.61	65.06	10.985		
5,900.00	5,365.40	5,763.88	4,984.92	43.81	54.08	36.71	1,125.62	2,330.08	728.50	661.88	66.62	10.935		
6,000.00	5,451.66	5,862.91	5,064.43	44.81	55.31	36.83	1,151.66	2,383.05	742.33	674.14	68.18	10.887		
6,100.00	5,537.92	5,961.93	5,143.94	45.81	56.55	36.95	1,177.71	2,436.03	756.16	686.42	69.75	10.841		
6,200.00	5,624.19	6,060.96	5,223.45	46.81	57.78	37.06	1,203.75	2,489.00	770.00	698.69	71.32	10.797		
6,300.00	5,710.45	6,159.99	5,302.96	47.81	59.02	37.17	1,229.79	2,541.97	783.84	710.96	72.89	10.754		
6,400.00	5,796.72	6,259.01	5,382.47	48.81	60.25	37.28	1,255.84	2,594.94	797.69	723.23	74.46	10.714		
6,500.00	5,882.98	6,358.04	5,461.98	49.81	61.49	37.38	1,281.88	2,647.91	811.54	735.51	76.03	10.674		
6,600.00	5,969.24	6,457.07	5,541.50	50.82	62.72	37.48	1,307.92	2,700.89	825.38	747.78	77.60	10.636		
6,700.00	6,055.51	6,556.09	5,621.01	51.82	63.96	37.57	1,333.96	2,753.86	839.24	760.06	79.18	10.600		
6,800.00	6,141.77	6,655.12	5,700.52	52.82	65.20	37.66	1,360.01	2,806.83	853.09	772.34	80.75	10.564		
6,900.00	6,228.03	6,754.15	5,780.03	53.83	66.43	37.75	1,386.05	2,859.80	866.94	784.61	82.33	10.530		
7,000.00	6,314.30	6,853.17	5,859.54	54.83	67.67	37.84	1,412.09	2,912.77	880.80	796.89	83.91	10.497		
7,100.00	6,400.56	6,952.20	5,939.05	55.83	68.91	37.92	1,438.13	2,965.75	894.66	809.17	85.49	10.465		
7,200.00	6,486.83	7,051.23	6,018.56	56.84	70.14	38.00	1,464.18	3,018.72	908.52	821.45	87.07	10.435		
7,300.00	6,573.09	7,150.25	6,098.07	57.84	71.38	38.08	1,490.22	3,071.69	922.38	833.73	88.65	10.405		
7,400.00	6,659.35	7,249.28	6,177.58	58.84	72.62	38.16	1,516.26	3,124.66	936.25	846.02	90.23	10.376		
7,500.00	6,745.62	7,348.31	6,257.10	59.85	73.86	38.23	1,542.30	3,177.63	950.12	858.30	91.82	10.348		
7,600.00	6,831.88	7,447.33	6,336.61	60.85	75.09	38.30	1,568.35	3,230.61	963.98	870.58	93.40	10.321		
7,700.00	6,918.14	7,546.36	6,416.12	61.86	76.33	38.37	1,594.39	3,283.58	977.85	882.87	94.99	10.295		
7,800.00	7,004.41	7,645.39	6,495.63	62.86	77.57	38.44	1,620.43	3,336.55	991.72	895.15	96.57	10.269		
7,900.00	7,090.67	7,744.41	6,575.14	63.87	78.81	38.51	1,646.47	3,389.52	1,005.59	907.43	98.16	10.244		
8,000.00	7,176.94	7,843.44	6,654.65	64.87	80.05	38.57	1,672.52	3,442.50	1,019.47	919.72	99.75	10.220		
8,027.52	7,200.68	7,870.69	6,676.54	65.15	80.39	38.59	1,679.68	3,457.07	1,023.29	923.10	100.18	10.214		
8,050.00	7,220.18	7,892.96	6,694.41	65.37	80.67	35.49	1,685.54	3,468.98	1,026.35	925.84	100.51	10.212		
8,100.00	7,264.25	7,942.40	6,734.11	65.85	81.28	27.41	1,698.54	3,495.43	1,032.78	931.81	100.97	10.229		
8,150.00	7,308.99	8,008.58	6,773.47	66.28	82.11	17.90	1,711.43	3,521.65	1,038.66	937.46	101.20	10.263		
8,200.00	7,354.07	8,039.64	6,812.19	66.67	82.50	7.42	1,724.12	3,547.45	1,044.05	943.24	100.81	10.356		
8,250.00	7,399.14	8,086.70	6,849.97	67.02	83.09	-3.26	1,736.49	3,572.62	1,049.06	948.85	100.20	10.469		
8,300.00	7,443.85	8,132.23	6,886.53	67.32	83.66	-13.41	1,748.47	3,596.98	1,053.82	954.57	99.25	10.618		
8,350.00	7,487.88	8,175.90	6,921.59	67.56	84.20	-22.53	1,759.95	3,620.34	1,058.53	960.54	97.98	10.803		
8,400.00	7,530.87	8,217.36	6,954.88	67.75	84.72	-30.41	1,770.85	3,642.52	1,063.39	966.97	96.43	11.028		
8,450.00	7,572.51	8,256.31	6,986.15	67.90	85.21	-37.05	1,781.10	3,663.35	1,068.66	974.03	94.63	11.293		
8,500.00	7,612.48	8,307.56	7,015.17	68.00	85.85	-42.58	1,790.60	3,682.68	1,074.56	981.81	92.74	11.587		
8,550.00	7,650.47	8,325.48	7,041.70	68.05	86.07	-47.09	1,799.29	3,700.35	1,081.33	990.80	90.53	11.944		
8,600.00	7,686.20	8,355.19	7,065.55	68.06	86.45	-50.72	1,807.10	3,716.24	1,089.21	1,000.83	88.39	12.323		
8,650.00	7,719.39	8,381.33	7,086.54	68.03	86.77	-53.52	1,813.97	3,730.23	1,098.39	1,012.10	86.29	12.729		
8,700.00	7,749.79	8,403.70	7,104.50	67.97	87.05	-55.57	1,819.86	3,742.20	1,109.03	1,024.69	84.34	13.149		
8,750.00	7,777.17	8,422.14	7,119.31	67.87	87.28	-56.91	1,824.71	3,752.06	1,121.23	1,038.60	82.63	13.570		
8,800.00	7,801.32	8,436.50	7,130.84	67.74	87.46	-57.55	1,828.48	3,759.74	1,135.05	1,053.83	81.22	13.974		
8,850.00	7,822.06	8,446.68	7,139.01	67.59	87.59	-57.54	1,831.16	3,765.19	1,150.48	1,070.29	80.19	14.346		
8,900.00	7,839.23	8,452.60	7,143.76	67.41	87.66	-56.89	1,832.72	3,768.35	1,167.45	1,087.88	79.57	14.672		
8,950.00	7,852.69	8,454.21	7,145.05	67.22	87.68	-55.64	1,833.14	3,769.21	1,185.84	1,106.48	79.36	14.942		
9,000.00	7,862.35	8,451.50	7,142.88	67.00	87.65	-53.82	1,832.43	3,767.76	1,205.46	1,125.91	79.55	15.154		
9,050.00	7,868.14	8,444.49	7,137.25	66.78	87.56	-51.50	1,830.58	3,764.01	1,226.07	1,145.99	80.08	15.311		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,433.59	7,128.50	66.55	87.43	-48.82	1,827.72	3,758.18	1,246.82	1,165.94	80.88	15.416		
9,100.00	7,870.00	8,433.23	7,128.21	66.55	87.42	-48.80	1,827.62	3,757.99	1,247.40	1,166.50	80.90	15.419		
9,200.00	7,870.00	8,406.75	7,106.95	66.09	87.09	-47.52	1,820.66	3,743.83	1,293.53	1,210.27	83.26	15.537		
9,300.00	7,870.00	9,908.21	7,870.00	65.65	92.75	-90.04	1,086.44	4,248.87	1,339.64	1,251.76	87.88	15.244		
9,400.00	7,870.00	10,008.21	7,870.00	65.24	92.43	-90.04	986.44	4,248.53	1,339.64	1,252.55	87.09	15.382		
9,500.00	7,870.00	10,108.21	7,870.00	64.85	92.13	-90.04	886.44	4,248.20	1,339.64	1,253.21	86.44	15.498		
9,600.00	7,870.00	10,208.21	7,870.00	64.48	91.85	-90.04	786.44	4,247.86	1,339.64	1,253.72	85.92	15.591		
9,700.00	7,870.00	10,308.21	7,870.00	64.13	91.58	-90.04	686.45	4,247.52	1,339.64	1,254.09	85.56	15.658		
9,800.00	7,870.00	10,408.21	7,870.00	63.80	91.32	-90.04	586.45	4,247.18	1,339.64	1,254.31	85.33	15.699		
9,900.00	7,870.00	10,508.21	7,870.00	63.50	91.09	-90.04	486.45	4,246.85	1,339.65	1,254.39	85.25	15.713		
10,000.00	7,870.00	10,608.21	7,870.00	63.22	90.86	-90.04	386.45	4,246.51	1,339.65	1,254.32	85.32	15.701		
10,100.00	7,870.00	10,708.21	7,870.00	62.96	90.66	-90.04	286.45	4,246.17	1,339.65	1,254.11	85.54	15.661		
10,200.00	7,870.00	10,808.21	7,870.00	62.72	90.47	-90.04	186.45	4,245.84	1,339.65	1,253.75	85.90	15.595		
10,300.00	7,870.00	10,908.21	7,870.00	62.50	90.29	-90.04	86.45	4,245.50	1,339.65	1,253.24	86.41	15.504		
10,400.00	7,870.00	11,008.21	7,870.00	62.31	90.13	-90.04	-13.55	4,245.16	1,339.65	1,252.60	87.05	15.389		
10,500.00	7,870.00	11,108.21	7,870.00	62.15	89.99	-90.04	-113.55	4,244.82	1,339.65	1,251.81	87.84	15.252		
10,600.00	7,870.00	11,208.21	7,870.00	62.01	89.87	-90.04	-213.55	4,244.49	1,339.65	1,250.90	88.75	15.094		
10,700.00	7,870.00	11,308.21	7,870.00	61.90	89.76	-90.04	-313.55	4,244.15	1,339.65	1,249.85	89.80	14.918		
10,800.00	7,870.00	11,408.21	7,870.00	61.82	89.67	-90.04	-413.55	4,243.81	1,339.65	1,248.68	90.97	14.726		
10,900.00	7,870.00	11,491.79	7,870.00	61.78	89.61	-90.04	-513.55	4,243.47	1,339.65	1,247.49	92.16	14.536		
11,000.00	7,870.00	11,608.21	7,870.00	61.77	89.55	-90.04	-613.55	4,243.14	1,339.65	1,245.98	93.68	14.301		
11,100.00	7,870.00	11,708.21	7,870.00	61.81	89.51	-90.04	-713.55	4,242.80	1,339.65	1,244.46	95.19	14.073		
11,200.00	7,870.00	11,808.21	7,870.00	61.90	89.50	-90.04	-813.55	4,242.46	1,339.65	1,242.83	96.82	13.837		
11,300.00	7,870.00	11,908.21	7,870.00	62.03	89.51	-90.04	-913.55	4,242.13	1,339.65	1,241.11	98.54	13.594		
11,400.00	7,870.00	12,008.21	7,870.00	62.23	89.54	-90.04	-1,013.55	4,241.79	1,339.65	1,239.29	100.36	13.348		
11,500.00	7,870.00	12,108.21	7,870.00	62.50	89.59	-90.04	-1,113.54	4,241.45	1,339.65	1,237.38	102.27	13.099		
11,600.00	7,870.00	12,208.21	7,870.00	62.84	89.67	-90.04	-1,213.54	4,241.11	1,339.65	1,235.39	104.27	12.848		
11,700.00	7,870.00	12,308.21	7,870.00	63.25	89.78	-90.04	-1,313.54	4,240.78	1,339.66	1,233.31	106.34	12.598		
11,800.00	7,870.00	12,408.21	7,870.00	63.76	89.91	-90.04	-1,413.54	4,240.44	1,339.66	1,231.16	108.49	12.348		
11,900.00	7,870.00	12,508.21	7,870.00	64.34	90.07	-90.04	-1,513.54	4,240.10	1,339.66	1,228.94	110.71	12.100		
12,000.00	7,870.00	12,608.21	7,870.00	65.01	90.25	-90.04	-1,613.54	4,239.77	1,339.66	1,226.66	113.00	11.855		
12,100.00	7,870.00	12,708.21	7,870.00	65.77	90.48	-90.04	-1,713.54	4,239.43	1,339.66	1,224.31	115.35	11.614		
12,200.00	7,870.00	12,808.21	7,870.00	66.61	90.73	-90.04	-1,813.54	4,239.09	1,339.66	1,221.90	117.76	11.376		
12,300.00	7,870.00	12,908.21	7,870.00	67.51	91.02	-90.04	-1,913.54	4,238.75	1,339.66	1,219.43	120.22	11.143		
12,400.00	7,870.00	13,008.21	7,870.00	68.49	91.34	-90.04	-2,013.54	4,238.42	1,339.66	1,216.92	122.74	10.915		
12,500.00	7,870.00	13,108.21	7,870.00	69.52	91.71	-90.04	-2,113.54	4,238.08	1,339.66	1,214.35	125.31	10.691		
12,600.00	7,870.00	13,208.21	7,870.00	70.61	92.11	-90.04	-2,213.54	4,237.74	1,339.66	1,211.74	127.92	10.473		
12,700.00	7,870.00	13,308.21	7,870.00	71.75	92.56	-90.04	-2,313.54	4,237.41	1,339.66	1,209.09	130.58	10.260		
12,800.00	7,870.00	13,408.21	7,870.00	72.93	93.04	-90.04	-2,413.54	4,237.07	1,339.66	1,206.39	133.27	10.052		
12,900.00	7,870.00	13,508.21	7,870.00	74.14	93.57	-90.04	-2,513.54	4,236.73	1,339.66	1,203.66	136.01	9.850		
13,000.00	7,870.00	13,608.21	7,870.00	75.39	94.15	-90.04	-2,613.54	4,236.39	1,339.66	1,200.89	138.78	9.653		
13,100.00	7,870.00	13,708.21	7,870.00	76.67	94.77	-90.04	-2,713.54	4,236.06	1,339.66	1,198.08	141.58	9.462		
13,200.00	7,870.00	13,808.21	7,870.00	77.98	95.44	-90.04	-2,813.53	4,235.72	1,339.66	1,195.24	144.42	9.276		
13,300.00	7,870.00	13,908.21	7,870.00	79.31	96.15	-90.04	-2,913.53	4,235.38	1,339.66	1,192.38	147.29	9.096		
13,400.00	7,870.00	13,991.79	7,870.00	80.67	96.78	-90.04	-3,013.53	4,235.05	1,339.66	1,189.72	149.95	8.934		
13,500.00	7,870.00	14,108.21	7,870.00	82.04	97.71	-90.04	-3,113.53	4,234.71	1,339.66	1,186.56	153.10	8.750		
13,600.00	7,870.00	14,208.21	7,870.00	83.43	98.56	-90.04	-3,213.53	4,234.37	1,339.67	1,183.61	156.05	8.585		
13,700.00	7,870.00	14,308.21	7,870.00	84.84	99.44	-90.04	-3,313.53	4,234.03	1,339.67	1,180.64	159.02	8.424		
13,800.00	7,870.00	14,408.21	7,870.00	86.27	100.37	-90.04	-3,413.53	4,233.70	1,339.67	1,177.65	162.02	8.269		
13,900.00	7,870.00	14,508.21	7,870.00	87.71	101.34	-90.04	-3,513.53	4,233.36	1,339.67	1,174.64	165.03	8.118		
14,000.00	7,870.00	14,608.21	7,870.00	89.16	102.35	-90.04	-3,613.53	4,233.02	1,339.67	1,171.60	168.07	7.971		
14,100.00	7,870.00	14,708.21	7,870.00	90.63	103.40	-90.04	-3,713.53	4,232.69	1,339.67	1,168.55	171.12	7.829		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	14,808.21	7,870.00	92.10	104.47	-90.04	-3,813.53	4,232.35	1,339.67	1,165.47	174.19	7.691		
14,300.00	7,870.00	14,908.21	7,870.00	93.59	105.59	-90.04	-3,913.53	4,232.01	1,339.67	1,162.39	177.28	7.557		
14,400.00	7,870.00	15,008.21	7,870.00	95.09	106.73	-90.04	-4,013.53	4,231.67	1,339.67	1,159.28	180.39	7.426		
14,500.00	7,870.00	15,091.79	7,870.00	96.60	107.71	-90.04	-4,113.53	4,231.34	1,339.67	1,156.41	183.26	7.310		
14,600.00	7,870.00	15,208.21	7,870.00	98.11	109.10	-90.04	-4,213.53	4,231.00	1,339.67	1,153.02	186.65	7.177		
14,700.00	7,870.00	15,308.21	7,870.00	99.64	110.32	-90.04	-4,313.53	4,230.66	1,339.67	1,149.87	189.80	7.058		
14,800.00	7,870.00	15,408.21	7,870.00	101.17	111.57	-90.04	-4,413.53	4,230.33	1,339.67	1,146.71	192.96	6.943		
14,900.00	7,870.00	15,491.79	7,870.00	102.71	112.64	-90.04	-4,513.53	4,229.99	1,339.67	1,143.79	195.88	6.839		
15,000.00	7,870.00	15,608.21	7,870.00	104.26	114.14	-90.04	-4,613.52	4,229.65	1,339.67	1,140.35	199.33	6.721		
15,100.00	7,870.00	15,691.79	7,870.00	105.82	115.24	-90.04	-4,713.52	4,229.31	1,339.67	1,137.41	202.27	6.623		
15,200.00	7,870.00	15,808.21	7,870.00	107.38	116.79	-90.04	-4,813.52	4,228.98	1,339.67	1,133.94	205.74	6.512		
15,300.00	7,870.00	15,891.79	7,870.00	108.95	117.91	-90.04	-4,913.52	4,228.64	1,339.67	1,130.98	208.70	6.419		
15,400.00	7,870.00	16,008.21	7,870.00	110.52	119.50	-90.04	-5,013.52	4,228.30	1,339.68	1,127.48	212.19	6.314		
15,500.00	7,870.00	16,091.79	7,870.00	112.10	120.66	-90.04	-5,113.52	4,227.97	1,339.68	1,124.51	215.17	6.226		
15,600.00	7,870.00	16,208.21	7,870.00	113.69	122.28	-90.04	-5,213.52	4,227.63	1,339.68	1,120.99	218.68	6.126		
15,700.00	7,870.00	16,308.21	7,870.00	115.28	123.69	-90.04	-5,313.52	4,227.29	1,339.68	1,117.74	221.94	6.036		
15,800.00	7,870.00	16,408.21	7,870.00	116.87	125.12	-90.04	-5,413.52	4,226.95	1,339.68	1,114.47	225.21	5.949		
15,900.00	7,870.00	16,508.21	7,870.00	118.47	126.55	-90.04	-5,513.52	4,226.62	1,339.68	1,111.20	228.48	5.863		
16,000.00	7,870.00	16,608.21	7,870.00	120.07	128.00	-90.04	-5,613.52	4,226.28	1,339.68	1,107.91	231.76	5.780		
16,100.00	7,870.00	16,708.21	7,870.00	121.68	129.46	-90.04	-5,713.52	4,225.94	1,339.68	1,104.62	235.05	5.699		
16,200.00	7,870.00	16,808.21	7,870.00	123.30	130.93	-90.04	-5,813.52	4,225.60	1,339.68	1,101.33	238.35	5.621		
16,300.00	7,870.00	16,908.21	7,870.00	124.91	132.41	-90.04	-5,913.52	4,225.27	1,339.68	1,098.03	241.65	5.544		
16,400.00	7,870.00	17,008.21	7,870.00	126.53	133.89	-90.04	-6,013.52	4,224.93	1,339.68	1,094.72	244.96	5.469		
16,500.00	7,870.00	17,108.21	7,870.00	128.16	135.39	-90.04	-6,113.52	4,224.59	1,339.68	1,091.40	248.28	5.396		
16,600.00	7,870.00	17,208.21	7,870.00	129.79	136.89	-90.04	-6,213.52	4,224.26	1,339.68	1,088.08	251.60	5.325		
16,700.00	7,870.00	17,308.21	7,870.00	131.42	138.41	-90.04	-6,313.52	4,223.92	1,339.68	1,084.75	254.93	5.255		
16,800.00	7,870.00	17,408.21	7,870.00	133.05	139.93	-90.04	-6,413.51	4,223.58	1,339.68	1,081.42	258.26	5.187		
16,900.00	7,870.00	17,508.21	7,870.00	134.69	141.46	-90.04	-6,513.51	4,223.24	1,339.68	1,078.08	261.60	5.121		
17,000.00	7,870.00	17,608.21	7,870.00	136.33	142.99	-90.04	-6,613.51	4,222.91	1,339.68	1,074.74	264.95	5.056		
17,100.00	7,870.00	17,708.21	7,870.00	137.97	144.53	-90.04	-6,713.51	4,222.57	1,339.68	1,071.39	268.29	4.993		
17,200.00	7,870.00	17,808.21	7,870.00	139.62	146.08	-90.04	-6,813.51	4,222.23	1,339.69	1,068.04	271.65	4.932		
17,300.00	7,870.00	17,908.21	7,870.00	141.27	147.63	-90.04	-6,913.51	4,221.90	1,339.69	1,064.68	275.01	4.871		
17,400.00	7,870.00	18,008.21	7,870.00	142.92	149.19	-90.04	-7,013.51	4,221.56	1,339.69	1,061.32	278.37	4.813		
17,500.00	7,870.00	18,108.21	7,870.00	144.58	150.75	-90.04	-7,113.51	4,221.22	1,339.69	1,057.95	281.73	4.755		
17,600.00	7,870.00	18,208.21	7,870.00	146.23	152.32	-90.04	-7,213.51	4,220.88	1,339.69	1,054.58	285.10	4.699		
17,700.00	7,870.00	18,308.21	7,870.00	147.89	153.90	-90.04	-7,313.51	4,220.55	1,339.69	1,051.21	288.48	4.644		
17,800.00	7,870.00	18,408.21	7,870.00	149.56	155.48	-90.04	-7,413.51	4,220.21	1,339.69	1,047.83	291.86	4.590		
17,900.00	7,870.00	18,508.21	7,870.00	151.22	157.06	-90.04	-7,513.51	4,219.87	1,339.69	1,044.45	295.24	4.538		
18,000.00	7,870.00	18,608.21	7,870.00	152.89	158.65	-90.04	-7,613.51	4,219.54	1,339.69	1,041.07	298.62	4.486		
18,100.00	7,870.00	18,708.21	7,870.00	154.55	160.24	-90.04	-7,713.51	4,219.20	1,339.69	1,037.68	302.01	4.436		
18,200.00	7,870.00	18,808.21	7,870.00	156.22	161.84	-90.04	-7,813.51	4,218.86	1,339.69	1,034.29	305.41	4.387		
18,300.00	7,870.00	18,908.21	7,870.00	157.90	163.44	-90.04	-7,913.51	4,218.52	1,339.69	1,030.89	308.80	4.338		
18,400.00	7,870.00	19,008.21	7,870.00	159.57	165.04	-90.04	-8,013.51	4,218.19	1,339.69	1,027.49	312.20	4.291		
18,500.00	7,870.00	19,108.21	7,870.00	161.25	166.65	-90.04	-8,113.50	4,217.85	1,339.69	1,024.09	315.60	4.245		
18,600.00	7,870.00	19,208.21	7,870.00	162.93	168.26	-90.04	-8,213.50	4,217.51	1,339.69	1,020.69	319.00	4.200		
18,700.00	7,870.00	19,291.79	7,870.00	164.60	169.61	-90.04	-8,313.50	4,217.18	1,339.69	1,017.56	322.13	4.159		
18,797.52	7,870.00	19,389.31	7,870.00	166.24	171.19	-90.04	-8,411.02	4,216.85	1,339.69	1,014.24	325.46	4.116 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	90.42	-0.36	49.84	49.84					
100.00	100.00	102.00	98.00	0.13	0.14	90.42	-0.36	49.84	49.84	49.57	0.28	180.571		
200.00	200.00	202.00	198.00	0.49	0.50	90.42	-0.36	49.84	49.84	48.85	0.99	50.195		
300.00	300.00	302.00	298.00	0.85	0.86	90.42	-0.36	49.84	49.84	48.13	1.71	29.149		
400.00	400.00	402.00	398.00	1.21	1.22	90.42	-0.36	49.84	49.84	47.41	2.43	20.538		
500.00	500.00	498.00	498.00	1.57	1.56	90.42	-0.36	49.84	49.84	46.71	3.13	15.927 CC, ES		
600.00	600.00	596.44	596.42	1.93	1.91	89.65	0.31	51.32	51.34	47.50	3.84	13.383		
700.00	700.00	694.63	694.48	2.29	2.26	87.55	2.39	55.85	56.01	51.47	4.54	12.342		
800.00	800.00	792.36	791.85	2.64	2.61	84.73	5.85	63.39	63.95	58.72	5.24	12.214		
900.00	900.00	889.41	888.21	3.00	2.98	81.79	10.66	73.86	75.26	69.33	5.93	12.695		
1,000.00	1,000.00	985.57	983.25	3.36	3.36	79.12	16.76	87.15	89.97	83.35	6.61	13.607		
1,100.00	1,099.98	1,080.95	1,076.98	3.72	3.76	22.44	24.12	103.20	106.46	99.18	7.28	14.623		
1,200.00	1,199.84	1,175.81	1,169.56	4.07	4.18	21.22	32.73	121.95	123.04	115.11	7.94	15.503		
1,300.00	1,299.45	1,270.16	1,260.91	4.43	4.63	20.54	42.55	143.36	139.65	131.07	8.58	16.270		
1,400.00	1,398.70	1,363.99	1,350.96	4.80	5.12	20.21	53.56	167.36	156.24	147.00	9.24	16.914		
1,500.00	1,497.47	1,457.33	1,439.62	5.18	5.65	20.13	65.73	193.87	172.77	162.88	9.89	17.474		
1,600.00	1,595.62	1,550.19	1,526.82	5.57	6.22	20.25	79.02	222.84	189.23	178.69	10.54	17.954		
1,700.00	1,693.06	1,642.56	1,612.51	6.00	6.83	20.49	93.41	254.19	205.60	194.40	11.20	18.362		
1,800.00	1,789.64	1,734.47	1,696.62	6.45	7.49	20.85	108.86	287.86	221.88	210.02	11.86	18.704		
1,900.00	1,885.27	1,825.92	1,779.09	6.94	8.19	21.28	125.34	323.78	238.07	225.53	12.54	18.981		
2,000.00	1,979.82	1,916.92	1,859.86	7.47	8.94	21.78	142.82	361.88	254.15	240.91	13.24	19.197		
2,100.00	2,073.17	2,007.49	1,938.88	8.05	9.75	22.33	161.27	402.09	270.13	256.17	13.96	19.351		
2,200.00	2,165.21	2,097.64	2,016.10	8.67	10.61	22.92	180.66	444.35	285.99	271.29	14.71	19.443		
2,300.00	2,255.84	2,187.37	2,091.48	9.35	11.52	23.54	200.96	488.58	301.75	286.26	15.50	19.472		
2,400.00	2,344.94	2,276.70	2,164.97	10.09	12.49	24.19	222.14	534.73	317.40	301.08	16.33	19.439		
2,500.00	2,432.39	2,365.64	2,236.53	10.89	13.50	24.87	244.16	582.73	332.94	315.73	17.21	19.345		
2,519.29	2,449.07	2,382.75	2,250.12	11.05	13.70	25.00	248.51	592.19	335.93	318.54	17.38	19.323		
2,600.00	2,518.69	2,456.68	2,308.13	11.74	14.59	25.62	267.62	633.85	349.29	331.09	18.20	19.193		
2,700.00	2,604.95	2,555.10	2,385.01	12.62	15.81	26.35	293.24	689.69	366.44	347.04	19.41	18.884		
2,800.00	2,691.22	2,653.51	2,461.88	13.52	17.04	27.02	318.87	745.53	383.65	363.01	20.65	18.582		
2,900.00	2,777.48	2,751.92	2,538.76	14.43	18.28	27.63	344.49	801.38	400.91	378.99	21.92	18.290		
3,000.00	2,863.75	2,850.34	2,615.64	15.35	19.54	28.18	370.12	857.22	418.21	394.99	23.22	18.011		
3,100.00	2,950.01	2,948.75	2,692.52	16.28	20.79	28.70	395.74	913.06	435.54	410.99	24.54	17.745		
3,200.00	3,036.27	3,047.17	2,769.40	17.22	22.06	29.17	421.37	968.91	452.90	427.01	25.89	17.494		
3,300.00	3,122.54	3,145.58	2,846.27	18.17	23.33	29.61	446.99	1,024.75	470.29	443.04	27.25	17.255		
3,400.00	3,208.80	3,243.99	2,923.15	19.13	24.60	30.02	472.62	1,080.59	487.71	459.07	28.64	17.031		
3,500.00	3,295.07	3,342.41	3,000.03	20.09	25.88	30.40	498.24	1,136.44	505.15	475.12	30.03	16.819		
3,600.00	3,381.33	3,440.82	3,076.91	21.05	27.16	30.76	523.87	1,192.28	522.61	491.17	31.45	16.620		
3,700.00	3,467.59	3,539.24	3,153.79	22.02	28.45	31.09	549.49	1,248.12	540.09	507.22	32.87	16.432		
3,800.00	3,553.86	3,637.65	3,230.66	22.99	29.74	31.40	575.12	1,303.96	557.58	523.28	34.30	16.255		
3,900.00	3,640.12	3,736.06	3,307.54	23.97	31.03	31.70	600.74	1,359.81	575.09	539.35	35.75	16.088		
4,000.00	3,726.38	3,834.48	3,384.42	24.95	32.32	31.97	626.37	1,415.65	592.62	555.42	37.20	15.930		
4,100.00	3,812.65	3,932.89	3,461.30	25.93	33.61	32.23	651.99	1,471.49	610.15	571.49	38.66	15.782		
4,200.00	3,898.91	4,031.31	3,538.18	26.91	34.90	32.48	677.62	1,527.34	627.70	587.57	40.13	15.641		
4,300.00	3,985.18	4,129.72	3,615.05	27.90	36.20	32.71	703.24	1,583.18	645.26	603.65	41.61	15.508		
4,400.00	4,071.44	4,228.13	3,691.93	28.88	37.49	32.93	728.87	1,639.02	662.82	619.73	43.09	15.383		
4,500.00	4,157.70	4,326.55	3,768.81	29.87	38.79	33.13	754.49	1,694.87	680.40	635.82	44.58	15.264		
4,600.00	4,243.97	4,424.96	3,845.69	30.86	40.09	33.33	780.12	1,750.71	697.98	651.91	46.07	15.151		
4,700.00	4,330.23	4,523.38	3,922.57	31.85	41.39	33.52	805.74	1,806.55	715.58	668.01	47.57	15.043		
4,800.00	4,416.49	4,621.79	3,999.44	32.84	42.69	33.70	831.37	1,862.39	733.18	684.11	49.07	14.942		
4,900.00	4,502.76	4,720.20	4,076.32	33.84	43.99	33.87	856.99	1,918.24	750.78	700.21	50.58	14.845		
5,000.00	4,589.02	4,818.62	4,153.20	34.83	45.29	34.03	882.62	1,974.08	768.39	716.31	52.09	14.752		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,917.03	4,230.08	35.82	46.59	34.19	908.24	2,029.92	786.01	732.41	53.60	14.664		
5,200.00	4,761.55	5,015.45	4,306.96	36.82	47.90	34.34	933.86	2,085.77	803.63	748.52	55.12	14.580		
5,300.00	4,847.81	5,113.86	4,383.83	37.82	49.20	34.48	959.49	2,141.61	821.26	764.62	56.64	14.500		
5,400.00	4,934.08	5,212.27	4,460.71	38.81	50.50	34.61	985.11	2,197.45	838.90	780.73	58.16	14.424		
5,500.00	5,020.34	5,310.69	4,537.59	39.81	51.81	34.75	1,010.74	2,253.30	856.53	796.85	59.69	14.350		
5,600.00	5,106.60	5,409.10	4,614.47	40.81	53.11	34.87	1,036.36	2,309.14	874.17	812.96	61.22	14.280		
5,700.00	5,192.87	5,507.52	4,691.35	41.81	54.42	34.99	1,061.99	2,364.98	891.82	829.07	62.75	14.213		
5,800.00	5,279.13	5,605.93	4,768.22	42.81	55.72	35.11	1,087.61	2,420.83	909.47	845.19	64.28	14.149		
5,900.00	5,365.40	5,704.34	4,845.10	43.81	57.03	35.22	1,113.24	2,476.67	927.12	861.31	65.81	14.087		
6,000.00	5,451.66	5,802.76	4,921.98	44.81	58.33	35.33	1,138.86	2,532.51	944.78	877.43	67.35	14.028		
6,100.00	5,537.92	5,901.17	4,998.86	45.81	59.64	35.43	1,164.49	2,588.35	962.44	893.55	68.89	13.971		
6,200.00	5,624.19	5,999.59	5,075.74	46.81	60.94	35.53	1,190.11	2,644.20	980.10	909.67	70.43	13.916		
6,300.00	5,710.45	6,098.00	5,152.61	47.81	62.25	35.62	1,215.74	2,700.04	997.76	925.79	71.97	13.863		
6,400.00	5,796.72	6,196.41	5,229.49	48.81	63.56	35.72	1,241.36	2,755.88	1,015.43	941.91	73.52	13.812		
6,500.00	5,882.98	6,305.17	5,306.37	49.81	65.00	35.81	1,266.99	2,811.73	1,033.10	957.96	75.14	13.749		
6,600.00	5,969.24	6,406.76	5,383.25	50.82	66.35	35.89	1,292.61	2,867.57	1,050.77	974.06	76.71	13.697		
6,700.00	6,055.51	6,491.66	5,460.13	51.82	67.48	35.98	1,318.24	2,923.41	1,068.44	990.29	78.16	13.671		
6,800.00	6,141.77	6,609.93	5,537.00	52.82	69.05	36.06	1,343.86	2,979.26	1,086.12	1,006.26	79.86	13.600		
6,900.00	6,228.03	6,688.48	5,613.88	53.83	70.09	36.14	1,369.49	3,035.10	1,103.80	1,022.54	81.26	13.584		
7,000.00	6,314.30	6,786.90	5,690.76	54.83	71.40	36.21	1,395.11	3,090.94	1,121.48	1,038.67	82.81	13.543		
7,100.00	6,400.56	6,885.31	5,767.64	55.83	72.71	36.29	1,420.74	3,146.79	1,139.16	1,054.80	84.36	13.504		
7,200.00	6,486.83	6,983.72	5,844.52	56.84	74.02	36.36	1,446.36	3,202.63	1,156.85	1,070.93	85.91	13.465		
7,300.00	6,573.09	7,082.14	5,921.39	57.84	75.33	36.43	1,471.99	3,258.47	1,174.53	1,087.06	87.47	13.428		
7,400.00	6,659.35	7,180.55	5,998.27	58.84	76.64	36.49	1,497.61	3,314.31	1,192.22	1,103.20	89.02	13.392		
7,500.00	6,745.62	7,278.97	6,075.15	59.85	77.94	36.56	1,523.23	3,370.16	1,209.91	1,119.33	90.58	13.357		
7,600.00	6,831.88	7,377.38	6,152.03	60.85	79.25	36.62	1,548.86	3,426.00	1,227.60	1,135.46	92.14	13.324		
7,700.00	6,918.14	7,475.79	6,228.91	61.86	80.56	36.68	1,574.48	3,481.84	1,245.29	1,151.59	93.69	13.291		
7,800.00	7,004.41	7,574.21	6,305.78	62.86	81.87	36.74	1,600.11	3,537.69	1,262.98	1,167.73	95.25	13.259		
7,900.00	7,090.67	7,672.62	6,382.66	63.87	83.18	36.80	1,625.73	3,593.53	1,280.68	1,183.86	96.81	13.228		
8,000.00	7,176.94	7,771.04	6,459.54	64.87	84.49	36.86	1,651.36	3,649.37	1,298.37	1,200.00	98.37	13.198		
8,027.52	7,200.68	7,801.88	6,480.70	65.15	84.90	36.87	1,658.41	3,664.74	1,303.24	1,204.41	98.83	13.186		
8,050.00	7,220.18	7,820.25	6,497.98	65.37	85.14	33.87	1,664.17	3,677.30	1,307.18	1,208.06	99.12	13.187		
8,100.00	7,264.25	7,869.39	6,536.37	65.85	85.80	26.05	1,676.97	3,705.18	1,315.63	1,216.01	99.62	13.206		
8,150.00	7,308.99	7,918.11	6,574.43	66.28	86.44	16.84	1,689.65	3,732.83	1,323.64	1,223.82	99.82	13.260		
8,200.00	7,354.07	7,966.05	6,611.88	66.67	87.08	6.73	1,702.14	3,760.03	1,331.22	1,231.50	99.72	13.350		
8,250.00	7,399.14	8,012.83	6,648.42	67.02	87.70	-3.55	1,714.32	3,786.57	1,338.42	1,239.10	99.32	13.475		
8,300.00	7,443.85	8,058.10	6,683.79	67.32	88.31	-13.27	1,726.10	3,812.26	1,345.33	1,246.69	98.64	13.639		
8,350.00	7,487.88	8,101.52	6,717.70	67.56	88.88	-21.94	1,737.41	3,836.90	1,352.09	1,254.39	97.69	13.840		
8,400.00	7,530.87	8,142.75	6,749.91	67.75	89.43	-29.36	1,748.14	3,860.29	1,358.82	1,262.32	96.50	14.081		
8,450.00	7,572.51	8,181.48	6,780.17	67.90	89.95	-35.56	1,758.23	3,882.27	1,365.69	1,270.59	95.10	14.361		
8,500.00	7,612.48	8,217.43	6,808.25	68.00	90.43	-40.66	1,767.59	3,902.67	1,372.87	1,279.35	93.52	14.679		
8,550.00	7,650.47	8,250.30	6,833.93	68.05	90.86	-44.80	1,776.15	3,921.32	1,380.53	1,288.71	91.83	15.034		
8,600.00	7,686.20	8,279.86	6,857.02	68.06	91.26	-48.11	1,783.84	3,938.09	1,388.83	1,298.78	90.06	15.422		
8,650.00	7,719.39	8,305.87	6,877.34	68.03	91.60	-50.67	1,790.62	3,952.86	1,397.92	1,309.64	88.28	15.835		
8,700.00	7,749.79	8,328.15	6,894.74	67.97	91.90	-52.57	1,796.42	3,965.50	1,407.90	1,321.35	86.55	16.266		
8,750.00	7,777.17	8,346.52	6,909.09	67.87	92.14	-53.84	1,801.20	3,975.92	1,418.87	1,333.93	84.94	16.704		
8,800.00	7,801.32	8,360.83	6,920.27	67.74	92.34	-54.54	1,804.93	3,984.04	1,430.88	1,347.37	83.50	17.136		
8,850.00	7,822.06	8,370.99	6,928.21	67.59	92.47	-54.69	1,807.57	3,989.81	1,443.92	1,361.63	82.29	17.548		
8,900.00	7,839.23	8,376.92	6,932.84	67.41	92.55	-54.32	1,809.12	3,993.17	1,457.96	1,376.63	81.33	17.926		
8,950.00	7,852.69	8,378.56	6,934.12	67.22	92.57	-53.47	1,809.54	3,994.10	1,472.93	1,392.26	80.66	18.260		
9,000.00	7,862.35	8,375.91	6,932.05	67.00	92.54	-52.16	1,808.86	3,992.60	1,488.68	1,408.39	80.29	18.542		
9,050.00	7,868.14	8,368.99	6,926.64	66.78	92.44	-50.45	1,807.05	3,988.67	1,505.06	1,424.87	80.20	18.767		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,358.20	6,918.22	66.55	92.30	-48.43	1,804.24	3,982.55	1,521.42	1,441.05	80.36	18.932		
9,100.00	7,870.00	8,357.85	6,917.94	66.55	92.30	-48.42	1,804.15	3,982.35	1,521.87	1,441.50	80.37	18.936		
9,200.00	7,870.00	8,331.62	6,897.45	66.09	91.95	-47.41	1,797.32	3,967.47	1,558.45	1,477.02	81.43	19.138		
9,300.00	7,870.00	8,305.39	6,876.96	65.65	91.60	-46.41	1,790.49	3,952.58	1,600.02	1,516.73	83.29	19.210		
9,400.00	7,870.00	8,279.16	6,856.47	65.24	91.25	-45.41	1,783.66	3,937.70	1,646.21	1,560.47	85.73	19.202		
9,500.00	7,870.00	10,139.98	7,730.00	64.85	99.52	-85.25	885.34	4,568.19	1,665.37	1,575.41	89.96	18.513		
9,600.00	7,870.00	10,239.98	7,730.00	64.48	99.25	-85.25	785.34	4,567.85	1,665.37	1,575.84	89.52	18.603		
9,700.00	7,870.00	10,339.98	7,730.00	64.13	98.99	-85.25	685.34	4,567.51	1,665.36	1,576.14	89.23	18.664		
9,800.00	7,870.00	10,439.98	7,730.00	63.80	98.75	-85.25	585.34	4,567.17	1,665.36	1,576.29	89.07	18.697		
9,900.00	7,870.00	10,539.98	7,730.00	63.50	98.52	-85.25	485.34	4,566.84	1,665.36	1,576.31	89.05	18.701		
10,000.00	7,870.00	10,639.98	7,730.00	63.22	98.30	-85.25	385.35	4,566.50	1,665.36	1,576.19	89.18	18.675		
10,100.00	7,870.00	10,739.98	7,730.00	62.96	98.10	-85.25	285.35	4,566.16	1,665.36	1,575.92	89.44	18.620		
10,200.00	7,870.00	10,839.98	7,730.00	62.72	97.91	-85.25	185.35	4,565.82	1,665.36	1,575.52	89.84	18.537		
10,300.00	7,870.00	10,939.98	7,730.00	62.50	97.74	-85.25	85.35	4,565.48	1,665.36	1,574.98	90.38	18.427		
10,400.00	7,870.00	11,039.98	7,730.00	62.31	97.58	-85.25	-14.65	4,565.14	1,665.36	1,574.31	91.05	18.291		
10,500.00	7,870.00	11,139.98	7,730.00	62.15	97.44	-85.25	-114.65	4,564.80	1,665.36	1,573.51	91.85	18.132		
10,600.00	7,870.00	11,239.98	7,730.00	62.01	97.31	-85.25	-214.65	4,564.47	1,665.36	1,572.58	92.78	17.950		
10,700.00	7,870.00	11,339.98	7,730.00	61.90	97.20	-85.25	-314.65	4,564.13	1,665.36	1,571.53	93.83	17.749		
10,800.00	7,870.00	11,439.98	7,730.00	61.82	97.10	-85.25	-414.65	4,563.79	1,665.36	1,570.36	95.00	17.530		
10,900.00	7,870.00	11,539.98	7,730.00	61.78	97.02	-85.25	-514.65	4,563.45	1,665.35	1,569.07	96.29	17.296		
11,000.00	7,870.00	11,639.98	7,730.00	61.77	96.96	-85.25	-614.65	4,563.11	1,665.35	1,567.67	97.68	17.049		
11,100.00	7,870.00	11,739.98	7,730.00	61.81	96.91	-85.25	-714.65	4,562.77	1,665.35	1,566.17	99.18	16.790		
11,200.00	7,870.00	11,839.98	7,730.00	61.90	96.88	-85.25	-814.65	4,562.43	1,665.35	1,564.56	100.79	16.523		
11,300.00	7,870.00	11,939.98	7,730.00	62.03	96.87	-85.25	-914.65	4,562.10	1,665.35	1,562.86	102.49	16.249		
11,400.00	7,870.00	12,039.98	7,730.00	62.23	96.88	-85.25	-1,014.65	4,561.76	1,665.35	1,561.07	104.28	15.970		
11,500.00	7,870.00	12,139.98	7,730.00	62.50	96.91	-85.25	-1,114.65	4,561.42	1,665.35	1,559.19	106.16	15.688		
11,600.00	7,870.00	12,239.98	7,730.00	62.84	96.96	-85.25	-1,214.65	4,561.08	1,665.35	1,557.23	108.12	15.403		
11,700.00	7,870.00	12,339.98	7,730.00	63.25	97.03	-85.25	-1,314.64	4,560.74	1,665.35	1,555.20	110.15	15.118		
11,800.00	7,870.00	12,439.98	7,730.00	63.76	97.12	-85.25	-1,414.64	4,560.40	1,665.35	1,553.08	112.26	14.834		
11,900.00	7,870.00	12,539.98	7,730.00	64.34	97.23	-85.25	-1,514.64	4,560.06	1,665.35	1,550.90	114.44	14.552		
12,000.00	7,870.00	12,639.98	7,730.00	65.01	97.37	-85.25	-1,614.64	4,559.73	1,665.35	1,548.65	116.69	14.271		
12,100.00	7,870.00	12,739.98	7,730.00	65.77	97.53	-85.25	-1,714.64	4,559.39	1,665.34	1,546.35	119.00	13.995		
12,200.00	7,870.00	12,839.98	7,730.00	66.61	97.72	-85.25	-1,814.64	4,559.05	1,665.34	1,543.98	121.37	13.722		
12,300.00	7,870.00	12,939.98	7,730.00	67.51	97.94	-85.25	-1,914.64	4,558.71	1,665.34	1,541.56	123.79	13.453		
12,400.00	7,870.00	13,039.98	7,730.00	68.49	98.19	-85.25	-2,014.64	4,558.37	1,665.34	1,539.08	126.26	13.190		
12,500.00	7,870.00	13,139.98	7,730.00	69.52	98.47	-85.25	-2,114.64	4,558.03	1,665.34	1,536.56	128.78	12.931		
12,600.00	7,870.00	13,239.98	7,730.00	70.61	98.77	-85.25	-2,214.64	4,557.69	1,665.34	1,533.99	131.35	12.679		
12,700.00	7,870.00	13,339.98	7,730.00	71.75	99.12	-85.25	-2,314.64	4,557.36	1,665.34	1,531.38	133.96	12.431		
12,800.00	7,870.00	13,439.98	7,730.00	72.93	99.49	-85.25	-2,414.64	4,557.02	1,665.34	1,528.72	136.62	12.190		
12,900.00	7,870.00	13,539.98	7,730.00	74.14	99.91	-85.25	-2,514.64	4,556.68	1,665.34	1,526.03	139.31	11.955		
13,000.00	7,870.00	13,639.98	7,730.00	75.39	100.36	-85.25	-2,614.64	4,556.34	1,665.34	1,523.30	142.03	11.725		
13,100.00	7,870.00	13,739.98	7,730.00	76.67	100.84	-85.25	-2,714.64	4,556.00	1,665.34	1,520.54	144.80	11.501		
13,200.00	7,870.00	13,839.98	7,730.00	77.98	101.37	-85.25	-2,814.64	4,555.66	1,665.34	1,517.75	147.59	11.284		
13,300.00	7,870.00	13,939.98	7,730.00	79.31	101.94	-85.25	-2,914.64	4,555.33	1,665.34	1,514.92	150.42	11.072		
13,400.00	7,870.00	14,039.98	7,730.00	80.67	102.54	-85.25	-3,014.64	4,554.99	1,665.33	1,512.07	153.27	10.865		
13,500.00	7,870.00	14,139.98	7,730.00	82.04	103.19	-85.25	-3,114.63	4,554.65	1,665.33	1,509.18	156.15	10.665		
13,600.00	7,870.00	14,239.98	7,730.00	83.43	103.88	-85.25	-3,214.63	4,554.31	1,665.33	1,506.28	159.06	10.470		
13,700.00	7,870.00	14,339.98	7,730.00	84.84	104.61	-85.25	-3,314.63	4,553.97	1,665.33	1,503.34	161.99	10.281		
13,800.00	7,870.00	14,439.98	7,730.00	86.27	105.38	-85.25	-3,414.63	4,553.63	1,665.33	1,500.39	164.94	10.096		
13,900.00	7,870.00	14,539.98	7,730.00	87.71	106.19	-85.25	-3,514.63	4,553.29	1,665.33	1,497.41	167.92	9.917		
14,000.00	7,870.00	14,639.98	7,730.00	89.16	107.04	-85.25	-3,614.63	4,552.96	1,665.33	1,494.41	170.92	9.743		
14,100.00	7,870.00	14,739.98	7,730.00	90.63	107.93	-85.25	-3,714.63	4,552.62	1,665.33	1,491.39	173.94	9.574		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	14,839.98	7,730.00	92.10	108.86	-85.25	-3,814.63	4,552.28	1,665.33	1,488.36	176.97	9.410		
14,300.00	7,870.00	14,939.98	7,730.00	93.59	109.82	-85.25	-3,914.63	4,551.94	1,665.33	1,485.30	180.03	9.251		
14,400.00	7,870.00	15,039.98	7,730.00	95.09	110.82	-85.25	-4,014.63	4,551.60	1,665.33	1,482.23	183.10	9.095		
14,500.00	7,870.00	15,139.98	7,730.00	96.60	111.85	-85.25	-4,114.63	4,551.26	1,665.33	1,479.14	186.18	8.945		
14,600.00	7,870.00	15,239.98	7,730.00	98.11	112.91	-85.25	-4,214.63	4,550.92	1,665.32	1,476.04	189.28	8.798		
14,700.00	7,870.00	15,339.98	7,730.00	99.64	114.01	-85.25	-4,314.63	4,550.59	1,665.32	1,472.92	192.40	8.655		
14,800.00	7,870.00	15,439.98	7,730.00	101.17	115.13	-85.25	-4,414.63	4,550.25	1,665.32	1,469.79	195.53	8.517		
14,900.00	7,870.00	15,539.98	7,730.00	102.71	116.29	-85.25	-4,514.63	4,549.91	1,665.32	1,466.65	198.68	8.382		
15,000.00	7,870.00	15,639.98	7,730.00	104.26	117.47	-85.25	-4,614.63	4,549.57	1,665.32	1,463.49	201.83	8.251		
15,100.00	7,870.00	15,739.98	7,730.00	105.82	118.67	-85.25	-4,714.63	4,549.23	1,665.32	1,460.32	205.00	8.124		
15,200.00	7,870.00	15,839.98	7,730.00	107.38	119.90	-85.25	-4,814.62	4,548.89	1,665.32	1,457.14	208.18	7.999		
15,300.00	7,870.00	15,939.98	7,730.00	108.95	121.15	-85.25	-4,914.62	4,548.55	1,665.32	1,453.95	211.37	7.879		
15,400.00	7,870.00	16,039.98	7,730.00	110.52	122.42	-85.25	-5,014.62	4,548.22	1,665.32	1,450.75	214.57	7.761		
15,500.00	7,870.00	16,139.98	7,730.00	112.10	123.72	-85.25	-5,114.62	4,547.88	1,665.32	1,447.54	217.78	7.647		
15,600.00	7,870.00	16,239.98	7,730.00	113.69	125.03	-85.25	-5,214.62	4,547.54	1,665.32	1,444.31	221.00	7.535		
15,700.00	7,870.00	16,339.98	7,730.00	115.28	126.36	-85.25	-5,314.62	4,547.20	1,665.32	1,441.08	224.23	7.427		
15,800.00	7,870.00	16,439.98	7,730.00	116.87	127.70	-85.25	-5,414.62	4,546.86	1,665.32	1,437.84	227.47	7.321		
15,900.00	7,870.00	16,539.98	7,730.00	118.47	129.06	-85.25	-5,514.62	4,546.52	1,665.31	1,434.60	230.72	7.218		
16,000.00	7,870.00	16,639.98	7,730.00	120.07	130.44	-85.25	-5,614.62	4,546.18	1,665.31	1,431.34	233.97	7.118		
16,100.00	7,870.00	16,739.98	7,730.00	121.68	131.83	-85.25	-5,714.62	4,545.85	1,665.31	1,428.08	237.24	7.020		
16,200.00	7,870.00	16,839.98	7,730.00	123.30	133.24	-85.25	-5,814.62	4,545.51	1,665.31	1,424.81	240.51	6.924		
16,300.00	7,870.00	16,939.98	7,730.00	124.91	134.65	-85.25	-5,914.62	4,545.17	1,665.31	1,421.53	243.78	6.831		
16,400.00	7,870.00	17,039.98	7,730.00	126.53	136.08	-85.25	-6,014.62	4,544.83	1,665.31	1,418.24	247.07	6.740		
16,500.00	7,870.00	17,139.98	7,730.00	128.16	137.52	-85.25	-6,114.62	4,544.49	1,665.31	1,414.95	250.36	6.652		
16,600.00	7,870.00	17,239.98	7,730.00	129.79	138.98	-85.25	-6,214.62	4,544.15	1,665.31	1,411.65	253.65	6.565		
16,700.00	7,870.00	17,339.98	7,730.00	131.42	140.44	-85.25	-6,314.62	4,543.81	1,665.31	1,408.35	256.96	6.481		
16,800.00	7,870.00	17,439.98	7,730.00	133.05	141.91	-85.25	-6,414.62	4,543.48	1,665.31	1,405.04	260.27	6.399		
16,900.00	7,870.00	17,539.98	7,730.00	134.69	143.39	-85.25	-6,514.62	4,543.14	1,665.31	1,401.73	263.58	6.318		
17,000.00	7,870.00	17,639.98	7,730.00	136.33	144.88	-85.25	-6,614.61	4,542.80	1,665.31	1,398.41	266.90	6.239		
17,100.00	7,870.00	17,739.98	7,730.00	137.97	146.38	-85.25	-6,714.61	4,542.46	1,665.30	1,395.08	270.22	6.163		
17,200.00	7,870.00	17,839.98	7,730.00	139.62	147.88	-85.25	-6,814.61	4,542.12	1,665.30	1,391.75	273.55	6.088		
17,300.00	7,870.00	17,939.98	7,730.00	141.27	149.40	-85.25	-6,914.61	4,541.78	1,665.30	1,388.41	276.89	6.014		
17,400.00	7,870.00	18,039.98	7,730.00	142.92	150.92	-85.25	-7,014.61	4,541.45	1,665.30	1,385.07	280.23	5.943		
17,500.00	7,870.00	18,139.98	7,730.00	144.58	152.45	-85.25	-7,114.61	4,541.11	1,665.30	1,381.73	283.57	5.873		
17,600.00	7,870.00	18,239.98	7,730.00	146.23	153.98	-85.25	-7,214.61	4,540.77	1,665.30	1,378.38	286.92	5.804		
17,700.00	7,870.00	18,339.98	7,730.00	147.89	155.52	-85.25	-7,314.61	4,540.43	1,665.30	1,375.03	290.27	5.737		
17,800.00	7,870.00	18,439.98	7,730.00	149.56	157.07	-85.25	-7,414.61	4,540.09	1,665.30	1,371.67	293.63	5.671		
17,900.00	7,870.00	18,539.98	7,730.00	151.22	158.62	-85.25	-7,514.61	4,539.75	1,665.30	1,368.31	296.99	5.607		
18,000.00	7,870.00	18,639.98	7,730.00	152.89	160.18	-85.25	-7,614.61	4,539.41	1,665.30	1,364.94	300.35	5.544		
18,100.00	7,870.00	18,739.98	7,730.00	154.55	161.74	-85.25	-7,714.61	4,539.08	1,665.30	1,361.58	303.72	5.483		
18,200.00	7,870.00	18,839.98	7,730.00	156.22	163.31	-85.25	-7,814.61	4,538.74	1,665.30	1,358.20	307.09	5.423		
18,300.00	7,870.00	18,939.98	7,730.00	157.90	164.88	-85.25	-7,914.61	4,538.40	1,665.29	1,354.83	310.47	5.364		
18,400.00	7,870.00	19,039.98	7,730.00	159.57	166.46	-85.25	-8,014.61	4,538.06	1,665.29	1,351.45	313.84	5.306		
18,500.00	7,870.00	19,139.98	7,730.00	161.25	168.04	-85.25	-8,114.61	4,537.72	1,665.29	1,348.07	317.23	5.250		
18,600.00	7,870.00	19,239.98	7,730.00	162.93	169.63	-85.25	-8,214.61	4,537.38	1,665.29	1,344.68	320.61	5.194		
18,700.00	7,870.00	19,339.98	7,730.00	164.60	171.22	-85.25	-8,314.60	4,537.04	1,665.29	1,341.29	324.00	5.140		
18,792.36	7,870.00	19,432.34	7,730.00	166.16	172.69	-85.25	-8,406.97	4,536.73	1,665.29	1,338.16	327.13	5.091		
18,797.52	7,870.00	19,430.54	7,730.00	166.24	172.66	-85.25	-8,405.16	4,536.74	1,665.31	1,337.77	327.53	5.084 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	90.35	-0.36	59.92	59.92					
100.00	100.00	102.00	98.00	0.13	0.14	90.35	-0.36	59.92	59.92	59.65	0.28	217.089		
200.00	200.00	202.00	198.00	0.49	0.50	90.35	-0.36	59.92	59.92	58.93	0.99	60.346		
300.00	300.00	302.00	298.00	0.85	0.86	90.35	-0.36	59.92	59.92	58.21	1.71	35.044		
400.00	400.00	398.00	398.00	1.21	1.20	90.35	-0.36	59.92	59.92	57.51	2.41	24.838	CC, ES	
500.00	500.00	496.12	496.10	1.57	1.55	89.75	0.27	61.40	61.43	58.31	3.12	19.696		
600.00	600.00	593.98	593.83	1.93	1.90	88.06	2.23	65.95	66.12	62.30	3.82	17.301		
700.00	700.00	691.39	690.89	2.29	2.25	85.73	5.49	73.52	74.07	69.55	4.52	16.379		
800.00	800.00	788.12	786.94	2.64	2.62	83.21	10.01	84.04	85.35	80.13	5.22	16.358		
900.00	900.00	883.98	881.68	3.00	3.00	80.81	15.75	97.39	99.99	94.09	5.91	16.932		
1,000.00	1,000.00	978.75	974.82	3.36	3.40	78.70	22.66	113.44	117.98	111.40	6.59	17.916		
1,100.00	1,099.98	1,072.62	1,066.45	3.72	3.83	22.42	30.69	132.12	137.69	130.44	7.25	18.994		
1,200.00	1,199.84	1,165.89	1,156.79	4.07	4.29	21.41	39.85	153.41	157.44	149.54	7.90	19.940		
1,300.00	1,299.45	1,258.57	1,245.77	4.43	4.78	20.83	50.09	177.22	177.17	168.62	8.55	20.733		
1,400.00	1,398.70	1,350.67	1,333.32	4.80	5.31	20.55	61.40	203.50	196.83	187.64	9.19	21.411		
1,500.00	1,497.47	1,442.21	1,419.38	5.18	5.87	20.49	73.73	232.16	216.39	206.55	9.84	21.991		
1,600.00	1,595.62	1,533.20	1,503.88	5.57	6.48	20.59	87.05	263.14	235.84	225.35	10.49	22.482		
1,700.00	1,693.06	1,623.66	1,586.79	6.00	7.13	20.81	101.34	296.36	255.15	244.00	11.15	22.892		
1,800.00	1,789.64	1,713.58	1,668.04	6.45	7.83	21.12	116.57	331.76	274.33	262.51	11.81	23.227		
1,900.00	1,885.27	1,803.00	1,747.58	6.94	8.58	21.51	132.70	369.25	293.35	280.86	12.49	23.490		
2,000.00	1,979.82	1,891.91	1,825.38	7.47	9.38	21.95	149.71	408.79	312.23	299.04	13.19	23.680		
2,100.00	2,073.17	1,980.34	1,901.40	8.05	10.22	22.44	167.56	450.29	330.94	317.04	13.91	23.800		
2,200.00	2,165.21	2,068.30	1,975.59	8.67	11.12	22.96	186.22	493.68	349.50	334.85	14.65	23.851		
2,300.00	2,255.84	2,155.79	2,047.92	9.35	12.07	23.52	205.68	538.90	367.89	352.46	15.44	23.832		
2,400.00	2,344.94	2,242.84	2,118.35	10.09	13.06	24.10	225.89	585.89	386.12	369.86	16.26	23.745		
2,500.00	2,432.39	2,329.46	2,186.86	10.89	14.10	24.70	246.83	634.57	404.18	387.05	17.13	23.588		
2,519.29	2,449.07	2,346.12	2,199.86	11.05	14.31	24.82	250.95	644.15	407.65	390.34	17.31	23.552		
2,600.00	2,518.69	2,427.73	2,252.69	11.74	15.35	25.38	268.23	684.31	423.08	404.96	18.11	23.358		
2,700.00	2,604.95	2,512.44	2,327.10	12.62	16.46	26.07	293.27	742.53	443.59	424.35	19.24	23.054		
2,800.00	2,691.22	2,610.18	2,401.51	13.52	17.75	26.70	318.31	800.75	464.16	443.68	20.48	22.662		
2,900.00	2,777.48	2,707.92	2,475.91	14.43	19.06	27.28	343.36	858.97	484.78	463.02	21.75	22.285		
3,000.00	2,863.75	2,805.66	2,550.32	15.35	20.38	27.80	368.40	917.19	505.44	482.39	23.05	21.927		
3,100.00	2,950.01	2,903.40	2,624.72	16.28	21.70	28.29	393.45	975.42	526.14	501.77	24.37	21.587		
3,200.00	3,036.27	3,001.14	2,699.13	17.22	23.03	28.74	418.49	1,033.64	546.87	521.16	25.72	21.267		
3,300.00	3,122.54	3,101.12	2,773.53	18.17	24.39	29.16	443.54	1,091.86	567.63	540.54	27.09	20.953		
3,400.00	3,208.80	3,203.38	2,847.94	19.13	25.79	29.55	468.58	1,150.08	588.42	559.92	28.50	20.647		
3,500.00	3,295.07	3,305.64	2,922.35	20.09	27.19	29.91	493.63	1,208.30	609.24	579.31	29.92	20.360		
3,600.00	3,381.33	3,392.10	2,996.75	21.05	28.38	30.24	518.67	1,266.52	630.07	598.82	31.25	20.162		
3,700.00	3,467.59	3,489.84	3,071.16	22.02	29.73	30.56	543.71	1,324.74	650.93	618.26	32.67	19.926		
3,800.00	3,553.86	3,587.58	3,145.56	22.99	31.08	30.86	568.76	1,382.96	671.80	637.71	34.10	19.704		
3,900.00	3,640.12	3,685.32	3,219.97	23.97	32.43	31.14	593.80	1,441.18	692.69	657.16	35.53	19.494		
4,000.00	3,726.38	3,783.06	3,294.37	24.95	33.78	31.40	618.85	1,499.40	713.60	676.62	36.98	19.297		
4,100.00	3,812.65	3,880.80	3,368.78	25.93	35.13	31.65	643.89	1,557.62	734.51	696.08	38.43	19.111		
4,200.00	3,898.91	3,978.54	3,443.19	26.91	36.49	31.88	668.94	1,615.85	755.44	715.55	39.90	18.936		
4,300.00	3,985.18	4,076.28	3,517.59	27.90	37.85	32.10	693.98	1,674.07	776.39	735.02	41.36	18.770		
4,400.00	4,071.44	4,174.02	3,592.00	28.88	39.21	32.31	719.03	1,732.29	797.34	754.50	42.84	18.613		
4,500.00	4,157.70	4,271.76	3,666.40	29.87	40.56	32.51	744.07	1,790.51	818.30	773.98	44.32	18.464		
4,600.00	4,243.97	4,369.50	3,740.81	30.86	41.92	32.70	769.11	1,848.73	839.27	793.47	45.80	18.324		
4,700.00	4,330.23	4,467.24	3,815.21	31.85	43.28	32.88	794.16	1,906.95	860.25	812.96	47.29	18.190		
4,800.00	4,416.49	4,564.98	3,889.62	32.84	44.65	33.05	819.20	1,965.17	881.23	832.45	48.79	18.063		
4,900.00	4,502.76	4,662.72	3,964.03	33.84	46.01	33.21	844.25	2,023.39	902.23	851.94	50.28	17.942		
5,000.00	4,589.02	4,760.46	4,038.43	34.83	47.37	33.37	869.29	2,081.61	923.23	871.44	51.79	17.827		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,858.20	4,112.84	35.82	48.73	33.51	894.34	2,139.83	944.24	890.94	53.29	17.718		
5,200.00	4,761.55	4,955.94	4,187.24	36.82	50.10	33.66	919.38	2,198.05	965.25	910.45	54.80	17.614		
5,300.00	4,847.81	5,053.68	4,261.65	37.82	51.46	33.79	944.43	2,256.27	986.27	929.95	56.31	17.514		
5,400.00	4,934.08	5,151.42	4,336.05	38.81	52.83	33.92	969.47	2,314.50	1,007.29	949.46	57.83	17.419		
5,500.00	5,020.34	5,249.16	4,410.46	39.81	54.19	34.05	994.51	2,372.72	1,028.32	968.97	59.34	17.328		
5,600.00	5,106.60	5,346.90	4,484.87	40.81	55.56	34.17	1,019.56	2,430.94	1,049.35	988.48	60.86	17.241		
5,700.00	5,192.87	5,444.64	4,559.27	41.81	56.92	34.28	1,044.60	2,489.16	1,070.38	1,008.00	62.39	17.157		
5,800.00	5,279.13	5,542.38	4,633.68	42.81	58.29	34.40	1,069.65	2,547.38	1,091.43	1,027.51	63.91	17.077		
5,900.00	5,365.40	5,640.12	4,708.08	43.81	59.66	34.50	1,094.69	2,605.60	1,112.47	1,047.03	65.44	17.001		
6,000.00	5,451.66	5,737.86	4,782.49	44.81	61.02	34.61	1,119.74	2,663.82	1,133.52	1,066.55	66.97	16.927		
6,100.00	5,537.92	5,835.60	4,856.89	45.81	62.39	34.70	1,144.78	2,722.04	1,154.57	1,086.07	68.50	16.856		
6,200.00	5,624.19	5,933.34	4,931.30	46.81	63.76	34.80	1,169.83	2,780.26	1,175.62	1,105.60	70.03	16.788		
6,300.00	5,710.45	6,031.08	5,005.71	47.81	65.13	34.89	1,194.87	2,838.48	1,196.68	1,125.12	71.56	16.723		
6,400.00	5,796.72	6,128.82	5,080.11	48.81	66.49	34.98	1,219.91	2,896.70	1,217.74	1,144.64	73.10	16.659		
6,500.00	5,882.98	6,226.56	5,154.52	49.81	67.86	35.07	1,244.96	2,954.93	1,238.80	1,164.17	74.63	16.599		
6,600.00	5,969.24	6,324.30	5,228.92	50.82	69.23	35.15	1,270.00	3,013.15	1,259.87	1,183.70	76.17	16.540		
6,700.00	6,055.51	6,422.04	5,303.33	51.82	70.60	35.23	1,295.05	3,071.37	1,280.94	1,203.23	77.71	16.484		
6,800.00	6,141.77	6,519.78	5,377.73	52.82	71.97	35.31	1,320.09	3,129.59	1,302.01	1,222.76	79.25	16.429		
6,900.00	6,228.03	6,617.52	5,452.14	53.83	73.33	35.38	1,345.14	3,187.81	1,323.08	1,242.29	80.79	16.377		
7,000.00	6,314.30	6,715.26	5,526.55	54.83	74.70	35.46	1,370.18	3,246.03	1,344.15	1,261.82	82.33	16.326		
7,100.00	6,400.56	6,813.00	5,600.95	55.83	76.07	35.53	1,395.23	3,304.25	1,365.23	1,281.35	83.88	16.276		
7,200.00	6,486.83	6,910.74	5,675.36	56.84	77.44	35.60	1,420.27	3,362.47	1,386.31	1,300.89	85.42	16.229		
7,300.00	6,573.09	7,008.48	5,749.76	57.84	78.81	35.66	1,445.32	3,420.69	1,407.39	1,320.42	86.97	16.183		
7,400.00	6,659.35	7,106.22	5,824.17	58.84	80.18	35.73	1,470.36	3,478.91	1,428.47	1,339.96	88.51	16.138		
7,500.00	6,745.62	7,203.96	5,898.57	59.85	81.55	35.79	1,495.40	3,537.13	1,449.56	1,359.49	90.06	16.095		
7,600.00	6,831.88	7,301.70	5,972.98	60.85	82.92	35.85	1,520.45	3,595.36	1,470.64	1,379.03	91.61	16.053		
7,700.00	6,918.14	7,400.56	6,047.39	61.86	84.30	35.91	1,545.49	3,653.58	1,491.73	1,398.56	93.17	16.011		
7,800.00	7,004.41	7,502.82	6,121.79	62.86	85.74	35.97	1,570.54	3,711.80	1,512.82	1,418.06	94.75	15.966		
7,900.00	7,090.67	7,594.92	6,196.20	63.87	87.03	36.02	1,595.58	3,770.02	1,533.91	1,437.65	96.26	15.935		
8,000.00	7,176.94	7,692.66	6,270.60	64.87	88.40	36.08	1,620.63	3,828.24	1,555.00	1,457.19	97.81	15.898		
8,027.52	7,200.68	7,719.56	6,291.08	65.15	88.78	36.09	1,627.52	3,844.26	1,560.80	1,462.56	98.24	15.888		
8,050.00	7,220.18	7,741.54	6,307.81	65.37	89.08	33.17	1,633.15	3,857.35	1,565.51	1,466.95	98.56	15.884		
8,100.00	7,264.25	7,809.65	6,344.97	65.85	90.04	25.56	1,645.66	3,886.43	1,575.71	1,476.46	99.24	15.877		
8,150.00	7,308.99	7,838.76	6,381.82	66.28	90.45	16.60	1,658.06	3,915.27	1,585.50	1,486.14	99.35	15.958		
8,200.00	7,354.07	7,886.40	6,418.09	66.67	91.11	6.76	1,670.27	3,943.64	1,594.86	1,495.51	99.35	16.053		
8,250.00	7,399.14	7,932.90	6,453.49	67.02	91.77	-3.23	1,682.18	3,971.34	1,603.83	1,504.74	99.09	16.186		
8,300.00	7,443.85	7,977.91	6,487.75	67.32	92.40	-12.65	1,693.72	3,998.15	1,612.45	1,513.88	98.57	16.358		
8,350.00	7,487.88	8,021.09	6,520.62	67.56	93.00	-21.00	1,704.78	4,023.87	1,620.79	1,522.98	97.82	16.569		
8,400.00	7,530.87	8,062.11	6,551.84	67.75	93.58	-28.12	1,715.29	4,048.30	1,628.97	1,532.12	96.85	16.820		
8,450.00	7,572.51	8,100.65	6,581.19	67.90	94.12	-34.02	1,725.17	4,071.26	1,637.09	1,541.40	95.69	17.109		
8,500.00	7,612.48	8,136.43	6,608.42	68.00	94.62	-38.85	1,734.33	4,092.58	1,645.28	1,550.92	94.36	17.436		
8,550.00	7,650.47	8,169.17	6,633.35	68.05	95.08	-42.75	1,742.72	4,112.08	1,653.66	1,560.74	92.91	17.798		
8,600.00	7,686.20	8,201.38	6,655.77	68.06	95.53	-45.86	1,750.27	4,129.62	1,662.35	1,570.95	91.40	18.188		
8,650.00	7,719.39	8,224.56	6,675.51	68.03	95.86	-48.27	1,756.92	4,145.07	1,671.46	1,581.65	89.81	18.612		
8,700.00	7,749.79	8,246.79	6,692.44	67.97	96.17	-50.07	1,762.61	4,158.31	1,681.09	1,592.84	88.24	19.050		
8,750.00	7,777.17	8,265.14	6,706.41	67.87	96.42	-51.31	1,767.32	4,169.25	1,691.29	1,604.55	86.74	19.499		
8,800.00	7,801.32	8,279.47	6,717.32	67.74	96.63	-52.05	1,770.99	4,177.78	1,702.12	1,616.78	85.33	19.947		
8,850.00	7,822.06	8,289.68	6,725.09	67.59	96.77	-52.31	1,773.60	4,183.86	1,713.57	1,629.50	84.07	20.382		
8,900.00	7,839.23	8,304.32	6,729.66	67.41	96.97	-52.14	1,775.14	4,187.44	1,725.63	1,642.58	83.05	20.779		
8,950.00	7,852.69	8,297.43	6,730.99	67.22	96.88	-51.55	1,775.59	4,188.48	1,738.23	1,656.10	82.12	21.166		
9,000.00	7,862.35	8,305.08	6,729.07	67.00	96.99	-50.58	1,774.95	4,186.98	1,751.28	1,669.74	81.54	21.479		
9,050.00	7,868.14	8,288.16	6,723.93	66.78	96.75	-49.26	1,773.21	4,182.96	1,764.66	1,683.60	81.05	21.771		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,277.56	6,715.86	66.55	96.60	-47.68	1,770.50	4,176.64	1,777.83	1,696.98	80.86	21.988		
9,100.00	7,870.00	8,277.21	6,715.59	66.55	96.59	-47.66	1,770.41	4,176.43	1,778.20	1,697.35	80.85	21.993		
9,200.00	7,870.00	8,251.38	6,695.93	66.09	96.23	-46.83	1,763.79	4,161.05	1,807.78	1,726.68	81.10	22.292		
9,300.00	7,870.00	8,225.56	6,676.27	65.65	95.87	-46.00	1,757.17	4,145.67	1,841.96	1,759.84	82.12	22.430		
9,400.00	7,870.00	8,200.27	6,656.62	65.24	95.52	-45.18	1,750.56	4,130.29	1,880.49	1,796.70	83.79	22.443		
9,500.00	7,870.00	8,173.91	6,636.96	64.85	95.15	-44.35	1,743.94	4,114.90	1,923.10	1,837.16	85.94	22.377		
9,600.00	7,870.00	8,148.08	6,617.30	64.48	94.78	-43.53	1,737.32	4,099.52	1,969.53	1,881.09	88.44	22.269		
9,700.00	7,870.00	10,429.48	7,630.00	64.13	106.52	-83.14	684.29	4,887.24	1,993.62	1,902.23	91.40	21.813		
9,800.00	7,870.00	10,529.48	7,630.00	63.80	106.29	-83.14	584.29	4,886.90	1,993.63	1,902.35	91.28	21.841		
9,900.00	7,870.00	10,629.48	7,630.00	63.50	106.07	-83.14	484.29	4,886.57	1,993.63	1,902.33	91.29	21.838		
10,000.00	7,870.00	10,729.48	7,630.00	63.22	105.86	-83.14	384.29	4,886.23	1,993.63	1,902.18	91.45	21.801		
10,100.00	7,870.00	10,829.48	7,630.00	62.96	105.67	-83.14	284.29	4,885.89	1,993.63	1,901.89	91.73	21.733		
10,200.00	7,870.00	10,929.48	7,630.00	62.72	105.48	-83.14	184.29	4,885.56	1,993.63	1,901.47	92.15	21.634		
10,300.00	7,870.00	11,029.48	7,630.00	62.50	105.32	-83.14	84.29	4,885.22	1,993.63	1,900.92	92.71	21.505		
10,400.00	7,870.00	11,129.48	7,630.00	62.31	105.16	-83.14	-15.70	4,884.88	1,993.63	1,900.24	93.39	21.348		
10,500.00	7,870.00	11,229.48	7,630.00	62.15	105.02	-83.14	-115.70	4,884.54	1,993.63	1,899.43	94.20	21.164		
10,600.00	7,870.00	11,329.48	7,630.00	62.01	104.90	-83.14	-215.70	4,884.21	1,993.63	1,898.50	95.13	20.957		
10,700.00	7,870.00	11,429.48	7,630.00	61.90	104.79	-83.14	-315.70	4,883.87	1,993.63	1,897.45	96.18	20.727		
10,800.00	7,870.00	11,529.48	7,630.00	61.82	104.69	-83.14	-415.70	4,883.53	1,993.63	1,896.28	97.35	20.479		
10,900.00	7,870.00	11,629.48	7,630.00	61.78	104.60	-83.14	-515.70	4,883.20	1,993.63	1,895.00	98.63	20.213		
11,000.00	7,870.00	11,729.48	7,630.00	61.77	104.53	-83.14	-615.70	4,882.86	1,993.63	1,893.61	100.02	19.932		
11,100.00	7,870.00	11,829.48	7,630.00	61.81	104.48	-83.14	-715.70	4,882.52	1,993.63	1,892.12	101.51	19.640		
11,200.00	7,870.00	11,929.48	7,630.00	61.90	104.44	-83.14	-815.70	4,882.19	1,993.63	1,890.54	103.10	19.337		
11,300.00	7,870.00	12,029.48	7,630.00	62.03	104.42	-83.14	-915.70	4,881.85	1,993.64	1,888.86	104.78	19.027		
11,400.00	7,870.00	12,129.48	7,630.00	62.23	104.42	-83.14	-1,015.70	4,881.51	1,993.64	1,887.08	106.55	18.710		
11,500.00	7,870.00	12,229.48	7,630.00	62.50	104.43	-83.14	-1,115.70	4,881.17	1,993.64	1,885.23	108.41	18.390		
11,600.00	7,870.00	12,329.48	7,630.00	62.84	104.46	-83.14	-1,215.70	4,880.84	1,993.64	1,883.29	110.34	18.067		
11,700.00	7,870.00	12,429.48	7,630.00	63.25	104.50	-83.14	-1,315.70	4,880.50	1,993.64	1,881.28	112.36	17.744		
11,800.00	7,870.00	12,529.48	7,630.00	63.76	104.57	-83.14	-1,415.70	4,880.16	1,993.64	1,879.20	114.44	17.420		
11,900.00	7,870.00	12,629.48	7,630.00	64.34	104.65	-83.14	-1,515.70	4,879.83	1,993.64	1,877.04	116.60	17.098		
12,000.00	7,870.00	12,729.48	7,630.00	65.01	104.76	-83.14	-1,615.70	4,879.49	1,993.64	1,874.82	118.82	16.779		
12,100.00	7,870.00	12,829.48	7,630.00	65.77	104.89	-83.14	-1,715.70	4,879.15	1,993.64	1,872.54	121.10	16.463		
12,200.00	7,870.00	12,929.48	7,630.00	66.61	105.03	-83.14	-1,815.69	4,878.82	1,993.64	1,870.21	123.43	16.151		
12,300.00	7,870.00	13,029.48	7,630.00	67.51	105.21	-83.14	-1,915.69	4,878.48	1,993.64	1,867.82	125.83	15.844		
12,400.00	7,870.00	13,129.48	7,630.00	68.49	105.40	-83.14	-2,015.69	4,878.14	1,993.64	1,865.37	128.27	15.542		
12,500.00	7,870.00	13,229.48	7,630.00	69.52	105.62	-83.14	-2,115.69	4,877.80	1,993.64	1,862.88	130.76	15.246		
12,600.00	7,870.00	13,329.48	7,630.00	70.61	105.87	-83.14	-2,215.69	4,877.47	1,993.64	1,860.34	133.30	14.956		
12,700.00	7,870.00	13,429.48	7,630.00	71.75	106.14	-83.14	-2,315.69	4,877.13	1,993.65	1,857.76	135.88	14.672		
12,800.00	7,870.00	13,529.48	7,630.00	72.93	106.45	-83.14	-2,415.69	4,876.79	1,993.65	1,855.14	138.51	14.394		
12,900.00	7,870.00	13,629.48	7,630.00	74.14	106.78	-83.14	-2,515.69	4,876.46	1,993.65	1,852.48	141.17	14.123		
13,000.00	7,870.00	13,729.48	7,630.00	75.39	107.14	-83.14	-2,615.69	4,876.12	1,993.65	1,849.78	143.86	13.858		
13,100.00	7,870.00	13,829.48	7,630.00	76.67	107.54	-83.14	-2,715.69	4,875.78	1,993.65	1,847.05	146.60	13.600		
13,200.00	7,870.00	13,929.48	7,630.00	77.98	107.96	-83.14	-2,815.69	4,875.45	1,993.65	1,844.29	149.36	13.348		
13,300.00	7,870.00	14,029.48	7,630.00	79.31	108.42	-83.14	-2,915.69	4,875.11	1,993.65	1,841.49	152.16	13.103		
13,400.00	7,870.00	14,129.48	7,630.00	80.67	108.92	-83.14	-3,015.69	4,874.77	1,993.65	1,838.67	154.98	12.864		
13,500.00	7,870.00	14,229.48	7,630.00	82.04	109.44	-83.14	-3,115.69	4,874.43	1,993.65	1,835.82	157.83	12.631		
13,600.00	7,870.00	14,329.48	7,630.00	83.43	110.01	-83.14	-3,215.69	4,874.10	1,993.65	1,832.94	160.71	12.405		
13,700.00	7,870.00	14,429.48	7,630.00	84.84	110.61	-83.14	-3,315.69	4,873.76	1,993.65	1,830.04	163.62	12.185		
13,800.00	7,870.00	14,529.48	7,630.00	86.27	111.25	-83.14	-3,415.69	4,873.42	1,993.65	1,827.11	166.54	11.971		
13,900.00	7,870.00	14,629.48	7,630.00	87.71	111.93	-83.14	-3,515.68	4,873.09	1,993.65	1,824.16	169.49	11.762		
14,000.00	7,870.00	14,729.48	7,630.00	89.16	112.64	-83.14	-3,615.68	4,872.75	1,993.65	1,821.19	172.46	11.560		
14,100.00	7,870.00	14,829.48	7,630.00	90.63	113.39	-83.14	-3,715.68	4,872.41	1,993.66	1,818.20	175.45	11.363		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	14,929.48	7,630.00	92.10	114.17	-83.14	-3,815.68	4,872.07	1,993.66	1,815.19	178.46	11.171		
14,300.00	7,870.00	15,029.48	7,630.00	93.59	115.00	-83.14	-3,915.68	4,871.74	1,993.66	1,812.17	181.49	10.985		
14,400.00	7,870.00	15,129.48	7,630.00	95.09	115.86	-83.14	-4,015.68	4,871.40	1,993.66	1,809.12	184.53	10.804		
14,500.00	7,870.00	15,229.48	7,630.00	96.60	116.75	-83.14	-4,115.68	4,871.06	1,993.66	1,806.06	187.60	10.627		
14,600.00	7,870.00	15,329.48	7,630.00	98.11	117.68	-83.14	-4,215.68	4,870.73	1,993.66	1,802.99	190.67	10.456		
14,700.00	7,870.00	15,429.48	7,630.00	99.64	118.64	-83.14	-4,315.68	4,870.39	1,993.66	1,799.90	193.76	10.289		
14,800.00	7,870.00	15,529.48	7,630.00	101.17	119.63	-83.14	-4,415.68	4,870.05	1,993.66	1,796.79	196.87	10.127		
14,900.00	7,870.00	15,629.48	7,630.00	102.71	120.66	-83.14	-4,515.68	4,869.72	1,993.66	1,793.67	199.99	9.969		
15,000.00	7,870.00	15,729.48	7,630.00	104.26	121.71	-83.14	-4,615.68	4,869.38	1,993.66	1,790.54	203.12	9.815		
15,100.00	7,870.00	15,829.48	7,630.00	105.82	122.80	-83.14	-4,715.68	4,869.04	1,993.66	1,787.40	206.26	9.666		
15,200.00	7,870.00	15,929.48	7,630.00	107.38	123.91	-83.14	-4,815.68	4,868.70	1,993.66	1,784.24	209.42	9.520		
15,300.00	7,870.00	16,029.48	7,630.00	108.95	125.05	-83.14	-4,915.68	4,868.37	1,993.66	1,781.08	212.59	9.378		
15,400.00	7,870.00	16,129.48	7,630.00	110.52	126.21	-83.14	-5,015.68	4,868.03	1,993.66	1,777.90	215.77	9.240		
15,500.00	7,870.00	16,229.48	7,630.00	112.10	127.40	-83.14	-5,115.68	4,867.69	1,993.66	1,774.71	218.95	9.105		
15,600.00	7,870.00	16,329.48	7,630.00	113.69	128.61	-83.14	-5,215.68	4,867.36	1,993.67	1,771.51	222.15	8.974		
15,700.00	7,870.00	16,429.48	7,630.00	115.28	129.85	-83.14	-5,315.67	4,867.02	1,993.67	1,768.31	225.36	8.847		
15,800.00	7,870.00	16,529.48	7,630.00	116.87	131.10	-83.14	-5,415.67	4,866.68	1,993.67	1,765.09	228.58	8.722		
15,900.00	7,870.00	16,629.48	7,630.00	118.47	132.38	-83.14	-5,515.67	4,866.35	1,993.67	1,761.87	231.80	8.601		
16,000.00	7,870.00	16,729.48	7,630.00	120.07	133.67	-83.14	-5,615.67	4,866.01	1,993.67	1,758.63	235.03	8.482		
16,100.00	7,870.00	16,829.48	7,630.00	121.68	134.98	-83.14	-5,715.67	4,865.67	1,993.67	1,755.39	238.28	8.367		
16,200.00	7,870.00	16,929.48	7,630.00	123.30	136.31	-83.14	-5,815.67	4,865.33	1,993.67	1,752.14	241.53	8.254		
16,300.00	7,870.00	17,029.48	7,630.00	124.91	137.65	-83.14	-5,915.67	4,865.00	1,993.67	1,748.89	244.78	8.145		
16,400.00	7,870.00	17,129.48	7,630.00	126.53	139.01	-83.14	-6,015.67	4,864.66	1,993.67	1,745.63	248.04	8.038		
16,500.00	7,870.00	17,229.48	7,630.00	128.16	140.38	-83.14	-6,115.67	4,864.32	1,993.67	1,742.36	251.32	7.933		
16,600.00	7,870.00	17,329.48	7,630.00	129.79	141.77	-83.14	-6,215.67	4,863.99	1,993.67	1,739.08	254.59	7.831		
16,700.00	7,870.00	17,429.48	7,630.00	131.42	143.17	-83.14	-6,315.67	4,863.65	1,993.67	1,735.80	257.87	7.731		
16,800.00	7,870.00	17,529.48	7,630.00	133.05	144.58	-83.14	-6,415.67	4,863.31	1,993.67	1,732.51	261.16	7.634		
16,900.00	7,870.00	17,629.48	7,630.00	134.69	146.00	-83.14	-6,515.67	4,862.98	1,993.67	1,729.22	264.46	7.539		
17,000.00	7,870.00	17,729.48	7,630.00	136.33	147.44	-83.14	-6,615.67	4,862.64	1,993.68	1,725.92	267.76	7.446		
17,100.00	7,870.00	17,829.48	7,630.00	137.97	148.88	-83.14	-6,715.67	4,862.30	1,993.68	1,722.61	271.06	7.355		
17,200.00	7,870.00	17,929.48	7,630.00	139.62	150.34	-83.14	-6,815.67	4,861.96	1,993.68	1,719.30	274.37	7.266		
17,300.00	7,870.00	18,029.48	7,630.00	141.27	151.80	-83.14	-6,915.67	4,861.63	1,993.68	1,715.99	277.69	7.179		
17,400.00	7,870.00	18,129.48	7,630.00	142.92	153.28	-83.14	-7,015.67	4,861.29	1,993.68	1,712.67	281.01	7.095		
17,500.00	7,870.00	18,229.48	7,630.00	144.58	154.76	-83.14	-7,115.66	4,860.95	1,993.68	1,709.34	284.34	7.012		
17,600.00	7,870.00	18,329.48	7,630.00	146.23	156.25	-83.14	-7,215.66	4,860.62	1,993.68	1,706.01	287.67	6.931		
17,700.00	7,870.00	18,429.48	7,630.00	147.89	157.75	-83.14	-7,315.66	4,860.28	1,993.68	1,702.68	291.00	6.851		
17,800.00	7,870.00	18,529.48	7,630.00	149.56	159.25	-83.14	-7,415.66	4,859.94	1,993.68	1,699.34	294.34	6.773		
17,900.00	7,870.00	18,629.48	7,630.00	151.22	160.77	-83.14	-7,515.66	4,859.61	1,993.68	1,696.00	297.68	6.697		
18,000.00	7,870.00	18,729.48	7,630.00	152.89	162.29	-83.14	-7,615.66	4,859.27	1,993.68	1,692.65	301.03	6.623		
18,100.00	7,870.00	18,829.48	7,630.00	154.55	163.82	-83.14	-7,715.66	4,858.93	1,993.68	1,689.30	304.38	6.550		
18,200.00	7,870.00	18,929.48	7,630.00	156.22	165.35	-83.14	-7,815.66	4,858.59	1,993.68	1,685.95	307.73	6.479		
18,300.00	7,870.00	19,029.48	7,630.00	157.90	166.89	-83.14	-7,915.66	4,858.26	1,993.68	1,682.60	311.09	6.409		
18,400.00	7,870.00	19,129.48	7,630.00	159.57	168.43	-83.14	-8,015.66	4,857.92	1,993.69	1,679.24	314.45	6.340		
18,500.00	7,870.00	19,229.48	7,630.00	161.25	169.98	-83.14	-8,115.66	4,857.58	1,993.69	1,675.87	317.81	6.273		
18,600.00	7,870.00	19,329.48	7,630.00	162.93	171.54	-83.14	-8,215.66	4,857.25	1,993.69	1,672.51	321.18	6.207		
18,700.00	7,870.00	19,429.48	7,630.00	164.60	173.10	-83.14	-8,315.66	4,856.91	1,993.69	1,669.14	324.55	6.143		
18,707.67	7,870.00	19,437.15	7,630.00	164.73	173.22	-83.14	-8,323.32	4,856.88	1,993.69	1,668.88	324.81	6.138		
18,797.52	7,870.00	19,518.56	7,630.00	166.24	174.50	-83.14	-8,404.74	4,856.61	1,993.71	1,665.64	328.07	6.077 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	90.30	-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	298.00	298.00	0.85	0.84	90.30	-0.36	70.00	70.00	68.31	1.70	41.285 CC, ES		
400.00	400.00	395.80	395.78	1.21	1.19	89.81	0.23	71.49	71.52	69.12	2.40	29.775		
500.00	500.00	493.32	493.18	1.57	1.54	88.45	2.06	76.05	76.23	73.13	3.11	24.540		
600.00	600.00	590.41	589.91	1.93	1.90	86.50	5.11	83.65	84.20	80.39	3.81	22.102		
700.00	700.00	686.82	685.65	2.29	2.26	84.34	9.34	94.20	95.47	90.96	4.51	21.175		
800.00	800.00	782.37	780.09	2.64	2.65	82.21	14.72	107.60	110.07	104.87	5.20	21.162		
900.00	900.00	876.84	872.95	3.00	3.06	80.28	21.18	123.72	128.00	122.11	5.89	21.745		
1,000.00	1,000.00	970.06	963.97	3.36	3.49	78.62	28.67	142.40	149.19	142.63	6.56	22.734		
1,100.00	1,099.98	1,062.26	1,053.30	3.72	3.95	22.61	37.16	163.57	172.03	164.81	7.22	23.816		
1,200.00	1,199.84	1,153.80	1,141.21	4.07	4.44	21.77	46.65	187.21	194.87	187.00	7.86	24.777		
1,300.00	1,299.45	1,244.68	1,227.66	4.43	4.97	21.28	57.09	213.26	217.63	209.12	8.51	25.570		
1,400.00	1,398.70	1,334.94	1,312.58	4.80	5.54	21.05	68.47	241.63	240.27	231.12	9.16	26.244		
1,500.00	1,497.47	1,424.58	1,395.92	5.18	6.15	21.00	80.75	272.25	262.78	252.98	9.80	26.813		
1,600.00	1,595.62	1,513.61	1,477.64	5.57	6.79	21.10	93.91	305.04	285.12	274.67	10.45	27.287		
1,700.00	1,693.06	1,602.06	1,557.69	6.00	7.49	21.29	107.90	339.94	307.28	296.18	11.10	27.674		
1,800.00	1,789.64	1,689.93	1,636.04	6.45	8.23	21.58	122.71	376.86	329.26	317.49	11.77	27.977		
1,900.00	1,885.27	1,777.25	1,712.65	6.94	9.02	21.92	138.31	415.74	351.04	338.59	12.45	28.201		
2,000.00	1,979.82	1,864.02	1,787.48	7.47	9.85	22.32	154.66	456.51	372.62	359.47	13.14	28.348		
2,100.00	2,073.17	1,950.27	1,860.50	8.05	10.73	22.76	171.74	499.09	393.99	380.13	13.86	28.420		
2,200.00	2,165.21	2,036.00	1,931.69	8.67	11.66	23.24	189.52	543.43	415.15	400.54	14.61	28.415		
2,300.00	2,255.84	2,121.24	2,001.02	9.35	12.63	23.74	207.98	589.45	436.09	420.70	15.39	28.334		
2,400.00	2,344.94	2,205.99	2,068.46	10.09	13.65	24.27	227.08	637.09	456.82	440.61	16.21	28.178		
2,500.00	2,432.39	2,290.29	2,134.00	10.89	14.72	24.81	246.81	686.28	477.33	460.25	17.08	27.944		
2,519.29	2,449.07	2,306.50	2,146.42	11.05	14.93	24.92	250.69	695.95	481.26	464.01	17.25	27.894		
2,600.00	2,518.69	2,381.73	2,203.64	11.74	15.92	25.54	268.88	741.29	498.20	480.05	18.14	27.460		
2,700.00	2,604.95	2,479.25	2,277.73	12.62	17.23	26.29	292.48	800.14	519.37	500.01	19.36	26.823		
2,800.00	2,691.22	2,576.77	2,351.82	13.52	18.55	26.98	316.08	858.99	540.62	520.01	20.62	26.220		
2,900.00	2,777.48	2,674.29	2,425.91	14.43	19.87	27.61	339.69	917.84	561.95	540.04	21.91	25.653		
3,000.00	2,863.75	2,771.80	2,500.00	15.35	21.20	28.20	363.29	976.68	583.33	560.11	23.22	25.121		
3,100.00	2,950.01	2,869.32	2,574.09	16.28	22.54	28.75	386.89	1,035.53	604.77	580.20	24.56	24.622		
3,200.00	3,036.27	2,966.84	2,648.18	17.22	23.89	29.26	410.49	1,094.38	626.25	600.33	25.92	24.157		
3,300.00	3,122.54	3,064.35	2,722.27	18.17	25.23	29.74	434.10	1,153.23	647.78	620.48	27.31	23.721		
3,400.00	3,208.80	3,161.87	2,796.36	19.13	26.59	30.18	457.70	1,212.07	669.36	640.65	28.71	23.315		
3,500.00	3,295.07	3,259.39	2,870.45	20.09	27.94	30.60	481.30	1,270.92	690.96	660.84	30.13	22.935		
3,600.00	3,381.33	3,356.90	2,944.55	21.05	29.30	30.99	504.90	1,329.77	712.61	681.05	31.56	22.580		
3,700.00	3,467.59	3,454.42	3,018.64	22.02	30.65	31.36	528.51	1,388.62	734.28	701.27	33.01	22.247		
3,800.00	3,553.86	3,551.94	3,092.73	22.99	32.02	31.71	552.11	1,447.46	755.98	721.51	34.46	21.935		
3,900.00	3,640.12	3,649.46	3,166.82	23.97	33.38	32.04	575.71	1,506.31	777.70	741.77	35.93	21.643		
4,000.00	3,726.38	3,746.97	3,240.91	24.95	34.74	32.35	599.31	1,565.16	799.45	762.03	37.41	21.369		
4,100.00	3,812.65	3,844.49	3,315.00	25.93	36.11	32.65	622.92	1,624.01	821.21	782.31	38.90	21.111		
4,200.00	3,898.91	3,942.01	3,389.09	26.91	37.47	32.93	646.52	1,682.85	843.00	802.61	40.40	20.868		
4,300.00	3,985.18	4,039.52	3,463.18	27.90	38.84	33.19	670.12	1,741.70	864.81	822.91	41.90	20.639		
4,400.00	4,071.44	4,137.04	3,537.27	28.88	40.21	33.44	693.72	1,800.55	886.63	843.22	43.41	20.423		
4,500.00	4,157.70	4,234.56	3,611.36	29.87	41.58	33.68	717.33	1,859.40	908.47	863.54	44.93	20.219		
4,600.00	4,243.97	4,332.07	3,685.45	30.86	42.95	33.91	740.93	1,918.24	930.32	883.87	46.46	20.026		
4,700.00	4,330.23	4,429.59	3,759.54	31.85	44.32	34.13	764.53	1,977.09	952.19	904.20	47.99	19.843		
4,800.00	4,416.49	4,527.11	3,833.63	32.84	45.69	34.34	788.14	2,035.94	974.07	924.55	49.52	19.670		
4,900.00	4,502.76	4,624.62	3,907.73	33.84	47.06	34.54	811.74	2,094.79	995.96	944.90	51.06	19.505		
5,000.00	4,589.02	4,722.14	3,981.82	34.83	48.43	34.73	835.34	2,153.63	1,017.86	965.26	52.61	19.349		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,819.66	4,055.91	35.82	49.81	34.91	858.94	2,212.48	1,039.78	985.62	54.16	19.200		
5,200.00	4,761.55	4,917.18	4,130.00	36.82	51.18	35.09	882.55	2,271.33	1,061.70	1,005.99	55.71	19.058		
5,300.00	4,847.81	5,014.69	4,204.09	37.82	52.55	35.26	906.15	2,330.18	1,083.63	1,026.36	57.26	18.923		
5,400.00	4,934.08	5,112.21	4,278.18	38.81	53.93	35.42	929.75	2,389.02	1,105.57	1,046.74	58.82	18.794		
5,500.00	5,020.34	5,209.73	4,352.27	39.81	55.30	35.58	953.35	2,447.87	1,127.52	1,067.13	60.39	18.671		
5,600.00	5,106.60	5,307.24	4,426.36	40.81	56.68	35.72	976.96	2,506.72	1,149.47	1,087.52	61.95	18.554		
5,700.00	5,192.87	5,404.76	4,500.45	41.81	58.05	35.87	1,000.56	2,565.57	1,171.44	1,107.91	63.52	18.441		
5,800.00	5,279.13	5,502.28	4,574.54	42.81	59.43	36.01	1,024.16	2,624.41	1,193.40	1,128.31	65.09	18.334		
5,900.00	5,365.40	5,599.79	4,648.63	43.81	60.80	36.14	1,047.76	2,683.26	1,215.38	1,148.71	66.67	18.230		
6,000.00	5,451.66	5,702.69	4,722.72	44.81	62.25	36.27	1,071.37	2,742.11	1,237.36	1,169.08	68.29	18.120		
6,100.00	5,537.92	5,805.17	4,796.82	45.81	63.70	36.39	1,094.97	2,800.96	1,259.35	1,189.45	69.90	18.015		
6,200.00	5,624.19	5,907.66	4,870.91	46.81	65.15	36.51	1,118.57	2,859.80	1,281.34	1,209.82	71.53	17.915		
6,300.00	5,710.45	5,989.86	4,945.00	47.81	66.31	36.63	1,142.17	2,918.65	1,303.34	1,230.36	72.99	17.857		
6,400.00	5,796.72	6,087.38	5,019.09	48.81	67.68	36.74	1,165.78	2,977.50	1,325.34	1,250.77	74.57	17.773		
6,500.00	5,882.98	6,184.90	5,093.18	49.81	69.06	36.85	1,189.38	3,036.35	1,347.35	1,271.20	76.16	17.692		
6,600.00	5,969.24	6,282.41	5,167.27	50.82	70.44	36.96	1,212.98	3,095.19	1,369.37	1,291.62	77.75	17.613		
6,700.00	6,055.51	6,379.93	5,241.36	51.82	71.81	37.06	1,236.58	3,154.04	1,391.38	1,312.05	79.34	17.538		
6,800.00	6,141.77	6,477.45	5,315.45	52.82	73.19	37.16	1,260.19	3,212.89	1,413.40	1,332.48	80.93	17.465		
6,900.00	6,228.03	6,574.96	5,389.54	53.83	74.57	37.25	1,283.79	3,271.74	1,435.43	1,352.91	82.52	17.395		
7,000.00	6,314.30	6,672.48	5,463.63	54.83	75.95	37.34	1,307.39	3,330.58	1,457.46	1,373.34	84.11	17.327		
7,100.00	6,400.56	6,770.00	5,537.72	55.83	77.32	37.43	1,330.99	3,389.43	1,479.49	1,393.78	85.71	17.262		
7,200.00	6,486.83	6,867.51	5,611.81	56.84	78.70	37.52	1,354.60	3,448.28	1,501.52	1,414.22	87.31	17.198		
7,300.00	6,573.09	6,965.03	5,685.90	57.84	80.08	37.61	1,378.20	3,507.13	1,523.56	1,434.66	88.90	17.137		
7,400.00	6,659.35	7,062.55	5,760.00	58.84	81.46	37.69	1,401.80	3,565.97	1,545.60	1,455.10	90.50	17.078		
7,500.00	6,745.62	7,160.07	5,834.09	59.85	82.84	37.77	1,425.40	3,624.82	1,567.65	1,475.54	92.10	17.020		
7,600.00	6,831.88	7,257.58	5,908.18	60.85	84.21	37.85	1,449.01	3,683.67	1,589.69	1,495.99	93.71	16.965		
7,700.00	6,918.14	7,355.10	5,982.27	61.86	85.59	37.92	1,472.61	3,742.52	1,611.74	1,516.44	95.31	16.911		
7,800.00	7,004.41	7,452.62	6,056.36	62.86	86.97	37.99	1,496.21	3,801.36	1,633.80	1,536.88	96.91	16.859		
7,900.00	7,090.67	7,550.13	6,130.45	63.87	88.35	38.07	1,519.82	3,860.21	1,655.85	1,557.33	98.52	16.808		
8,000.00	7,176.94	7,647.65	6,204.54	64.87	89.73	38.14	1,543.42	3,919.06	1,677.91	1,577.79	100.12	16.759		
8,027.52	7,200.68	7,674.49	6,224.93	65.15	90.11	38.16	1,549.91	3,935.26	1,683.98	1,583.42	100.56	16.746		
8,050.00	7,220.18	7,703.58	6,241.60	65.37	90.52	35.26	1,555.22	3,948.49	1,688.89	1,587.93	100.96	16.729		
8,100.00	7,264.25	7,745.18	6,278.64	65.85	91.11	27.70	1,567.02	3,977.92	1,699.42	1,597.96	101.47	16.749		
8,150.00	7,308.99	7,806.40	6,315.43	66.28	91.97	18.78	1,578.74	4,007.14	1,709.39	1,607.50	101.88	16.778		
8,200.00	7,354.07	7,841.31	6,351.68	66.67	92.47	8.97	1,590.29	4,035.93	1,718.76	1,616.92	101.84	16.877		
8,250.00	7,399.14	7,887.95	6,387.11	67.02	93.13	-0.99	1,601.58	4,064.07	1,727.55	1,625.91	101.64	16.996		
8,300.00	7,443.85	7,933.15	6,421.46	67.32	93.76	-10.39	1,612.52	4,091.35	1,735.81	1,634.61	101.20	17.152		
8,350.00	7,487.88	7,976.58	6,454.45	67.56	94.38	-18.75	1,623.03	4,117.56	1,743.60	1,643.08	100.53	17.344		
8,400.00	7,530.87	8,017.91	6,485.85	67.75	94.96	-25.89	1,633.03	4,142.50	1,751.02	1,651.39	99.63	17.575		
8,450.00	7,572.51	8,056.82	6,515.42	67.90	95.51	-31.83	1,642.45	4,165.98	1,758.17	1,659.63	98.54	17.843		
8,500.00	7,612.48	8,106.98	6,542.92	68.00	96.22	-36.73	1,651.21	4,187.82	1,765.17	1,667.80	97.37	18.128		
8,550.00	7,650.47	8,126.22	6,568.15	68.05	96.50	-40.72	1,659.25	4,207.86	1,772.14	1,676.29	95.85	18.488		
8,600.00	7,686.20	8,156.19	6,590.91	68.06	96.92	-43.95	1,666.50	4,225.94	1,779.21	1,684.88	94.33	18.861		
8,650.00	7,719.39	8,182.68	6,611.04	68.03	97.29	-46.51	1,672.91	4,241.93	1,786.48	1,693.75	92.74	19.264		
8,700.00	7,749.79	8,205.51	6,628.38	67.97	97.62	-48.49	1,678.44	4,255.70	1,794.07	1,702.96	91.11	19.690		
8,750.00	7,777.17	8,224.48	6,642.80	67.87	97.88	-49.94	1,683.03	4,267.15	1,802.05	1,712.54	89.51	20.133		
8,800.00	7,801.32	8,239.47	6,654.19	67.74	98.10	-50.92	1,686.66	4,276.20	1,810.47	1,722.51	87.96	20.583		
8,850.00	7,822.06	8,250.35	6,662.45	67.59	98.25	-51.45	1,689.29	4,282.76	1,819.38	1,732.87	86.51	21.031		
8,900.00	7,839.23	8,257.04	6,667.54	67.41	98.34	-51.56	1,690.91	4,286.80	1,828.76	1,743.56	85.20	21.465		
8,950.00	7,852.69	8,259.50	6,669.41	67.22	98.38	-51.29	1,691.51	4,288.29	1,838.58	1,754.53	84.05	21.874		
9,000.00	7,862.35	8,257.70	6,668.04	67.00	98.35	-50.65	1,691.07	4,287.20	1,848.79	1,765.69	83.10	22.247		
9,050.00	7,868.14	8,251.66	6,663.45	66.78	98.27	-49.67	1,689.61	4,283.55	1,859.28	1,776.93	82.36	22.576		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,241.75	6,655.92	66.55	98.13	-48.42	1,687.21	4,277.57	1,869.64	1,787.82	81.83	22.848		
9,100.00	7,870.00	8,241.42	6,655.67	66.55	98.12	-48.41	1,687.13	4,277.37	1,869.93	1,788.12	81.82	22.855		
9,200.00	7,870.00	8,217.01	6,637.13	66.09	97.78	-47.67	1,681.22	4,262.65	1,893.73	1,812.36	81.37	23.272		
9,300.00	7,870.00	8,207.40	6,618.58	65.65	97.64	-46.93	1,675.32	4,247.92	1,922.13	1,840.30	81.83	23.490		
9,400.00	7,870.00	8,168.20	6,600.04	65.24	97.09	-46.20	1,669.41	4,233.19	1,954.93	1,872.12	82.82	23.606		
9,500.00	7,870.00	8,143.79	6,581.49	64.85	96.74	-45.46	1,663.50	4,218.46	1,991.92	1,907.44	84.48	23.579		
9,600.00	7,870.00	8,119.38	6,562.95	64.48	96.40	-44.72	1,657.59	4,203.73	2,032.87	1,946.27	86.60	23.475		
9,700.00	7,870.00	8,105.02	6,544.41	64.13	96.20	-43.99	1,651.69	4,189.00	2,077.54	1,988.43	89.11	23.315		
9,800.00	7,870.00	8,070.57	6,525.86	63.80	95.71	-43.26	1,645.78	4,174.27	2,125.69	2,033.98	91.71	23.178		
9,900.00	7,870.00	8,046.16	6,507.32	63.50	95.36	-42.54	1,639.87	4,159.54	2,177.11	2,082.60	94.50	23.037		
10,000.00	7,870.00	8,021.75	6,488.77	63.22	95.02	-41.81	1,633.96	4,144.82	2,231.55	2,134.21	97.34	22.925		
10,100.00	7,870.00	8,002.65	6,470.23	62.96	94.75	-41.09	1,628.06	4,130.09	2,288.81	2,188.60	100.21	22.840		
10,200.00	7,870.00	11,301.75	7,870.00	62.72	113.19	-90.05	183.15	5,235.53	2,329.35	2,240.31	89.04	26.161		
10,300.00	7,870.00	11,401.75	7,870.00	62.50	113.03	-90.05	83.15	5,235.19	2,329.35	2,239.85	89.50	26.027		
10,400.00	7,870.00	11,501.75	7,870.00	62.31	112.89	-90.05	-16.85	5,234.86	2,329.35	2,239.26	90.09	25.855		
10,500.00	7,870.00	11,601.75	7,870.00	62.15	112.76	-90.05	-116.85	5,234.52	2,329.36	2,238.53	90.82	25.647		
10,600.00	7,870.00	11,701.75	7,870.00	62.01	112.64	-90.05	-216.84	5,234.19	2,329.36	2,237.67	91.68	25.407		
10,700.00	7,870.00	11,801.75	7,870.00	61.90	112.53	-90.05	-316.84	5,233.85	2,329.36	2,236.69	92.67	25.136		
10,800.00	7,870.00	11,901.75	7,870.00	61.82	112.43	-90.05	-416.84	5,233.52	2,329.36	2,235.58	93.78	24.838		
10,900.00	7,870.00	12,001.75	7,870.00	61.78	112.35	-90.05	-516.84	5,233.18	2,329.36	2,234.35	95.01	24.517		
11,000.00	7,870.00	12,101.75	7,870.00	61.77	112.29	-90.05	-616.84	5,232.85	2,329.37	2,233.01	96.36	24.175		
11,100.00	7,870.00	12,201.75	7,870.00	61.81	112.24	-90.05	-716.84	5,232.51	2,329.37	2,231.56	97.81	23.816		
11,200.00	7,870.00	12,301.75	7,870.00	61.90	112.20	-90.05	-816.84	5,232.18	2,329.37	2,230.01	99.37	23.442		
11,300.00	7,870.00	12,401.75	7,870.00	62.03	112.17	-90.05	-916.84	5,231.84	2,329.37	2,228.35	101.02	23.058		
11,400.00	7,870.00	12,501.75	7,870.00	62.23	112.16	-90.05	-1,016.84	5,231.51	2,329.38	2,226.60	102.77	22.665		
11,500.00	7,870.00	12,601.75	7,870.00	62.50	112.17	-90.05	-1,116.84	5,231.17	2,329.38	2,224.76	104.61	22.266		
11,600.00	7,870.00	12,701.75	7,870.00	62.84	112.19	-90.05	-1,216.84	5,230.84	2,329.38	2,222.84	106.54	21.863		
11,700.00	7,870.00	12,801.75	7,870.00	63.25	112.23	-90.05	-1,316.84	5,230.50	2,329.38	2,220.83	108.55	21.459		
11,800.00	7,870.00	12,901.75	7,870.00	63.76	112.29	-90.05	-1,416.84	5,230.16	2,329.39	2,218.75	110.63	21.055		
11,900.00	7,870.00	13,001.75	7,870.00	64.34	112.36	-90.05	-1,516.84	5,229.83	2,329.39	2,216.60	112.79	20.653		
12,000.00	7,870.00	13,101.75	7,870.00	65.01	112.45	-90.05	-1,616.84	5,229.49	2,329.39	2,214.38	115.01	20.253		
12,100.00	7,870.00	13,201.75	7,870.00	65.77	112.56	-90.05	-1,716.84	5,229.16	2,329.39	2,212.09	117.30	19.859		
12,200.00	7,870.00	13,301.75	7,870.00	66.61	112.69	-90.05	-1,816.84	5,228.82	2,329.40	2,209.75	119.65	19.469		
12,300.00	7,870.00	13,401.75	7,870.00	67.51	112.83	-90.05	-1,916.84	5,228.49	2,329.40	2,207.35	122.05	19.085		
12,400.00	7,870.00	13,501.75	7,870.00	68.49	113.00	-90.05	-2,016.83	5,228.15	2,329.40	2,204.89	124.51	18.708		
12,500.00	7,870.00	13,601.75	7,870.00	69.52	113.19	-90.05	-2,116.83	5,227.82	2,329.40	2,202.38	127.02	18.339		
12,600.00	7,870.00	13,701.75	7,870.00	70.61	113.40	-90.05	-2,216.83	5,227.48	2,329.40	2,199.83	129.58	17.977		
12,700.00	7,870.00	13,801.75	7,870.00	71.75	113.64	-90.05	-2,316.83	5,227.15	2,329.41	2,197.23	132.18	17.623		
12,800.00	7,870.00	13,901.75	7,870.00	72.93	113.90	-90.05	-2,416.83	5,226.81	2,329.41	2,194.59	134.82	17.278		
12,900.00	7,870.00	14,001.75	7,870.00	74.14	114.18	-90.05	-2,516.83	5,226.48	2,329.41	2,191.91	137.51	16.941		
13,000.00	7,870.00	14,101.75	7,870.00	75.39	114.49	-90.05	-2,616.83	5,226.14	2,329.41	2,189.19	140.23	16.612		
13,100.00	7,870.00	14,201.75	7,870.00	76.67	114.83	-90.05	-2,716.83	5,225.80	2,329.42	2,186.43	142.98	16.292		
13,200.00	7,870.00	14,301.75	7,870.00	77.98	115.19	-90.05	-2,816.83	5,225.47	2,329.42	2,183.65	145.77	15.980		
13,300.00	7,870.00	14,401.75	7,870.00	79.31	115.58	-90.05	-2,916.83	5,225.13	2,329.42	2,180.83	148.59	15.676		
13,400.00	7,870.00	14,501.75	7,870.00	80.67	116.00	-90.05	-3,016.83	5,224.80	2,329.42	2,177.98	151.45	15.381		
13,500.00	7,870.00	14,601.75	7,870.00	82.04	116.45	-90.05	-3,116.83	5,224.46	2,329.43	2,175.10	154.32	15.094		
13,600.00	7,870.00	14,701.75	7,870.00	83.43	116.93	-90.05	-3,216.83	5,224.13	2,329.43	2,172.20	157.23	14.815		
13,700.00	7,870.00	14,801.75	7,870.00	84.84	117.45	-90.05	-3,316.83	5,223.79	2,329.43	2,169.27	160.16	14.544		
13,800.00	7,870.00	14,901.75	7,870.00	86.27	117.99	-90.05	-3,416.83	5,223.46	2,329.43	2,166.32	163.12	14.281		
13,900.00	7,870.00	15,001.75	7,870.00	87.71	118.57	-90.05	-3,516.83	5,223.12	2,329.44	2,163.34	166.10	14.025		
14,000.00	7,870.00	15,101.75	7,870.00	89.16	119.18	-90.05	-3,616.83	5,222.79	2,329.44	2,160.34	169.09	13.776		
14,100.00	7,870.00	15,201.75	7,870.00	90.63	119.82	-90.05	-3,716.83	5,222.45	2,329.44	2,157.33	172.11	13.534		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	15,301.75	7,870.00	92.10	120.50	-90.05	-3,816.82	5,222.12	2,329.44	2,154.29	175.15	13.300		
14,300.00	7,870.00	15,401.75	7,870.00	93.59	121.21	-90.05	-3,916.82	5,221.78	2,329.44	2,151.24	178.21	13.071		
14,400.00	7,870.00	15,501.75	7,870.00	95.09	121.95	-90.05	-4,016.82	5,221.44	2,329.45	2,148.16	181.28	12.850		
14,500.00	7,870.00	15,601.75	7,870.00	96.60	122.72	-90.05	-4,116.82	5,221.11	2,329.45	2,145.08	184.37	12.634		
14,600.00	7,870.00	15,701.75	7,870.00	98.11	123.53	-90.05	-4,216.82	5,220.77	2,329.45	2,141.97	187.48	12.425		
14,700.00	7,870.00	15,801.75	7,870.00	99.64	124.38	-90.05	-4,316.82	5,220.44	2,329.45	2,138.85	190.60	12.222		
14,800.00	7,870.00	15,901.75	7,870.00	101.17	125.25	-90.05	-4,416.82	5,220.10	2,329.46	2,135.72	193.74	12.024		
14,900.00	7,870.00	16,001.75	7,870.00	102.71	126.16	-90.05	-4,516.82	5,219.77	2,329.46	2,132.57	196.88	11.832		
15,000.00	7,870.00	16,101.75	7,870.00	104.26	127.09	-90.05	-4,616.82	5,219.43	2,329.46	2,129.41	200.05	11.645		
15,100.00	7,870.00	16,201.75	7,870.00	105.82	128.06	-90.05	-4,716.82	5,219.10	2,329.46	2,126.24	203.22	11.463		
15,200.00	7,870.00	16,301.75	7,870.00	107.38	129.05	-90.05	-4,816.82	5,218.76	2,329.47	2,123.06	206.41	11.286		
15,300.00	7,870.00	16,401.75	7,870.00	108.95	130.08	-90.05	-4,916.82	5,218.43	2,329.47	2,119.87	209.60	11.114		
15,400.00	7,870.00	16,501.75	7,870.00	110.52	131.13	-90.05	-5,016.82	5,218.09	2,329.47	2,116.66	212.81	10.946		
15,500.00	7,870.00	16,601.75	7,870.00	112.10	132.21	-90.05	-5,116.82	5,217.76	2,329.47	2,113.45	216.03	10.783		
15,600.00	7,870.00	16,701.75	7,870.00	113.69	133.31	-90.05	-5,216.82	5,217.42	2,329.48	2,110.22	219.25	10.625		
15,700.00	7,870.00	16,801.75	7,870.00	115.28	134.44	-90.05	-5,316.82	5,217.09	2,329.48	2,106.99	222.49	10.470		
15,800.00	7,870.00	16,901.75	7,870.00	116.87	135.59	-90.05	-5,416.82	5,216.75	2,329.48	2,103.74	225.74	10.319		
15,900.00	7,870.00	17,001.75	7,870.00	118.47	136.77	-90.05	-5,516.81	5,216.41	2,329.48	2,100.49	228.99	10.173		
16,000.00	7,870.00	17,101.75	7,870.00	120.07	137.96	-90.05	-5,616.81	5,216.08	2,329.48	2,097.23	232.25	10.030		
16,100.00	7,870.00	17,201.75	7,870.00	121.68	139.18	-90.05	-5,716.81	5,215.74	2,329.49	2,093.96	235.52	9.891		
16,200.00	7,870.00	17,301.75	7,870.00	123.30	140.42	-90.05	-5,816.81	5,215.41	2,329.49	2,090.69	238.80	9.755		
16,300.00	7,870.00	17,401.75	7,870.00	124.91	141.67	-90.05	-5,916.81	5,215.07	2,329.49	2,087.41	242.08	9.623		
16,400.00	7,870.00	17,501.75	7,870.00	126.53	142.95	-90.05	-6,016.81	5,214.74	2,329.49	2,084.12	245.38	9.494		
16,500.00	7,870.00	17,601.75	7,870.00	128.16	144.24	-90.05	-6,116.81	5,214.40	2,329.50	2,080.82	248.67	9.368		
16,600.00	7,870.00	17,701.75	7,870.00	129.79	145.54	-90.05	-6,216.81	5,214.07	2,329.50	2,077.52	251.98	9.245		
16,700.00	7,870.00	17,801.75	7,870.00	131.42	146.87	-90.05	-6,316.81	5,213.73	2,329.50	2,074.21	255.29	9.125		
16,800.00	7,870.00	17,901.75	7,870.00	133.05	148.21	-90.05	-6,416.81	5,213.40	2,329.50	2,070.90	258.61	9.008		
16,900.00	7,870.00	18,001.75	7,870.00	134.69	149.56	-90.05	-6,516.81	5,213.06	2,329.51	2,067.58	261.93	8.894		
17,000.00	7,870.00	18,101.75	7,870.00	136.33	150.92	-90.05	-6,616.81	5,212.73	2,329.51	2,064.25	265.26	8.782		
17,100.00	7,870.00	18,201.75	7,870.00	137.97	152.30	-90.05	-6,716.81	5,212.39	2,329.51	2,060.92	268.59	8.673		
17,200.00	7,870.00	18,301.75	7,870.00	139.62	153.70	-90.05	-6,816.81	5,212.05	2,329.51	2,057.58	271.93	8.567		
17,300.00	7,870.00	18,401.75	7,870.00	141.27	155.10	-90.05	-6,916.81	5,211.72	2,329.52	2,054.24	275.27	8.463		
17,400.00	7,870.00	18,501.75	7,870.00	142.92	156.51	-90.05	-7,016.81	5,211.38	2,329.52	2,050.90	278.62	8.361		
17,500.00	7,870.00	18,601.75	7,870.00	144.58	157.94	-90.05	-7,116.81	5,211.05	2,329.52	2,047.55	281.97	8.262		
17,600.00	7,870.00	18,701.75	7,870.00	146.23	159.37	-90.05	-7,216.81	5,210.71	2,329.52	2,044.19	285.33	8.164		
17,700.00	7,870.00	18,801.75	7,870.00	147.89	160.82	-90.05	-7,316.80	5,210.38	2,329.52	2,040.83	288.69	8.069		
17,800.00	7,870.00	18,901.75	7,870.00	149.56	162.27	-90.05	-7,416.80	5,210.04	2,329.53	2,037.47	292.06	7.976		
17,900.00	7,870.00	19,001.75	7,870.00	151.22	163.74	-90.05	-7,516.80	5,209.71	2,329.53	2,034.10	295.43	7.885		
18,000.00	7,870.00	19,101.75	7,870.00	152.89	165.21	-90.05	-7,616.80	5,209.37	2,329.53	2,030.73	298.80	7.796		
18,100.00	7,870.00	19,201.75	7,870.00	154.55	166.69	-90.05	-7,716.80	5,209.04	2,329.53	2,027.36	302.17	7.709		
18,200.00	7,870.00	19,301.75	7,870.00	156.22	168.18	-90.05	-7,816.80	5,208.70	2,329.54	2,023.98	305.55	7.624		
18,300.00	7,870.00	19,401.75	7,870.00	157.90	169.67	-90.05	-7,916.80	5,208.37	2,329.54	2,020.60	308.94	7.540		
18,400.00	7,870.00	19,501.75	7,870.00	159.57	171.18	-90.05	-8,016.80	5,208.03	2,329.54	2,017.22	312.33	7.459		
18,500.00	7,870.00	19,601.75	7,870.00	161.25	172.69	-90.05	-8,116.80	5,207.69	2,329.54	2,013.83	315.72	7.379		
18,600.00	7,870.00	19,701.75	7,870.00	162.93	174.20	-90.05	-8,216.80	5,207.36	2,329.55	2,010.44	319.11	7.300		
18,700.00	7,870.00	19,801.75	7,870.00	164.60	175.72	-90.05	-8,316.80	5,207.02	2,329.55	2,007.04	322.51	7.223		
18,706.80	7,870.00	19,808.55	7,870.00	164.72	175.83	-90.05	-8,323.60	5,207.00	2,329.55	2,006.81	322.74	7.218		
18,797.52	7,870.00	19,889.26	7,870.00	166.24	177.06	-90.05	-8,404.30	5,206.73	2,329.57	2,003.54	326.04	7.145 SF		

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	-2.00	0.00	0.00	90.26	-0.36	79.80	79.80					
100.00	100.00	102.00	98.00	0.13	0.14	90.26	-0.36	79.80	79.80	79.53	0.28	289.112		
200.00	200.00	198.00	198.00	0.49	0.49	90.26	-0.36	79.80	79.80	78.82	0.98	81.544	CC, ES	
300.00	300.00	295.48	295.46	0.85	0.83	89.86	0.20	81.29	81.33	79.64	1.69	48.237		
400.00	400.00	392.69	392.54	1.21	1.18	88.71	1.93	85.86	86.05	83.66	2.39	35.957		
500.00	500.00	489.46	488.96	1.57	1.54	87.06	4.80	93.47	94.03	90.93	3.10	30.336		
600.00	600.00	585.57	584.40	1.93	1.91	85.17	8.80	104.03	105.29	101.48	3.80	27.687		
700.00	700.00	680.81	678.55	2.29	2.30	83.26	13.87	117.45	119.86	115.36	4.50	26.632		
800.00	800.00	774.99	771.14	2.64	2.72	81.50	19.97	133.59	137.72	132.53	5.19	26.530		
900.00	900.00	867.93	861.90	3.00	3.16	79.93	27.05	152.31	158.85	152.97	5.87	27.042		
1,000.00	1,000.00	959.46	950.60	3.36	3.62	78.58	35.03	173.41	183.16	176.61	6.55	27.968		
1,100.00	1,099.98	1,049.88	1,037.46	3.72	4.12	22.78	43.89	196.86	209.03	201.84	7.19	29.057		
1,200.00	1,199.84	1,139.58	1,122.82	4.07	4.65	22.04	53.64	222.64	234.85	227.00	7.84	29.942		
1,300.00	1,299.45	1,228.58	1,206.62	4.43	5.22	21.61	64.24	250.67	260.53	252.05	8.49	30.702		
1,400.00	1,398.70	1,316.91	1,288.83	4.80	5.82	21.40	75.66	280.89	286.05	276.93	9.13	31.339		
1,500.00	1,497.47	1,404.58	1,369.39	5.18	6.47	21.35	87.88	313.22	311.38	301.61	9.77	31.868		
1,600.00	1,595.62	1,491.60	1,448.29	5.57	7.16	21.42	100.87	347.57	336.49	326.07	10.42	32.296		
1,700.00	1,693.06	1,578.00	1,525.47	6.00	7.90	21.59	114.59	383.87	361.37	350.30	11.07	32.633		
1,800.00	1,789.64	1,663.79	1,600.92	6.45	8.68	21.83	129.03	422.06	386.01	374.27	11.74	32.886		
1,900.00	1,885.27	1,748.99	1,674.61	6.94	9.50	22.13	144.15	462.06	410.40	397.98	12.42	33.055		
2,000.00	1,979.82	1,833.62	1,746.51	7.47	10.36	22.48	159.94	503.80	434.53	421.42	13.11	33.144		
2,100.00	2,073.17	1,917.69	1,816.61	8.05	11.27	22.87	176.35	547.22	458.39	444.57	13.83	33.153		
2,200.00	2,165.21	2,001.23	1,884.87	8.67	12.22	23.29	193.37	592.25	481.99	467.42	14.57	33.082		
2,300.00	2,255.84	2,084.24	1,951.29	9.35	13.22	23.73	210.98	638.82	505.31	489.96	15.35	32.924		
2,400.00	2,344.94	2,166.75	2,015.85	10.09	14.27	24.20	229.15	686.87	528.36	512.19	16.17	32.685		
2,500.00	2,432.39	2,248.77	2,078.54	10.89	15.35	24.69	247.85	736.34	551.12	534.09	17.03	32.367		
2,519.29	2,449.07	2,264.54	2,090.42	11.05	15.57	24.79	251.52	746.05	555.48	538.28	17.20	32.301		
2,600.00	2,518.69	2,330.14	2,139.21	11.74	16.48	25.31	267.03	787.07	574.60	556.67	17.93	32.047		
2,700.00	2,604.95	2,413.72	2,199.94	12.62	17.68	25.88	287.33	840.77	600.70	581.79	18.91	31.765		
2,800.00	2,691.22	2,509.81	2,269.19	13.52	19.09	26.47	310.89	903.09	627.71	607.56	20.15	31.145		
2,900.00	2,777.48	2,605.90	2,338.44	14.43	20.51	27.01	334.45	965.40	654.77	633.34	21.43	30.557		
3,000.00	2,863.75	2,702.00	2,407.69	15.35	21.94	27.51	358.01	1,027.71	681.88	659.16	22.73	30.005		
3,100.00	2,950.01	2,801.91	2,476.94	16.28	23.44	27.97	381.57	1,090.03	709.04	684.97	24.07	29.453		
3,200.00	3,036.27	2,905.82	2,546.20	17.22	25.00	28.39	405.12	1,152.34	736.23	710.77	25.47	28.907		
3,300.00	3,122.54	2,990.27	2,615.45	18.17	26.27	28.79	428.68	1,214.66	763.46	736.72	26.75	28.544		
3,400.00	3,208.80	3,086.37	2,684.70	19.13	27.72	29.15	452.24	1,276.97	790.73	762.60	28.12	28.117		
3,500.00	3,295.07	3,182.46	2,753.95	20.09	29.17	29.50	475.80	1,339.28	818.02	788.50	29.51	27.718		
3,600.00	3,381.33	3,278.55	2,823.20	21.05	30.63	29.82	499.36	1,401.60	845.33	814.42	30.91	27.345		
3,700.00	3,467.59	3,374.64	2,892.45	22.02	32.09	30.12	522.92	1,463.91	872.67	840.34	32.33	26.995		
3,800.00	3,553.86	3,470.74	2,961.70	22.99	33.55	30.40	546.47	1,526.22	900.03	866.28	33.75	26.667		
3,900.00	3,640.12	3,566.83	3,030.96	23.97	35.02	30.67	570.03	1,588.54	927.41	892.22	35.18	26.358		
4,000.00	3,726.38	3,662.92	3,100.21	24.95	36.48	30.92	593.59	1,650.85	954.80	918.18	36.63	26.069		
4,100.00	3,812.65	3,759.01	3,169.46	25.93	37.95	31.16	617.15	1,713.17	982.21	944.14	38.08	25.796		
4,200.00	3,898.91	3,855.10	3,238.71	26.91	39.42	31.38	640.71	1,775.48	1,009.64	970.11	39.53	25.539		
4,300.00	3,985.18	3,951.20	3,307.96	27.90	40.89	31.59	664.27	1,837.79	1,037.08	996.08	41.00	25.297		
4,400.00	4,071.44	4,047.29	3,377.21	28.88	42.36	31.79	687.83	1,900.11	1,064.53	1,022.07	42.47	25.068		
4,500.00	4,157.70	4,143.38	3,446.46	29.87	43.83	31.99	711.38	1,962.42	1,092.00	1,048.05	43.94	24.851		
4,600.00	4,243.97	4,239.47	3,515.72	30.86	45.30	32.17	734.94	2,024.73	1,119.47	1,074.05	45.42	24.646		
4,700.00	4,330.23	4,335.57	3,584.97	31.85	46.77	32.34	758.50	2,087.05	1,146.96	1,100.05	46.91	24.452		
4,800.00	4,416.49	4,431.66	3,654.22	32.84	48.25	32.51	782.06	2,149.36	1,174.45	1,126.05	48.40	24.268		
4,900.00	4,502.76	4,527.75	3,723.47	33.84	49.72	32.66	805.62	2,211.67	1,201.95	1,152.06	49.89	24.093		
5,000.00	4,589.02	4,623.84	3,792.72	34.83	51.19	32.81	829.18	2,273.99	1,229.46	1,178.08	51.39	23.926		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,719.94	3,861.97	35.82	52.67	32.96	852.74	2,336.30	1,256.98	1,204.09	52.89	23.768		
5,200.00	4,761.55	4,816.03	3,931.22	36.82	54.14	33.09	876.29	2,398.62	1,284.51	1,230.12	54.39	23.617		
5,300.00	4,847.81	4,912.12	4,000.47	37.82	55.62	33.23	899.85	2,460.93	1,312.04	1,256.14	55.90	23.473		
5,400.00	4,934.08	5,008.21	4,069.73	38.81	57.10	33.35	923.41	2,523.24	1,339.57	1,282.17	57.41	23.335		
5,500.00	5,020.34	5,104.31	4,138.98	39.81	58.57	33.47	946.97	2,585.56	1,367.12	1,308.20	58.92	23.204		
5,600.00	5,106.60	5,200.40	4,208.23	40.81	60.05	33.59	970.53	2,647.87	1,394.67	1,334.23	60.43	23.078		
5,700.00	5,192.87	5,303.51	4,277.48	41.81	61.64	33.70	994.09	2,710.18	1,422.22	1,360.22	62.01	22.937		
5,800.00	5,279.13	5,392.58	4,346.73	42.81	63.01	33.81	1,017.64	2,772.50	1,449.78	1,386.31	63.47	22.843		
5,900.00	5,365.40	5,488.68	4,415.98	43.81	64.49	33.91	1,041.20	2,834.81	1,477.34	1,412.35	64.99	22.732		
6,000.00	5,451.66	5,584.77	4,485.23	44.81	65.96	34.01	1,064.76	2,897.13	1,504.91	1,438.40	66.51	22.626		
6,100.00	5,537.92	5,680.86	4,554.49	45.81	67.44	34.11	1,088.32	2,959.44	1,532.48	1,464.45	68.04	22.524		
6,200.00	5,624.19	5,776.95	4,623.74	46.81	68.92	34.20	1,111.88	3,021.75	1,560.06	1,490.49	69.56	22.426		
6,300.00	5,710.45	5,873.05	4,692.99	47.81	70.40	34.29	1,135.44	3,084.07	1,587.64	1,516.55	71.09	22.332		
6,400.00	5,796.72	5,969.14	4,762.24	48.81	71.88	34.38	1,159.00	3,146.38	1,615.22	1,542.60	72.62	22.241		
6,500.00	5,882.98	6,065.23	4,831.49	49.81	73.36	34.46	1,182.55	3,208.69	1,642.81	1,568.65	74.15	22.154		
6,600.00	5,969.24	6,161.32	4,900.74	50.82	74.84	34.55	1,206.11	3,271.01	1,670.40	1,594.71	75.69	22.070		
6,700.00	6,055.51	6,257.41	4,969.99	51.82	76.32	34.62	1,229.67	3,333.32	1,697.99	1,620.77	77.22	21.988		
6,800.00	6,141.77	6,353.51	5,039.25	52.82	77.80	34.70	1,253.23	3,395.63	1,725.59	1,646.83	78.76	21.910		
6,900.00	6,228.03	6,449.60	5,108.50	53.83	79.28	34.77	1,276.79	3,457.95	1,753.18	1,672.89	80.29	21.834		
7,000.00	6,314.30	6,545.69	5,177.75	54.83	80.76	34.84	1,300.35	3,520.26	1,780.78	1,698.95	81.83	21.761		
7,100.00	6,400.56	6,641.78	5,247.00	55.83	82.24	34.91	1,323.91	3,582.58	1,808.39	1,725.02	83.37	21.691		
7,200.00	6,486.83	6,737.88	5,316.25	56.84	83.72	34.98	1,347.46	3,644.89	1,835.99	1,751.08	84.91	21.622		
7,300.00	6,573.09	6,833.97	5,385.50	57.84	85.20	35.05	1,371.02	3,707.20	1,863.60	1,777.15	86.45	21.556		
7,400.00	6,659.35	6,930.06	5,454.75	58.84	86.68	35.11	1,394.58	3,769.52	1,891.21	1,803.22	87.99	21.492		
7,500.00	6,745.62	7,026.15	5,524.00	59.85	88.16	35.17	1,418.14	3,831.83	1,918.82	1,829.28	89.54	21.430		
7,600.00	6,831.88	7,122.25	5,593.26	60.85	89.64	35.23	1,441.70	3,894.14	1,946.44	1,855.35	91.08	21.370		
7,700.00	6,918.14	7,218.34	5,662.51	61.86	91.12	35.29	1,465.26	3,956.46	1,974.05	1,881.42	92.63	21.312		
7,800.00	7,004.41	7,314.43	5,731.76	62.86	92.60	35.34	1,488.81	4,018.77	2,001.67	1,907.50	94.17	21.256		
7,900.00	7,090.67	7,410.52	5,801.01	63.87	94.09	35.40	1,512.37	4,081.09	2,029.29	1,933.57	95.72	21.201		
8,000.00	7,176.94	7,506.62	5,870.26	64.87	95.57	35.45	1,535.93	4,143.40	2,056.91	1,959.64	97.26	21.148		
8,027.52	7,200.68	7,533.06	5,889.32	65.15	95.98	35.47	1,542.42	4,160.55	2,064.51	1,966.82	97.69	21.133		
8,050.00	7,220.18	7,554.67	5,904.89	65.37	96.31	32.71	1,547.71	4,174.56	2,070.69	1,972.67	98.02	21.126		
8,100.00	7,264.25	7,602.69	5,939.50	65.85	97.05	25.50	1,559.49	4,205.70	2,084.19	1,985.60	98.59	21.141		
8,150.00	7,308.99	7,650.34	5,973.84	66.28	97.78	16.96	1,571.17	4,236.60	2,097.28	1,998.35	98.93	21.199		
8,200.00	7,354.07	7,702.74	6,007.66	66.67	98.59	7.57	1,582.67	4,267.03	2,109.92	2,010.81	99.11	21.289		
8,250.00	7,399.14	7,743.09	6,040.69	67.02	99.21	-1.95	1,593.91	4,296.75	2,122.07	2,023.10	99.97	21.441		
8,300.00	7,443.85	7,787.49	6,072.68	67.32	99.90	-10.89	1,604.79	4,325.54	2,133.73	2,035.06	98.67	21.625		
8,350.00	7,487.88	7,830.11	6,103.40	67.56	100.55	-18.77	1,615.24	4,353.18	2,144.93	2,046.76	98.17	21.849		
8,400.00	7,530.87	7,870.63	6,132.60	67.75	101.18	-25.43	1,625.18	4,379.45	2,155.69	2,058.21	97.48	22.114		
8,450.00	7,572.51	7,908.74	6,160.06	67.90	101.77	-30.90	1,634.52	4,404.17	2,166.08	2,069.46	96.62	22.418		
8,500.00	7,612.48	7,944.16	6,185.59	68.00	102.31	-35.33	1,643.20	4,427.14	2,176.14	2,080.53	95.62	22.759		
8,550.00	7,650.47	7,976.61	6,208.97	68.05	102.81	-38.88	1,651.16	4,448.18	2,185.96	2,091.47	94.49	23.134		
8,600.00	7,686.20	8,005.84	6,230.04	68.06	103.26	-41.69	1,658.32	4,467.14	2,195.58	2,102.31	93.27	23.540		
8,650.00	7,719.39	8,031.64	6,248.63	68.03	103.66	-43.89	1,664.65	4,483.86	2,205.08	2,113.10	91.98	23.973		
8,700.00	7,749.79	8,053.80	6,264.61	67.97	104.00	-45.56	1,670.08	4,498.24	2,214.51	2,123.84	90.67	24.425		
8,750.00	7,777.17	8,072.17	6,277.84	67.87	104.29	-46.76	1,674.59	4,510.15	2,223.90	2,134.55	89.35	24.889		
8,800.00	7,801.32	8,086.59	6,288.23	67.74	104.51	-47.55	1,678.12	4,519.50	2,233.29	2,145.22	88.07	25.358		
8,850.00	7,822.06	8,103.04	6,295.71	67.59	104.76	-47.96	1,680.66	4,526.22	2,242.67	2,155.78	86.89	25.809		
8,900.00	7,839.23	8,103.20	6,300.20	67.41	104.77	-48.04	1,682.19	4,530.27	2,252.04	2,166.31	85.73	26.269		
8,950.00	7,852.69	8,105.26	6,301.69	67.22	104.80	-47.81	1,682.70	4,531.61	2,261.36	2,176.64	84.72	26.692		
9,000.00	7,862.35	8,103.13	6,300.16	67.00	104.76	-47.29	1,682.18	4,530.23	2,270.56	2,186.72	83.85	27.080		
9,050.00	7,868.14	8,103.18	6,295.61	66.78	104.77	-46.50	1,680.63	4,526.14	2,279.58	2,196.42	83.16	27.412		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,086.72	6,288.33	66.55	104.51	-45.52	1,678.15	4,519.58	2,288.07	2,205.51	82.56	27.715		
9,100.00	7,870.00	8,086.39	6,288.09	66.55	104.51	-45.51	1,678.07	4,519.37	2,288.30	2,205.76	82.54	27.722		
9,200.00	7,870.00	8,061.65	6,270.26	66.09	104.12	-44.90	1,672.01	4,503.33	2,307.43	2,225.55	81.88	28.181		
9,300.00	7,870.00	8,036.92	6,252.44	65.65	103.74	-44.29	1,665.94	4,487.29	2,330.43	2,248.58	81.85	28.471		
9,400.00	7,870.00	8,012.18	6,234.61	65.24	103.36	-43.68	1,659.88	4,471.25	2,357.19	2,274.77	82.42	28.601		
9,500.00	7,870.00	7,987.45	6,216.78	64.85	102.98	-43.08	1,653.81	4,455.21	2,387.59	2,304.08	83.51	28.592		
9,600.00	7,870.00	7,962.71	6,198.96	64.48	102.60	-42.47	1,647.75	4,439.17	2,421.48	2,336.44	85.04	28.475		
9,700.00	7,870.00	7,937.98	6,181.13	64.13	102.22	-41.87	1,641.69	4,423.13	2,458.73	2,371.80	86.94	28.282		
9,800.00	7,870.00	7,913.24	6,163.31	63.80	101.84	-41.27	1,635.62	4,407.09	2,499.18	2,410.07	89.11	28.046		
9,900.00	7,870.00	7,888.51	6,145.48	63.50	101.46	-40.67	1,629.56	4,391.05	2,542.68	2,451.20	91.49	27.793		
10,000.00	7,870.00	7,863.77	6,127.65	63.22	101.07	-40.07	1,623.49	4,375.01	2,589.08	2,495.09	94.00	27.544		
10,100.00	7,870.00	7,839.04	6,109.83	62.96	100.69	-39.47	1,617.43	4,358.96	2,638.23	2,541.64	96.59	27.315		
10,200.00	7,870.00	7,814.30	6,092.00	62.72	100.31	-38.88	1,611.37	4,342.92	2,689.96	2,590.76	99.21	27.115		
10,300.00	7,870.00	11,309.89	7,480.00	62.50	122.44	-81.76	81.95	5,585.14	2,707.24	2,611.27	95.97	28.211		
10,400.00	7,870.00	11,409.89	7,480.00	62.31	122.29	-81.76	-18.05	5,584.80	2,707.24	2,610.60	96.64	28.013		
10,500.00	7,870.00	11,509.89	7,480.00	62.15	122.16	-81.76	-118.05	5,584.46	2,707.24	2,609.80	97.44	27.783		
10,600.00	7,870.00	11,609.89	7,480.00	62.01	122.04	-81.76	-218.05	5,584.13	2,707.24	2,608.88	98.36	27.523		
10,700.00	7,870.00	11,709.89	7,480.00	61.90	121.93	-81.76	-318.05	5,583.79	2,707.24	2,607.85	99.40	27.236		
10,800.00	7,870.00	11,809.89	7,480.00	61.82	121.83	-81.76	-418.05	5,583.45	2,707.25	2,606.70	100.55	26.925		
10,900.00	7,870.00	11,909.89	7,480.00	61.78	121.74	-81.76	-518.05	5,583.12	2,707.25	2,605.44	101.80	26.593		
11,000.00	7,870.00	12,009.89	7,480.00	61.77	121.67	-81.76	-618.05	5,582.78	2,707.25	2,604.09	103.16	26.243		
11,100.00	7,870.00	12,109.89	7,480.00	61.81	121.60	-81.76	-718.05	5,582.44	2,707.25	2,602.63	104.62	25.877		
11,200.00	7,870.00	12,209.89	7,480.00	61.90	121.55	-81.76	-818.05	5,582.11	2,707.25	2,601.07	106.18	25.497		
11,300.00	7,870.00	12,309.89	7,480.00	62.03	121.52	-81.76	-918.05	5,581.77	2,707.25	2,599.43	107.82	25.108		
11,400.00	7,870.00	12,409.89	7,480.00	62.23	121.49	-81.76	-1,018.05	5,581.43	2,707.25	2,597.69	109.56	24.710		
11,500.00	7,870.00	12,509.89	7,480.00	62.50	121.48	-81.76	-1,118.05	5,581.10	2,707.25	2,595.88	111.38	24.307		
11,600.00	7,870.00	12,609.89	7,480.00	62.84	121.48	-81.76	-1,218.05	5,580.76	2,707.25	2,593.98	113.27	23.900		
11,700.00	7,870.00	12,709.89	7,480.00	63.25	121.50	-81.76	-1,318.04	5,580.42	2,707.26	2,592.01	115.25	23.491		
11,800.00	7,870.00	12,809.89	7,480.00	63.76	121.53	-81.76	-1,418.04	5,580.09	2,707.26	2,589.97	117.29	23.082		
11,900.00	7,870.00	12,909.89	7,480.00	64.34	121.57	-81.76	-1,518.04	5,579.75	2,707.26	2,587.86	119.40	22.674		
12,000.00	7,870.00	13,009.89	7,480.00	65.01	121.63	-81.76	-1,618.04	5,579.41	2,707.26	2,585.68	121.58	22.268		
12,100.00	7,870.00	13,109.89	7,480.00	65.77	121.71	-81.76	-1,718.04	5,579.08	2,707.26	2,583.45	123.81	21.866		
12,200.00	7,870.00	13,209.89	7,480.00	66.61	121.80	-81.76	-1,818.04	5,578.74	2,707.26	2,581.16	126.10	21.468		
12,300.00	7,870.00	13,309.89	7,480.00	67.51	121.91	-81.76	-1,918.04	5,578.40	2,707.26	2,578.81	128.45	21.076		
12,400.00	7,870.00	13,409.89	7,480.00	68.49	122.03	-81.76	-2,018.04	5,578.07	2,707.26	2,576.41	130.85	20.690		
12,500.00	7,870.00	13,509.89	7,480.00	69.52	122.17	-81.76	-2,118.04	5,577.73	2,707.26	2,573.96	133.30	20.310		
12,600.00	7,870.00	13,609.89	7,480.00	70.61	122.33	-81.76	-2,218.04	5,577.39	2,707.27	2,571.47	135.79	19.937		
12,700.00	7,870.00	13,709.89	7,480.00	71.75	122.51	-81.76	-2,318.04	5,577.06	2,707.27	2,568.94	138.33	19.571		
12,800.00	7,870.00	13,809.89	7,480.00	72.93	122.71	-81.76	-2,418.04	5,576.72	2,707.27	2,566.36	140.91	19.213		
12,900.00	7,870.00	13,909.89	7,480.00	74.14	122.93	-81.76	-2,518.04	5,576.38	2,707.27	2,563.74	143.53	18.862		
13,000.00	7,870.00	14,009.89	7,480.00	75.39	123.17	-81.76	-2,618.04	5,576.05	2,707.27	2,561.09	146.18	18.520		
13,100.00	7,870.00	14,109.89	7,480.00	76.67	123.43	-81.76	-2,718.04	5,575.71	2,707.27	2,558.40	148.87	18.185		
13,200.00	7,870.00	14,209.89	7,480.00	77.98	123.71	-81.76	-2,818.04	5,575.37	2,707.27	2,555.68	151.60	17.858		
13,300.00	7,870.00	14,309.89	7,480.00	79.31	124.02	-81.76	-2,918.04	5,575.04	2,707.27	2,552.92	154.35	17.540		
13,400.00	7,870.00	14,409.89	7,480.00	80.67	124.35	-81.76	-3,018.03	5,574.70	2,707.27	2,550.14	157.14	17.229		
13,500.00	7,870.00	14,509.89	7,480.00	82.04	124.70	-81.76	-3,118.03	5,574.36	2,707.28	2,547.33	159.95	16.926		
13,600.00	7,870.00	14,609.89	7,480.00	83.43	125.08	-81.76	-3,218.03	5,574.03	2,707.28	2,544.49	162.79	16.631		
13,700.00	7,870.00	14,709.89	7,480.00	84.84	125.48	-81.76	-3,318.03	5,573.69	2,707.28	2,541.63	165.65	16.343		
13,800.00	7,870.00	14,809.89	7,480.00	86.27	125.91	-81.76	-3,418.03	5,573.35	2,707.28	2,538.74	168.54	16.063		
13,900.00	7,870.00	14,909.89	7,480.00	87.71	126.37	-81.76	-3,518.03	5,573.02	2,707.28	2,535.83	171.45	15.790		
14,000.00	7,870.00	15,009.89	7,480.00	89.16	126.86	-81.76	-3,618.03	5,572.68	2,707.28	2,532.90	174.38	15.525		
14,100.00	7,870.00	15,109.89	7,480.00	90.63	127.37	-81.76	-3,718.03	5,572.35	2,707.28	2,529.94	177.34	15.266		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	15,209.89	7,480.00	92.10	127.92	-81.76	-3,818.03	5,572.01	2,707.28	2,526.97	180.31	15.014		
14,300.00	7,870.00	15,309.89	7,480.00	93.59	128.49	-81.76	-3,918.03	5,571.67	2,707.29	2,523.98	183.30	14.769		
14,400.00	7,870.00	15,409.89	7,480.00	95.09	129.09	-81.76	-4,018.03	5,571.34	2,707.29	2,520.97	186.31	14.531		
14,500.00	7,870.00	15,509.89	7,480.00	96.60	129.73	-81.76	-4,118.03	5,571.00	2,707.29	2,517.95	189.34	14.298		
14,600.00	7,870.00	15,609.89	7,480.00	98.11	130.39	-81.76	-4,218.03	5,570.66	2,707.29	2,514.90	192.38	14.072		
14,700.00	7,870.00	15,709.89	7,480.00	99.64	131.08	-81.76	-4,318.03	5,570.33	2,707.29	2,511.85	195.44	13.852		
14,800.00	7,870.00	15,809.89	7,480.00	101.17	131.81	-81.76	-4,418.03	5,569.99	2,707.29	2,508.77	198.52	13.638		
14,900.00	7,870.00	15,909.89	7,480.00	102.71	132.56	-81.76	-4,518.03	5,569.65	2,707.29	2,505.69	201.60	13.429		
15,000.00	7,870.00	16,009.89	7,480.00	104.26	133.35	-81.76	-4,618.03	5,569.32	2,707.29	2,502.59	204.70	13.225		
15,100.00	7,870.00	16,109.89	7,480.00	105.82	134.17	-81.76	-4,718.03	5,568.98	2,707.29	2,499.48	207.82	13.027		
15,200.00	7,870.00	16,209.89	7,480.00	107.38	135.01	-81.76	-4,818.02	5,568.64	2,707.30	2,496.35	210.94	12.834		
15,300.00	7,870.00	16,309.89	7,480.00	108.95	135.89	-81.76	-4,918.02	5,568.31	2,707.30	2,493.22	214.08	12.646		
15,400.00	7,870.00	16,409.89	7,480.00	110.52	136.79	-81.76	-5,018.02	5,567.97	2,707.30	2,490.07	217.23	12.463		
15,500.00	7,870.00	16,509.89	7,480.00	112.10	137.73	-81.76	-5,118.02	5,567.63	2,707.30	2,486.91	220.39	12.284		
15,600.00	7,870.00	16,609.89	7,480.00	113.69	138.69	-81.76	-5,218.02	5,567.30	2,707.30	2,483.74	223.56	12.110		
15,700.00	7,870.00	16,709.89	7,480.00	115.28	139.68	-81.76	-5,318.02	5,566.96	2,707.30	2,480.56	226.74	11.940		
15,800.00	7,870.00	16,809.89	7,480.00	116.87	140.69	-81.76	-5,418.02	5,566.62	2,707.30	2,477.37	229.93	11.775		
15,900.00	7,870.00	16,909.89	7,480.00	118.47	141.73	-81.76	-5,518.02	5,566.29	2,707.30	2,474.18	233.13	11.613		
16,000.00	7,870.00	17,009.89	7,480.00	120.07	142.80	-81.76	-5,618.02	5,565.95	2,707.30	2,470.97	236.33	11.456		
16,100.00	7,870.00	17,109.89	7,480.00	121.68	143.89	-81.76	-5,718.02	5,565.61	2,707.31	2,467.76	239.55	11.302		
16,200.00	7,870.00	17,209.89	7,480.00	123.30	145.00	-81.76	-5,818.02	5,565.28	2,707.31	2,464.54	242.77	11.152		
16,300.00	7,870.00	17,309.89	7,480.00	124.91	146.14	-81.76	-5,918.02	5,564.94	2,707.31	2,461.31	246.00	11.005		
16,400.00	7,870.00	17,409.89	7,480.00	126.53	147.30	-81.76	-6,018.02	5,564.60	2,707.31	2,458.07	249.24	10.862		
16,500.00	7,870.00	17,509.89	7,480.00	128.16	148.48	-81.76	-6,118.02	5,564.27	2,707.31	2,454.83	252.48	10.723		
16,600.00	7,870.00	17,609.89	7,480.00	129.79	149.68	-81.76	-6,218.02	5,563.93	2,707.31	2,451.57	255.74	10.586		
16,700.00	7,870.00	17,709.89	7,480.00	131.42	150.89	-81.76	-6,318.02	5,563.59	2,707.31	2,448.32	259.00	10.453		
16,800.00	7,870.00	17,809.89	7,480.00	133.05	152.13	-81.76	-6,418.02	5,563.26	2,707.31	2,445.05	262.26	10.323		
16,900.00	7,870.00	17,909.89	7,480.00	134.69	153.39	-81.76	-6,518.02	5,562.92	2,707.31	2,441.78	265.53	10.196		
17,000.00	7,870.00	18,009.89	7,480.00	136.33	154.66	-81.76	-6,618.01	5,562.58	2,707.32	2,438.51	268.81	10.072		
17,100.00	7,870.00	18,109.89	7,480.00	137.97	155.95	-81.76	-6,718.01	5,562.25	2,707.32	2,435.22	272.09	9.950		
17,200.00	7,870.00	18,209.89	7,480.00	139.62	157.25	-81.76	-6,818.01	5,561.91	2,707.32	2,431.94	275.38	9.831		
17,300.00	7,870.00	18,309.89	7,480.00	141.27	158.57	-81.76	-6,918.01	5,561.57	2,707.32	2,428.65	278.67	9.715		
17,400.00	7,870.00	18,409.89	7,480.00	142.92	159.91	-81.76	-7,018.01	5,561.24	2,707.32	2,425.35	281.97	9.601		
17,500.00	7,870.00	18,509.89	7,480.00	144.58	161.26	-81.76	-7,118.01	5,560.90	2,707.32	2,422.05	285.28	9.490		
17,600.00	7,870.00	18,609.89	7,480.00	146.23	162.62	-81.76	-7,218.01	5,560.56	2,707.32	2,418.74	288.58	9.381		
17,700.00	7,870.00	18,709.89	7,480.00	147.89	163.99	-81.76	-7,318.01	5,560.23	2,707.32	2,415.43	291.90	9.275		
17,800.00	7,870.00	18,809.89	7,480.00	149.56	165.38	-81.76	-7,418.01	5,559.89	2,707.32	2,412.11	295.21	9.171		
17,900.00	7,870.00	18,909.89	7,480.00	151.22	166.77	-81.76	-7,518.01	5,559.56	2,707.33	2,408.79	298.54	9.069		
18,000.00	7,870.00	19,009.89	7,480.00	152.89	168.18	-81.76	-7,618.01	5,559.22	2,707.33	2,405.46	301.86	8.969		
18,100.00	7,870.00	19,109.89	7,480.00	154.55	169.60	-81.76	-7,718.01	5,558.88	2,707.33	2,402.14	305.19	8.871		
18,200.00	7,870.00	19,209.89	7,480.00	156.22	171.03	-81.76	-7,818.01	5,558.55	2,707.33	2,398.80	308.53	8.775		
18,300.00	7,870.00	19,309.89	7,480.00	157.90	172.47	-81.76	-7,918.01	5,558.21	2,707.33	2,395.47	311.86	8.681		
18,400.00	7,870.00	19,409.89	7,480.00	159.57	173.91	-81.76	-8,018.01	5,557.87	2,707.33	2,392.13	315.20	8.589		
18,500.00	7,870.00	19,509.89	7,480.00	161.25	175.37	-81.76	-8,118.01	5,557.54	2,707.33	2,388.78	318.55	8.499		
18,600.00	7,870.00	19,609.89	7,480.00	162.93	176.84	-81.76	-8,218.01	5,557.20	2,707.33	2,385.44	321.90	8.411		
18,700.00	7,870.00	19,709.89	7,480.00	164.60	178.31	-81.76	-8,318.00	5,556.86	2,707.33	2,382.09	325.25	8.324		
18,706.42	7,870.00	19,716.31	7,480.00	164.71	178.40	-81.76	-8,324.42	5,556.84	2,707.33	2,381.87	325.46	8.318		
18,797.52	7,870.00	19,796.12	7,480.00	166.24	179.59	-81.76	-8,404.23	5,556.57	2,707.36	2,378.64	328.72	8.236 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	90.46	-0.73	89.88	89.88					
100.00	100.00	98.00	98.00	0.13	0.13	90.46	-0.73	89.88	89.88	89.62	0.27	337.699	CC, ES	
200.00	200.00	195.16	195.14	0.49	0.47	90.13	-0.20	91.37	91.41	90.44	0.97	93.988		
300.00	300.00	292.04	291.90	0.85	0.83	89.15	1.42	95.94	96.15	94.46	1.68	57.090		
400.00	400.00	388.49	388.00	1.21	1.19	87.72	4.13	103.56	104.12	101.73	2.39	43.486		
500.00	500.00	484.28	483.13	1.57	1.57	86.05	7.88	114.13	115.37	112.27	3.10	37.192		
600.00	600.00	579.22	576.99	1.93	1.96	84.34	12.65	127.56	129.90	126.10	3.80	34.143		
700.00	700.00	673.11	669.29	2.29	2.38	82.71	18.39	143.72	147.71	143.21	4.50	32.815		
800.00	800.00	765.76	759.78	2.64	2.83	81.24	25.04	162.45	168.76	163.57	5.19	32.512		
900.00	900.00	857.02	848.24	3.00	3.30	79.95	32.54	183.59	192.98	187.11	5.87	32.866		
1,000.00	1,000.00	946.73	934.46	3.36	3.81	78.84	40.83	206.95	220.30	213.76	6.54	33.682		
1,100.00	1,099.98	1,035.25	1,018.72	3.72	4.34	23.18	49.90	232.47	249.11	241.92	7.19	34.645		
1,200.00	1,199.84	1,123.01	1,101.40	4.07	4.91	22.52	59.74	260.19	277.80	269.97	7.83	35.471		
1,300.00	1,299.45	1,210.04	1,182.47	4.43	5.51	22.12	70.33	290.02	306.31	297.84	8.47	36.158		
1,400.00	1,398.70	1,296.36	1,261.89	4.80	6.16	21.91	81.64	321.89	334.60	325.49	9.11	36.723		
1,500.00	1,497.47	1,381.99	1,339.63	5.18	6.85	21.85	93.65	355.71	362.65	352.90	9.75	37.178		
1,600.00	1,595.62	1,466.95	1,415.66	5.57	7.58	21.90	106.33	391.42	390.44	380.03	10.40	37.536		
1,700.00	1,693.06	1,551.25	1,489.97	6.00	8.35	22.03	119.65	428.94	417.94	406.88	11.06	37.805		
1,800.00	1,789.64	1,634.93	1,562.53	6.45	9.16	22.23	133.59	468.20	445.14	433.42	11.72	37.987		
1,900.00	1,885.27	1,717.99	1,633.33	6.94	10.01	22.49	148.12	509.13	472.04	459.65	12.39	38.086		
2,000.00	1,979.82	1,800.45	1,702.34	7.47	10.89	22.80	163.22	551.66	498.63	485.55	13.09	38.102		
2,100.00	2,073.17	1,882.34	1,769.56	8.05	11.84	23.13	178.87	595.73	524.90	511.10	13.80	38.027		
2,200.00	2,165.21	1,963.67	1,834.97	8.67	12.82	23.50	195.04	641.28	550.85	536.30	14.55	37.868		
2,300.00	2,255.84	2,044.46	1,898.56	9.35	13.83	23.90	211.71	688.24	576.46	561.14	15.32	37.626		
2,400.00	2,344.94	2,124.73	1,960.33	10.09	14.89	24.32	228.86	736.55	601.74	585.61	16.13	37.300		
2,500.00	2,432.39	2,204.50	2,020.26	10.89	15.99	24.75	246.47	786.15	626.68	609.70	16.99	36.891		
2,519.29	2,449.07	2,219.84	2,031.61	11.05	16.21	24.84	249.92	795.87	631.46	614.30	17.16	36.805		
2,600.00	2,518.69	2,283.61	2,078.22	11.74	17.12	25.34	264.48	836.88	652.28	634.39	17.88	36.472		
2,700.00	2,604.95	2,377.65	2,146.06	12.62	18.51	26.01	286.27	898.25	679.46	660.39	19.07	35.626		
2,800.00	2,691.22	2,473.57	2,215.25	13.52	19.94	26.64	308.50	960.87	706.75	686.42	20.33	34.771		
2,900.00	2,777.48	2,569.50	2,284.43	14.43	21.37	27.22	330.74	1,023.49	734.11	712.50	21.61	33.972		
3,000.00	2,863.75	2,665.42	2,353.62	15.35	22.81	27.76	352.97	1,086.10	761.53	738.61	22.92	33.227		
3,100.00	2,950.01	2,761.35	2,422.80	16.28	24.26	28.26	375.20	1,148.72	789.01	764.76	24.25	32.533		
3,200.00	3,036.27	2,857.27	2,491.99	17.22	25.71	28.73	397.43	1,211.33	816.55	790.94	25.61	31.887		
3,300.00	3,122.54	2,953.20	2,561.18	18.17	27.17	29.17	419.66	1,273.95	844.13	817.15	26.98	31.286		
3,400.00	3,208.80	3,049.13	2,630.36	19.13	28.62	29.58	441.89	1,336.57	871.76	843.38	28.37	30.726		
3,500.00	3,295.07	3,145.05	2,699.55	20.09	30.08	29.97	464.12	1,399.18	899.42	869.64	29.78	30.204		
3,600.00	3,381.33	3,240.98	2,768.74	21.05	31.55	30.33	486.35	1,461.80	927.12	895.92	31.20	29.717		
3,700.00	3,467.59	3,336.90	2,837.92	22.02	33.01	30.67	508.58	1,524.41	954.85	922.22	32.63	29.262		
3,800.00	3,553.86	3,432.83	2,907.11	22.99	34.48	30.99	530.81	1,587.03	982.62	948.54	34.08	28.836		
3,900.00	3,640.12	3,528.75	2,976.30	23.97	35.95	31.30	553.05	1,649.65	1,010.41	974.87	35.53	28.437		
4,000.00	3,726.38	3,624.68	3,045.48	24.95	37.42	31.59	575.28	1,712.26	1,038.22	1,001.22	37.00	28.063		
4,100.00	3,812.65	3,720.61	3,114.67	25.93	38.89	31.86	597.51	1,774.88	1,066.06	1,027.59	38.47	27.712		
4,200.00	3,898.91	3,816.53	3,183.85	26.91	40.36	32.12	619.74	1,837.49	1,093.92	1,053.97	39.95	27.382		
4,300.00	3,985.18	3,912.46	3,253.04	27.90	41.83	32.37	641.97	1,900.11	1,121.79	1,080.36	41.44	27.071		
4,400.00	4,071.44	4,008.38	3,322.23	28.88	43.31	32.60	664.20	1,962.73	1,149.69	1,106.76	42.93	26.778		
4,500.00	4,157.70	4,104.31	3,391.41	29.87	44.78	32.82	686.43	2,025.34	1,177.61	1,133.17	44.44	26.501		
4,600.00	4,243.97	4,200.23	3,460.60	30.86	46.26	33.04	708.66	2,087.96	1,205.54	1,159.59	45.94	26.239		
4,700.00	4,330.23	4,303.84	3,529.79	31.85	47.85	33.24	730.89	2,150.57	1,233.48	1,185.96	47.52	25.959		
4,800.00	4,416.49	4,392.09	3,598.97	32.84	49.21	33.44	753.12	2,213.19	1,261.44	1,212.46	48.98	25.756		
4,900.00	4,502.76	4,488.01	3,668.16	33.84	50.69	33.62	775.35	2,275.81	1,289.41	1,238.91	50.50	25.533		
5,000.00	4,589.02	4,583.94	3,737.35	34.83	52.16	33.80	797.59	2,338.42	1,317.39	1,265.37	52.03	25.322		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,679.86	3,806.53	35.82	53.64	33.97	819.82	2,401.04	1,345.39	1,291.83	53.56	25.120		
5,200.00	4,761.55	4,775.79	3,875.72	36.82	55.12	34.14	842.05	2,463.65	1,373.39	1,318.30	55.09	24.929		
5,300.00	4,847.81	4,871.71	3,944.90	37.82	56.60	34.29	864.28	2,526.27	1,401.41	1,344.78	56.63	24.746		
5,400.00	4,934.08	4,967.64	4,014.09	38.81	58.08	34.45	886.51	2,588.89	1,429.43	1,371.26	58.17	24.572		
5,500.00	5,020.34	5,063.57	4,083.28	39.81	59.56	34.59	908.74	2,651.50	1,457.47	1,397.75	59.72	24.405		
5,600.00	5,106.60	5,159.49	4,152.46	40.81	61.04	34.73	930.97	2,714.12	1,485.51	1,424.24	61.27	24.246		
5,700.00	5,192.87	5,255.42	4,221.65	41.81	62.52	34.87	953.20	2,776.73	1,513.56	1,450.74	62.82	24.094		
5,800.00	5,279.13	5,351.34	4,290.84	42.81	64.00	35.00	975.43	2,839.35	1,541.61	1,477.24	64.37	23.948		
5,900.00	5,365.40	5,447.27	4,360.02	43.81	65.48	35.12	997.66	2,901.97	1,569.68	1,503.75	65.93	23.809		
6,000.00	5,451.66	5,543.19	4,429.21	44.81	66.96	35.24	1,019.90	2,964.58	1,597.75	1,530.26	67.49	23.675		
6,100.00	5,537.92	5,639.12	4,498.40	45.81	68.44	35.36	1,042.13	3,027.20	1,625.83	1,556.78	69.05	23.546		
6,200.00	5,624.19	5,735.04	4,567.58	46.81	69.92	35.47	1,064.36	3,089.81	1,653.91	1,583.30	70.61	23.423		
6,300.00	5,710.45	5,830.97	4,636.77	47.81	71.40	35.58	1,086.59	3,152.43	1,682.00	1,609.82	72.18	23.304		
6,400.00	5,796.72	5,926.90	4,705.96	48.81	72.88	35.69	1,108.82	3,215.05	1,710.09	1,636.35	73.74	23.190		
6,500.00	5,882.98	6,022.82	4,775.14	49.81	74.36	35.79	1,131.05	3,277.66	1,738.19	1,662.88	75.31	23.080		
6,600.00	5,969.24	6,118.75	4,844.33	50.82	75.85	35.89	1,153.28	3,340.28	1,766.30	1,689.41	76.88	22.974		
6,700.00	6,055.51	6,214.67	4,913.51	51.82	77.33	35.98	1,175.51	3,402.89	1,794.40	1,715.95	78.45	22.872		
6,800.00	6,141.77	6,310.60	4,982.70	52.82	78.81	36.07	1,197.74	3,465.51	1,822.52	1,742.49	80.03	22.774		
6,900.00	6,228.03	6,406.52	5,051.89	53.83	80.29	36.16	1,219.97	3,528.13	1,850.64	1,769.04	81.60	22.679		
7,000.00	6,314.30	6,502.45	5,121.07	54.83	81.78	36.25	1,242.20	3,590.74	1,878.76	1,795.58	83.18	22.588		
7,100.00	6,400.56	6,601.62	5,190.26	55.83	83.31	36.34	1,264.44	3,653.36	1,906.88	1,822.10	84.78	22.492		
7,200.00	6,486.83	6,705.70	5,259.45	56.84	84.92	36.42	1,286.67	3,715.97	1,935.01	1,848.59	86.43	22.389		
7,300.00	6,573.09	6,790.23	5,328.63	57.84	86.22	36.50	1,308.90	3,778.59	1,963.15	1,875.23	87.91	22.331		
7,400.00	6,659.35	6,886.15	5,397.82	58.84	87.71	36.58	1,331.13	3,841.21	1,991.28	1,901.79	89.49	22.250		
7,500.00	6,745.62	6,982.08	5,467.01	59.85	89.19	36.65	1,353.36	3,903.82	2,019.42	1,928.35	91.08	22.173		
7,600.00	6,831.88	7,078.00	5,536.19	60.85	90.67	36.73	1,375.59	3,966.44	2,047.56	1,954.90	92.66	22.098		
7,700.00	6,918.14	7,173.93	5,605.38	61.86	92.15	36.80	1,397.82	4,029.05	2,075.71	1,981.47	94.24	22.025		
7,800.00	7,004.41	7,269.86	5,674.56	62.86	93.64	36.87	1,420.05	4,091.67	2,103.86	2,008.03	95.83	21.954		
7,900.00	7,090.67	7,365.78	5,743.75	63.87	95.12	36.93	1,442.28	4,154.29	2,132.01	2,034.59	97.42	21.886		
8,000.00	7,176.94	7,461.71	5,812.94	64.87	96.60	37.00	1,464.51	4,216.90	2,160.17	2,061.16	99.00	21.819		
8,027.52	7,200.68	7,488.11	5,831.98	65.15	97.01	37.02	1,470.63	4,234.14	2,167.91	2,068.47	99.44	21.801		
8,050.00	7,220.18	7,509.69	5,847.54	65.37	97.35	34.27	1,475.63	4,248.22	2,174.20	2,074.43	99.78	21.791		
8,100.00	7,264.25	7,557.68	5,882.16	65.85	98.09	27.09	1,486.76	4,279.55	2,187.86	2,087.49	100.37	21.798		
8,150.00	7,308.99	7,605.36	5,916.55	66.28	98.83	18.57	1,497.81	4,310.67	2,201.00	2,100.24	100.75	21.846		
8,200.00	7,354.07	7,652.37	5,950.45	66.67	99.55	9.18	1,508.70	4,341.36	2,213.55	2,112.63	100.92	21.934		
8,250.00	7,399.14	7,701.65	5,983.62	67.02	100.31	-0.34	1,519.36	4,371.37	2,225.49	2,124.60	100.89	22.058		
8,300.00	7,443.85	7,742.96	6,015.79	67.32	100.95	-9.29	1,529.69	4,400.49	2,236.82	2,136.21	100.61	22.233		
8,350.00	7,487.88	7,785.84	6,046.72	67.56	101.62	-17.20	1,539.63	4,428.48	2,247.55	2,147.40	100.15	22.442		
8,400.00	7,530.87	7,826.68	6,076.17	67.75	102.25	-23.89	1,549.10	4,455.14	2,257.70	2,158.20	99.50	22.690		
8,450.00	7,572.51	7,865.16	6,103.93	67.90	102.84	-29.41	1,558.01	4,480.26	2,267.34	2,168.66	98.68	22.977		
8,500.00	7,612.48	7,900.99	6,129.77	68.00	103.40	-33.91	1,566.32	4,503.64	2,276.52	2,178.82	97.71	23.300		
8,550.00	7,650.47	7,933.90	6,153.50	68.05	103.91	-37.54	1,573.95	4,525.13	2,285.31	2,188.71	96.60	23.657		
8,600.00	7,686.20	7,963.64	6,174.95	68.06	104.37	-40.46	1,580.84	4,544.54	2,293.78	2,198.39	95.39	24.047		
8,650.00	7,719.39	7,989.97	6,193.95	68.03	104.77	-42.77	1,586.94	4,561.73	2,301.99	2,207.90	94.10	24.464		
8,700.00	7,749.79	8,012.71	6,210.35	67.97	105.13	-44.57	1,592.21	4,576.57	2,310.01	2,217.25	92.76	24.903		
8,750.00	7,777.17	8,031.68	6,224.03	67.87	105.42	-45.92	1,596.61	4,588.96	2,317.88	2,226.48	91.40	25.359		
8,800.00	7,801.32	8,046.73	6,234.89	67.74	105.65	-46.87	1,600.10	4,598.78	2,325.64	2,235.58	90.06	25.823		
8,850.00	7,822.06	8,057.75	6,242.83	67.59	105.82	-47.47	1,602.65	4,605.97	2,333.31	2,244.55	88.76	26.288		
8,900.00	7,839.23	8,064.66	6,247.81	67.41	105.93	-47.74	1,604.25	4,610.48	2,340.89	2,253.36	87.53	26.744		
8,950.00	7,852.69	8,067.39	6,249.79	67.22	105.97	-47.71	1,604.88	4,612.27	2,348.36	2,261.96	86.40	27.181		
9,000.00	7,862.35	8,065.94	6,248.74	67.00	105.95	-47.39	1,604.55	4,611.32	2,355.67	2,270.29	85.38	27.591		
9,050.00	7,868.14	8,060.32	6,244.68	66.78	105.86	-46.82	1,603.24	4,607.65	2,362.77	2,278.28	84.49	27.964		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,050.87	6,237.87	66.55	105.72	-46.04	1,601.05	4,601.48	2,369.40	2,285.63	83.77	28.286		
9,100.00	7,870.00	8,050.55	6,237.64	66.55	105.71	-46.03	1,600.98	4,601.27	2,369.58	2,285.83	83.75	28.294		
9,200.00	7,870.00	8,027.16	6,220.77	66.09	105.35	-45.48	1,595.56	4,586.00	2,384.85	2,302.13	82.72	28.831		
9,300.00	7,870.00	8,003.76	6,203.90	65.65	104.99	-44.93	1,590.14	4,570.73	2,403.95	2,321.64	82.31	29.207		
9,400.00	7,870.00	7,980.37	6,187.02	65.24	104.63	-44.37	1,584.72	4,555.46	2,426.81	2,344.31	82.50	29.417		
9,500.00	7,870.00	7,956.97	6,170.15	64.85	104.26	-43.82	1,579.29	4,540.19	2,453.31	2,370.08	83.23	29.477		
9,600.00	7,870.00	7,933.58	6,153.27	64.48	103.90	-43.27	1,573.87	4,524.92	2,483.33	2,398.89	84.44	29.408		
9,700.00	7,870.00	7,910.18	6,136.40	64.13	103.54	-42.72	1,568.45	4,509.65	2,516.76	2,430.69	86.07	29.242		
9,800.00	7,870.00	7,886.79	6,119.53	63.80	103.18	-42.17	1,563.03	4,494.37	2,553.45	2,465.43	88.02	29.010		
9,900.00	7,870.00	7,863.39	6,102.65	63.50	102.82	-41.62	1,557.61	4,479.10	2,593.27	2,503.04	90.23	28.741		
10,000.00	7,870.00	7,839.99	6,085.78	63.22	102.45	-41.07	1,552.18	4,463.83	2,636.07	2,543.45	92.62	28.460		
10,100.00	7,870.00	7,816.60	6,068.90	62.96	102.09	-40.52	1,546.76	4,448.56	2,681.72	2,586.58	95.14	28.186		
10,200.00	7,870.00	7,806.80	6,052.03	62.72	101.94	-39.98	1,541.34	4,433.29	2,730.07	2,632.24	97.83	27.906		
10,300.00	7,870.00	7,789.81	6,035.16	62.50	101.37	-39.43	1,535.92	4,418.02	2,780.98	2,680.62	100.35	27.712		
10,400.00	7,870.00	7,746.41	6,018.28	62.31	101.01	-38.89	1,530.50	4,402.74	2,834.31	2,731.34	102.96	27.528		
10,500.00	7,870.00	7,723.02	6,001.41	62.15	100.64	-38.35	1,525.07	4,387.47	2,889.92	2,784.39	105.54	27.383		
10,600.00	7,870.00	7,700.38	5,984.53	62.01	100.29	-37.81	1,519.65	4,372.20	2,947.70	2,839.64	108.06	27.279		
10,700.00	7,870.00	7,676.23	5,967.66	61.90	99.92	-37.27	1,514.23	4,356.93	3,007.51	2,897.02	110.49	27.220		
10,800.00	7,870.00	12,200.43	7,730.00	61.82	129.93	-87.40	-419.30	5,943.46	3,042.44	2,944.58	97.86	31.090		
10,900.00	7,870.00	12,300.43	7,730.00	61.78	129.85	-87.40	-519.30	5,943.13	3,042.44	2,943.37	99.07	30.710		
11,000.00	7,870.00	12,400.43	7,730.00	61.77	129.77	-87.40	-619.30	5,942.79	3,042.44	2,942.05	100.39	30.306		
11,100.00	7,870.00	12,500.43	7,730.00	61.81	129.71	-87.40	-719.29	5,942.45	3,042.44	2,940.63	101.82	29.882		
11,200.00	7,870.00	12,600.43	7,730.00	61.90	129.66	-87.40	-819.29	5,942.11	3,042.44	2,939.10	103.34	29.440		
11,300.00	7,870.00	12,700.43	7,730.00	62.03	129.63	-87.40	-919.29	5,941.78	3,042.44	2,937.48	104.97	28.985		
11,400.00	7,870.00	12,800.43	7,730.00	62.23	129.60	-87.40	-1,019.29	5,941.44	3,042.44	2,935.76	106.68	28.519		
11,500.00	7,870.00	12,900.43	7,730.00	62.50	129.59	-87.40	-1,119.29	5,941.10	3,042.44	2,933.96	108.49	28.045		
11,600.00	7,870.00	13,000.43	7,730.00	62.84	129.59	-87.40	-1,219.29	5,940.76	3,042.44	2,932.07	110.37	27.565		
11,700.00	7,870.00	13,100.43	7,730.00	63.25	129.60	-87.40	-1,319.29	5,940.42	3,042.44	2,930.11	112.34	27.083		
11,800.00	7,870.00	13,200.43	7,730.00	63.76	129.63	-87.40	-1,419.29	5,940.09	3,042.44	2,928.07	114.38	26.600		
11,900.00	7,870.00	13,300.43	7,730.00	64.34	129.66	-87.40	-1,519.29	5,939.75	3,042.44	2,925.96	116.49	26.118		
12,000.00	7,870.00	13,400.43	7,730.00	65.01	129.72	-87.40	-1,619.29	5,939.41	3,042.44	2,923.78	118.67	25.639		
12,100.00	7,870.00	13,500.43	7,730.00	65.77	129.78	-87.40	-1,719.29	5,939.07	3,042.44	2,921.54	120.91	25.163		
12,200.00	7,870.00	13,600.43	7,730.00	66.61	129.86	-87.40	-1,819.29	5,938.74	3,042.44	2,919.23	123.21	24.693		
12,300.00	7,870.00	13,700.43	7,730.00	67.51	129.96	-87.40	-1,919.29	5,938.40	3,042.44	2,916.88	125.57	24.229		
12,400.00	7,870.00	13,800.43	7,730.00	68.49	130.07	-87.40	-2,019.29	5,938.06	3,042.44	2,914.46	127.98	23.773		
12,500.00	7,870.00	13,900.43	7,730.00	69.52	130.19	-87.40	-2,119.29	5,937.72	3,042.44	2,912.00	130.44	23.324		
12,600.00	7,870.00	14,000.43	7,730.00	70.61	130.34	-87.40	-2,219.29	5,937.39	3,042.44	2,909.49	132.95	22.884		
12,700.00	7,870.00	14,100.43	7,730.00	71.75	130.49	-87.40	-2,319.29	5,937.05	3,042.44	2,906.93	135.51	22.452		
12,800.00	7,870.00	14,200.43	7,730.00	72.93	130.67	-87.40	-2,419.29	5,936.71	3,042.44	2,904.34	138.11	22.030		
12,900.00	7,870.00	14,300.43	7,730.00	74.14	130.86	-87.40	-2,519.28	5,936.37	3,042.44	2,901.70	140.75	21.617		
13,000.00	7,870.00	14,400.43	7,730.00	75.39	131.07	-87.40	-2,619.28	5,936.03	3,042.44	2,899.02	143.42	21.213		
13,100.00	7,870.00	14,500.43	7,730.00	76.67	131.30	-87.40	-2,719.28	5,935.70	3,042.44	2,896.31	146.14	20.819		
13,200.00	7,870.00	14,600.43	7,730.00	77.98	131.55	-87.40	-2,819.28	5,935.36	3,042.44	2,893.56	148.88	20.435		
13,300.00	7,870.00	14,700.43	7,730.00	79.31	131.82	-87.40	-2,919.28	5,935.02	3,042.44	2,890.78	151.66	20.061		
13,400.00	7,870.00	14,800.43	7,730.00	80.67	132.11	-87.40	-3,019.28	5,934.68	3,042.44	2,887.97	154.47	19.696		
13,500.00	7,870.00	14,900.43	7,730.00	82.04	132.42	-87.40	-3,119.28	5,934.35	3,042.44	2,885.13	157.31	19.340		
13,600.00	7,870.00	15,000.43	7,730.00	83.43	132.75	-87.40	-3,219.28	5,934.01	3,042.44	2,882.27	160.18	18.994		
13,700.00	7,870.00	15,100.43	7,730.00	84.84	133.11	-87.40	-3,319.28	5,933.67	3,042.44	2,879.37	163.07	18.657		
13,800.00	7,870.00	15,200.43	7,730.00	86.27	133.48	-87.40	-3,419.28	5,933.33	3,042.44	2,876.46	165.98	18.330		
13,900.00	7,870.00	15,300.43	7,730.00	87.71	133.88	-87.40	-3,519.28	5,932.99	3,042.44	2,873.52	168.92	18.011		
14,000.00	7,870.00	15,400.43	7,730.00	89.16	134.31	-87.40	-3,619.28	5,932.66	3,042.44	2,870.56	171.89	17.700		
14,100.00	7,870.00	15,500.43	7,730.00	90.63	134.76	-87.40	-3,719.28	5,932.32	3,042.44	2,867.57	174.87	17.398		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	15,600.43	7,730.00	92.10	135.23	-87.40	-3,819.28	5,931.98	3,042.44	2,864.57	177.87	17.105		
14,300.00	7,870.00	15,700.43	7,730.00	93.59	135.73	-87.40	-3,919.28	5,931.64	3,042.44	2,861.55	180.89	16.819		
14,400.00	7,870.00	15,800.43	7,730.00	95.09	136.26	-87.40	-4,019.28	5,931.31	3,042.44	2,858.51	183.93	16.541		
14,500.00	7,870.00	15,900.43	7,730.00	96.60	136.81	-87.40	-4,119.28	5,930.97	3,042.44	2,855.45	186.99	16.270		
14,600.00	7,870.00	16,000.43	7,730.00	98.11	137.39	-87.40	-4,219.28	5,930.63	3,042.44	2,852.38	190.07	16.007		
14,700.00	7,870.00	16,100.43	7,730.00	99.64	138.00	-87.40	-4,319.27	5,930.29	3,042.44	2,849.29	193.15	15.751		
14,800.00	7,870.00	16,200.43	7,730.00	101.17	138.64	-87.40	-4,419.27	5,929.95	3,042.44	2,846.18	196.26	15.502		
14,900.00	7,870.00	16,300.43	7,730.00	102.71	139.30	-87.40	-4,519.27	5,929.62	3,042.44	2,843.07	199.38	15.260		
15,000.00	7,870.00	16,400.43	7,730.00	104.26	139.99	-87.40	-4,619.27	5,929.28	3,042.44	2,839.93	202.51	15.024		
15,100.00	7,870.00	16,500.43	7,730.00	105.82	140.71	-87.40	-4,719.27	5,928.94	3,042.44	2,836.79	205.65	14.794		
15,200.00	7,870.00	16,600.43	7,730.00	107.38	141.45	-87.40	-4,819.27	5,928.60	3,042.44	2,833.63	208.81	14.570		
15,300.00	7,870.00	16,700.43	7,730.00	108.95	142.23	-87.40	-4,919.27	5,928.27	3,042.44	2,830.46	211.98	14.353		
15,400.00	7,870.00	16,800.43	7,730.00	110.52	143.03	-87.40	-5,019.27	5,927.93	3,042.44	2,827.28	215.16	14.140		
15,500.00	7,870.00	16,900.43	7,730.00	112.10	143.86	-87.40	-5,119.27	5,927.59	3,042.44	2,824.09	218.35	13.934		
15,600.00	7,870.00	17,000.43	7,730.00	113.69	144.72	-87.40	-5,219.27	5,927.25	3,042.44	2,820.89	221.55	13.733		
15,700.00	7,870.00	17,100.43	7,730.00	115.28	145.60	-87.40	-5,319.27	5,926.92	3,042.44	2,817.68	224.76	13.536		
15,800.00	7,870.00	17,200.43	7,730.00	116.87	146.51	-87.40	-5,419.27	5,926.58	3,042.44	2,814.46	227.98	13.345		
15,900.00	7,870.00	17,300.43	7,730.00	118.47	147.45	-87.40	-5,519.27	5,926.24	3,042.44	2,811.23	231.21	13.159		
16,000.00	7,870.00	17,400.43	7,730.00	120.07	148.41	-87.40	-5,619.27	5,925.90	3,042.44	2,807.99	234.45	12.977		
16,100.00	7,870.00	17,500.43	7,730.00	121.68	149.39	-87.40	-5,719.27	5,925.56	3,042.44	2,804.75	237.69	12.800		
16,200.00	7,870.00	17,600.43	7,730.00	123.30	150.41	-87.40	-5,819.27	5,925.23	3,042.44	2,801.49	240.95	12.627		
16,300.00	7,870.00	17,700.43	7,730.00	124.91	151.44	-87.40	-5,919.27	5,924.89	3,042.44	2,798.23	244.21	12.458		
16,400.00	7,870.00	17,800.43	7,730.00	126.53	152.50	-87.40	-6,019.26	5,924.55	3,042.44	2,794.96	247.48	12.294		
16,500.00	7,870.00	17,900.43	7,730.00	128.16	153.58	-87.40	-6,119.26	5,924.21	3,042.44	2,791.68	250.76	12.133		
16,600.00	7,870.00	18,000.43	7,730.00	129.79	154.68	-87.40	-6,219.26	5,923.88	3,042.44	2,788.40	254.04	11.976		
16,700.00	7,870.00	18,100.43	7,730.00	131.42	155.81	-87.40	-6,319.26	5,923.54	3,042.44	2,785.11	257.33	11.823		
16,800.00	7,870.00	18,200.43	7,730.00	133.05	156.95	-87.40	-6,419.26	5,923.20	3,042.44	2,781.82	260.63	11.674		
16,900.00	7,870.00	18,300.43	7,730.00	134.69	158.12	-87.40	-6,519.26	5,922.86	3,042.44	2,778.51	263.93	11.527		
17,000.00	7,870.00	18,400.43	7,730.00	136.33	159.30	-87.40	-6,619.26	5,922.52	3,042.44	2,775.20	267.24	11.385		
17,100.00	7,870.00	18,500.43	7,730.00	137.97	160.50	-87.40	-6,719.26	5,922.19	3,042.44	2,771.89	270.55	11.245		
17,200.00	7,870.00	18,600.43	7,730.00	139.62	161.72	-87.40	-6,819.26	5,921.85	3,042.44	2,768.57	273.87	11.109		
17,300.00	7,870.00	18,700.43	7,730.00	141.27	162.96	-87.40	-6,919.26	5,921.51	3,042.44	2,765.25	277.19	10.976		
17,400.00	7,870.00	18,800.43	7,730.00	142.92	164.21	-87.40	-7,019.26	5,921.17	3,042.44	2,761.92	280.52	10.846		
17,500.00	7,870.00	18,900.43	7,730.00	144.58	165.48	-87.40	-7,119.26	5,920.84	3,042.44	2,758.58	283.86	10.718		
17,600.00	7,870.00	19,000.43	7,730.00	146.23	166.77	-87.40	-7,219.26	5,920.50	3,042.44	2,755.24	287.20	10.594		
17,700.00	7,870.00	19,100.43	7,730.00	147.89	168.07	-87.40	-7,319.26	5,920.16	3,042.44	2,751.90	290.54	10.472		
17,800.00	7,870.00	19,200.43	7,730.00	149.56	169.38	-87.40	-7,419.26	5,919.82	3,042.44	2,748.55	293.89	10.352		
17,900.00	7,870.00	19,300.43	7,730.00	151.22	170.71	-87.40	-7,519.26	5,919.48	3,042.44	2,745.20	297.24	10.236		
18,000.00	7,870.00	19,400.43	7,730.00	152.89	172.05	-87.40	-7,619.26	5,919.15	3,042.44	2,741.84	300.60	10.121		
18,100.00	7,870.00	19,500.43	7,730.00	154.55	173.40	-87.40	-7,719.26	5,918.81	3,042.44	2,738.48	303.96	10.009		
18,200.00	7,870.00	19,600.43	7,730.00	156.22	174.77	-87.40	-7,819.25	5,918.47	3,042.44	2,735.12	307.32	9.900		
18,300.00	7,870.00	19,700.43	7,730.00	157.90	176.14	-87.40	-7,919.25	5,918.13	3,042.44	2,731.75	310.69	9.793		
18,400.00	7,870.00	19,800.43	7,730.00	159.57	177.53	-87.40	-8,019.25	5,917.80	3,042.44	2,728.38	314.06	9.687		
18,500.00	7,870.00	19,900.43	7,730.00	161.25	178.93	-87.40	-8,119.25	5,917.46	3,042.44	2,725.01	317.44	9.584		
18,600.00	7,870.00	20,000.43	7,730.00	162.93	180.34	-87.40	-8,219.25	5,917.12	3,042.44	2,721.63	320.81	9.483		
18,700.00	7,870.00	20,100.43	7,730.00	164.60	181.75	-87.40	-8,319.25	5,916.78	3,042.44	2,718.25	324.20	9.385		
18,789.76	7,870.00	20,190.19	7,730.00	166.11	183.04	-87.40	-8,409.01	5,916.48	3,042.44	2,715.21	327.23	9.297		
18,797.52	7,870.00	20,184.95	7,730.00	166.24	182.96	-87.40	-8,403.78	5,916.50	3,042.47	2,714.78	327.69	9.284 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	-89.48	0.36	-40.32	40.32					
100.00	100.00	100.00	100.00	0.13	0.13	-89.48	0.36	-40.32	40.32	40.05	0.27	149.977		
200.00	200.00	200.00	200.00	0.49	0.49	-89.48	0.36	-40.32	40.32	39.34	0.99	40.903		
300.00	300.00	300.00	300.00	0.85	0.85	-89.48	0.36	-40.32	40.32	38.62	1.70	23.681		
400.00	400.00	400.00	400.00	1.21	1.21	-89.48	0.36	-40.32	40.32	37.90	2.42	16.664		
500.00	500.00	500.00	500.00	1.57	1.57	-89.48	0.36	-40.32	40.32	37.19	3.14	12.855		
600.00	600.00	600.00	600.00	1.93	1.93	-89.48	0.36	-40.32	40.32	36.47	3.85	10.464		
700.00	700.00	700.00	700.00	2.29	2.29	-89.48	0.36	-40.32	40.32	35.75	4.57	8.822		
800.00	800.00	800.00	800.00	2.64	2.64	-89.48	0.36	-40.32	40.32	35.03	5.29	7.626		
900.00	900.00	900.00	900.00	3.00	3.00	-89.48	0.36	-40.32	40.32	34.32	6.00	6.715		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.48	0.36	-40.32	40.32	33.60	6.72	5.999 CC, ES		
1,100.00	1,099.98	1,100.02	1,099.98	3.72	3.72	-145.49	0.36	-40.32	41.75	34.31	7.43	5.615		
1,200.00	1,199.84	1,200.16	1,199.84	4.07	4.08	-149.13	0.36	-40.32	46.16	38.01	8.15	5.666		
1,300.00	1,299.45	1,300.55	1,299.45	4.43	4.44	-153.82	0.36	-40.32	53.83	44.97	8.86	6.075		
1,400.00	1,398.70	1,398.70	1,398.70	4.80	4.79	-158.48	0.36	-40.32	65.00	55.43	9.57	6.793		
1,500.00	1,497.47	1,499.73	1,499.71	5.18	5.15	-161.88	1.74	-39.26	78.37	68.09	10.28	7.622		
1,600.00	1,595.62	1,601.23	1,601.06	5.57	5.51	-163.68	5.95	-35.99	92.32	81.32	10.99	8.399		
1,700.00	1,693.06	1,703.17	1,702.60	6.00	5.88	-164.46	13.03	-30.50	106.68	94.98	11.70	9.119		
1,800.00	1,789.64	1,805.53	1,804.18	6.45	6.25	-164.57	23.00	-22.75	121.39	108.98	12.41	9.784		
1,900.00	1,885.27	1,908.31	1,905.65	6.94	6.63	-164.23	35.90	-12.75	136.43	123.31	13.12	10.399		
2,000.00	1,979.82	2,011.50	2,006.87	7.47	7.03	-163.55	51.73	-0.47	151.79	137.94	13.84	10.966		
2,100.00	2,073.17	2,115.07	2,107.67	8.05	7.46	-162.64	70.51	14.10	167.47	152.89	14.58	11.486		
2,200.00	2,165.21	2,219.02	2,207.91	8.67	7.91	-161.56	92.23	30.96	183.51	168.16	15.34	11.959		
2,300.00	2,255.84	2,323.32	2,307.42	9.35	8.40	-160.34	116.91	50.10	199.90	183.76	16.14	12.385		
2,400.00	2,344.94	2,427.98	2,406.06	10.09	8.92	-159.03	144.53	71.53	216.69	199.70	16.98	12.759		
2,500.00	2,432.39	2,532.96	2,503.66	10.89	9.49	-157.64	175.07	95.23	233.87	215.99	17.88	13.078		
2,519.29	2,449.07	2,553.25	2,522.36	11.05	9.61	-157.37	181.30	100.06	237.24	219.17	18.07	13.132		
2,600.00	2,518.69	2,638.41	2,600.20	11.74	10.12	-156.20	208.58	121.23	250.46	231.60	18.85	13.284		
2,700.00	2,604.95	2,738.60	2,690.88	12.62	10.75	-154.68	242.23	147.34	265.31	245.36	19.95	13.302		
2,800.00	2,691.22	2,837.27	2,780.15	13.52	11.40	-153.33	275.44	173.11	280.26	259.16	21.09	13.286		
2,900.00	2,777.48	2,935.94	2,869.42	14.43	12.06	-152.12	308.65	198.87	295.34	273.06	22.28	13.254		
3,000.00	2,863.75	3,034.61	2,958.69	15.35	12.75	-151.03	341.86	224.64	310.54	287.03	23.51	13.208		
3,100.00	2,950.01	3,133.28	3,047.96	16.28	13.44	-150.03	375.07	250.40	325.85	301.08	24.77	13.154		
3,200.00	3,036.27	3,231.95	3,137.23	17.22	14.15	-149.13	408.28	276.17	341.24	315.18	26.06	13.094		
3,300.00	3,122.54	3,330.63	3,226.50	18.17	14.87	-148.30	441.49	301.94	356.70	329.33	27.38	13.030		
3,400.00	3,208.80	3,429.30	3,315.77	19.13	15.60	-147.55	474.70	327.70	372.24	343.52	28.71	12.964		
3,500.00	3,295.07	3,527.97	3,405.04	20.09	16.33	-146.85	507.91	353.47	387.83	357.76	30.07	12.897		
3,600.00	3,381.33	3,626.64	3,494.31	21.05	17.07	-146.21	541.12	379.24	403.47	372.02	31.45	12.830		
3,700.00	3,467.59	3,725.31	3,583.58	22.02	17.82	-145.61	574.33	405.00	419.16	386.32	32.84	12.764		
3,800.00	3,553.86	3,823.98	3,672.86	22.99	18.57	-145.06	607.54	430.77	434.89	400.64	34.24	12.699		
3,900.00	3,640.12	3,922.66	3,762.13	23.97	19.32	-144.55	640.75	456.54	450.65	414.99	35.66	12.636		
4,000.00	3,726.38	4,021.33	3,851.40	24.95	20.08	-144.07	673.96	482.30	466.45	429.36	37.09	12.575		
4,100.00	3,812.65	4,120.00	3,940.67	25.93	20.85	-143.62	707.17	508.07	482.28	443.75	38.53	12.516		
4,200.00	3,898.91	4,218.67	4,029.94	26.91	21.61	-143.20	740.38	533.84	498.14	458.15	39.98	12.459		
4,300.00	3,985.18	4,317.34	4,119.21	27.90	22.38	-142.81	773.59	559.60	514.02	472.58	41.44	12.404		
4,400.00	4,071.44	4,416.01	4,208.48	28.88	23.15	-142.44	806.80	585.37	529.92	487.01	42.91	12.351		
4,500.00	4,157.70	4,514.68	4,297.75	29.87	23.93	-142.09	840.01	611.13	545.84	501.46	44.38	12.300		
4,600.00	4,243.97	4,613.36	4,387.02	30.86	24.70	-141.77	873.22	636.90	561.78	515.93	45.86	12.251		
4,700.00	4,330.23	4,712.03	4,476.29	31.85	25.48	-141.46	906.43	662.67	577.74	530.40	47.34	12.204		
4,800.00	4,416.49	4,810.70	4,565.56	32.84	26.26	-141.16	939.64	688.43	593.71	544.89	48.83	12.159		
4,900.00	4,502.76	4,909.37	4,654.83	33.84	27.04	-140.88	972.85	714.20	609.70	559.38	50.32	12.116		
5,000.00	4,589.02	5,008.04	4,744.11	34.83	27.82	-140.62	1,006.06	739.97	625.70	573.88	51.82	12.074		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	5,106.71	4,833.38	35.82	28.61	-140.37	1,039.27	765.73	641.72	588.39	53.32	12.035		
5,200.00	4,761.55	5,205.39	4,922.65	36.82	29.39	-140.13	1,072.48	791.50	657.74	602.91	54.83	11.996		
5,300.00	4,847.81	5,304.06	5,011.92	37.82	30.18	-139.90	1,105.69	817.27	673.78	617.44	56.34	11.960		
5,400.00	4,934.08	5,402.73	5,101.19	38.81	30.96	-139.69	1,138.90	843.03	689.82	631.97	57.85	11.924		
5,500.00	5,020.34	5,501.40	5,190.46	39.81	31.75	-139.48	1,172.11	868.80	705.88	646.51	59.36	11.891		
5,600.00	5,106.60	5,600.07	5,279.73	40.81	32.54	-139.28	1,205.32	894.57	721.94	661.06	60.88	11.858		
5,700.00	5,192.87	5,698.74	5,369.00	41.81	33.33	-139.09	1,238.53	920.33	738.01	675.61	62.40	11.827		
5,800.00	5,279.13	5,802.59	5,458.27	42.81	34.16	-138.91	1,271.74	946.10	754.09	690.13	63.96	11.790		
5,900.00	5,365.40	5,903.91	5,547.54	43.81	34.97	-138.74	1,304.95	971.86	770.17	704.67	65.51	11.757		
6,000.00	5,451.66	6,005.24	5,636.81	44.81	35.79	-138.57	1,338.16	997.63	786.27	719.21	67.05	11.726		
6,100.00	5,537.92	6,093.43	5,726.08	45.81	36.50	-138.41	1,371.36	1,023.40	802.37	733.86	68.51	11.712		
6,200.00	5,624.19	6,207.90	5,815.36	46.81	37.42	-138.26	1,404.57	1,049.16	818.47	748.32	70.15	11.667		
6,300.00	5,710.45	6,290.77	5,904.63	47.81	38.08	-138.11	1,437.78	1,074.93	834.58	763.01	71.57	11.661		
6,400.00	5,796.72	6,389.44	5,993.90	48.81	38.88	-137.97	1,470.99	1,100.70	850.69	777.59	73.10	11.637		
6,500.00	5,882.98	6,488.12	6,083.17	49.81	39.67	-137.84	1,504.20	1,126.46	866.81	792.18	74.64	11.614		
6,600.00	5,969.24	6,586.79	6,172.44	50.82	40.47	-137.70	1,537.41	1,152.23	882.94	806.76	76.17	11.591		
6,700.00	6,055.51	6,685.46	6,261.71	51.82	41.26	-137.58	1,570.62	1,178.00	899.07	821.35	77.71	11.569		
6,800.00	6,141.77	6,784.13	6,350.98	52.82	42.06	-137.46	1,603.83	1,203.76	915.20	835.95	79.25	11.548		
6,900.00	6,228.03	6,882.80	6,440.25	53.83	42.85	-137.34	1,637.04	1,229.53	931.34	850.54	80.79	11.528		
7,000.00	6,314.30	6,981.47	6,529.52	54.83	43.65	-137.22	1,670.25	1,255.30	947.48	865.14	82.33	11.508		
7,100.00	6,400.56	7,080.15	6,618.79	55.83	44.45	-137.11	1,703.46	1,281.06	963.62	879.74	83.88	11.489		
7,200.00	6,486.83	7,178.82	6,708.06	56.84	45.24	-137.01	1,736.67	1,306.83	979.77	894.35	85.42	11.470		
7,300.00	6,573.09	7,277.49	6,797.33	57.84	46.04	-136.90	1,769.88	1,332.59	995.92	908.95	86.96	11.452		
7,400.00	6,659.35	7,376.16	6,886.61	58.84	46.84	-136.80	1,803.09	1,358.36	1,012.07	923.56	88.51	11.435		
7,500.00	6,745.62	7,506.84	7,008.25	59.85	47.76	-137.41	1,834.36	1,393.43	1,026.79	937.04	89.75	11.440		
7,600.00	6,831.88	7,630.37	7,126.72	60.85	48.31	-139.43	1,836.91	1,427.48	1,038.86	949.40	89.46	11.613		
7,700.00	6,918.14	7,735.57	7,226.09	61.86	48.53	-142.17	1,818.22	1,455.97	1,050.32	962.11	88.21	11.906		
7,800.00	7,004.41	7,820.79	7,303.12	62.86	48.55	-145.00	1,789.42	1,478.01	1,063.61	977.00	86.61	12.280		
7,900.00	7,090.67	7,888.43	7,360.82	63.87	48.49	-147.57	1,758.30	1,494.49	1,080.75	995.82	84.93	12.725		
8,000.00	7,176.94	7,942.02	7,403.80	64.87	48.39	-149.79	1,728.74	1,506.74	1,103.07	1,019.85	83.22	13.255		
8,027.52	7,200.68	7,954.76	7,413.61	65.15	48.36	-150.33	1,721.12	1,509.53	1,110.23	1,027.49	82.75	13.417		
8,050.00	7,220.18	7,964.88	7,421.28	65.37	48.33	-154.81	1,714.90	1,511.71	1,116.40	1,034.04	82.36	13.555		
8,100.00	7,264.25	7,987.58	7,438.11	65.85	48.27	-165.78	1,700.44	1,516.50	1,130.99	1,049.47	81.52	13.873		
8,150.00	7,308.99	8,010.51	7,454.54	66.28	48.20	-177.97	1,685.13	1,521.17	1,146.55	1,065.83	80.72	14.203		
8,200.00	7,354.07	8,033.64	7,470.50	66.67	48.12	169.12	1,669.02	1,525.70	1,162.83	1,082.87	79.96	14.542		
8,250.00	7,399.14	8,056.95	7,485.94	67.02	48.04	156.24	1,652.12	1,530.08	1,179.57	1,100.32	79.25	14.884		
8,300.00	7,443.85	8,080.41	7,500.80	67.32	47.95	144.14	1,634.46	1,534.29	1,196.54	1,117.96	78.58	15.228		
8,350.00	7,487.88	8,100.00	7,512.67	67.56	47.87	133.40	1,619.25	1,537.65	1,213.51	1,135.44	78.07	15.544		
8,400.00	7,530.87	8,127.71	7,528.59	67.75	47.75	123.87	1,597.02	1,542.15	1,230.25	1,152.87	77.39	15.897		
8,450.00	7,572.51	8,150.00	7,540.64	67.90	47.65	115.87	1,578.58	1,545.55	1,246.60	1,169.68	76.92	16.206		
8,500.00	7,612.48	8,175.42	7,553.52	68.00	47.52	109.03	1,556.97	1,549.18	1,262.35	1,185.93	76.43	16.517		
8,550.00	7,650.47	8,200.00	7,565.09	68.05	47.40	103.27	1,535.53	1,552.43	1,277.36	1,201.34	76.02	16.803		
8,600.00	7,686.20	8,223.46	7,575.30	68.06	47.28	98.43	1,514.60	1,555.30	1,291.47	1,215.75	75.72	17.055		
8,650.00	7,719.39	8,250.00	7,585.85	68.03	47.14	94.31	1,490.43	1,558.25	1,304.56	1,229.16	75.40	17.302		
8,700.00	7,749.79	8,271.76	7,593.69	67.97	47.02	90.90	1,470.25	1,560.43	1,316.49	1,241.19	75.31	17.482		
8,750.00	7,777.17	8,300.00	7,602.75	67.87	46.86	87.99	1,443.63	1,562.95	1,327.19	1,252.12	75.07	17.679		
8,800.00	7,801.32	8,320.26	7,608.47	67.74	46.75	85.66	1,424.26	1,564.52	1,336.52	1,261.33	75.20	17.774		
8,850.00	7,822.06	8,350.00	7,615.67	67.59	46.58	83.71	1,395.47	1,566.50	1,344.48	1,269.41	75.06	17.912		
8,900.00	7,839.23	8,368.90	7,619.49	67.41	46.46	82.24	1,377.00	1,567.53	1,350.91	1,275.50	75.40	17.916		
8,950.00	7,852.69	8,400.00	7,624.51	67.22	46.28	81.09	1,346.33	1,568.87	1,355.87	1,280.50	75.36	17.991		
9,000.00	7,862.35	8,417.63	7,626.64	67.00	46.18	80.35	1,328.84	1,569.42	1,359.19	1,283.28	75.92	17.904		
9,050.00	7,868.14	8,450.00	7,629.19	66.78	45.98	79.92	1,296.58	1,570.05	1,361.02	1,285.05	75.96	17.917		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,465.75	7,629.81	66.55	45.89	79.84	1,280.85	1,570.17	1,361.16	1,284.46	76.70	17.747		
9,100.00	7,870.00	8,466.41	7,629.82	66.55	45.88	79.84	1,280.19	1,570.17	1,361.14	1,284.43	76.71	17.744		
9,131.95	7,870.00	8,483.05	7,630.00	66.40	45.78	79.84	1,263.54	1,570.17	1,360.97	1,284.01	76.96	17.683		
9,200.00	7,870.00	8,551.11	7,630.00	66.09	45.38	79.84	1,195.49	1,569.94	1,360.97	1,284.80	76.17	17.867		
9,300.00	7,870.00	8,651.11	7,630.00	65.65	44.83	79.84	1,095.49	1,569.60	1,360.97	1,285.84	75.13	18.115		
9,400.00	7,870.00	8,751.11	7,630.00	65.24	44.30	79.84	995.49	1,569.26	1,360.97	1,286.74	74.24	18.333		
9,500.00	7,870.00	8,851.11	7,630.00	64.85	43.81	79.84	895.49	1,568.92	1,360.97	1,287.48	73.50	18.517		
9,600.00	7,870.00	8,951.11	7,630.00	64.48	43.34	79.84	795.49	1,568.58	1,360.97	1,288.05	72.92	18.664		
9,700.00	7,870.00	9,051.11	7,630.00	64.13	42.91	79.84	695.49	1,568.25	1,360.97	1,288.47	72.51	18.770		
9,800.00	7,870.00	9,151.11	7,630.00	63.80	42.50	79.84	595.49	1,567.91	1,360.98	1,288.72	72.26	18.835		
9,900.00	7,870.00	9,251.11	7,630.00	63.50	42.11	79.84	495.49	1,567.57	1,360.98	1,288.80	72.18	18.855		
10,000.00	7,870.00	9,351.11	7,630.00	63.22	41.76	79.84	395.50	1,567.23	1,360.98	1,288.71	72.27	18.832		
10,100.00	7,870.00	9,451.11	7,630.00	62.96	41.42	79.84	295.50	1,566.89	1,360.98	1,288.45	72.53	18.765		
10,200.00	7,870.00	9,551.11	7,630.00	62.72	41.11	79.84	195.50	1,566.55	1,360.98	1,288.03	72.95	18.656		
10,300.00	7,870.00	9,651.11	7,630.00	62.50	40.81	79.84	95.50	1,566.22	1,360.98	1,287.44	73.54	18.508		
10,400.00	7,870.00	9,751.11	7,630.00	62.31	40.54	79.84	-4.50	1,565.88	1,360.98	1,286.70	74.28	18.322		
10,500.00	7,870.00	9,851.11	7,630.00	62.15	40.28	79.84	-104.50	1,565.54	1,360.98	1,285.80	75.18	18.102		
10,600.00	7,870.00	9,951.11	7,630.00	62.01	40.04	79.84	-204.50	1,565.20	1,360.98	1,284.75	76.23	17.853		
10,700.00	7,870.00	10,051.11	7,630.00	61.90	39.83	79.84	-304.50	1,564.86	1,360.98	1,283.55	77.43	17.578		
10,800.00	7,870.00	10,151.11	7,630.00	61.82	40.45	79.84	-404.50	1,564.53	1,360.98	1,282.22	78.76	17.281		
10,900.00	7,870.00	10,251.11	7,630.00	61.78	41.44	79.84	-504.50	1,564.19	1,360.98	1,280.77	80.22	16.967		
11,000.00	7,870.00	10,351.11	7,630.00	61.77	42.47	79.84	-604.50	1,563.85	1,360.98	1,279.18	81.80	16.639		
11,100.00	7,870.00	10,451.11	7,630.00	61.81	43.53	79.84	-704.50	1,563.51	1,360.98	1,277.49	83.49	16.300		
11,200.00	7,870.00	10,551.11	7,630.00	61.90	44.63	79.84	-804.50	1,563.17	1,360.98	1,275.68	85.30	15.955		
11,300.00	7,870.00	10,651.11	7,630.00	62.03	45.76	79.84	-904.50	1,562.83	1,360.98	1,273.77	87.21	15.606		
11,400.00	7,870.00	10,751.11	7,630.00	62.23	46.92	79.84	-1,004.50	1,562.50	1,360.98	1,271.77	89.21	15.255		
11,500.00	7,870.00	10,851.11	7,630.00	62.50	48.11	79.84	-1,104.50	1,562.16	1,360.98	1,269.68	91.31	14.905		
11,600.00	7,870.00	10,951.11	7,630.00	62.84	49.33	79.84	-1,204.50	1,561.82	1,360.98	1,267.50	93.48	14.558		
11,700.00	7,870.00	11,051.11	7,630.00	63.25	50.58	79.84	-1,304.49	1,561.48	1,360.99	1,265.25	95.74	14.216		
11,800.00	7,870.00	11,151.11	7,630.00	63.76	51.85	79.84	-1,404.49	1,561.14	1,360.99	1,262.92	98.07	13.878		
11,900.00	7,870.00	11,251.11	7,630.00	64.34	53.15	79.84	-1,504.49	1,560.80	1,360.99	1,260.53	100.46	13.548		
12,000.00	7,870.00	11,351.11	7,630.00	65.01	54.47	79.84	-1,604.49	1,560.47	1,360.99	1,258.07	102.92	13.224		
12,100.00	7,870.00	11,451.11	7,630.00	65.77	55.80	79.84	-1,704.49	1,560.13	1,360.99	1,255.56	105.43	12.909		
12,200.00	7,870.00	11,551.11	7,630.00	66.61	57.16	79.84	-1,804.49	1,559.79	1,360.99	1,252.99	108.00	12.602		
12,300.00	7,870.00	11,651.11	7,630.00	67.51	58.54	79.84	-1,904.49	1,559.45	1,360.99	1,250.37	110.62	12.303		
12,400.00	7,870.00	11,751.11	7,630.00	68.49	59.94	79.84	-2,004.49	1,559.11	1,360.99	1,247.70	113.29	12.014		
12,500.00	7,870.00	11,851.11	7,630.00	69.52	61.35	79.84	-2,104.49	1,558.77	1,360.99	1,244.99	116.00	11.733		
12,600.00	7,870.00	11,951.11	7,630.00	70.61	62.78	79.84	-2,204.49	1,558.44	1,360.99	1,242.24	118.75	11.461		
12,700.00	7,870.00	12,051.11	7,630.00	71.75	64.22	79.84	-2,304.49	1,558.10	1,360.99	1,239.46	121.53	11.198		
12,800.00	7,870.00	12,151.11	7,630.00	72.93	65.67	79.84	-2,404.49	1,557.76	1,360.99	1,236.63	124.36	10.944		
12,900.00	7,870.00	12,251.11	7,630.00	74.14	67.14	79.84	-2,504.49	1,557.42	1,360.99	1,233.78	127.22	10.698		
13,000.00	7,870.00	12,351.11	7,630.00	75.39	68.62	79.84	-2,604.49	1,557.08	1,360.99	1,230.89	130.10	10.461		
13,100.00	7,870.00	12,451.11	7,630.00	76.67	70.12	79.84	-2,704.49	1,556.75	1,360.99	1,227.97	133.02	10.231		
13,200.00	7,870.00	12,551.11	7,630.00	77.98	71.62	79.84	-2,804.49	1,556.41	1,360.99	1,225.03	135.96	10.010		
13,300.00	7,870.00	12,651.11	7,630.00	79.31	73.14	79.84	-2,904.49	1,556.07	1,360.99	1,222.06	138.93	9.796		
13,400.00	7,870.00	12,751.11	7,630.00	80.67	74.66	79.84	-3,004.49	1,555.73	1,360.99	1,219.07	141.93	9.590		
13,500.00	7,870.00	12,851.11	7,630.00	82.04	76.20	79.84	-3,104.48	1,555.39	1,360.99	1,216.05	144.94	9.390		
13,600.00	7,870.00	12,951.11	7,630.00	83.43	77.74	79.84	-3,204.48	1,555.05	1,361.00	1,213.02	147.98	9.197		
13,700.00	7,870.00	13,051.11	7,630.00	84.84	79.29	79.84	-3,304.48	1,554.72	1,361.00	1,209.96	151.03	8.911		
13,800.00	7,870.00	13,151.11	7,630.00	86.27	80.85	79.84	-3,404.48	1,554.38	1,361.00	1,206.89	154.10	8.632		
13,900.00	7,870.00	13,251.11	7,630.00	87.71	82.42	79.84	-3,504.48	1,554.04	1,361.00	1,203.80	157.20	8.358		
14,000.00	7,870.00	13,351.11	7,630.00	89.16	83.99	79.84	-3,604.48	1,553.70	1,361.00	1,200.69	160.30	8.090		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	13,451.11	7,630.00	90.63	85.57	79.84	-3,704.48	1,553.36	1,361.00	1,197.57	163.43	8.328		
14,200.00	7,870.00	13,551.11	7,630.00	92.10	87.16	79.84	-3,804.48	1,553.02	1,361.00	1,194.43	166.56	8.171		
14,300.00	7,870.00	13,651.11	7,630.00	93.59	88.75	79.84	-3,904.48	1,552.69	1,361.00	1,191.28	169.72	8.019		
14,400.00	7,870.00	13,751.11	7,630.00	95.09	90.35	79.84	-4,004.48	1,552.35	1,361.00	1,188.12	172.88	7.873		
14,500.00	7,870.00	13,851.11	7,630.00	96.60	91.96	79.84	-4,104.48	1,552.01	1,361.00	1,184.94	176.06	7.730		
14,600.00	7,870.00	13,951.11	7,630.00	98.11	93.57	79.84	-4,204.48	1,551.67	1,361.00	1,181.76	179.24	7.593		
14,700.00	7,870.00	14,051.11	7,630.00	99.64	95.18	79.84	-4,304.48	1,551.33	1,361.00	1,178.56	182.44	7.460		
14,800.00	7,870.00	14,151.11	7,630.00	101.17	96.80	79.84	-4,404.48	1,550.99	1,361.00	1,175.35	185.65	7.331		
14,900.00	7,870.00	14,251.11	7,630.00	102.71	98.43	79.84	-4,504.48	1,550.66	1,361.00	1,172.13	188.87	7.206		
15,000.00	7,870.00	14,351.11	7,630.00	104.26	100.06	79.84	-4,604.48	1,550.32	1,361.00	1,168.90	192.10	7.085		
15,100.00	7,870.00	14,451.11	7,630.00	105.82	101.69	79.84	-4,704.48	1,549.98	1,361.00	1,165.66	195.34	6.967		
15,200.00	7,870.00	14,551.11	7,630.00	107.38	103.33	79.84	-4,804.48	1,549.64	1,361.00	1,162.42	198.59	6.853		
15,300.00	7,870.00	14,651.11	7,630.00	108.95	104.97	79.84	-4,904.47	1,549.30	1,361.00	1,159.16	201.84	6.743		
15,400.00	7,870.00	14,751.11	7,630.00	110.52	106.61	79.84	-5,004.47	1,548.97	1,361.01	1,155.90	205.10	6.636		
15,500.00	7,870.00	14,851.11	7,630.00	112.10	108.26	79.84	-5,104.47	1,548.63	1,361.01	1,152.63	208.37	6.532		
15,600.00	7,870.00	14,951.11	7,630.00	113.69	109.92	79.84	-5,204.47	1,548.29	1,361.01	1,149.36	211.65	6.430		
15,700.00	7,870.00	15,051.11	7,630.00	115.28	111.57	79.84	-5,304.47	1,547.95	1,361.01	1,146.07	214.93	6.332		
15,800.00	7,870.00	15,151.11	7,630.00	116.87	113.23	79.84	-5,404.47	1,547.61	1,361.01	1,142.78	218.22	6.237		
15,900.00	7,870.00	15,251.11	7,630.00	118.47	114.89	79.84	-5,504.47	1,547.27	1,361.01	1,139.49	221.52	6.144		
16,000.00	7,870.00	15,351.11	7,630.00	120.07	116.56	79.84	-5,604.47	1,546.94	1,361.01	1,136.19	224.82	6.054		
16,100.00	7,870.00	15,451.11	7,630.00	121.68	118.22	79.84	-5,704.47	1,546.60	1,361.01	1,132.88	228.13	5.966		
16,200.00	7,870.00	15,551.11	7,630.00	123.30	119.89	79.84	-5,804.47	1,546.26	1,361.01	1,129.57	231.44	5.881		
16,300.00	7,870.00	15,651.11	7,630.00	124.91	121.57	79.84	-5,904.47	1,545.92	1,361.01	1,126.25	234.76	5.797		
16,400.00	7,870.00	15,751.11	7,630.00	126.53	123.24	79.84	-6,004.47	1,545.58	1,361.01	1,122.93	238.08	5.717		
16,500.00	7,870.00	15,851.11	7,630.00	128.16	124.92	79.84	-6,104.47	1,545.24	1,361.01	1,119.60	241.41	5.638		
16,600.00	7,870.00	15,951.11	7,630.00	129.79	126.60	79.84	-6,204.47	1,544.91	1,361.01	1,116.27	244.74	5.561		
16,700.00	7,870.00	16,051.11	7,630.00	131.42	128.28	79.84	-6,304.47	1,544.57	1,361.01	1,112.93	248.08	5.486		
16,800.00	7,870.00	16,151.11	7,630.00	133.05	129.97	79.84	-6,404.47	1,544.23	1,361.01	1,109.59	251.42	5.413		
16,900.00	7,870.00	16,251.11	7,630.00	134.69	131.65	79.84	-6,504.47	1,543.89	1,361.01	1,106.25	254.76	5.342		
17,000.00	7,870.00	16,351.11	7,630.00	136.33	133.34	79.84	-6,604.46	1,543.55	1,361.01	1,102.90	258.11	5.273		
17,100.00	7,870.00	16,451.11	7,630.00	137.97	135.03	79.84	-6,704.46	1,543.22	1,361.01	1,099.55	261.46	5.205		
17,200.00	7,870.00	16,551.11	7,630.00	139.62	136.72	79.84	-6,804.46	1,542.88	1,361.01	1,096.19	264.82	5.139		
17,300.00	7,870.00	16,651.11	7,630.00	141.27	138.42	79.84	-6,904.46	1,542.54	1,361.02	1,092.84	268.18	5.075		
17,400.00	7,870.00	16,751.11	7,630.00	142.92	140.11	79.84	-7,004.46	1,542.20	1,361.02	1,089.47	271.54	5.012		
17,500.00	7,870.00	16,851.11	7,630.00	144.58	141.81	79.84	-7,104.46	1,541.86	1,361.02	1,086.11	274.91	4.951		
17,600.00	7,870.00	16,951.11	7,630.00	146.23	143.51	79.84	-7,204.46	1,541.52	1,361.02	1,082.74	278.28	4.891		
17,700.00	7,870.00	17,051.11	7,630.00	147.89	145.21	79.84	-7,304.46	1,541.19	1,361.02	1,079.37	281.65	4.832		
17,800.00	7,870.00	17,151.11	7,630.00	149.56	146.91	79.84	-7,404.46	1,540.85	1,361.02	1,076.00	285.02	4.775		
17,900.00	7,870.00	17,251.11	7,630.00	151.22	148.61	79.84	-7,504.46	1,540.51	1,361.02	1,072.62	288.40	4.719		
18,000.00	7,870.00	17,351.11	7,630.00	152.89	150.32	79.84	-7,604.46	1,540.17	1,361.02	1,069.24	291.78	4.665		
18,100.00	7,870.00	17,451.11	7,630.00	154.55	152.02	79.84	-7,704.46	1,539.83	1,361.02	1,065.86	295.16	4.611		
18,200.00	7,870.00	17,551.11	7,630.00	156.22	153.73	79.84	-7,804.46	1,539.49	1,361.02	1,062.47	298.55	4.559		
18,300.00	7,870.00	17,651.11	7,630.00	157.90	155.44	79.84	-7,904.46	1,539.16	1,361.02	1,059.09	301.93	4.508		
18,400.00	7,870.00	17,751.11	7,630.00	159.57	157.15	79.84	-8,004.46	1,538.82	1,361.02	1,055.70	305.32	4.458		
18,500.00	7,870.00	17,851.11	7,630.00	161.25	158.86	79.84	-8,104.46	1,538.48	1,361.02	1,052.31	308.72	4.409		
18,600.00	7,870.00	17,951.11	7,630.00	162.93	160.57	79.84	-8,204.46	1,538.14	1,361.02	1,048.91	312.11	4.361		
18,700.00	7,870.00	18,051.11	7,630.00	164.60	162.28	79.84	-8,304.46	1,537.80	1,361.02	1,045.52	315.51	4.314		
18,797.52	7,870.00	18,148.63	7,630.00	166.24	163.96	79.84	-8,401.97	1,537.47	1,361.02	1,042.20	318.82	4.269 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	49.12	1,787.82	2,065.23	8,191.59					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	49.12	1,787.82	2,065.23	8,097.38	8,017.74	79.64	101.675		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	49.12	1,787.82	2,065.23	8,003.32	7,923.51	79.81	100.278		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	49.12	1,787.82	2,065.23	7,909.40	7,829.40	80.00	98.869		
400.00	400.00	16,236.00	7,569.74	1.21	158.98	49.12	1,787.82	2,065.23	7,815.63	7,735.42	80.20	97.446		
500.00	500.00	16,236.00	7,569.74	1.57	158.98	49.12	1,787.82	2,065.23	7,722.01	7,641.58	80.43	96.012		
600.00	600.00	16,236.00	7,569.74	1.93	158.98	49.12	1,787.82	2,065.23	7,628.56	7,547.89	80.67	94.566		
700.00	700.00	16,236.00	7,569.74	2.29	158.98	49.12	1,787.82	2,065.23	7,535.27	7,454.35	80.93	93.112		
800.00	800.00	16,236.00	7,569.74	2.64	158.98	49.12	1,787.82	2,065.23	7,442.16	7,360.96	81.20	91.648		
900.00	900.00	16,236.00	7,569.74	3.00	158.98	49.12	1,787.82	2,065.23	7,349.24	7,267.74	81.50	90.178		
1,000.00	1,000.00	16,236.00	7,569.74	3.36	158.98	49.12	1,787.82	2,065.23	7,256.49	7,174.69	81.81	88.702		
1,100.00	1,099.98	16,236.00	7,569.74	3.72	158.98	-6.02	1,787.82	2,065.23	7,163.31	7,081.17	82.13	87.218		
1,200.00	1,199.84	16,236.00	7,569.74	4.07	158.98	-6.64	1,787.82	2,065.23	7,069.08	6,986.62	82.45	85.735		
1,300.00	1,299.45	16,236.00	7,569.74	4.43	158.98	-7.40	1,787.82	2,065.23	6,973.88	6,891.13	82.76	84.271		
1,400.00	1,398.70	16,236.00	7,569.74	4.80	158.98	-8.35	1,787.82	2,065.23	6,877.80	6,794.76	83.04	82.826		
1,500.00	1,497.47	16,236.00	7,569.74	5.18	158.98	-9.57	1,787.82	2,065.23	6,780.91	6,697.61	83.30	81.403		
1,600.00	1,595.62	16,236.00	7,569.74	5.57	158.98	-11.19	1,787.82	2,065.23	6,683.30	6,599.76	83.54	80.004		
1,700.00	1,693.06	16,236.00	7,569.74	6.00	158.98	-13.43	1,787.82	2,065.23	6,585.06	6,501.32	83.75	78.629		
1,800.00	1,789.64	16,236.00	7,569.74	6.45	158.98	-16.73	1,787.82	2,065.23	6,486.29	6,402.36	83.93	77.280		
1,900.00	1,885.27	16,236.00	7,569.74	6.94	158.98	-21.99	1,787.82	2,065.23	6,387.08	6,302.99	84.09	75.959		
2,000.00	1,979.82	16,236.00	7,569.74	7.47	158.98	-31.44	1,787.82	2,065.23	6,287.53	6,203.32	84.21	74.667		
2,100.00	2,073.17	16,236.00	7,569.74	8.05	158.98	-51.12	1,787.82	2,065.23	6,187.75	6,103.45	84.30	73.404		
2,200.00	2,165.21	16,236.00	7,569.74	8.67	158.98	-90.61	1,787.82	2,065.23	6,087.86	6,003.51	84.35	72.172		
2,300.00	2,255.84	16,236.00	7,569.74	9.35	158.98	-129.16	1,787.82	2,065.23	5,987.98	5,903.61	84.37	70.971		
2,400.00	2,344.94	16,236.00	7,569.74	10.09	158.98	-148.05	1,787.82	2,065.23	5,888.22	5,803.87	84.35	69.803		
2,500.00	2,432.39	16,236.00	7,569.74	10.89	158.98	-157.19	1,787.82	2,065.23	5,788.73	5,704.43	84.30	68.668		
2,519.29	2,449.07	16,236.00	7,569.74	11.05	158.98	-158.40	1,787.82	2,065.23	5,769.58	5,685.29	84.28	68.454		
2,600.00	2,518.69	16,236.00	7,569.74	11.74	158.98	-158.40	1,787.82	2,065.23	5,689.49	5,605.27	84.22	67.553		
2,700.00	2,604.95	16,236.00	7,569.74	12.62	158.98	-158.40	1,787.82	2,065.23	5,590.29	5,506.15	84.15	66.435		
2,800.00	2,691.22	16,236.00	7,569.74	13.52	158.98	-158.40	1,787.82	2,065.23	5,491.12	5,407.05	84.07	65.314		
2,900.00	2,777.48	16,236.00	7,569.74	14.43	158.98	-158.40	1,787.82	2,065.23	5,391.98	5,307.98	84.00	64.192		
3,000.00	2,863.75	16,236.00	7,569.74	15.35	158.98	-158.40	1,787.82	2,065.23	5,292.87	5,208.95	83.92	63.067		
3,100.00	2,950.01	16,236.00	7,569.74	16.28	158.98	-158.40	1,787.82	2,065.23	5,193.80	5,109.95	83.85	61.942		
3,200.00	3,036.27	16,236.00	7,569.74	17.22	158.98	-158.40	1,787.82	2,065.23	5,094.76	5,010.98	83.78	60.815		
3,300.00	3,122.54	16,236.00	7,569.74	18.17	158.98	-158.40	1,787.82	2,065.23	4,995.76	4,912.06	83.70	59.686		
3,400.00	3,208.80	16,236.00	7,569.74	19.13	158.98	-158.40	1,787.82	2,065.23	4,896.80	4,813.17	83.63	58.556		
3,500.00	3,295.07	16,236.00	7,569.74	20.09	158.98	-158.40	1,787.82	2,065.23	4,797.88	4,714.33	83.55	57.425		
3,600.00	3,381.33	16,236.00	7,569.74	21.05	158.98	-158.40	1,787.82	2,065.23	4,699.01	4,615.54	83.47	56.293		
3,700.00	3,467.59	16,236.00	7,569.74	22.02	158.98	-158.40	1,787.82	2,065.23	4,600.19	4,516.79	83.40	55.161		
3,800.00	3,553.86	16,236.00	7,569.74	22.99	158.98	-158.40	1,787.82	2,065.23	4,501.42	4,418.10	83.32	54.027		
3,900.00	3,640.12	16,236.00	7,569.74	23.97	158.98	-158.40	1,787.82	2,065.23	4,402.70	4,319.46	83.24	52.892		
4,000.00	3,726.38	16,236.00	7,569.74	24.95	158.98	-158.40	1,787.82	2,065.23	4,304.05	4,220.89	83.16	51.757		
4,100.00	3,812.65	16,236.00	7,569.74	25.93	158.98	-158.40	1,787.82	2,065.23	4,205.45	4,122.38	83.08	50.622		
4,200.00	3,898.91	16,236.00	7,569.74	26.91	158.98	-158.40	1,787.82	2,065.23	4,106.93	4,023.94	82.99	49.485		
4,300.00	3,985.18	16,236.00	7,569.74	27.90	158.98	-158.40	1,787.82	2,065.23	4,008.48	3,925.57	82.91	48.348		
4,400.00	4,071.44	16,236.00	7,569.74	28.88	158.98	-158.40	1,787.82	2,065.23	3,910.11	3,827.29	82.82	47.211		
4,500.00	4,157.70	16,236.00	7,569.74	29.87	158.98	-158.40	1,787.82	2,065.23	3,811.82	3,729.09	82.73	46.073		
4,600.00	4,243.97	16,236.00	7,569.74	30.86	158.98	-158.40	1,787.82	2,065.23	3,713.63	3,630.98	82.65	44.934		
4,700.00	4,330.23	16,236.00	7,569.74	31.85	158.98	-158.40	1,787.82	2,065.23	3,615.53	3,532.97	82.56	43.795		
4,800.00	4,416.49	16,236.00	7,569.74	32.84	158.98	-158.40	1,787.82	2,065.23	3,517.54	3,435.07	82.47	42.655		
4,900.00	4,502.76	16,236.00	7,569.74	33.84	158.98	-158.40	1,787.82	2,065.23	3,419.67	3,337.29	82.37	41.514		
5,000.00	4,589.02	16,236.00	7,569.74	34.83	158.98	-158.40	1,787.82	2,065.23	3,321.92	3,239.64	82.28	40.372		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	16,236.00	7,569.74	35.82	158.98	-158.40	1,787.82	2,065.23	3,224.31	3,142.12	82.19	39.228		
5,200.00	4,761.55	16,236.00	7,569.74	36.82	158.98	-158.40	1,787.82	2,065.23	3,126.85	3,044.75	82.11	38.083		
5,300.00	4,847.81	16,236.00	7,569.74	37.82	158.98	-158.40	1,787.82	2,065.23	3,029.56	2,947.54	82.02	36.936		
5,400.00	4,934.08	16,236.00	7,569.74	38.81	158.98	-158.40	1,787.82	2,065.23	2,932.45	2,850.51	81.94	35.787		
5,500.00	5,020.34	16,236.00	7,569.74	39.81	158.98	-158.40	1,787.82	2,065.23	2,835.55	2,753.68	81.87	34.635		
5,600.00	5,106.60	16,236.00	7,569.74	40.81	158.98	-158.40	1,787.82	2,065.23	2,738.86	2,657.05	81.81	33.480		
5,700.00	5,192.87	16,236.00	7,569.74	41.81	158.98	-158.40	1,787.82	2,065.23	2,642.42	2,560.66	81.76	32.320		
5,800.00	5,279.13	16,236.00	7,569.74	42.81	158.98	-158.40	1,787.82	2,065.23	2,546.26	2,464.53	81.73	31.156		
5,900.00	5,365.40	16,236.00	7,569.74	43.81	158.98	-158.40	1,787.82	2,065.23	2,450.40	2,368.68	81.72	29.986		
6,000.00	5,451.66	16,236.00	7,569.74	44.81	158.98	-158.40	1,787.82	2,065.23	2,354.88	2,273.14	81.74	28.809		
6,100.00	5,537.92	16,236.00	7,569.74	45.81	158.98	-158.40	1,787.82	2,065.23	2,259.76	2,177.95	81.81	27.623		
6,200.00	5,624.19	16,236.00	7,569.74	46.81	158.98	-158.40	1,787.82	2,065.23	2,165.07	2,083.15	81.92	26.428		
6,300.00	5,710.45	16,236.00	7,569.74	47.81	158.98	-158.40	1,787.82	2,065.23	2,070.89	1,988.78	82.11	25.221		
6,400.00	5,796.72	16,236.00	7,569.74	48.81	158.98	-158.40	1,787.82	2,065.23	1,977.27	1,894.89	82.38	24.001		
6,500.00	5,882.98	16,236.00	7,569.74	49.81	158.98	-158.40	1,787.82	2,065.23	1,884.32	1,801.54	82.77	22.765		
6,600.00	5,969.24	16,236.00	7,569.74	50.82	158.98	-158.40	1,787.82	2,065.23	1,792.12	1,708.81	83.31	21.511		
6,700.00	6,055.51	16,236.00	7,569.74	51.82	158.98	-158.40	1,787.82	2,065.23	1,700.80	1,616.76	84.04	20.238		
6,800.00	6,141.77	16,236.00	7,569.74	52.82	158.98	-158.40	1,787.82	2,065.23	1,610.51	1,525.49	85.02	18.943		
6,900.00	6,228.03	16,236.00	7,569.74	53.83	158.98	-158.40	1,787.82	2,065.23	1,521.44	1,435.12	86.32	17.626		
7,000.00	6,314.30	16,236.00	7,569.74	54.83	158.98	-158.40	1,787.82	2,065.23	1,433.81	1,345.78	88.03	16.288		
7,100.00	6,400.56	16,236.00	7,569.74	55.83	158.98	-158.40	1,787.82	2,065.23	1,347.91	1,257.64	90.27	14.932		
7,200.00	6,486.83	16,236.00	7,569.74	56.84	158.98	-158.40	1,787.82	2,065.23	1,264.07	1,170.90	93.17	13.567		
7,300.00	6,573.09	16,236.00	7,569.74	57.84	158.98	-158.40	1,787.82	2,065.23	1,182.76	1,085.85	96.91	12.204		
7,400.00	6,659.35	16,236.00	7,569.74	58.84	158.98	-158.40	1,787.82	2,065.23	1,104.51	1,002.84	101.67	10.864		
7,500.00	6,745.62	16,236.00	7,569.74	59.85	158.98	-158.40	1,787.82	2,065.23	1,030.04	922.41	107.63	9.570		
7,600.00	6,831.88	16,236.00	7,569.74	60.85	158.98	-158.40	1,787.82	2,065.23	960.22	845.25	114.96	8.352		
7,700.00	6,918.14	16,236.00	7,569.74	61.86	158.98	-158.40	1,787.82	2,065.23	896.13	772.38	123.75	7.241		
7,800.00	7,004.41	16,236.00	7,569.74	62.86	158.98	-158.40	1,787.82	2,065.23	839.10	705.16	133.94	6.265		
7,900.00	7,090.67	16,215.01	7,569.85	63.87	158.61	-156.81	1,808.80	2,065.61	790.36	644.81	145.55	5.430		
8,000.00	7,176.94	16,184.73	7,570.01	64.87	158.09	-154.49	1,839.08	2,066.15	750.67	592.50	158.16	4.746		
8,027.52	7,200.68	16,175.91	7,570.05	65.15	157.93	-153.81	1,847.90	2,066.31	741.52	579.81	161.71	4.586		
8,050.00	7,220.18	16,169.17	7,570.08	65.37	157.82	-155.96	1,854.64	2,066.43	734.62	570.00	164.61	4.463		
8,100.00	7,264.25	16,157.46	7,570.13	65.85	157.61	-162.15	1,866.34	2,066.64	721.17	550.07	171.11	4.215		
8,150.00	7,308.99	16,150.31	7,570.15	66.28	157.49	-170.18	1,873.49	2,066.77	710.73	533.26	177.47	4.005		
8,200.00	7,354.07	16,147.72	7,570.16	66.67	157.45	-179.62	1,876.09	2,066.81	703.63	520.14	183.48	3.835		
8,250.00	7,399.14	16,149.65	7,570.15	67.02	157.48	170.24	1,874.15	2,066.78	700.07	511.12	188.95	3.705		
8,274.33	7,420.96	16,152.21	7,570.14	67.16	157.52	165.26	1,871.59	2,066.73	699.65	508.29	191.36	3.656 CC		
8,300.00	7,443.85	16,156.05	7,570.13	67.32	157.59	160.09	1,867.75	2,066.66	700.12	506.40	193.72	3.614		
8,350.00	7,487.88	16,166.81	7,570.09	67.56	157.78	150.43	1,856.99	2,066.47	703.64	505.95	197.68	3.559 ES		
8,400.00	7,530.87	16,181.81	7,570.02	67.75	158.04	141.46	1,842.00	2,066.20	710.36	509.55	200.81	3.537 SF		
8,450.00	7,572.51	16,200.52	7,569.93	67.90	158.36	133.21	1,823.29	2,065.87	719.91	516.76	203.15	3.544		
8,500.00	7,612.48	16,223.22	7,569.81	68.00	158.76	125.58	1,800.60	2,065.46	731.78	527.02	204.76	3.574		
8,550.00	7,650.47	16,236.00	7,569.74	68.05	158.98	119.41	1,787.82	2,065.23	745.55	539.39	206.16	3.616		
8,600.00	7,686.20	16,236.00	7,569.74	68.06	158.98	114.61	1,787.82	2,065.23	761.53	554.17	207.37	3.672		
8,650.00	7,719.39	16,236.00	7,569.74	68.03	158.98	110.16	1,787.82	2,065.23	779.57	571.56	208.01	3.748		
8,700.00	7,749.79	16,236.00	7,569.74	67.97	158.98	105.99	1,787.82	2,065.23	799.38	591.25	208.14	3.841		
8,750.00	7,777.17	16,236.00	7,569.74	67.87	158.98	102.05	1,787.82	2,065.23	820.71	612.89	207.82	3.949		
8,800.00	7,801.32	16,236.00	7,569.74	67.74	158.98	98.30	1,787.82	2,065.23	843.27	636.17	207.11	4.072		
8,850.00	7,822.06	16,236.00	7,569.74	67.59	158.98	94.75	1,787.82	2,065.23	866.82	660.76	206.05	4.207		
8,900.00	7,839.23	16,236.00	7,569.74	67.41	158.98	91.38	1,787.82	2,065.23	891.09	686.39	204.70	4.353		
8,950.00	7,852.69	16,236.00	7,569.74	67.22	158.98	88.20	1,787.82	2,065.23	915.85	712.76	203.09	4.510		
9,000.00	7,862.35	16,236.00	7,569.74	67.00	158.98	85.25	1,787.82	2,065.23	940.89	739.63	201.26	4.675		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	16,236.00	7,569.74	66.78	158.98	82.53	1,787.82	2,065.23	965.99	766.77	199.23	4.849		
9,098.65	7,870.00	16,236.00	7,569.74	66.55	158.98	80.13	1,787.82	2,065.23	990.31	793.22	197.08	5.025		
9,100.00	7,870.00	16,236.00	7,569.74	66.55	158.98	80.13	1,787.82	2,065.23	990.98	793.96	197.02	5.030		
9,200.00	7,870.00	16,236.00	7,569.74	66.09	158.98	80.13	1,787.82	2,065.23	1,044.43	852.32	192.11	5.437		
9,300.00	7,870.00	16,236.00	7,569.74	65.65	158.98	80.13	1,787.82	2,065.23	1,104.37	917.62	186.76	5.913		
9,400.00	7,870.00	16,236.00	7,569.74	65.24	158.98	80.13	1,787.82	2,065.23	1,169.80	988.57	181.24	6.454		
9,500.00	7,870.00	16,236.00	7,569.74	64.85	158.98	80.13	1,787.82	2,065.23	1,239.86	1,064.09	175.77	7.054		
9,600.00	7,870.00	16,236.00	7,569.74	64.48	158.98	80.13	1,787.82	2,065.23	1,313.79	1,143.32	170.47	7.707		
9,700.00	7,870.00	16,236.00	7,569.74	64.13	158.98	80.13	1,787.82	2,065.23	1,390.99	1,225.55	165.44	8.408		
9,800.00	7,870.00	16,236.00	7,569.74	63.80	158.98	80.13	1,787.82	2,065.23	1,470.93	1,310.24	160.70	9.153		
9,900.00	7,870.00	16,236.00	7,569.74	63.50	158.98	80.13	1,787.82	2,065.23	1,553.21	1,396.93	156.27	9.939		
10,000.00	7,870.00	16,236.00	7,569.74	63.22	158.98	80.13	1,787.82	2,065.23	1,637.45	1,485.29	152.17	10.761		
10,100.00	7,870.00	16,236.00	7,569.74	62.96	158.98	80.13	1,787.82	2,065.23	1,723.38	1,575.02	148.36	11.616		
10,200.00	7,870.00	16,236.00	7,569.74	62.72	158.98	80.13	1,787.82	2,065.23	1,810.76	1,665.91	144.84	12.501		
10,300.00	7,870.00	16,236.00	7,569.74	62.50	158.98	80.13	1,787.82	2,065.23	1,899.38	1,757.79	141.60	13.414		
10,400.00	7,870.00	16,236.00	7,569.74	62.31	158.98	80.13	1,787.82	2,065.23	1,989.08	1,850.49	138.59	14.352		
10,500.00	7,870.00	16,236.00	7,569.74	62.15	158.98	80.13	1,787.82	2,065.23	2,079.72	1,943.90	135.82	15.312		
10,600.00	7,870.00	16,236.00	7,569.74	62.01	158.98	80.13	1,787.82	2,065.23	2,171.19	2,037.93	133.26	16.293		
10,700.00	7,870.00	16,236.00	7,569.74	61.90	158.98	80.13	1,787.82	2,065.23	2,263.37	2,132.49	130.88	17.293		
10,800.00	7,870.00	16,236.00	7,569.74	61.82	158.98	80.13	1,787.82	2,065.23	2,356.20	2,227.51	128.68	18.310		
10,900.00	7,870.00	16,236.00	7,569.74	61.78	158.98	80.13	1,787.82	2,065.23	2,449.58	2,322.94	126.64	19.343		
11,000.00	7,870.00	16,236.00	7,569.74	61.77	158.98	80.13	1,787.82	2,065.23	2,543.47	2,418.73	124.74	20.390		
11,100.00	7,870.00	16,236.00	7,569.74	61.81	158.98	80.13	1,787.82	2,065.23	2,637.81	2,514.84	122.98	21.450		
11,200.00	7,870.00	16,236.00	7,569.74	61.90	158.98	80.13	1,787.82	2,065.23	2,732.56	2,611.22	121.33	22.521		
11,300.00	7,870.00	16,236.00	7,569.74	62.03	158.98	80.13	1,787.82	2,065.23	2,827.66	2,707.86	119.80	23.603		
11,400.00	7,870.00	16,236.00	7,569.74	62.23	158.98	80.13	1,787.82	2,065.23	2,923.09	2,804.73	118.37	24.695		
11,500.00	7,870.00	16,236.00	7,569.74	62.50	158.98	80.13	1,787.82	2,065.23	3,018.82	2,901.79	117.03	25.796		
11,600.00	7,870.00	16,236.00	7,569.74	62.84	158.98	80.13	1,787.82	2,065.23	3,114.81	2,999.04	115.77	26.905		
11,700.00	7,870.00	16,236.00	7,569.74	63.25	158.98	80.13	1,787.82	2,065.23	3,211.05	3,096.46	114.59	28.021		
11,800.00	7,870.00	16,236.00	7,569.74	63.76	158.98	80.13	1,787.82	2,065.23	3,307.52	3,194.03	113.49	29.144		
11,900.00	7,870.00	16,236.00	7,569.74	64.34	158.98	80.13	1,787.82	2,065.23	3,404.18	3,291.74	112.45	30.273		
12,000.00	7,870.00	16,236.00	7,569.74	65.01	158.98	80.13	1,787.82	2,065.23	3,501.04	3,389.57	111.47	31.408		
12,100.00	7,870.00	16,236.00	7,569.74	65.77	158.98	80.13	1,787.82	2,065.23	3,598.06	3,487.52	110.55	32.547		
12,200.00	7,870.00	16,236.00	7,569.74	66.61	158.98	80.13	1,787.82	2,065.23	3,695.25	3,585.57	109.68	33.691		
12,300.00	7,870.00	16,236.00	7,569.74	67.51	158.98	80.13	1,787.82	2,065.23	3,792.58	3,683.72	108.86	34.839		
12,400.00	7,870.00	16,236.00	7,569.74	68.49	158.98	80.13	1,787.82	2,065.23	3,890.05	3,781.96	108.08	35.991		
12,500.00	7,870.00	16,236.00	7,569.74	69.52	158.98	80.13	1,787.82	2,065.23	3,987.64	3,880.29	107.35	37.146		
12,600.00	7,870.00	16,236.00	7,569.74	70.61	158.98	80.13	1,787.82	2,065.23	4,085.35	3,978.69	106.66	38.304		
12,700.00	7,870.00	16,236.00	7,569.74	71.75	158.98	80.13	1,787.82	2,065.23	4,183.17	4,077.17	106.00	39.464		
12,800.00	7,870.00	16,236.00	7,569.74	72.93	158.98	80.13	1,787.82	2,065.23	4,281.08	4,175.71	105.37	40.627		
12,900.00	7,870.00	16,236.00	7,569.74	74.14	158.98	80.13	1,787.82	2,065.23	4,379.10	4,274.31	104.78	41.793		
13,000.00	7,870.00	16,236.00	7,569.74	75.39	158.98	80.13	1,787.82	2,065.23	4,477.20	4,372.98	104.22	42.960		
13,100.00	7,870.00	16,236.00	7,569.74	76.67	158.98	80.13	1,787.82	2,065.23	4,575.38	4,471.69	103.68	44.128		
13,200.00	7,870.00	16,236.00	7,569.74	77.98	158.98	80.13	1,787.82	2,065.23	4,673.64	4,570.46	103.17	45.298		
13,300.00	7,870.00	16,236.00	7,569.74	79.31	158.98	80.13	1,787.82	2,065.23	4,771.97	4,669.28	102.69	46.470		
13,400.00	7,870.00	16,236.00	7,569.74	80.67	158.98	80.13	1,787.82	2,065.23	4,870.37	4,768.14	102.23	47.642		
13,500.00	7,870.00	16,236.00	7,569.74	82.04	158.98	80.13	1,787.82	2,065.23	4,968.83	4,867.04	101.79	48.815		
13,600.00	7,870.00	16,236.00	7,569.74	83.43	158.98	80.13	1,787.82	2,065.23	5,067.35	4,965.99	101.37	49.989		
13,700.00	7,870.00	16,236.00	7,569.74	84.84	158.98	80.13	1,787.82	2,065.23	5,165.93	5,064.97	100.97	51.164		
13,800.00	7,870.00	16,236.00	7,569.74	86.27	158.98	80.13	1,787.82	2,065.23	5,264.57	5,163.98	100.59	52.339		
13,900.00	7,870.00	16,236.00	7,569.74	87.71	158.98	80.13	1,787.82	2,065.23	5,363.25	5,263.03	100.22	53.514		
14,000.00	7,870.00	16,236.00	7,569.74	89.16	158.98	80.13	1,787.82	2,065.23	5,461.99	5,362.11	99.87	54.690		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	16,236.00	7,569.74	90.63	158.98	80.13	1,787.82	2,065.23	5,560.76	5,461.23	99.54	55.866		
14,200.00	7,870.00	16,236.00	7,569.74	92.10	158.98	80.13	1,787.82	2,065.23	5,559.58	5,560.37	99.22	57.042		
14,300.00	7,870.00	16,236.00	7,569.74	93.59	158.98	80.13	1,787.82	2,065.23	5,558.44	5,659.53	98.91	58.218		
14,400.00	7,870.00	16,236.00	7,569.74	95.09	158.98	80.13	1,787.82	2,065.23	5,857.34	5,758.73	98.62	59.393		
14,500.00	7,870.00	16,236.00	7,569.74	96.60	158.98	80.13	1,787.82	2,065.23	5,956.28	5,857.94	98.34	60.569		
14,600.00	7,870.00	16,236.00	7,569.74	98.11	158.98	80.13	1,787.82	2,065.23	6,055.25	5,957.18	98.07	61.744		
14,700.00	7,870.00	16,236.00	7,569.74	99.64	158.98	80.13	1,787.82	2,065.23	6,154.26	6,056.44	97.81	62.918		
14,800.00	7,870.00	16,236.00	7,569.74	101.17	158.98	80.13	1,787.82	2,065.23	6,253.29	6,155.73	97.57	64.093		
14,900.00	7,870.00	16,236.00	7,569.74	102.71	158.98	80.13	1,787.82	2,065.23	6,352.36	6,255.03	97.33	65.266		
15,000.00	7,870.00	16,236.00	7,569.74	104.26	158.98	80.13	1,787.82	2,065.23	6,451.46	6,354.35	97.10	66.439		
15,100.00	7,870.00	16,236.00	7,569.74	105.82	158.98	80.13	1,787.82	2,065.23	6,550.58	6,453.69	96.88	67.612		
15,200.00	7,870.00	16,236.00	7,569.74	107.38	158.98	80.13	1,787.82	2,065.23	6,649.73	6,553.05	96.68	68.784		
15,300.00	7,870.00	16,236.00	7,569.74	108.95	158.98	80.13	1,787.82	2,065.23	6,748.90	6,652.43	96.48	69.955		
15,400.00	7,870.00	16,236.00	7,569.74	110.52	158.98	80.13	1,787.82	2,065.23	6,848.10	6,751.82	96.28	71.125		
15,500.00	7,870.00	16,236.00	7,569.74	112.10	158.98	80.13	1,787.82	2,065.23	6,947.32	6,851.23	96.10	72.294		
15,600.00	7,870.00	16,236.00	7,569.74	113.69	158.98	80.13	1,787.82	2,065.23	7,046.57	6,950.65	95.92	73.463		
15,700.00	7,870.00	16,236.00	7,569.74	115.28	158.98	80.13	1,787.82	2,065.23	7,145.83	7,050.08	95.75	74.631		
15,800.00	7,870.00	16,236.00	7,569.74	116.87	158.98	80.13	1,787.82	2,065.23	7,245.12	7,149.53	95.59	75.797		
15,900.00	7,870.00	16,236.00	7,569.74	118.47	158.98	80.13	1,787.82	2,065.23	7,344.42	7,248.99	95.43	76.963		
16,000.00	7,870.00	16,236.00	7,569.74	120.07	158.98	80.13	1,787.82	2,065.23	7,443.74	7,348.47	95.28	78.127		
16,100.00	7,870.00	16,236.00	7,569.74	121.68	158.98	80.13	1,787.82	2,065.23	7,543.08	7,447.95	95.13	79.291		
16,200.00	7,870.00	16,236.00	7,569.74	123.30	158.98	80.13	1,787.82	2,065.23	7,642.44	7,547.45	94.99	80.453		
16,300.00	7,870.00	16,236.00	7,569.74	124.91	158.98	80.13	1,787.82	2,065.23	7,741.82	7,646.96	94.86	81.615		
16,400.00	7,870.00	16,236.00	7,569.74	126.53	158.98	80.13	1,787.82	2,065.23	7,841.21	7,746.48	94.73	82.775		
16,500.00	7,870.00	16,236.00	7,569.74	128.16	158.98	80.13	1,787.82	2,065.23	7,940.61	7,846.01	94.61	83.933		
16,600.00	7,870.00	16,236.00	7,569.74	129.79	158.98	80.13	1,787.82	2,065.23	8,040.03	7,945.54	94.49	85.091		
16,700.00	7,870.00	16,236.00	7,569.74	131.42	158.98	80.13	1,787.82	2,065.23	8,139.47	8,045.09	94.37	86.248		
16,800.00	7,870.00	16,236.00	7,569.74	133.05	158.98	80.13	1,787.82	2,065.23	8,238.91	8,144.65	94.26	87.403		
16,900.00	7,870.00	16,236.00	7,569.74	134.69	158.98	80.13	1,787.82	2,065.23	8,338.38	8,244.22	94.16	88.556		
17,000.00	7,870.00	16,236.00	7,569.74	136.33	158.98	80.13	1,787.82	2,065.23	8,437.85	8,343.79	94.06	89.709		
17,100.00	7,870.00	16,236.00	7,569.74	137.97	158.98	80.13	1,787.82	2,065.23	8,537.34	8,443.38	93.96	90.860		
17,200.00	7,870.00	16,236.00	7,569.74	139.62	158.98	80.13	1,787.82	2,065.23	8,636.83	8,542.97	93.87	92.010		
17,300.00	7,870.00	16,236.00	7,569.74	141.27	158.98	80.13	1,787.82	2,065.23	8,736.34	8,642.56	93.78	93.158		
17,400.00	7,870.00	16,236.00	7,569.74	142.92	158.98	80.13	1,787.82	2,065.23	8,835.87	8,742.17	93.69	94.305		
17,500.00	7,870.00	16,236.00	7,569.74	144.58	158.98	80.13	1,787.82	2,065.23	8,935.40	8,841.78	93.61	95.450		
17,600.00	7,870.00	16,236.00	7,569.74	146.23	158.98	80.13	1,787.82	2,065.23	9,034.94	8,941.40	93.53	96.594		
17,700.00	7,870.00	16,236.00	7,569.74	147.89	158.98	80.13	1,787.82	2,065.23	9,134.49	9,041.03	93.46	97.737		
17,800.00	7,870.00	16,236.00	7,569.74	149.56	158.98	80.13	1,787.82	2,065.23	9,234.05	9,140.66	93.39	98.878		
17,900.00	7,870.00	16,236.00	7,569.74	151.22	158.98	80.13	1,787.82	2,065.23	9,333.62	9,240.30	93.32	100.017		
18,000.00	7,870.00	16,236.00	7,569.74	152.89	158.98	80.13	1,787.82	2,065.23	9,433.20	9,339.95	93.25	101.155		
18,100.00	7,870.00	16,236.00	7,569.74	154.55	158.98	80.13	1,787.82	2,065.23	9,532.79	9,439.60	93.19	102.291		
18,200.00	7,870.00	16,236.00	7,569.74	156.22	158.98	80.13	1,787.82	2,065.23	9,632.39	9,539.26	93.13	103.426		
18,300.00	7,870.00	16,236.00	7,569.74	157.90	158.98	80.13	1,787.82	2,065.23	9,731.99	9,638.92	93.08	104.559		
18,400.00	7,870.00	16,236.00	7,569.74	159.57	158.98	80.13	1,787.82	2,065.23	9,831.61	9,738.59	93.02	105.691		
18,500.00	7,870.00	16,236.00	7,569.74	161.25	158.98	80.13	1,787.82	2,065.23	9,931.23	9,838.26	92.97	106.821		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	38.95	1,782.14	1,440.71	8,160.01					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	38.95	1,782.14	1,440.71	8,064.09	7,985.15	78.93	102.162		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	38.95	1,782.14	1,440.71	7,968.26	7,889.26	79.00	100.860		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	38.95	1,782.14	1,440.71	7,872.54	7,793.45	79.08	99.547		
400.00	400.00	16,659.00	7,678.61	1.21	161.70	38.95	1,782.14	1,440.71	7,776.92	7,697.75	79.18	98.223		
500.00	500.00	16,659.00	7,678.61	1.57	161.70	38.95	1,782.14	1,440.71	7,681.42	7,602.14	79.28	96.889		
600.00	600.00	16,659.00	7,678.61	1.93	161.70	38.95	1,782.14	1,440.71	7,586.03	7,506.63	79.40	95.545		
700.00	700.00	16,659.00	7,678.61	2.29	161.70	38.95	1,782.14	1,440.71	7,490.76	7,411.24	79.53	94.192		
800.00	800.00	16,659.00	7,678.61	2.64	161.70	38.95	1,782.14	1,440.71	7,395.62	7,315.96	79.67	92.831		
900.00	900.00	16,659.00	7,678.61	3.00	161.70	38.95	1,782.14	1,440.71	7,300.61	7,220.79	79.82	91.463		
1,000.00	1,000.00	16,659.00	7,678.61	3.36	161.70	38.95	1,782.14	1,440.71	7,205.73	7,125.75	79.98	90.089		
1,100.00	1,099.98	16,659.00	7,678.61	3.72	161.70	-17.45	1,782.14	1,440.71	7,110.47	7,030.32	80.16	88.705		
1,200.00	1,199.84	16,659.00	7,678.61	4.07	161.70	-19.67	1,782.14	1,440.71	7,014.37	6,934.04	80.33	87.320		
1,300.00	1,299.45	16,659.00	7,678.61	4.43	161.70	-22.48	1,782.14	1,440.71	6,917.50	6,837.01	80.49	85.947		
1,400.00	1,398.70	16,659.00	7,678.61	4.80	161.70	-26.12	1,782.14	1,440.71	6,819.95	6,739.33	80.62	84.590		
1,500.00	1,497.47	16,659.00	7,678.61	5.18	161.70	-31.00	1,782.14	1,440.71	6,721.82	6,641.08	80.74	83.250		
1,600.00	1,595.62	16,659.00	7,678.61	5.57	161.70	-37.71	1,782.14	1,440.71	6,623.21	6,542.37	80.84	81.928		
1,700.00	1,693.06	16,659.00	7,678.61	6.00	161.70	-47.19	1,782.14	1,440.71	6,524.21	6,443.29	80.92	80.627		
1,800.00	1,789.64	16,659.00	7,678.61	6.45	161.70	-60.59	1,782.14	1,440.71	6,424.92	6,343.95	80.97	79.346		
1,900.00	1,885.27	16,659.00	7,678.61	6.94	161.70	-78.35	1,782.14	1,440.71	6,325.47	6,244.47	81.00	78.088		
2,000.00	1,979.82	16,659.00	7,678.61	7.47	161.70	-98.31	1,782.14	1,440.71	6,225.96	6,144.95	81.01	76.852		
2,100.00	2,073.17	16,659.00	7,678.61	8.05	161.70	-116.21	1,782.14	1,440.71	6,126.52	6,045.53	81.00	75.640		
2,200.00	2,165.21	16,659.00	7,678.61	8.67	161.70	-129.78	1,782.14	1,440.71	6,027.28	5,946.32	80.96	74.451		
2,300.00	2,255.84	16,659.00	7,678.61	9.35	161.70	-139.38	1,782.14	1,440.71	5,928.36	5,847.47	80.89	73.285		
2,400.00	2,344.94	16,659.00	7,678.61	10.09	161.70	-146.18	1,782.14	1,440.71	5,829.91	5,749.10	80.81	72.143		
2,500.00	2,432.39	16,659.00	7,678.61	10.89	161.70	-151.10	1,782.14	1,440.71	5,732.08	5,651.37	80.71	71.022		
2,519.29	2,449.07	16,659.00	7,678.61	11.05	161.70	-151.89	1,782.14	1,440.71	5,713.29	5,632.61	80.68	70.811		
2,600.00	2,518.69	16,659.00	7,678.61	11.74	161.70	-151.89	1,782.14	1,440.71	5,634.78	5,554.18	80.60	69.910		
2,700.00	2,604.95	16,659.00	7,678.61	12.62	161.70	-151.89	1,782.14	1,440.71	5,537.58	5,457.08	80.50	68.787		
2,800.00	2,691.22	16,659.00	7,678.61	13.52	161.70	-151.89	1,782.14	1,440.71	5,440.49	5,360.07	80.42	67.655		
2,900.00	2,777.48	16,659.00	7,678.61	14.43	161.70	-151.89	1,782.14	1,440.71	5,343.50	5,263.17	80.33	66.516		
3,000.00	2,863.75	16,659.00	7,678.61	15.35	161.70	-151.89	1,782.14	1,440.71	5,246.63	5,166.37	80.26	65.369		
3,100.00	2,950.01	16,659.00	7,678.61	16.28	161.70	-151.89	1,782.14	1,440.71	5,149.87	5,069.68	80.20	64.215		
3,200.00	3,036.27	16,659.00	7,678.61	17.22	161.70	-151.89	1,782.14	1,440.71	5,053.25	4,973.10	80.14	63.053		
3,300.00	3,122.54	16,659.00	7,678.61	18.17	161.70	-151.89	1,782.14	1,440.71	4,956.75	4,876.66	80.10	61.885		
3,400.00	3,208.80	16,659.00	7,678.61	19.13	161.70	-151.89	1,782.14	1,440.71	4,860.40	4,780.34	80.06	60.709		
3,500.00	3,295.07	16,659.00	7,678.61	20.09	161.70	-151.89	1,782.14	1,440.71	4,764.20	4,684.16	80.04	59.526		
3,600.00	3,381.33	16,659.00	7,678.61	21.05	161.70	-151.89	1,782.14	1,440.71	4,668.16	4,588.13	80.02	58.337		
3,700.00	3,467.59	16,659.00	7,678.61	22.02	161.70	-151.89	1,782.14	1,440.71	4,572.28	4,492.26	80.02	57.140		
3,800.00	3,553.86	16,659.00	7,678.61	22.99	161.70	-151.89	1,782.14	1,440.71	4,476.59	4,396.56	80.03	55.936		
3,900.00	3,640.12	16,659.00	7,678.61	23.97	161.70	-151.89	1,782.14	1,440.71	4,381.09	4,301.04	80.06	54.725		
4,000.00	3,726.38	16,659.00	7,678.61	24.95	161.70	-151.89	1,782.14	1,440.71	4,285.80	4,205.70	80.10	53.507		
4,100.00	3,812.65	16,659.00	7,678.61	25.93	161.70	-151.89	1,782.14	1,440.71	4,190.72	4,110.57	80.16	52.282		
4,200.00	3,898.91	16,659.00	7,678.61	26.91	161.70	-151.89	1,782.14	1,440.71	4,095.88	4,015.65	80.24	51.048		
4,300.00	3,985.18	16,659.00	7,678.61	27.90	161.70	-151.89	1,782.14	1,440.71	4,001.29	3,920.96	80.34	49.807		
4,400.00	4,071.44	16,659.00	7,678.61	28.88	161.70	-151.89	1,782.14	1,440.71	3,906.97	3,826.51	80.46	48.557		
4,500.00	4,157.70	16,659.00	7,678.61	29.87	161.70	-151.89	1,782.14	1,440.71	3,812.94	3,732.33	80.61	47.299		
4,600.00	4,243.97	16,659.00	7,678.61	30.86	161.70	-151.89	1,782.14	1,440.71	3,719.22	3,638.43	80.80	46.032		
4,700.00	4,330.23	16,659.00	7,678.61	31.85	161.70	-151.89	1,782.14	1,440.71	3,625.84	3,544.83	81.02	44.755		
4,800.00	4,416.49	16,659.00	7,678.61	32.84	161.70	-151.89	1,782.14	1,440.71	3,532.82	3,451.55	81.27	43.468		
4,900.00	4,502.76	16,659.00	7,678.61	33.84	161.70	-151.89	1,782.14	1,440.71	3,440.19	3,358.61	81.58	42.171		
5,000.00	4,589.02	16,659.00	7,678.61	34.83	161.70	-151.89	1,782.14	1,440.71	3,347.99	3,266.06	81.93	40.864		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	16,659.00	7,678.61	35.82	161.70	-151.89	1,782.14	1,440.71	3,256.24	3,173.90	82.34	39.544		
5,200.00	4,761.55	16,659.00	7,678.61	36.82	161.70	-151.89	1,782.14	1,440.71	3,165.00	3,082.17	82.82	38.214		
5,300.00	4,847.81	16,659.00	7,678.61	37.82	161.70	-151.89	1,782.14	1,440.71	3,074.30	2,990.92	83.38	36.871		
5,400.00	4,934.08	16,659.00	7,678.61	38.81	161.70	-151.89	1,782.14	1,440.71	2,984.19	2,900.17	84.02	35.517		
5,500.00	5,020.34	16,659.00	7,678.61	39.81	161.70	-151.89	1,782.14	1,440.71	2,894.73	2,809.97	84.76	34.150		
5,600.00	5,106.60	16,659.00	7,678.61	40.81	161.70	-151.89	1,782.14	1,440.71	2,805.99	2,720.37	85.62	32.772		
5,700.00	5,192.87	16,659.00	7,678.61	41.81	161.70	-151.89	1,782.14	1,440.71	2,718.03	2,631.42	86.61	31.384		
5,800.00	5,279.13	16,659.00	7,678.61	42.81	161.70	-151.89	1,782.14	1,440.71	2,630.93	2,543.19	87.74	29.985		
5,900.00	5,365.40	16,659.00	7,678.61	43.81	161.70	-151.89	1,782.14	1,440.71	2,544.77	2,455.73	89.04	28.579		
6,000.00	5,451.66	16,659.00	7,678.61	44.81	161.70	-151.89	1,782.14	1,440.71	2,459.67	2,369.13	90.54	27.168		
6,100.00	5,537.92	16,659.00	7,678.61	45.81	161.70	-151.89	1,782.14	1,440.71	2,375.72	2,283.48	92.25	25.754		
6,200.00	5,624.19	16,659.00	7,678.61	46.81	161.70	-151.89	1,782.14	1,440.71	2,293.07	2,198.87	94.20	24.342		
6,300.00	5,710.45	16,659.00	7,678.61	47.81	161.70	-151.89	1,782.14	1,440.71	2,211.84	2,115.41	96.43	22.937		
6,400.00	5,796.72	16,659.00	7,678.61	48.81	161.70	-151.89	1,782.14	1,440.71	2,132.22	2,033.25	98.96	21.545		
6,500.00	5,882.98	16,659.00	7,678.61	49.81	161.70	-151.89	1,782.14	1,440.71	2,054.37	1,952.54	101.84	20.173		
6,600.00	5,969.24	16,659.00	7,678.61	50.82	161.70	-151.89	1,782.14	1,440.71	1,978.52	1,873.44	105.08	18.829		
6,700.00	6,055.51	16,659.00	7,678.61	51.82	161.70	-151.89	1,782.14	1,440.71	1,904.90	1,796.18	108.72	17.521		
6,800.00	6,141.77	16,659.00	7,678.61	52.82	161.70	-151.89	1,782.14	1,440.71	1,833.77	1,720.99	112.79	16.259		
6,900.00	6,228.03	16,659.00	7,678.61	53.83	161.70	-151.89	1,782.14	1,440.71	1,765.45	1,648.15	117.30	15.051		
7,000.00	6,314.30	16,659.00	7,678.61	54.83	161.70	-151.89	1,782.14	1,440.71	1,700.27	1,578.00	122.27	13.905		
7,100.00	6,400.56	16,659.00	7,678.61	55.83	161.70	-151.89	1,782.14	1,440.71	1,638.60	1,510.90	127.70	12.832		
7,200.00	6,486.83	16,659.00	7,678.61	56.84	161.70	-151.89	1,782.14	1,440.71	1,580.86	1,447.29	133.56	11.836		
7,300.00	6,573.09	16,659.00	7,678.61	57.84	161.70	-151.89	1,782.14	1,440.71	1,527.48	1,387.67	139.82	10.925		
7,400.00	6,659.35	16,659.00	7,678.61	58.84	161.70	-151.89	1,782.14	1,440.71	1,478.95	1,332.56	146.39	10.103		
7,500.00	6,745.62	16,659.00	7,678.61	59.85	161.70	-151.89	1,782.14	1,440.71	1,435.75	1,282.56	153.19	9.372		
7,600.00	6,831.88	16,659.00	7,678.61	60.85	161.70	-151.89	1,782.14	1,440.71	1,398.39	1,238.30	160.09	8.735		
7,700.00	6,918.14	16,659.00	7,678.61	61.86	161.70	-151.89	1,782.14	1,440.71	1,367.33	1,200.40	166.92	8.191		
7,800.00	7,004.41	16,659.00	7,678.61	62.86	161.70	-151.89	1,782.14	1,440.71	1,343.01	1,169.49	173.52	7.740		
7,900.00	7,090.67	16,636.88	7,678.35	63.87	161.31	-150.96	1,804.26	1,440.55	1,325.63	1,145.63	179.99	7.365		
8,000.00	7,176.94	16,613.07	7,678.02	64.87	160.90	-149.79	1,832.21	1,440.34	1,315.05	1,128.93	186.12	7.066		
8,027.52	7,200.68	16,601.72	7,677.94	65.15	160.70	-149.49	1,839.42	1,440.29	1,313.36	1,125.75	187.61	7.001		
8,050.00	7,220.18	16,596.11	7,677.88	65.37	160.60	-152.55	1,845.02	1,440.25	1,312.37	1,123.52	188.85	6.949		
8,100.00	7,264.25	16,586.51	7,677.78	65.85	160.44	-160.56	1,854.62	1,440.18	1,311.43	1,119.89	191.54	6.847		
8,100.99	7,265.13	16,586.36	7,677.78	65.85	160.43	-160.74	1,854.77	1,440.18	1,311.43	1,119.84	191.59	6.845 CC		
8,150.00	7,308.99	16,580.95	7,677.74	66.28	160.34	-170.09	1,860.18	1,440.14	1,312.32	1,118.24	194.08	6.762 ES		
8,200.00	7,354.07	16,579.54	7,677.72	66.67	160.31	179.33	1,861.59	1,440.13	1,315.09	1,118.64	196.45	6.694		
8,250.00	7,399.14	16,582.36	7,677.75	67.02	160.36	168.40	1,858.77	1,440.15	1,319.71	1,121.10	198.60	6.645		
8,300.00	7,443.85	16,589.45	7,677.81	67.32	160.49	157.82	1,851.68	1,440.20	1,326.10	1,125.57	200.53	6.613		
8,350.00	7,487.88	16,600.81	7,677.93	67.56	160.68	148.08	1,840.32	1,440.28	1,334.13	1,131.91	202.21	6.598		
8,400.00	7,530.87	16,616.50	7,678.11	67.75	160.96	139.35	1,824.63	1,440.40	1,343.58	1,139.92	203.66	6.597 SF		
8,450.00	7,572.51	16,636.45	7,678.34	67.90	161.30	131.61	1,804.69	1,440.54	1,354.22	1,149.33	204.89	6.609		
8,500.00	7,612.48	16,660.31	7,678.63	68.00	161.72	124.76	1,780.83	1,440.72	1,365.76	1,159.85	205.92	6.633		
8,550.00	7,650.47	16,659.00	7,678.61	68.05	161.70	119.66	1,782.14	1,440.71	1,378.20	1,171.03	207.17	6.653		
8,600.00	7,686.20	16,659.00	7,678.61	68.06	161.70	115.14	1,782.14	1,440.71	1,391.60	1,183.38	208.22	6.683		
8,650.00	7,719.39	16,659.00	7,678.61	68.03	161.70	111.12	1,782.14	1,440.71	1,405.83	1,196.74	209.09	6.724		
8,700.00	7,749.79	16,659.00	7,678.61	67.97	161.70	107.52	1,782.14	1,440.71	1,420.76	1,210.97	209.79	6.772		
8,750.00	7,777.17	16,659.00	7,678.61	67.87	161.70	104.26	1,782.14	1,440.71	1,436.26	1,225.95	210.31	6.829		
8,800.00	7,801.32	16,659.00	7,678.61	67.74	161.70	101.29	1,782.14	1,440.71	1,452.19	1,241.53	210.66	6.893		
8,850.00	7,822.06	16,659.00	7,678.61	67.59	161.70	98.58	1,782.14	1,440.71	1,468.42	1,257.57	210.85	6.964		
8,900.00	7,839.23	16,659.00	7,678.61	67.41	161.70	96.11	1,782.14	1,440.71	1,484.82	1,273.94	210.88	7.041		
8,950.00	7,852.69	16,659.00	7,678.61	67.22	161.70	93.87	1,782.14	1,440.71	1,501.26	1,290.51	210.75	7.123		
9,000.00	7,862.35	16,659.00	7,678.61	67.00	161.70	91.84	1,782.14	1,440.71	1,517.62	1,307.14	210.48	7.210		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	16,659.00	7,678.61	66.78	161.70	90.04	1,782.14	1,440.71	1,533.77	1,323.72	210.05	7.302		
9,098.65	7,870.00	16,659.00	7,678.61	66.55	161.70	88.50	1,782.14	1,440.71	1,549.18	1,339.67	209.51	7.394		
9,100.00	7,870.00	16,659.00	7,678.61	66.55	161.70	88.50	1,782.14	1,440.71	1,549.61	1,340.11	209.49	7.397		
9,200.00	7,870.00	16,659.00	7,678.61	66.09	161.70	88.50	1,782.14	1,440.71	1,583.83	1,375.88	207.95	7.616		
9,300.00	7,870.00	16,659.00	7,678.61	65.65	161.70	88.50	1,782.14	1,440.71	1,623.50	1,417.60	205.91	7.885		
9,400.00	7,870.00	16,659.00	7,678.61	65.24	161.70	88.50	1,782.14	1,440.71	1,668.23	1,464.79	203.44	8.200		
9,500.00	7,870.00	16,659.00	7,678.61	64.85	161.70	88.50	1,782.14	1,440.71	1,717.63	1,516.97	200.66	8.560		
9,600.00	7,870.00	16,659.00	7,678.61	64.48	161.70	88.50	1,782.14	1,440.71	1,771.30	1,573.66	197.63	8.963		
9,700.00	7,870.00	16,659.00	7,678.61	64.13	161.70	88.50	1,782.14	1,440.71	1,828.86	1,634.42	194.44	9.406		
9,800.00	7,870.00	16,659.00	7,678.61	63.80	161.70	88.50	1,782.14	1,440.71	1,889.97	1,698.81	191.16	9.887		
9,900.00	7,870.00	16,659.00	7,678.61	63.50	161.70	88.50	1,782.14	1,440.71	1,954.28	1,766.46	187.82	10.405		
10,000.00	7,870.00	16,659.00	7,678.61	63.22	161.70	88.50	1,782.14	1,440.71	2,021.50	1,837.02	184.49	10.957		
10,100.00	7,870.00	16,659.00	7,678.61	62.96	161.70	88.50	1,782.14	1,440.71	2,091.34	1,910.16	181.18	11.543		
10,200.00	7,870.00	16,659.00	7,678.61	62.72	161.70	88.50	1,782.14	1,440.71	2,163.55	1,985.61	177.94	12.159		
10,300.00	7,870.00	16,659.00	7,678.61	62.50	161.70	88.50	1,782.14	1,440.71	2,237.90	2,063.12	174.78	12.804		
10,400.00	7,870.00	16,659.00	7,678.61	62.31	161.70	88.50	1,782.14	1,440.71	2,314.18	2,142.47	171.71	13.477		
10,500.00	7,870.00	16,659.00	7,678.61	62.15	161.70	88.50	1,782.14	1,440.71	2,392.21	2,223.47	168.74	14.177		
10,600.00	7,870.00	16,659.00	7,678.61	62.01	161.70	88.50	1,782.14	1,440.71	2,471.83	2,305.94	165.88	14.901		
10,700.00	7,870.00	16,659.00	7,678.61	61.90	161.70	88.50	1,782.14	1,440.71	2,552.87	2,389.74	163.14	15.649		
10,800.00	7,870.00	16,659.00	7,678.61	61.82	161.70	88.50	1,782.14	1,440.71	2,635.22	2,474.72	160.51	16.418		
10,900.00	7,870.00	16,659.00	7,678.61	61.78	161.70	88.50	1,782.14	1,440.71	2,718.76	2,560.77	157.99	17.209		
11,000.00	7,870.00	16,659.00	7,678.61	61.77	161.70	88.50	1,782.14	1,440.71	2,803.37	2,647.80	155.58	18.019		
11,100.00	7,870.00	16,659.00	7,678.61	61.81	161.70	88.50	1,782.14	1,440.71	2,888.97	2,735.69	153.27	18.848		
11,200.00	7,870.00	16,659.00	7,678.61	61.90	161.70	88.50	1,782.14	1,440.71	2,975.46	2,824.39	151.08	19.695		
11,300.00	7,870.00	16,659.00	7,678.61	62.03	161.70	88.50	1,782.14	1,440.71	3,062.78	2,913.80	148.98	20.559		
11,400.00	7,870.00	16,659.00	7,678.61	62.23	161.70	88.50	1,782.14	1,440.71	3,150.85	3,003.88	146.98	21.438		
11,500.00	7,870.00	16,659.00	7,678.61	62.50	161.70	88.50	1,782.14	1,440.71	3,239.62	3,094.55	145.07	22.332		
11,600.00	7,870.00	16,659.00	7,678.61	62.84	161.70	88.50	1,782.14	1,440.71	3,329.02	3,185.77	143.24	23.240		
11,700.00	7,870.00	16,659.00	7,678.61	63.25	161.70	88.50	1,782.14	1,440.71	3,419.01	3,277.50	141.50	24.162		
11,800.00	7,870.00	16,659.00	7,678.61	63.76	161.70	88.50	1,782.14	1,440.71	3,509.54	3,369.69	139.85	25.096		
11,900.00	7,870.00	16,659.00	7,678.61	64.34	161.70	88.50	1,782.14	1,440.71	3,600.57	3,462.31	138.26	26.042		
12,000.00	7,870.00	16,659.00	7,678.61	65.01	161.70	88.50	1,782.14	1,440.71	3,692.06	3,555.32	136.75	26.999		
12,100.00	7,870.00	16,659.00	7,678.61	65.77	161.70	88.50	1,782.14	1,440.71	3,783.99	3,648.69	135.30	27.967		
12,200.00	7,870.00	16,659.00	7,678.61	66.61	161.70	88.50	1,782.14	1,440.71	3,876.31	3,742.39	133.92	28.945		
12,300.00	7,870.00	16,659.00	7,678.61	67.51	161.70	88.50	1,782.14	1,440.71	3,969.01	3,836.41	132.60	29.932		
12,400.00	7,870.00	16,659.00	7,678.61	68.49	161.70	88.50	1,782.14	1,440.71	4,062.06	3,930.72	131.34	30.929		
12,500.00	7,870.00	16,659.00	7,678.61	69.52	161.70	88.50	1,782.14	1,440.71	4,155.42	4,025.30	130.13	31.934		
12,600.00	7,870.00	16,659.00	7,678.61	70.61	161.70	88.50	1,782.14	1,440.71	4,249.09	4,120.12	128.97	32.947		
12,700.00	7,870.00	16,659.00	7,678.61	71.75	161.70	88.50	1,782.14	1,440.71	4,343.04	4,215.18	127.86	33.967		
12,800.00	7,870.00	16,659.00	7,678.61	72.93	161.70	88.50	1,782.14	1,440.71	4,437.26	4,310.46	126.80	34.994		
12,900.00	7,870.00	16,659.00	7,678.61	74.14	161.70	88.50	1,782.14	1,440.71	4,531.72	4,405.94	125.78	36.029		
13,000.00	7,870.00	16,659.00	7,678.61	75.39	161.70	88.50	1,782.14	1,440.71	4,626.42	4,501.62	124.80	37.069		
13,100.00	7,870.00	16,659.00	7,678.61	76.67	161.70	88.50	1,782.14	1,440.71	4,721.33	4,597.47	123.87	38.116		
13,200.00	7,870.00	16,659.00	7,678.61	77.98	161.70	88.50	1,782.14	1,440.71	4,816.46	4,693.49	122.97	39.168		
13,300.00	7,870.00	16,659.00	7,678.61	79.31	161.70	88.50	1,782.14	1,440.71	4,911.77	4,789.67	122.10	40.226		
13,400.00	7,870.00	16,659.00	7,678.61	80.67	161.70	88.50	1,782.14	1,440.71	5,007.27	4,885.99	121.28	41.288		
13,500.00	7,870.00	16,659.00	7,678.61	82.04	161.70	88.50	1,782.14	1,440.71	5,102.94	4,982.46	120.48	42.356		
13,600.00	7,870.00	16,659.00	7,678.61	83.43	161.70	88.50	1,782.14	1,440.71	5,198.77	5,079.06	119.71	43.428		
13,700.00	7,870.00	16,659.00	7,678.61	84.84	161.70	88.50	1,782.14	1,440.71	5,294.76	5,175.78	118.97	44.504		
13,800.00	7,870.00	16,659.00	7,678.61	86.27	161.70	88.50	1,782.14	1,440.71	5,390.89	5,272.63	118.26	45.583		
13,900.00	7,870.00	16,659.00	7,678.61	87.71	161.70	88.50	1,782.14	1,440.71	5,487.16	5,369.58	117.58	46.667		
14,000.00	7,870.00	16,659.00	7,678.61	89.16	161.70	88.50	1,782.14	1,440.71	5,583.56	5,466.64	116.92	47.754		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	16,659.00	7,678.61	90.63	161.70	88.50	1,782.14	1,440.71	5,680.09	5,563.80	116.29	48.844		
14,200.00	7,870.00	16,659.00	7,678.61	92.10	161.70	88.50	1,782.14	1,440.71	5,776.74	5,661.06	115.68	49.938		
14,300.00	7,870.00	16,659.00	7,678.61	93.59	161.70	88.50	1,782.14	1,440.71	5,873.49	5,758.40	115.09	51.034		
14,400.00	7,870.00	16,659.00	7,678.61	95.09	161.70	88.50	1,782.14	1,440.71	5,970.36	5,855.83	114.52	52.133		
14,500.00	7,870.00	16,659.00	7,678.61	96.60	161.70	88.50	1,782.14	1,440.71	6,067.32	5,953.35	113.97	53.234		
14,600.00	7,870.00	16,659.00	7,678.61	98.11	161.70	88.50	1,782.14	1,440.71	6,164.39	6,050.94	113.45	54.338		
14,700.00	7,870.00	16,659.00	7,678.61	99.64	161.70	88.50	1,782.14	1,440.71	6,261.54	6,148.60	112.94	55.443		
14,800.00	7,870.00	16,659.00	7,678.61	101.17	161.70	88.50	1,782.14	1,440.71	6,358.78	6,246.34	112.44	56.551		
14,900.00	7,870.00	16,659.00	7,678.61	102.71	161.70	88.50	1,782.14	1,440.71	6,456.11	6,344.14	111.97	57.661		
15,000.00	7,870.00	16,659.00	7,678.61	104.26	161.70	88.50	1,782.14	1,440.71	6,553.52	6,442.01	111.51	58.772		
15,100.00	7,870.00	16,659.00	7,678.61	105.82	161.70	88.50	1,782.14	1,440.71	6,651.00	6,539.94	111.06	59.885		
15,200.00	7,870.00	16,659.00	7,678.61	107.38	161.70	88.50	1,782.14	1,440.71	6,748.56	6,637.93	110.63	60.999		
15,300.00	7,870.00	16,659.00	7,678.61	108.95	161.70	88.50	1,782.14	1,440.71	6,846.19	6,735.97	110.22	62.114		
15,400.00	7,870.00	16,659.00	7,678.61	110.52	161.70	88.50	1,782.14	1,440.71	6,943.89	6,834.07	109.82	63.231		
15,500.00	7,870.00	16,659.00	7,678.61	112.10	161.70	88.50	1,782.14	1,440.71	7,041.65	6,932.22	109.43	64.349		
15,600.00	7,870.00	16,659.00	7,678.61	113.69	161.70	88.50	1,782.14	1,440.71	7,139.47	7,030.42	109.05	65.467		
15,700.00	7,870.00	16,659.00	7,678.61	115.28	161.70	88.50	1,782.14	1,440.71	7,237.36	7,128.67	108.69	66.587		
15,800.00	7,870.00	16,659.00	7,678.61	116.87	161.70	88.50	1,782.14	1,440.71	7,335.30	7,226.96	108.34	67.707		
15,900.00	7,870.00	16,659.00	7,678.61	118.47	161.70	88.50	1,782.14	1,440.71	7,433.29	7,325.29	108.00	68.828		
16,000.00	7,870.00	16,659.00	7,678.61	120.07	161.70	88.50	1,782.14	1,440.71	7,531.34	7,423.67	107.67	69.950		
16,100.00	7,870.00	16,659.00	7,678.61	121.68	161.70	88.50	1,782.14	1,440.71	7,629.44	7,522.09	107.35	71.071		
16,200.00	7,870.00	16,659.00	7,678.61	123.30	161.70	88.50	1,782.14	1,440.71	7,727.58	7,620.54	107.04	72.194		
16,300.00	7,870.00	16,659.00	7,678.61	124.91	161.70	88.50	1,782.14	1,440.71	7,825.78	7,719.04	106.74	73.316		
16,400.00	7,870.00	16,659.00	7,678.61	126.53	161.70	88.50	1,782.14	1,440.71	7,924.02	7,817.57	106.45	74.439		
16,500.00	7,870.00	16,659.00	7,678.61	128.16	161.70	88.50	1,782.14	1,440.71	8,022.30	7,916.13	106.17	75.562		
16,600.00	7,870.00	16,659.00	7,678.61	129.79	161.70	88.50	1,782.14	1,440.71	8,120.62	8,014.73	105.90	76.685		
16,700.00	7,870.00	16,659.00	7,678.61	131.42	161.70	88.50	1,782.14	1,440.71	8,218.99	8,113.36	105.63	77.808		
16,800.00	7,870.00	16,659.00	7,678.61	133.05	161.70	88.50	1,782.14	1,440.71	8,317.39	8,212.02	105.38	78.930		
16,900.00	7,870.00	16,659.00	7,678.61	134.69	161.70	88.50	1,782.14	1,440.71	8,415.83	8,310.70	105.13	80.053		
17,000.00	7,870.00	16,659.00	7,678.61	136.33	161.70	88.50	1,782.14	1,440.71	8,514.31	8,409.42	104.89	81.175		
17,100.00	7,870.00	16,659.00	7,678.61	137.97	161.70	88.50	1,782.14	1,440.71	8,612.82	8,508.17	104.65	82.298		
17,200.00	7,870.00	16,659.00	7,678.61	139.62	161.70	88.50	1,782.14	1,440.71	8,711.37	8,606.94	104.43	83.419		
17,300.00	7,870.00	16,659.00	7,678.61	141.27	161.70	88.50	1,782.14	1,440.71	8,809.95	8,705.74	104.21	84.541		
17,400.00	7,870.00	16,659.00	7,678.61	142.92	161.70	88.50	1,782.14	1,440.71	8,908.56	8,804.56	104.00	85.662		
17,500.00	7,870.00	16,659.00	7,678.61	144.58	161.70	88.50	1,782.14	1,440.71	9,007.20	8,903.41	103.79	86.782		
17,600.00	7,870.00	16,659.00	7,678.61	146.23	161.70	88.50	1,782.14	1,440.71	9,105.87	9,002.28	103.59	87.902		
17,700.00	7,870.00	16,659.00	7,678.61	147.89	161.70	88.50	1,782.14	1,440.71	9,204.57	9,101.18	103.40	89.021		
17,800.00	7,870.00	16,659.00	7,678.61	149.56	161.70	88.50	1,782.14	1,440.71	9,303.30	9,200.09	103.21	90.140		
17,900.00	7,870.00	16,659.00	7,678.61	151.22	161.70	88.50	1,782.14	1,440.71	9,402.06	9,299.03	103.03	91.257		
18,000.00	7,870.00	16,659.00	7,678.61	152.89	161.70	88.50	1,782.14	1,440.71	9,500.84	9,397.99	102.85	92.374		
18,100.00	7,870.00	16,659.00	7,678.61	154.55	161.70	88.50	1,782.14	1,440.71	9,599.64	9,496.96	102.68	93.491		
18,200.00	7,870.00	16,659.00	7,678.61	156.22	161.70	88.50	1,782.14	1,440.71	9,698.47	9,595.96	102.51	94.606		
18,300.00	7,870.00	16,659.00	7,678.61	157.90	161.70	88.50	1,782.14	1,440.71	9,797.33	9,694.98	102.35	95.721		
18,400.00	7,870.00	16,659.00	7,678.61	159.57	161.70	88.50	1,782.14	1,440.71	9,896.21	9,794.01	102.20	96.834		
18,500.00	7,870.00	16,659.00	7,678.61	161.25	161.70	88.50	1,782.14	1,440.71	9,995.11	9,893.06	102.05	97.947		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	42.74	1,779.81	1,644.70	8,304.41					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	42.74	1,779.81	1,644.70	8,208.82	8,131.39	77.43	106.023		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	42.74	1,779.81	1,644.70	8,113.33	8,035.81	77.52	104.661		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	42.74	1,779.81	1,644.70	8,017.95	7,940.32	77.63	103.287		
400.00	400.00	16,530.00	7,789.95	1.21	159.85	42.74	1,779.81	1,644.70	7,922.68	7,844.93	77.75	101.900		
500.00	500.00	16,530.00	7,789.95	1.57	159.85	42.74	1,779.81	1,644.70	7,827.54	7,749.65	77.88	100.502		
600.00	600.00	16,530.00	7,789.95	1.93	159.85	42.74	1,779.81	1,644.70	7,732.51	7,654.48	78.03	99.094		
700.00	700.00	16,530.00	7,789.95	2.29	159.85	42.74	1,779.81	1,644.70	7,637.61	7,559.42	78.19	97.675		
800.00	800.00	16,530.00	7,789.95	2.64	159.85	42.74	1,779.81	1,644.70	7,542.85	7,464.48	78.37	96.248		
900.00	900.00	16,530.00	7,789.95	3.00	159.85	42.74	1,779.81	1,644.70	7,448.22	7,369.66	78.56	94.813		
1,000.00	1,000.00	16,530.00	7,789.95	3.36	159.85	42.74	1,779.81	1,644.70	7,353.73	7,274.97	78.76	93.371		
1,100.00	1,099.98	16,530.00	7,789.95	3.72	159.85	-13.19	1,779.81	1,644.70	7,258.84	7,179.87	78.97	91.919		
1,200.00	1,199.84	16,530.00	7,789.95	4.07	159.85	-14.80	1,779.81	1,644.70	7,163.05	7,083.87	79.18	90.467		
1,300.00	1,299.45	16,530.00	7,789.95	4.43	159.85	-16.84	1,779.81	1,644.70	7,066.45	6,987.08	79.37	89.030		
1,400.00	1,398.70	16,530.00	7,789.95	4.80	159.85	-19.49	1,779.81	1,644.70	6,969.11	6,889.57	79.55	87.611		
1,500.00	1,497.47	16,530.00	7,789.95	5.18	159.85	-23.04	1,779.81	1,644.70	6,871.14	6,791.44	79.70	86.212		
1,600.00	1,595.62	16,530.00	7,789.95	5.57	159.85	-27.99	1,779.81	1,644.70	6,772.62	6,692.79	79.83	84.834		
1,700.00	1,693.06	16,530.00	7,789.95	6.00	159.85	-35.23	1,779.81	1,644.70	6,673.65	6,593.71	79.94	83.479		
1,800.00	1,789.64	16,530.00	7,789.95	6.45	159.85	-46.30	1,779.81	1,644.70	6,574.34	6,494.31	80.03	82.148		
1,900.00	1,885.27	16,530.00	7,789.95	6.94	159.85	-63.37	1,779.81	1,644.70	6,474.79	6,394.70	80.09	80.842		
2,000.00	1,979.82	16,530.00	7,789.95	7.47	159.85	-86.95	1,779.81	1,644.70	6,375.12	6,295.00	80.13	79.563		
2,100.00	2,073.17	16,530.00	7,789.95	8.05	159.85	-111.20	1,779.81	1,644.70	6,275.45	6,195.31	80.14	78.310		
2,200.00	2,165.21	16,530.00	7,789.95	8.67	159.85	-129.40	1,779.81	1,644.70	6,175.89	6,095.78	80.12	77.085		
2,300.00	2,255.84	16,530.00	7,789.95	9.35	159.85	-141.28	1,779.81	1,644.70	6,076.59	5,996.52	80.07	75.888		
2,400.00	2,344.94	16,530.00	7,789.95	10.09	159.85	-149.00	1,779.81	1,644.70	5,977.67	5,897.67	80.00	74.719		
2,500.00	2,432.39	16,530.00	7,789.95	10.89	159.85	-154.24	1,779.81	1,644.70	5,879.28	5,799.37	79.91	73.577		
2,519.29	2,449.07	16,530.00	7,789.95	11.05	159.85	-155.06	1,779.81	1,644.70	5,860.37	5,780.49	79.88	73.362		
2,600.00	2,518.69	16,530.00	7,789.95	11.74	159.85	-155.06	1,779.81	1,644.70	5,781.35	5,701.55	79.80	72.448		
2,700.00	2,604.95	16,530.00	7,789.95	12.62	159.85	-155.06	1,779.81	1,644.70	5,683.50	5,603.80	79.70	71.309		
2,800.00	2,691.22	16,530.00	7,789.95	13.52	159.85	-155.06	1,779.81	1,644.70	5,585.73	5,506.12	79.61	70.165		
2,900.00	2,777.48	16,530.00	7,789.95	14.43	159.85	-155.06	1,779.81	1,644.70	5,488.04	5,408.52	79.52	69.014		
3,000.00	2,863.75	16,530.00	7,789.95	15.35	159.85	-155.06	1,779.81	1,644.70	5,390.44	5,311.00	79.44	67.857		
3,100.00	2,950.01	16,530.00	7,789.95	16.28	159.85	-155.06	1,779.81	1,644.70	5,292.92	5,213.56	79.36	66.695		
3,200.00	3,036.27	16,530.00	7,789.95	17.22	159.85	-155.06	1,779.81	1,644.70	5,195.50	5,116.21	79.29	65.527		
3,300.00	3,122.54	16,530.00	7,789.95	18.17	159.85	-155.06	1,779.81	1,644.70	5,098.17	5,018.95	79.22	64.354		
3,400.00	3,208.80	16,530.00	7,789.95	19.13	159.85	-155.06	1,779.81	1,644.70	5,000.96	4,921.80	79.16	63.176		
3,500.00	3,295.07	16,530.00	7,789.95	20.09	159.85	-155.06	1,779.81	1,644.70	4,903.85	4,824.75	79.10	61.992		
3,600.00	3,381.33	16,530.00	7,789.95	21.05	159.85	-155.06	1,779.81	1,644.70	4,806.87	4,727.81	79.06	60.803		
3,700.00	3,467.59	16,530.00	7,789.95	22.02	159.85	-155.06	1,779.81	1,644.70	4,710.01	4,630.99	79.02	59.609		
3,800.00	3,553.86	16,530.00	7,789.95	22.99	159.85	-155.06	1,779.81	1,644.70	4,613.28	4,534.30	78.98	58.410		
3,900.00	3,640.12	16,530.00	7,789.95	23.97	159.85	-155.06	1,779.81	1,644.70	4,516.70	4,437.74	78.96	57.205		
4,000.00	3,726.38	16,530.00	7,789.95	24.95	159.85	-155.06	1,779.81	1,644.70	4,420.27	4,341.33	78.94	55.996		
4,100.00	3,812.65	16,530.00	7,789.95	25.93	159.85	-155.06	1,779.81	1,644.70	4,324.00	4,245.06	78.93	54.780		
4,200.00	3,898.91	16,530.00	7,789.95	26.91	159.85	-155.06	1,779.81	1,644.70	4,227.90	4,148.96	78.94	53.560		
4,300.00	3,985.18	16,530.00	7,789.95	27.90	159.85	-155.06	1,779.81	1,644.70	4,131.99	4,053.04	78.96	52.333		
4,400.00	4,071.44	16,530.00	7,789.95	28.88	159.85	-155.06	1,779.81	1,644.70	4,036.28	3,957.29	78.99	51.101		
4,500.00	4,157.70	16,530.00	7,789.95	29.87	159.85	-155.06	1,779.81	1,644.70	3,940.78	3,861.75	79.03	49.862		
4,600.00	4,243.97	16,530.00	7,789.95	30.86	159.85	-155.06	1,779.81	1,644.70	3,845.51	3,766.41	79.10	48.617		
4,700.00	4,330.23	16,530.00	7,789.95	31.85	159.85	-155.06	1,779.81	1,644.70	3,750.48	3,671.30	79.18	47.365		
4,800.00	4,416.49	16,530.00	7,789.95	32.84	159.85	-155.06	1,779.81	1,644.70	3,655.73	3,576.44	79.29	46.106		
4,900.00	4,502.76	16,530.00	7,789.95	33.84	159.85	-155.06	1,779.81	1,644.70	3,561.25	3,481.83	79.42	44.838		
5,000.00	4,589.02	16,530.00	7,789.95	34.83	159.85	-155.06	1,779.81	1,644.70	3,467.09	3,387.50	79.59	43.563		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	16,530.00	7,789.95	35.82	159.85	-155.06	1,779.81	1,644.70	3,373.26	3,293.48	79.79	42.278		
5,200.00	4,761.55	16,530.00	7,789.95	36.82	159.85	-155.06	1,779.81	1,644.70	3,279.80	3,199.78	80.03	40.983		
5,300.00	4,847.81	16,530.00	7,789.95	37.82	159.85	-155.06	1,779.81	1,644.70	3,186.74	3,106.43	80.31	39.679		
5,400.00	4,934.08	16,530.00	7,789.95	38.81	159.85	-155.06	1,779.81	1,644.70	3,094.11	3,013.46	80.65	38.363		
5,500.00	5,020.34	16,530.00	7,789.95	39.81	159.85	-155.06	1,779.81	1,644.70	3,001.95	2,920.90	81.05	37.036		
5,600.00	5,106.60	16,530.00	7,789.95	40.81	159.85	-155.06	1,779.81	1,644.70	2,910.31	2,828.78	81.53	35.697		
5,700.00	5,192.87	16,530.00	7,789.95	41.81	159.85	-155.06	1,779.81	1,644.70	2,819.24	2,737.15	82.08	34.346		
5,800.00	5,279.13	16,530.00	7,789.95	42.81	159.85	-155.06	1,779.81	1,644.70	2,728.79	2,646.05	82.74	32.981		
5,900.00	5,365.40	16,530.00	7,789.95	43.81	159.85	-155.06	1,779.81	1,644.70	2,639.03	2,555.53	83.50	31.604		
6,000.00	5,451.66	16,530.00	7,789.95	44.81	159.85	-155.06	1,779.81	1,644.70	2,550.04	2,465.64	84.40	30.214		
6,100.00	5,537.92	16,530.00	7,789.95	45.81	159.85	-155.06	1,779.81	1,644.70	2,461.89	2,376.44	85.45	28.812		
6,200.00	5,624.19	16,530.00	7,789.95	46.81	159.85	-155.06	1,779.81	1,644.70	2,374.67	2,288.01	86.67	27.400		
6,300.00	5,710.45	16,530.00	7,789.95	47.81	159.85	-155.06	1,779.81	1,644.70	2,288.51	2,200.42	88.09	25.979		
6,400.00	5,796.72	16,530.00	7,789.95	48.81	159.85	-155.06	1,779.81	1,644.70	2,203.51	2,113.77	89.75	24.553		
6,500.00	5,882.98	16,530.00	7,789.95	49.81	159.85	-155.06	1,779.81	1,644.70	2,119.83	2,028.16	91.67	23.125		
6,600.00	5,969.24	16,530.00	7,789.95	50.82	159.85	-155.06	1,779.81	1,644.70	2,037.61	1,943.72	93.89	21.702		
6,700.00	6,055.51	16,530.00	7,789.95	51.82	159.85	-155.06	1,779.81	1,644.70	1,957.05	1,860.59	96.46	20.289		
6,800.00	6,141.77	16,530.00	7,789.95	52.82	159.85	-155.06	1,779.81	1,644.70	1,878.36	1,778.95	99.41	18.894		
6,900.00	6,228.03	16,530.00	7,789.95	53.83	159.85	-155.06	1,779.81	1,644.70	1,801.79	1,699.00	102.80	17.528		
7,000.00	6,314.30	16,530.00	7,789.95	54.83	159.85	-155.06	1,779.81	1,644.70	1,727.61	1,620.97	106.65	16.199		
7,100.00	6,400.56	16,530.00	7,789.95	55.83	159.85	-155.06	1,779.81	1,644.70	1,656.15	1,545.15	111.00	14.920		
7,200.00	6,486.83	16,530.00	7,789.95	56.84	159.85	-155.06	1,779.81	1,644.70	1,587.78	1,471.89	115.89	13.701		
7,300.00	6,573.09	16,530.00	7,789.95	57.84	159.85	-155.06	1,779.81	1,644.70	1,522.90	1,401.58	121.32	12.552		
7,400.00	6,659.35	16,530.00	7,789.95	58.84	159.85	-155.06	1,779.81	1,644.70	1,462.00	1,334.70	127.30	11.485		
7,500.00	6,745.62	16,530.00	7,789.95	59.85	159.85	-155.06	1,779.81	1,644.70	1,405.57	1,271.79	133.78	10.507		
7,600.00	6,831.88	16,530.00	7,789.95	60.85	159.85	-155.06	1,779.81	1,644.70	1,354.19	1,213.50	140.69	9.625		
7,700.00	6,918.14	16,530.00	7,789.95	61.86	159.85	-155.06	1,779.81	1,644.70	1,308.44	1,160.52	147.93	8.845		
7,800.00	7,004.41	16,530.00	7,789.95	62.86	159.85	-155.06	1,779.81	1,644.70	1,268.94	1,113.61	155.34	8.169		
7,900.00	7,090.67	16,530.00	7,789.95	63.87	159.85	-155.06	1,779.81	1,644.70	1,236.29	1,073.57	162.72	7.598		
8,000.00	7,176.94	16,530.00	7,789.95	64.87	159.85	-155.06	1,779.81	1,644.70	1,211.04	1,041.18	169.85	7.130		
8,027.52	7,200.68	16,531.41	7,789.91	65.15	159.87	-155.12	1,778.40	1,644.76	1,205.45	1,033.73	171.71	7.020		
8,050.00	7,220.18	16,525.00	7,790.12	65.37	159.76	-157.80	1,784.80	1,644.50	1,201.28	1,027.91	173.36	6.929		
8,100.00	7,264.25	16,513.79	7,790.48	65.85	159.57	-164.96	1,795.99	1,644.05	1,193.04	1,016.03	177.01	6.740		
8,150.00	7,308.99	16,506.87	7,790.71	66.28	159.45	-173.63	1,802.91	1,643.77	1,186.43	1,005.84	180.59	6.570		
8,200.00	7,354.07	16,504.28	7,790.79	66.67	159.40	-176.61	1,805.49	1,643.67	1,181.60	997.56	184.04	6.420		
8,250.00	7,399.14	16,506.04	7,790.74	67.02	159.43	-166.48	1,803.73	1,643.74	1,178.62	991.33	187.29	6.293		
8,300.00	7,443.85	16,512.15	7,790.54	67.32	159.54	-156.67	1,797.63	1,643.98	1,177.52	987.21	190.32	6.187		
8,304.65	7,447.99	16,512.94	7,790.51	67.34	159.55	-155.79	1,796.85	1,644.02	1,177.52	986.93	190.58	6.178 CC		
8,350.00	7,487.88	16,522.55	7,790.20	67.56	159.72	-147.66	1,787.25	1,644.40	1,178.25	985.18	193.08	6.103		
8,400.00	7,530.87	16,530.00	7,789.95	67.75	159.85	-139.94	1,779.81	1,644.70	1,180.71	985.00	195.70	6.033 ES		
8,450.00	7,572.51	16,530.00	7,789.95	67.90	159.85	-133.65	1,779.81	1,644.70	1,184.92	986.64	198.28	5.976		
8,500.00	7,612.48	16,530.00	7,789.95	68.00	159.85	-128.27	1,779.81	1,644.70	1,190.87	990.27	200.60	5.937		
8,550.00	7,650.47	16,530.00	7,789.95	68.05	159.85	-123.62	1,779.81	1,644.70	1,198.48	995.82	202.66	5.914		
8,600.00	7,686.20	16,530.00	7,789.95	68.06	159.85	-119.54	1,779.81	1,644.70	1,207.66	1,003.22	204.44	5.907 SF		
8,650.00	7,719.39	16,530.00	7,789.95	68.03	159.85	-115.90	1,779.81	1,644.70	1,218.32	1,012.38	205.94	5.916		
8,700.00	7,749.79	16,530.00	7,789.95	67.97	159.85	-112.60	1,779.81	1,644.70	1,230.32	1,023.18	207.15	5.939		
8,750.00	7,777.17	16,530.00	7,789.95	67.87	159.85	-109.56	1,779.81	1,644.70	1,243.55	1,035.48	208.07	5.977		
8,800.00	7,801.32	16,530.00	7,789.95	67.74	159.85	-106.74	1,779.81	1,644.70	1,257.86	1,049.15	208.71	6.027		
8,850.00	7,822.06	16,530.00	7,789.95	67.59	159.85	-104.09	1,779.81	1,644.70	1,273.12	1,064.04	209.08	6.089		
8,900.00	7,839.23	16,530.00	7,789.95	67.41	159.85	-101.61	1,779.81	1,644.70	1,289.17	1,079.99	209.18	6.163		
8,950.00	7,852.69	16,530.00	7,789.95	67.22	159.85	-99.29	1,779.81	1,644.70	1,305.86	1,096.83	209.03	6.247		
9,000.00	7,862.35	16,530.00	7,789.95	67.00	159.85	-97.11	1,779.81	1,644.70	1,323.05	1,114.41	208.63	6.342		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	16,530.00	7,789.95	66.78	159.85	95.10	1,779.81	1,644.70	1,340.58	1,132.57	208.01	6.445		
9,098.65	7,870.00	16,530.00	7,789.95	66.55	159.85	93.30	1,779.81	1,644.70	1,357.84	1,150.64	207.20	6.553		
9,100.00	7,870.00	16,530.00	7,789.95	66.55	159.85	93.30	1,779.81	1,644.70	1,358.32	1,151.15	207.17	6.557		
9,200.00	7,870.00	16,530.00	7,789.95	66.09	159.85	93.30	1,779.81	1,644.70	1,397.12	1,192.17	204.96	6.817		
9,300.00	7,870.00	16,530.00	7,789.95	65.65	159.85	93.30	1,779.81	1,644.70	1,441.83	1,239.66	202.17	7.132		
9,400.00	7,870.00	16,530.00	7,789.95	65.24	159.85	93.30	1,779.81	1,644.70	1,491.91	1,292.95	198.95	7.499		
9,500.00	7,870.00	16,530.00	7,789.95	64.85	159.85	93.30	1,779.81	1,644.70	1,546.83	1,351.40	195.43	7.915		
9,600.00	7,870.00	16,530.00	7,789.95	64.48	159.85	93.30	1,779.81	1,644.70	1,606.12	1,414.39	191.72	8.377		
9,700.00	7,870.00	16,530.00	7,789.95	64.13	159.85	93.30	1,779.81	1,644.70	1,669.29	1,481.37	187.92	8.883		
9,800.00	7,870.00	16,530.00	7,789.95	63.80	159.85	93.30	1,779.81	1,644.70	1,735.93	1,551.83	184.09	9.430		
9,900.00	7,870.00	16,530.00	7,789.95	63.50	159.85	93.30	1,779.81	1,644.70	1,805.65	1,625.35	180.30	10.015		
10,000.00	7,870.00	16,530.00	7,789.95	63.22	159.85	93.30	1,779.81	1,644.70	1,878.10	1,701.52	176.58	10.636		
10,100.00	7,870.00	16,530.00	7,789.95	62.96	159.85	93.30	1,779.81	1,644.70	1,952.99	1,780.02	172.98	11.290		
10,200.00	7,870.00	16,530.00	7,789.95	62.72	159.85	93.30	1,779.81	1,644.70	2,030.05	1,860.55	169.50	11.977		
10,300.00	7,870.00	16,530.00	7,789.95	62.50	159.85	93.30	1,779.81	1,644.70	2,109.03	1,942.88	166.16	12.693		
10,400.00	7,870.00	16,530.00	7,789.95	62.31	159.85	93.30	1,779.81	1,644.70	2,189.73	2,026.77	162.96	13.437		
10,500.00	7,870.00	16,530.00	7,789.95	62.15	159.85	93.30	1,779.81	1,644.70	2,271.97	2,112.05	159.92	14.207		
10,600.00	7,870.00	16,530.00	7,789.95	62.01	159.85	93.30	1,779.81	1,644.70	2,355.58	2,198.56	157.02	15.001		
10,700.00	7,870.00	16,530.00	7,789.95	61.90	159.85	93.30	1,779.81	1,644.70	2,440.42	2,286.15	154.27	15.819		
10,800.00	7,870.00	16,530.00	7,789.95	61.82	159.85	93.30	1,779.81	1,644.70	2,526.38	2,374.71	151.67	16.658		
10,900.00	7,870.00	16,530.00	7,789.95	61.78	159.85	93.30	1,779.81	1,644.70	2,613.33	2,464.14	149.19	17.516		
11,000.00	7,870.00	16,530.00	7,789.95	61.77	159.85	93.30	1,779.81	1,644.70	2,701.19	2,554.34	146.85	18.394		
11,100.00	7,870.00	16,530.00	7,789.95	61.81	159.85	93.30	1,779.81	1,644.70	2,789.86	2,645.23	144.63	19.290		
11,200.00	7,870.00	16,530.00	7,789.95	61.90	159.85	93.30	1,779.81	1,644.70	2,879.28	2,736.75	142.53	20.201		
11,300.00	7,870.00	16,530.00	7,789.95	62.03	159.85	93.30	1,779.81	1,644.70	2,969.37	2,828.83	140.54	21.129		
11,400.00	7,870.00	16,530.00	7,789.95	62.23	159.85	93.30	1,779.81	1,644.70	3,060.08	2,921.43	138.65	22.071		
11,500.00	7,870.00	16,530.00	7,789.95	62.50	159.85	93.30	1,779.81	1,644.70	3,151.35	3,014.49	136.86	23.027		
11,600.00	7,870.00	16,530.00	7,789.95	62.84	159.85	93.30	1,779.81	1,644.70	3,243.13	3,107.97	135.16	23.995		
11,700.00	7,870.00	16,530.00	7,789.95	63.25	159.85	93.30	1,779.81	1,644.70	3,335.39	3,201.84	133.55	24.976		
11,800.00	7,870.00	16,530.00	7,789.95	63.76	159.85	93.30	1,779.81	1,644.70	3,428.08	3,296.06	132.01	25.967		
11,900.00	7,870.00	16,530.00	7,789.95	64.34	159.85	93.30	1,779.81	1,644.70	3,521.17	3,390.61	130.56	26.970		
12,000.00	7,870.00	16,530.00	7,789.95	65.01	159.85	93.30	1,779.81	1,644.70	3,614.63	3,485.45	129.18	27.982		
12,100.00	7,870.00	16,530.00	7,789.95	65.77	159.85	93.30	1,779.81	1,644.70	3,708.43	3,580.57	127.86	29.004		
12,200.00	7,870.00	16,530.00	7,789.95	66.61	159.85	93.30	1,779.81	1,644.70	3,802.55	3,675.94	126.61	30.034		
12,300.00	7,870.00	16,530.00	7,789.95	67.51	159.85	93.30	1,779.81	1,644.70	3,896.96	3,771.54	125.42	31.072		
12,400.00	7,870.00	16,530.00	7,789.95	68.49	159.85	93.30	1,779.81	1,644.70	3,991.64	3,867.36	124.28	32.118		
12,500.00	7,870.00	16,530.00	7,789.95	69.52	159.85	93.30	1,779.81	1,644.70	4,086.58	3,963.38	123.19	33.172		
12,600.00	7,870.00	16,530.00	7,789.95	70.61	159.85	93.30	1,779.81	1,644.70	4,181.75	4,059.59	122.16	34.232		
12,700.00	7,870.00	16,530.00	7,789.95	71.75	159.85	93.30	1,779.81	1,644.70	4,277.14	4,155.97	121.17	35.298		
12,800.00	7,870.00	16,530.00	7,789.95	72.93	159.85	93.30	1,779.81	1,644.70	4,372.74	4,252.51	120.23	36.370		
12,900.00	7,870.00	16,530.00	7,789.95	74.14	159.85	93.30	1,779.81	1,644.70	4,468.53	4,349.21	119.33	37.448		
13,000.00	7,870.00	16,530.00	7,789.95	75.39	159.85	93.30	1,779.81	1,644.70	4,564.50	4,446.04	118.46	38.531		
13,100.00	7,870.00	16,530.00	7,789.95	76.67	159.85	93.30	1,779.81	1,644.70	4,660.64	4,543.01	117.64	39.619		
13,200.00	7,870.00	16,530.00	7,789.95	77.98	159.85	93.30	1,779.81	1,644.70	4,756.94	4,640.10	116.85	40.711		
13,300.00	7,870.00	16,530.00	7,789.95	79.31	159.85	93.30	1,779.81	1,644.70	4,853.39	4,737.31	116.09	41.808		
13,400.00	7,870.00	16,530.00	7,789.95	80.67	159.85	93.30	1,779.81	1,644.70	4,949.99	4,834.62	115.36	42.908		
13,500.00	7,870.00	16,530.00	7,789.95	82.04	159.85	93.30	1,779.81	1,644.70	5,046.71	4,932.04	114.67	44.012		
13,600.00	7,870.00	16,530.00	7,789.95	83.43	159.85	93.30	1,779.81	1,644.70	5,143.56	5,029.56	114.00	45.120		
13,700.00	7,870.00	16,530.00	7,789.95	84.84	159.85	93.30	1,779.81	1,644.70	5,240.52	5,127.17	113.36	46.231		
13,800.00	7,870.00	16,530.00	7,789.95	86.27	159.85	93.30	1,779.81	1,644.70	5,337.60	5,224.86	112.74	47.344		
13,900.00	7,870.00	16,530.00	7,789.95	87.71	159.85	93.30	1,779.81	1,644.70	5,434.79	5,322.64	112.15	48.461		
14,000.00	7,870.00	16,530.00	7,789.95	89.16	159.85	93.30	1,779.81	1,644.70	5,532.07	5,420.49	111.58	49.580		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	16,530.00	7,789.95	90.63	159.85	93.30	1,779.81	1,644.70	5,629.45	5,518.42	111.03	50.701		
14,200.00	7,870.00	16,530.00	7,789.95	92.10	159.85	93.30	1,779.81	1,644.70	5,726.92	5,616.42	110.51	51.825		
14,300.00	7,870.00	16,530.00	7,789.95	93.59	159.85	93.30	1,779.81	1,644.70	5,824.48	5,714.48	110.00	52.950		
14,400.00	7,870.00	16,530.00	7,789.95	95.09	159.85	93.30	1,779.81	1,644.70	5,922.12	5,812.61	109.51	54.078		
14,500.00	7,870.00	16,530.00	7,789.95	96.60	159.85	93.30	1,779.81	1,644.70	6,019.83	5,910.79	109.04	55.207		
14,600.00	7,870.00	16,530.00	7,789.95	98.11	159.85	93.30	1,779.81	1,644.70	6,117.62	6,009.04	108.59	56.338		
14,700.00	7,870.00	16,530.00	7,789.95	99.64	159.85	93.30	1,779.81	1,644.70	6,215.48	6,107.33	108.15	57.470		
14,800.00	7,870.00	16,530.00	7,789.95	101.17	159.85	93.30	1,779.81	1,644.70	6,313.41	6,205.68	107.73	58.603		
14,900.00	7,870.00	16,530.00	7,789.95	102.71	159.85	93.30	1,779.81	1,644.70	6,411.40	6,304.07	107.33	59.737		
15,000.00	7,870.00	16,530.00	7,789.95	104.26	159.85	93.30	1,779.81	1,644.70	6,509.45	6,402.52	106.94	60.873		
15,100.00	7,870.00	16,530.00	7,789.95	105.82	159.85	93.30	1,779.81	1,644.70	6,607.56	6,501.01	106.56	62.009		
15,200.00	7,870.00	16,530.00	7,789.95	107.38	159.85	93.30	1,779.81	1,644.70	6,705.73	6,599.54	106.19	63.146		
15,300.00	7,870.00	16,530.00	7,789.95	108.95	159.85	93.30	1,779.81	1,644.70	6,803.95	6,698.11	105.84	64.284		
15,400.00	7,870.00	16,530.00	7,789.95	110.52	159.85	93.30	1,779.81	1,644.70	6,902.22	6,796.72	105.50	65.422		
15,500.00	7,870.00	16,530.00	7,789.95	112.10	159.85	93.30	1,779.81	1,644.70	7,000.54	6,895.36	105.17	66.561		
15,600.00	7,870.00	16,530.00	7,789.95	113.69	159.85	93.30	1,779.81	1,644.70	7,098.91	6,994.05	104.86	67.700		
15,700.00	7,870.00	16,530.00	7,789.95	115.28	159.85	93.30	1,779.81	1,644.70	7,197.32	7,092.77	104.55	68.840		
15,800.00	7,870.00	16,530.00	7,789.95	116.87	159.85	93.30	1,779.81	1,644.70	7,295.77	7,191.52	104.26	69.980		
15,900.00	7,870.00	16,530.00	7,789.95	118.47	159.85	93.30	1,779.81	1,644.70	7,394.27	7,290.30	103.97	71.119		
16,000.00	7,870.00	16,530.00	7,789.95	120.07	159.85	93.30	1,779.81	1,644.70	7,492.80	7,389.11	103.69	72.259		
16,100.00	7,870.00	16,530.00	7,789.95	121.68	159.85	93.30	1,779.81	1,644.70	7,591.38	7,487.95	103.43	73.399		
16,200.00	7,870.00	16,530.00	7,789.95	123.30	159.85	93.30	1,779.81	1,644.70	7,689.99	7,586.82	103.17	74.539		
16,300.00	7,870.00	16,530.00	7,789.95	124.91	159.85	93.30	1,779.81	1,644.70	7,788.64	7,685.72	102.92	75.678		
16,400.00	7,870.00	16,530.00	7,789.95	126.53	159.85	93.30	1,779.81	1,644.70	7,887.32	7,784.64	102.68	76.818		
16,500.00	7,870.00	16,530.00	7,789.95	128.16	159.85	93.30	1,779.81	1,644.70	7,986.03	7,883.59	102.44	77.957		
16,600.00	7,870.00	16,530.00	7,789.95	129.79	159.85	93.30	1,779.81	1,644.70	8,084.78	7,982.56	102.22	79.095		
16,700.00	7,870.00	16,530.00	7,789.95	131.42	159.85	93.30	1,779.81	1,644.70	8,183.55	8,081.56	102.00	80.234		
16,800.00	7,870.00	16,530.00	7,789.95	133.05	159.85	93.30	1,779.81	1,644.70	8,282.36	8,180.57	101.78	81.371		
16,900.00	7,870.00	16,530.00	7,789.95	134.69	159.85	93.30	1,779.81	1,644.70	8,381.19	8,279.61	101.58	82.509		
17,000.00	7,870.00	16,530.00	7,789.95	136.33	159.85	93.30	1,779.81	1,644.70	8,480.05	8,378.67	101.38	83.645		
17,100.00	7,870.00	16,530.00	7,789.95	137.97	159.85	93.30	1,779.81	1,644.70	8,578.94	8,477.75	101.19	84.781		
17,200.00	7,870.00	16,530.00	7,789.95	139.62	159.85	93.30	1,779.81	1,644.70	8,677.85	8,576.85	101.00	85.917		
17,300.00	7,870.00	16,530.00	7,789.95	141.27	159.85	93.30	1,779.81	1,644.70	8,776.79	8,675.96	100.82	87.051		
17,400.00	7,870.00	16,530.00	7,789.95	142.92	159.85	93.30	1,779.81	1,644.70	8,875.75	8,775.10	100.65	88.185		
17,500.00	7,870.00	16,530.00	7,789.95	144.58	159.85	93.30	1,779.81	1,644.70	8,974.73	8,874.25	100.48	89.318		
17,600.00	7,870.00	16,530.00	7,789.95	146.23	159.85	93.30	1,779.81	1,644.70	9,073.74	8,973.42	100.32	90.450		
17,700.00	7,870.00	16,530.00	7,789.95	147.89	159.85	93.30	1,779.81	1,644.70	9,172.77	9,072.61	100.16	91.581		
17,800.00	7,870.00	16,530.00	7,789.95	149.56	159.85	93.30	1,779.81	1,644.70	9,271.82	9,171.81	100.01	92.711		
17,900.00	7,870.00	16,530.00	7,789.95	151.22	159.85	93.30	1,779.81	1,644.70	9,370.89	9,271.03	99.86	93.841		
18,000.00	7,870.00	16,530.00	7,789.95	152.89	159.85	93.30	1,779.81	1,644.70	9,469.97	9,370.26	99.72	94.969		
18,100.00	7,870.00	16,530.00	7,789.95	154.55	159.85	93.30	1,779.81	1,644.70	9,569.08	9,469.50	99.58	96.096		
18,200.00	7,870.00	16,530.00	7,789.95	156.22	159.85	93.30	1,779.81	1,644.70	9,668.21	9,568.76	99.44	97.222		
18,300.00	7,870.00	16,530.00	7,789.95	157.90	159.85	93.30	1,779.81	1,644.70	9,767.35	9,668.04	99.32	98.347		
18,400.00	7,870.00	16,530.00	7,789.95	159.57	159.85	93.30	1,779.81	1,644.70	9,866.51	9,767.32	99.19	99.471		
18,500.00	7,870.00	16,530.00	7,789.95	161.25	159.85	93.30	1,779.81	1,644.70	9,965.69	9,866.62	99.07	100.593		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.95	786.89	-1,081.06	1,337.17					
100.00	100.00	83.75	83.75	0.13	0.13	-53.95	786.92	-1,081.20	1,337.25	1,336.99	0.27	5,025.292		
200.00	200.00	178.92	178.92	0.49	0.28	-53.96	787.02	-1,081.71	1,337.75	1,336.98	0.77	1,728.599 ES		
300.00	300.00	276.06	276.06	0.85	0.62	-53.97	787.25	-1,082.49	1,338.54	1,337.07	1.47	910.374		
400.00	400.00	374.32	374.31	1.21	0.97	-53.98	787.68	-1,083.38	1,339.53	1,337.35	2.18	614.234		
500.00	500.00	480.21	480.19	1.57	1.35	-53.99	788.06	-1,084.16	1,340.33	1,337.41	2.92	459.230		
600.00	600.00	560.97	560.95	1.93	1.64	-53.99	788.37	-1,084.81	1,341.30	1,337.73	3.57	376.047		
700.00	700.00	615.41	615.36	2.29	1.84	-53.99	789.50	-1,086.29	1,344.84	1,340.72	4.12	326.337		
800.00	800.00	654.00	653.85	2.64	1.98	-53.97	791.56	-1,088.12	1,352.25	1,347.63	4.61	293.156		
900.00	900.00	726.77	726.18	3.00	2.25	-53.85	798.06	-1,092.57	1,362.65	1,357.42	5.22	260.855		
1,000.00	1,000.00	800.80	799.47	3.36	2.53	-53.68	807.11	-1,097.82	1,375.57	1,369.73	5.84	235.520		
1,100.00	1,099.98	883.65	881.31	3.72	2.85	-107.86	818.17	-1,104.42	1,390.45	1,383.96	6.49	214.347		
1,200.00	1,199.84	970.51	966.97	4.07	3.21	-107.49	830.55	-1,111.76	1,407.34	1,400.19	7.15	196.788		
1,300.00	1,299.45	1,079.49	1,074.34	4.43	3.66	-107.20	846.82	-1,120.86	1,425.62	1,417.70	7.92	180.112		
1,400.00	1,398.70	1,183.93	1,177.30	4.80	4.11	-106.99	862.78	-1,127.98	1,443.88	1,435.21	8.67	166.484		
1,500.00	1,497.47	1,286.17	1,278.20	5.18	4.54	-106.93	877.74	-1,135.15	1,462.93	1,453.49	9.44	155.039		
1,600.00	1,595.62	1,393.86	1,384.52	5.57	5.00	-107.03	892.96	-1,142.96	1,482.98	1,472.74	10.24	144.831		
1,700.00	1,693.06	1,521.47	1,510.90	6.00	5.54	-107.38	909.22	-1,149.82	1,501.64	1,490.49	11.15	134.691		
1,800.00	1,789.64	1,616.72	1,605.26	6.45	5.93	-107.64	921.25	-1,154.56	1,521.28	1,509.33	11.95	127.328		
1,900.00	1,885.27	1,705.73	1,693.50	6.94	6.30	-107.96	931.76	-1,159.73	1,542.40	1,529.65	12.75	120.992		
2,000.00	1,979.82	1,794.27	1,781.32	7.47	6.66	-108.41	941.02	-1,166.13	1,565.34	1,551.76	13.58	115.306		
2,100.00	2,073.17	1,904.12	1,890.30	8.05	7.11	-109.14	952.44	-1,173.80	1,589.61	1,575.08	14.53	109.381		
2,200.00	2,165.21	1,987.11	1,972.62	8.67	7.46	-109.59	961.84	-1,178.74	1,615.16	1,599.75	15.42	104.775		
2,300.00	2,255.84	2,100.69	2,085.27	9.35	7.92	-110.44	974.94	-1,184.66	1,641.92	1,625.45	16.48	99.644		
2,400.00	2,344.94	2,187.64	2,171.54	10.09	8.28	-110.99	985.17	-1,188.52	1,670.03	1,652.57	17.46	95.627		
2,500.00	2,432.39	2,268.01	2,251.22	10.89	8.61	-111.48	994.86	-1,192.32	1,700.41	1,681.95	18.46	92.109		
2,519.29	2,449.07	2,285.25	2,268.32	11.05	8.68	-111.60	996.92	-1,193.18	1,706.53	1,687.87	18.67	91.426		
2,600.00	2,518.69	2,356.94	2,339.44	11.74	8.98	-112.61	1,005.11	-1,196.91	1,732.53	1,713.01	19.52	88.737		
2,700.00	2,604.95	2,442.74	2,424.60	12.62	9.33	-113.80	1,014.54	-1,201.59	1,765.52	1,744.94	20.58	85.799		
2,800.00	2,691.22	2,535.96	2,517.08	13.52	9.71	-115.02	1,025.27	-1,206.24	1,799.11	1,777.44	21.67	83.015		
2,900.00	2,777.48	2,631.07	2,611.48	14.43	10.10	-116.24	1,035.99	-1,210.65	1,833.07	1,810.29	22.78	80.479		
3,000.00	2,863.75	2,724.51	2,704.29	15.35	10.47	-117.40	1,046.02	-1,214.78	1,867.34	1,843.47	23.87	78.230		
3,100.00	2,950.01	2,815.14	2,794.26	16.28	10.84	-118.47	1,056.37	-1,218.29	1,902.04	1,877.09	24.95	76.238		
3,200.00	3,036.27	2,909.67	2,888.12	17.22	11.22	-119.54	1,067.05	-1,221.79	1,937.18	1,911.14	26.04	74.386		
3,300.00	3,122.54	2,987.33	2,965.31	18.17	11.53	-120.42	1,075.03	-1,224.76	1,972.71	1,945.67	27.04	72.960		
3,400.00	3,208.80	3,049.12	3,026.69	19.13	11.78	-121.11	1,081.42	-1,227.80	2,009.72	1,981.78	27.94	71.933		
3,500.00	3,295.07	3,104.53	3,081.65	20.09	12.01	-121.71	1,087.66	-1,231.19	2,048.49	2,019.70	28.79	71.151		
3,600.00	3,381.33	3,177.75	3,154.12	21.05	12.32	-122.46	1,096.66	-1,236.41	2,088.83	2,059.10	29.74	70.245		
3,700.00	3,467.59	3,278.84	3,254.22	22.02	12.75	-123.47	1,108.85	-1,243.58	2,129.59	2,098.75	30.84	69.055		
3,800.00	3,553.86	3,385.94	3,360.49	22.99	13.19	-124.53	1,120.22	-1,250.46	2,169.88	2,137.92	31.96	67.895		
3,900.00	3,640.12	3,505.50	3,479.28	23.97	13.67	-125.67	1,132.20	-1,256.58	2,209.33	2,176.19	33.14	66.669		
4,000.00	3,726.38	3,579.00	3,552.28	24.95	13.96	-126.34	1,140.13	-1,260.00	2,249.03	2,214.98	34.05	66.042		
4,100.00	3,812.65	3,644.84	3,617.57	25.93	14.24	-126.90	1,147.81	-1,263.47	2,289.79	2,254.87	34.92	65.571		
4,200.00	3,898.91	3,721.85	3,693.89	26.91	14.56	-127.54	1,157.06	-1,268.04	2,331.51	2,295.67	35.85	65.042		
4,300.00	3,985.18	3,831.75	3,802.93	27.90	15.01	-128.45	1,169.15	-1,274.57	2,373.45	2,336.49	36.96	64.217		
4,400.00	4,071.44	3,918.52	3,889.14	28.88	15.36	-129.16	1,177.78	-1,279.27	2,415.07	2,377.15	37.92	63.693		
4,500.00	4,157.70	3,993.59	3,963.69	29.87	15.66	-129.76	1,185.52	-1,283.48	2,457.23	2,418.43	38.80	63.331		
4,600.00	4,243.97	4,130.02	4,099.33	30.86	16.20	-130.82	1,198.31	-1,290.37	2,499.13	2,459.09	40.04	62.422		
4,700.00	4,330.23	4,214.62	4,183.62	31.85	16.53	-131.49	1,204.67	-1,293.91	2,540.33	2,499.39	40.94	62.047		
4,800.00	4,416.49	4,283.00	4,251.67	32.84	16.79	-132.00	1,210.54	-1,297.02	2,582.29	2,540.54	41.75	61.846		
4,900.00	4,502.76	4,351.51	4,319.78	33.84	17.07	-132.49	1,217.02	-1,300.54	2,625.13	2,582.57	42.56	61.676		
5,000.00	4,589.02	4,428.68	4,396.47	34.83	17.38	-133.02	1,224.48	-1,304.92	2,668.71	2,625.29	43.42	61.460		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	4,507.60	4,474.85	35.82	17.70	-133.54	1,232.45	-1,309.53	2,712.73	2,668.44	44.29	61.251		
5,200.00	4,761.55	4,582.34	4,549.05	36.82	18.00	-134.03	1,240.07	-1,314.18	2,757.30	2,712.17	45.12	61.105		
5,300.00	4,847.81	4,660.50	4,626.62	37.82	18.32	-134.51	1,248.26	-1,319.29	2,802.38	2,756.40	45.98	60.949		
5,400.00	4,934.08	4,801.14	4,766.05	38.81	18.90	-135.31	1,264.82	-1,327.17	2,846.94	2,799.67	47.27	60.229		
5,500.00	5,020.34	4,899.89	4,863.82	39.81	19.32	-135.81	1,278.12	-1,331.28	2,890.49	2,842.20	48.29	59.859		
5,600.00	5,106.60	4,970.96	4,934.16	40.81	19.62	-136.16	1,287.79	-1,334.35	2,934.37	2,885.26	49.12	59.741		
5,700.00	5,192.87	5,050.48	5,012.77	41.81	19.96	-136.53	1,299.08	-1,338.32	2,978.98	2,928.98	50.01	59.573		
5,800.00	5,279.13	5,159.19	5,120.50	42.81	20.41	-137.06	1,312.72	-1,343.30	3,023.28	2,972.20	51.08	59.190		
5,900.00	5,365.40	5,249.92	5,210.60	43.81	20.78	-137.52	1,322.65	-1,347.18	3,067.41	3,015.40	52.01	58.983		
6,000.00	5,451.66	5,338.78	5,298.84	44.81	21.14	-137.95	1,332.43	-1,350.95	3,111.66	3,058.74	52.92	58.803		
6,100.00	5,537.92	5,418.56	5,378.04	45.81	21.47	-138.33	1,341.50	-1,354.32	3,156.06	3,102.29	53.77	58.696		
6,200.00	5,624.19	5,487.43	5,446.30	46.81	21.75	-138.63	1,350.00	-1,357.52	3,200.96	3,146.41	54.55	58.680		
6,300.00	5,710.45	5,552.00	5,510.25	47.81	22.02	-138.90	1,358.25	-1,360.98	3,246.60	3,191.30	55.30	58.710		
6,400.00	5,796.72	5,650.62	5,607.97	48.81	22.44	-139.32	1,370.37	-1,366.44	3,292.51	3,236.22	56.29	58.495		
6,500.00	5,882.98	5,727.27	5,684.03	49.81	22.75	-139.65	1,378.85	-1,370.66	3,338.49	3,281.39	57.10	58.467		
6,600.00	5,969.24	5,775.54	5,731.92	50.82	22.95	-139.85	1,384.10	-1,373.62	3,385.16	3,327.45	57.71	58.662		
6,700.00	6,055.51	5,823.83	5,779.73	51.82	23.15	-140.05	1,389.87	-1,377.17	3,432.93	3,374.62	58.31	58.878		
6,800.00	6,141.77	5,920.18	5,875.04	52.82	23.56	-140.42	1,401.86	-1,384.63	3,481.17	3,421.89	59.28	58.728		
6,900.00	6,228.03	6,039.34	5,993.16	53.83	24.06	-140.89	1,415.20	-1,392.83	3,528.71	3,468.31	60.40	58.425		
7,000.00	6,314.30	6,114.92	6,068.16	54.83	24.37	-141.19	1,423.12	-1,397.84	3,576.20	3,515.02	61.19	58.449		
7,100.00	6,400.56	6,178.56	6,131.28	55.83	24.63	-141.43	1,429.82	-1,402.40	3,624.26	3,562.37	61.88	58.567		
7,200.00	6,486.83	6,246.15	6,198.27	56.84	24.92	-141.68	1,437.14	-1,407.63	3,672.87	3,610.26	62.61	58.664		
7,300.00	6,573.09	6,351.42	6,302.57	57.84	25.36	-142.06	1,448.79	-1,415.86	3,721.67	3,658.05	63.62	58.496		
7,400.00	6,659.35	6,481.52	6,431.74	58.84	25.89	-142.54	1,461.65	-1,424.70	3,769.69	3,704.89	64.80	58.175		
7,500.00	6,745.62	6,649.01	6,598.02	59.85	26.57	-143.11	1,479.74	-1,433.33	3,816.32	3,750.08	66.25	57.609		
7,600.00	6,831.88	6,729.69	6,678.30	60.85	26.88	-143.40	1,486.96	-1,436.61	3,862.22	3,795.17	67.05	57.605		
7,700.00	6,918.14	6,800.20	6,748.50	61.86	27.15	-143.66	1,492.73	-1,439.68	3,908.48	3,840.72	67.77	57.676		
7,800.00	7,004.41	6,873.29	6,821.28	62.86	27.44	-143.92	1,498.64	-1,443.13	3,955.17	3,886.67	68.50	57.739		
7,900.00	7,090.67	6,968.49	6,916.11	63.87	27.80	-144.27	1,505.56	-1,447.67	4,002.05	3,932.67	69.37	57.689		
8,000.00	7,176.94	7,057.02	7,004.43	64.87	28.12	-144.61	1,510.29	-1,451.58	4,048.84	3,978.66	70.17	57.697		
8,027.52	7,200.68	7,078.95	7,026.32	65.15	28.20	-144.70	1,511.26	-1,452.53	4,061.73	3,991.36	70.37	57.717		
8,050.00	7,220.18	7,095.46	7,042.80	65.37	28.25	-149.35	1,511.81	-1,453.24	4,072.31	4,001.78	70.52	57.745		
8,100.00	7,264.25	7,132.39	7,079.69	65.85	28.38	-160.66	1,512.41	-1,454.83	4,095.98	4,025.15	70.83	57.828		
8,150.00	7,308.99	7,157.00	7,104.28	66.28	28.46	-173.08	1,512.34	-1,455.87	4,119.72	4,048.69	71.04	57.995		
8,200.00	7,354.07	7,157.00	7,104.28	66.67	28.46	173.84	1,512.34	-1,455.87	4,143.64	4,072.57	71.07	58.306		
8,250.00	7,399.14	7,157.00	7,104.28	67.02	28.46	160.78	1,512.34	-1,455.87	4,167.63	4,096.56	71.07	58.645		
8,300.00	7,443.85	7,194.81	7,142.01	67.32	28.56	148.60	1,510.86	-1,457.88	4,190.84	4,119.61	71.24	58.830		
8,350.00	7,487.88	7,205.93	7,153.07	67.56	28.59	137.64	1,510.02	-1,458.62	4,213.99	4,142.75	71.24	59.152		
8,400.00	7,530.87	7,246.00	7,192.74	67.75	28.70	128.26	1,505.47	-1,461.87	4,236.97	4,165.61	71.36	59.374		
8,450.00	7,572.51	7,246.00	7,192.74	67.90	28.70	120.10	1,505.47	-1,461.87	4,258.61	4,187.34	71.27	59.752		
8,500.00	7,612.48	7,246.00	7,192.74	68.00	28.70	113.15	1,505.47	-1,461.87	4,279.50	4,208.34	71.16	60.135		
8,550.00	7,650.47	7,246.00	7,192.74	68.05	28.70	107.23	1,505.47	-1,461.87	4,299.49	4,228.44	71.05	60.517		
8,600.00	7,686.20	7,246.00	7,192.74	68.06	28.70	102.20	1,505.47	-1,461.87	4,318.44	4,247.52	70.92	60.893		
8,650.00	7,719.39	7,246.00	7,192.74	68.03	28.70	97.92	1,505.47	-1,461.87	4,336.22	4,265.43	70.79	61.257		
8,700.00	7,749.79	7,282.38	7,228.42	67.97	28.78	94.64	1,499.40	-1,465.51	4,352.22	4,281.41	70.81	61.461		
8,750.00	7,777.17	7,292.67	7,238.44	67.87	28.80	91.68	1,497.38	-1,466.64	4,367.01	4,296.28	70.73	61.741		
8,800.00	7,801.32	7,302.44	7,247.93	67.74	28.82	89.23	1,495.33	-1,467.76	4,380.25	4,309.60	70.65	61.995		
8,850.00	7,822.06	7,335.00	7,279.30	67.59	28.89	87.46	1,487.61	-1,471.79	4,392.08	4,321.40	70.68	62.143		
8,900.00	7,839.23	7,335.00	7,279.30	67.41	28.89	85.76	1,487.61	-1,471.79	4,401.92	4,331.33	70.59	62.359		
8,950.00	7,852.69	7,335.00	7,279.30	67.22	28.89	84.43	1,487.61	-1,471.79	4,410.09	4,339.57	70.52	62.536		
9,000.00	7,862.35	7,335.29	7,279.58	67.00	28.89	83.45	1,487.53	-1,471.83	4,416.54	4,346.07	70.47	62.670		
9,050.00	7,868.14	7,356.78	7,300.12	66.78	28.92	83.06	1,481.88	-1,474.62	4,421.18	4,350.66	70.52	62.697		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,098.65	7,870.00	7,905.08	7,754.07	66.55	29.22	88.65	1,201.49	-1,509.93	4,422.00	4,351.43	70.58	62.655		
9,100.00	7,870.00	7,905.84	7,754.52	66.55	29.22	88.66	1,200.87	-1,509.93	4,421.97	4,351.40	70.58	62.656		
9,200.00	7,870.00	7,959.00	7,784.60	66.09	29.19	89.05	1,157.05	-1,509.88	4,420.20	4,349.71	70.49	62.707		
9,300.00	7,870.00	8,015.21	7,814.08	65.65	29.16	89.43	1,109.20	-1,510.15	4,419.64	4,349.19	70.45	62.736		
9,345.17	7,870.00	8,194.51	7,887.37	65.46	29.16	90.38	946.07	-1,508.39	4,418.70	4,348.68	70.01	63.111		
9,400.00	7,870.00	8,226.00	7,895.81	65.24	29.18	90.49	915.74	-1,507.69	4,417.39	4,347.37	70.02	63.086		
9,500.00	7,870.00	8,282.84	7,908.20	64.85	29.25	90.65	860.28	-1,506.83	4,415.78	4,345.66	70.12	62.978		
9,600.00	7,870.00	8,373.76	7,921.46	64.48	29.44	90.82	770.37	-1,506.41	4,415.14	4,344.93	70.21	62.885		
9,700.00	7,870.00	8,457.96	7,926.77	64.13	29.70	90.89	686.36	-1,505.93	4,414.36	4,343.94	70.42	62.687		
9,800.00	7,870.00	8,641.41	7,928.77	63.80	30.57	90.92	502.96	-1,503.17	4,412.16	4,341.35	70.80	62.315		
9,900.00	7,870.00	8,671.00	7,928.59	63.50	30.73	90.92	473.37	-1,502.66	4,410.47	4,339.21	71.26	61.896		
9,970.95	7,870.00	8,709.47	7,928.14	63.29	30.97	90.91	434.91	-1,502.46	4,410.01	4,338.35	71.66	61.540		
10,000.00	7,870.00	8,719.03	7,927.99	63.22	31.03	90.91	425.35	-1,502.51	4,410.07	4,338.26	71.81	61.414		
10,100.00	7,870.00	8,760.00	7,927.22	62.96	31.29	90.90	384.39	-1,503.23	4,411.30	4,338.91	72.39	60.940		
10,200.00	7,870.00	8,792.41	7,926.73	62.72	31.52	90.89	352.00	-1,504.26	4,413.93	4,340.93	73.01	60.460		
10,300.00	7,870.00	8,849.00	7,926.88	62.50	31.92	90.89	295.47	-1,506.81	4,417.94	4,344.19	73.75	59.903		
10,400.00	7,870.00	9,127.79	7,938.59	62.31	34.30	91.04	17.04	-1,512.55	4,418.88	4,342.94	75.94	58.187		
10,500.00	7,870.00	9,242.90	7,940.88	62.15	35.43	91.07	-98.04	-1,513.04	4,419.01	4,341.56	77.46	57.052		
10,600.00	7,870.00	9,380.48	7,943.13	62.01	36.87	91.10	-235.61	-1,512.79	4,418.54	4,339.21	79.32	55.704		
10,700.00	7,870.00	9,490.98	7,945.18	61.90	38.10	91.13	-346.08	-1,511.96	4,417.48	4,336.36	81.12	54.577		
10,800.00	7,870.00	9,601.89	7,946.98	61.82	39.40	91.15	-456.98	-1,510.81	4,416.14	4,333.09	83.05	53.175		
10,900.00	7,870.00	9,735.06	7,948.00	61.78	41.01	91.17	-590.13	-1,509.02	4,414.52	4,329.17	85.35	51.722		
11,000.00	7,870.00	9,783.73	7,948.05	61.77	41.63	91.17	-638.79	-1,508.37	4,412.89	4,326.12	86.76	50.861		
11,089.95	7,870.00	9,829.00	7,948.24	61.80	42.20	91.17	-684.06	-1,508.34	4,412.48	4,324.41	88.08	50.098		
11,100.00	7,870.00	9,829.00	7,948.24	61.81	42.20	91.17	-684.06	-1,508.34	4,412.50	4,324.34	88.16	50.051		
11,200.00	7,870.00	9,920.73	7,949.28	61.90	43.38	91.19	-775.78	-1,508.94	4,412.82	4,322.63	90.20	48.924		
11,300.00	7,870.00	10,025.96	7,950.37	62.03	44.77	91.20	-881.00	-1,509.68	4,413.22	4,320.73	92.49	47.713		
11,400.00	7,870.00	10,134.60	7,950.41	62.23	46.24	91.20	-989.63	-1,510.14	4,413.29	4,318.37	94.92	46.495		
11,500.00	7,870.00	10,216.56	7,949.12	62.50	47.37	91.18	-1,071.59	-1,510.68	4,413.59	4,316.56	97.02	45.490		
11,600.00	7,870.00	10,306.82	7,948.83	62.84	48.63	91.18	-1,161.84	-1,511.64	4,414.29	4,314.99	99.31	44.451		
11,700.00	7,870.00	10,425.57	7,948.55	63.25	50.32	91.18	-1,280.59	-1,512.67	4,414.82	4,312.73	102.09	43.244		
11,800.00	7,870.00	10,542.75	7,947.66	63.76	52.02	91.16	-1,397.76	-1,513.21	4,414.92	4,310.00	104.92	42.077		
11,900.00	7,870.00	10,659.66	7,947.21	64.34	53.74	91.16	-1,514.67	-1,513.37	4,414.73	4,306.90	107.83	40.942		
12,000.00	7,870.00	10,821.22	7,950.97	65.01	56.16	91.21	-1,676.17	-1,511.86	4,413.46	4,301.89	111.57	39.557		
12,100.00	7,870.00	10,884.36	7,951.98	65.77	57.11	91.22	-1,739.30	-1,511.14	4,412.02	4,298.34	113.69	38.809		
12,200.00	7,870.00	11,017.46	7,951.79	66.61	59.15	91.22	-1,872.39	-1,509.96	4,410.85	4,293.80	117.05	37.684		
12,300.00	7,870.00	11,118.77	7,950.80	67.51	60.71	91.21	-1,973.68	-1,508.20	4,408.75	4,288.85	119.90	36.770		
12,400.00	7,870.00	12,400.00	7,952.77	68.49	80.77	91.23	-2,103.77	-1,505.84	4,406.65	4,265.26	141.38	31.168		
12,500.00	7,870.00	11,316.36	7,954.34	69.52	63.80	91.25	-2,171.19	-1,504.16	4,404.09	4,278.45	125.64	35.053		
12,600.00	7,870.00	11,388.67	7,955.47	70.61	64.94	91.27	-2,243.49	-1,503.60	4,402.91	4,274.85	128.06	34.383		
12,700.00	7,870.00	11,538.36	7,956.73	71.75	67.32	91.29	-2,393.15	-1,501.37	4,401.03	4,269.07	131.96	33.352		
12,800.00	7,870.00	11,596.95	7,957.92	72.93	68.25	91.30	-2,451.72	-1,500.49	4,399.25	4,265.09	134.16	32.791		
12,900.00	7,870.00	11,717.64	7,960.19	74.14	70.19	91.33	-2,572.38	-1,499.20	4,397.92	4,260.34	137.58	31.966		
13,000.00	7,870.00	11,848.49	7,959.27	75.39	72.30	91.32	-2,703.20	-1,496.62	4,395.54	4,254.32	141.22	31.125		
13,100.00	7,870.00	11,921.63	7,957.04	76.67	73.49	91.29	-2,776.29	-1,495.25	4,393.28	4,249.53	143.76	30.561		
13,200.00	7,870.00	11,968.00	7,955.32	77.98	74.24	91.27	-2,822.62	-1,494.72	4,391.89	4,246.12	145.76	30.130		
13,258.20	7,870.00	11,997.79	7,954.19	78.75	74.73	91.26	-2,852.39	-1,494.66	4,391.61	4,244.63	146.98	29.878		
13,300.00	7,870.00	12,012.57	7,953.67	79.31	74.97	91.25	-2,867.16	-1,494.77	4,391.74	4,244.02	147.72	29.730		
13,400.00	7,870.00	12,057.00	7,952.25	80.67	75.69	91.23	-2,911.56	-1,495.63	4,393.12	4,243.45	149.66	29.353		
13,500.00	7,870.00	12,114.11	7,950.55	82.04	76.62	91.21	-2,968.62	-1,497.38	4,395.65	4,243.79	151.86	28.946		
13,600.00	7,870.00	12,185.51	7,948.57	83.43	77.78	91.18	-3,039.94	-1,499.91	4,398.81	4,244.46	154.35	28.499		
13,700.00	7,870.00	12,340.99	7,946.28	84.84	80.31	91.15	-3,195.30	-1,505.49	4,402.22	4,243.57	158.65	27.747		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,800.00	7,870.00	12,470.09	7,946.87	86.27	82.43	91.16	-3,324.35	-1,508.82	4,404.57	4,242.14	162.43	27.117		
13,900.00	7,870.00	12,623.78	7,952.27	87.71	84.97	91.23	-3,477.93	-1,509.80	4,404.62	4,237.86	166.77	26.412		
14,000.00	7,870.00	12,680.00	7,955.27	89.16	85.91	91.27	-3,534.07	-1,510.61	4,405.68	4,236.65	169.03	26.064		
14,100.00	7,870.00	12,722.89	7,957.32	90.63	86.62	91.29	-3,576.89	-1,511.71	4,407.84	4,236.85	170.99	25.779		
14,200.00	7,870.00	12,798.37	7,958.93	92.10	87.87	91.31	-3,652.31	-1,514.27	4,410.90	4,237.25	173.65	25.401		
14,300.00	7,870.00	12,909.16	7,958.70	93.59	89.71	91.31	-3,763.03	-1,518.01	4,413.93	4,236.83	177.10	24.923		
14,400.00	7,870.00	13,038.33	7,957.26	95.09	91.85	91.29	-3,892.13	-1,522.02	4,416.70	4,235.73	180.97	24.406		
14,500.00	7,870.00	13,221.75	7,952.69	96.60	94.92	91.23	-4,075.44	-1,525.97	4,418.79	4,232.75	186.04	23.752		
14,600.00	7,870.00	13,292.88	7,952.73	98.11	96.11	91.23	-4,146.57	-1,526.74	4,419.54	4,230.87	188.67	23.425		
14,700.00	7,870.00	13,359.54	7,953.41	99.64	97.23	91.24	-4,213.22	-1,527.91	4,420.98	4,229.79	191.19	23.123		
14,800.00	7,870.00	13,607.95	7,956.57	101.17	101.43	91.28	-4,461.58	-1,528.46	4,420.53	4,222.79	197.75	22.355		
14,900.00	7,870.00	13,714.34	7,960.59	102.71	103.23	91.33	-4,567.88	-1,526.99	4,418.90	4,217.70	201.20	21.963		
15,000.00	7,870.00	15,000.00	7,966.01	104.26	125.18	91.40	-4,751.30	-1,523.00	4,416.60	4,191.43	225.17	19.615		
15,100.00	7,870.00	13,968.78	7,967.08	105.82	107.57	91.42	-4,822.13	-1,520.57	4,413.02	4,203.99	209.03	21.112		
15,200.00	7,870.00	14,017.00	7,968.03	107.38	108.39	91.43	-4,870.34	-1,519.85	4,410.96	4,199.71	211.25	20.880		
15,300.00	7,870.00	14,049.24	7,968.79	108.95	108.94	91.44	-4,902.56	-1,519.81	4,410.18	4,197.09	213.09	20.696		
15,322.18	7,870.00	14,062.97	7,969.11	109.30	109.18	91.44	-4,916.29	-1,519.83	4,410.16	4,196.52	213.64	20.643		
15,400.00	7,870.00	14,112.83	7,970.30	110.52	110.02	91.46	-4,966.14	-1,520.14	4,410.42	4,194.81	215.61	20.456		
15,500.00	7,870.00	14,195.00	7,972.05	112.10	111.42	91.48	-5,048.28	-1,521.07	4,411.26	4,192.72	218.54	20.185		
15,600.00	7,870.00	14,289.66	7,972.95	113.69	113.03	91.49	-5,142.93	-1,522.40	4,412.36	4,190.60	221.75	19.898		
15,700.00	7,870.00	14,364.41	7,973.46	115.28	114.31	91.50	-5,217.67	-1,523.74	4,413.82	4,189.31	224.51	19.660		
15,800.00	7,870.00	14,539.64	7,978.35	116.87	117.30	91.56	-5,392.81	-1,525.30	4,414.25	4,184.65	229.60	19.226		
15,900.00	7,870.00	14,640.00	7,980.33	118.47	119.02	91.59	-5,493.15	-1,525.15	4,413.82	4,180.85	232.97	18.946		
15,925.94	7,870.00	14,665.41	7,980.58	118.89	119.46	91.59	-5,518.55	-1,525.11	4,413.70	4,179.87	233.83	18.876		
15,929.96	7,870.00	14,666.86	7,980.60	118.95	119.48	91.59	-5,520.01	-1,525.12	4,413.71	4,179.80	233.91	18.869		
16,000.00	7,870.00	14,692.29	7,981.00	120.07	119.92	91.60	-5,545.43	-1,525.34	4,414.13	4,178.89	235.24	18.764		
16,100.00	7,870.00	14,730.00	7,981.85	121.68	120.56	91.61	-5,583.12	-1,526.15	4,415.95	4,178.82	237.13	18.622		
16,200.00	7,870.00	14,997.00	7,989.16	123.30	125.14	91.70	-5,849.94	-1,528.54	4,416.61	4,172.24	244.37	18.073		
16,300.00	7,870.00	15,066.79	7,989.78	124.91	126.34	91.71	-5,919.73	-1,527.90	4,415.47	4,168.40	247.08	17.871		
16,400.00	7,870.00	15,219.47	7,992.30	126.53	128.97	91.74	-6,072.37	-1,526.95	4,414.71	4,163.05	251.65	17.543		
16,500.00	7,870.00	15,264.00	7,993.18	128.16	129.74	91.76	-6,116.89	-1,526.16	4,413.16	4,159.36	253.80	17.388		
16,569.74	7,870.00	15,310.96	7,993.80	129.29	130.55	91.76	-6,163.84	-1,525.76	4,412.56	4,156.91	255.65	17.260		
16,600.00	7,870.00	15,320.47	7,993.87	129.79	130.71	91.76	-6,173.35	-1,525.81	4,412.63	4,156.43	256.19	17.224		
16,700.00	7,870.00	15,595.58	7,998.05	131.42	135.46	91.82	-6,448.35	-1,523.03	4,411.70	4,148.19	263.51	16.742		
16,800.00	7,870.00	15,677.69	7,999.95	133.05	136.89	91.85	-6,530.40	-1,520.54	4,408.40	4,141.86	266.54	16.539		
16,900.00	7,870.00	15,772.28	8,002.12	134.69	138.53	91.88	-6,624.92	-1,517.97	4,405.43	4,135.58	269.85	16.326		
17,000.00	7,870.00	15,856.22	8,005.91	136.33	139.98	91.93	-6,708.75	-1,515.74	4,402.59	4,129.67	272.92	16.131		
17,100.00	7,870.00	16,003.69	8,011.73	137.97	142.55	92.00	-6,856.04	-1,511.60	4,399.64	4,122.26	277.38	15.861		
17,200.00	7,870.00	16,087.10	8,014.02	139.62	144.00	92.04	-6,939.37	-1,508.70	4,395.96	4,115.51	280.45	15.674		
17,300.00	7,870.00	16,134.84	8,015.56	141.27	144.83	92.06	-6,987.07	-1,507.52	4,393.26	4,110.52	282.74	15.538		
17,400.00	7,870.00	16,189.54	8,017.78	142.92	145.78	92.09	-7,041.72	-1,506.78	4,391.69	4,106.55	285.14	15.402		
17,500.00	7,870.00	16,272.76	8,020.93	144.58	147.22	92.13	-7,124.88	-1,506.45	4,391.04	4,102.86	288.19	15.237		
17,600.00	7,870.00	16,410.43	8,024.90	146.23	149.62	92.18	-7,262.48	-1,504.82	4,389.52	4,097.04	292.48	15.008		
17,700.00	7,870.00	16,505.49	8,025.98	147.89	151.27	92.19	-7,357.53	-1,503.67	4,388.02	4,092.22	295.80	14.834		
17,800.00	7,870.00	16,590.08	8,025.72	149.56	152.74	92.19	-7,442.12	-1,502.88	4,386.75	4,087.86	298.88	14.677		
17,900.00	7,870.00	16,643.89	8,025.31	151.22	153.67	92.19	-7,495.92	-1,502.73	4,386.14	4,084.90	301.24	14.560		
17,903.42	7,870.00	16,645.57	8,025.31	151.28	153.70	92.19	-7,497.60	-1,502.74	4,386.13	4,084.82	301.31	14.557		
18,000.00	7,870.00	16,690.00	8,025.59	152.89	154.47	92.19	-7,542.03	-1,503.11	4,386.68	4,083.30	303.38	14.460		
18,100.00	7,870.00	16,756.60	8,026.40	154.55	155.62	92.20	-7,608.61	-1,504.30	4,388.20	4,082.22	305.98	14.341		
18,200.00	7,870.00	16,916.27	8,029.48	156.22	158.39	92.24	-7,768.23	-1,506.66	4,389.38	4,078.50	310.87	14.119		
18,300.00	7,870.00	17,047.89	8,034.05	157.90	160.68	92.30	-7,899.76	-1,507.44	4,389.82	4,074.76	315.07	13.933		
18,400.00	7,870.00	17,155.60	8,036.12	159.57	162.55	92.33	-8,007.45	-1,507.46	4,389.58	4,070.89	318.69	13.774		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,499.28	7,870.00	17,241.60	8,036.87	161.24	164.04	92.34	-8,093.45	-1,507.53	4,389.37	4,067.57	321.80	13.640	
18,500.00	7,870.00	17,242.09	8,036.87	161.25	164.05	92.34	-8,093.94	-1,507.53	4,389.37	4,067.55	321.82	13.639	
18,600.00	7,870.00	17,313.00	8,036.77	162.93	165.28	92.33	-8,164.85	-1,508.07	4,389.76	4,065.20	324.56	13.525	
18,700.00	7,870.00	17,451.96	8,034.25	164.60	167.70	92.30	-8,303.78	-1,508.93	4,389.96	4,061.03	328.94	13.346	
18,797.52	7,870.00	17,546.00	8,031.39	166.24	169.33	92.26	-8,397.77	-1,509.05	4,389.65	4,057.43	332.22	13.213 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.69	786.89	-1,070.98	1,329.03					
100.00	100.00	94.79	94.79	0.13	0.14	-53.70	786.71	-1,070.81	1,328.75	1,328.48	0.28	4,796.559		
200.00	200.00	195.54	195.54	0.49	0.41	-53.70	786.22	-1,070.35	1,328.10	1,327.20	0.90	1,472.222		
300.00	300.00	291.24	291.24	0.85	0.75	-53.70	785.93	-1,070.08	1,327.70	1,326.09	1.60	828.002		
400.00	400.00	391.20	391.20	1.21	1.11	-53.70	785.81	-1,069.92	1,327.50	1,325.18	2.32	572.481		
500.00	500.00	492.81	492.81	1.57	1.47	-53.70	785.74	-1,069.60	1,327.20	1,324.16	3.04	436.627		
543.50	543.50	537.01	537.01	1.72	1.63	-53.69	785.72	-1,069.40	1,327.03	1,323.68	3.35	395.748	CC, ES	
600.00	600.00	568.39	568.38	1.93	1.73	-53.69	786.02	-1,069.62	1,327.51	1,323.85	3.66	362.717		
700.00	700.00	635.16	635.12	2.29	1.96	-53.65	787.78	-1,070.58	1,330.24	1,325.99	4.24	313.555		
800.00	800.00	700.07	699.89	2.64	2.18	-53.54	791.84	-1,071.80	1,335.49	1,330.67	4.82	277.209		
900.00	900.00	763.00	762.50	3.00	2.40	-53.38	797.86	-1,073.60	1,343.48	1,338.09	5.39	249.440		
1,000.00	1,000.00	847.60	846.45	3.36	2.71	-53.12	807.86	-1,076.65	1,353.46	1,347.42	6.04	224.173		
1,100.00	1,099.98	941.09	939.10	3.72	3.06	-107.27	819.92	-1,080.02	1,364.66	1,357.93	6.73	202.920		
1,200.00	1,199.84	1,032.46	1,029.58	4.07	3.42	-106.89	832.21	-1,083.45	1,377.37	1,369.96	7.41	185.912		
1,300.00	1,299.45	1,122.61	1,118.72	4.43	3.78	-106.59	845.14	-1,087.03	1,391.79	1,383.69	8.10	171.907		
1,400.00	1,398.70	1,224.87	1,219.84	4.80	4.19	-106.42	859.69	-1,091.41	1,407.39	1,398.55	8.84	159.169		
1,500.00	1,497.47	1,328.89	1,322.86	5.18	4.61	-106.43	873.20	-1,096.26	1,423.51	1,413.90	9.61	148.139		
1,600.00	1,595.62	1,419.85	1,412.91	5.57	4.99	-106.47	885.46	-1,100.16	1,440.68	1,430.34	10.34	139.297		
1,700.00	1,693.06	1,505.07	1,496.98	6.00	5.35	-106.47	899.14	-1,102.98	1,459.66	1,448.58	11.08	131.748		
1,800.00	1,789.64	1,618.82	1,609.02	6.45	5.84	-106.67	918.43	-1,106.36	1,480.03	1,468.05	11.98	123.564		
1,900.00	1,885.27	1,709.85	1,698.74	6.94	6.23	-106.84	933.74	-1,108.07	1,500.52	1,487.71	12.81	117.144		
2,000.00	1,979.82	1,788.73	1,776.45	7.47	6.58	-106.99	947.14	-1,110.32	1,523.05	1,509.43	13.62	111.830		
2,100.00	2,073.17	1,925.41	1,911.17	8.05	7.17	-107.72	969.82	-1,114.04	1,546.72	1,531.98	14.74	104.919		
2,200.00	2,165.21	2,050.61	2,035.28	8.67	7.69	-108.58	986.22	-1,115.50	1,568.41	1,552.57	15.84	99.023		
2,300.00	2,255.84	2,137.88	2,121.91	9.35	8.04	-109.15	996.71	-1,116.63	1,591.40	1,574.59	16.80	94.705		
2,400.00	2,344.94	2,219.58	2,203.01	10.09	8.38	-109.70	1,006.51	-1,118.21	1,616.60	1,598.82	17.78	90.900		
2,500.00	2,432.39	2,306.05	2,288.81	10.89	8.73	-110.33	1,017.04	-1,120.26	1,644.11	1,625.28	18.83	87.323		
2,519.29	2,449.07	2,323.72	2,306.34	11.05	8.80	-110.48	1,019.15	-1,120.69	1,649.64	1,630.60	19.04	86.647		
2,600.00	2,518.69	2,394.41	2,376.53	11.74	9.08	-111.48	1,027.35	-1,122.54	1,673.17	1,653.26	19.91	84.050		
2,700.00	2,604.95	2,482.28	2,463.83	12.62	9.44	-112.71	1,036.98	-1,125.19	1,703.14	1,682.15	20.99	81.152		
2,800.00	2,691.22	2,571.41	2,552.40	13.52	9.79	-113.92	1,046.67	-1,127.85	1,733.86	1,711.78	22.07	78.546		
2,900.00	2,777.48	2,659.56	2,640.02	14.43	10.14	-115.11	1,055.78	-1,130.71	1,765.37	1,742.22	23.15	76.249		
3,000.00	2,863.75	2,783.41	2,763.24	15.35	10.63	-116.71	1,067.92	-1,133.62	1,796.76	1,772.36	24.40	73.640		
3,100.00	2,950.01	2,900.91	2,880.04	16.28	11.09	-118.10	1,080.63	-1,133.34	1,827.03	1,801.40	25.62	71.302		
3,200.00	3,036.27	2,972.55	2,951.08	17.22	11.38	-118.87	1,089.86	-1,132.27	1,857.61	1,830.98	26.63	69.745		
3,300.00	3,122.54	3,042.68	3,020.57	18.17	11.67	-119.61	1,099.30	-1,132.07	1,889.87	1,862.24	27.63	68.403		
3,400.00	3,208.80	3,127.29	3,104.42	19.13	12.02	-120.48	1,110.66	-1,132.43	1,923.21	1,894.52	28.69	67.034		
3,500.00	3,295.07	3,213.41	3,189.77	20.09	12.38	-121.34	1,122.05	-1,132.94	1,957.10	1,927.35	29.75	65.784		
3,600.00	3,381.33	3,322.87	3,298.34	21.05	12.82	-122.41	1,136.04	-1,133.16	1,991.00	1,960.07	30.93	64.374		
3,700.00	3,467.59	3,409.48	3,384.37	22.02	13.17	-123.26	1,145.99	-1,133.19	2,024.87	1,992.90	31.97	63.345		
3,800.00	3,553.86	3,472.81	3,447.29	22.99	13.42	-123.88	1,153.19	-1,133.79	2,059.94	2,027.07	32.86	62.684		
3,900.00	3,640.12	3,526.61	3,500.67	23.97	13.65	-124.38	1,159.82	-1,134.93	2,096.69	2,062.99	33.69	62.230		
4,000.00	3,726.38	3,586.95	3,560.33	24.95	13.90	-124.90	1,168.53	-1,136.98	2,135.30	2,100.75	34.55	61.803		
4,100.00	3,812.65	3,700.26	3,672.53	25.93	14.38	-125.87	1,183.89	-1,140.95	2,174.25	2,138.52	35.73	60.853		
4,200.00	3,898.91	3,802.43	3,774.00	26.91	14.79	-126.77	1,195.36	-1,143.90	2,212.51	2,175.70	36.81	60.106		
4,300.00	3,985.18	3,891.58	3,862.53	27.90	15.15	-127.52	1,205.62	-1,146.26	2,251.01	2,213.20	37.81	59.536		
4,400.00	4,071.44	3,981.95	3,952.10	28.88	15.53	-128.22	1,217.49	-1,148.26	2,289.76	2,250.94	38.82	58.981		
4,500.00	4,157.70	4,078.05	4,047.49	29.87	15.91	-128.97	1,228.82	-1,150.48	2,328.67	2,288.82	39.85	58.435		
4,600.00	4,243.97	4,168.19	4,137.20	30.86	16.27	-129.71	1,237.44	-1,152.65	2,367.62	2,326.80	40.82	58.005		
4,700.00	4,330.23	4,255.06	4,223.52	31.85	16.62	-130.36	1,246.97	-1,154.54	2,406.90	2,365.13	41.77	57.623		
4,800.00	4,416.49	4,337.14	4,305.00	32.84	16.95	-130.95	1,256.70	-1,156.31	2,446.57	2,403.88	42.69	57.307		
4,900.00	4,502.76	4,414.71	4,382.08	33.84	17.26	-131.50	1,265.21	-1,158.36	2,486.83	2,443.25	43.58	57.067		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,491.53	4,458.22	34.83	17.58	-132.00	1,275.15	-1,160.53	2,527.72	2,483.26	44.46	56.852		
5,100.00	4,675.29	4,597.17	4,562.94	35.82	18.02	-132.67	1,288.77	-1,163.39	2,568.73	2,523.19	45.54	56.409		
5,200.00	4,761.55	4,690.10	4,655.22	36.82	18.40	-133.26	1,299.46	-1,165.55	2,609.47	2,562.96	46.51	56.108		
5,300.00	4,847.81	4,760.88	4,725.34	37.82	18.69	-133.67	1,308.93	-1,167.30	2,650.74	2,603.39	47.34	55.991		
5,400.00	4,934.08	4,858.68	4,822.10	38.81	19.11	-134.21	1,322.94	-1,169.77	2,692.31	2,643.93	48.37	55.657		
5,500.00	5,020.34	4,945.62	4,908.27	39.81	19.47	-134.69	1,334.28	-1,171.96	2,733.93	2,684.63	49.31	55.447		
5,600.00	5,106.60	5,033.95	4,995.94	40.81	19.83	-135.19	1,344.78	-1,174.29	2,775.75	2,725.51	50.23	55.256		
5,700.00	5,192.87	5,129.65	5,091.07	41.81	20.21	-135.74	1,354.93	-1,176.73	2,817.59	2,766.40	51.19	55.041		
5,800.00	5,279.13	5,216.96	5,177.86	42.81	20.56	-136.23	1,364.23	-1,178.86	2,859.52	2,807.43	52.09	54.897		
5,900.00	5,365.40	5,299.81	5,260.11	43.81	20.89	-136.66	1,373.94	-1,180.93	2,901.74	2,848.77	52.96	54.787		
6,000.00	5,451.66	5,407.37	5,366.88	44.81	21.33	-137.20	1,386.70	-1,183.39	2,943.96	2,889.95	54.01	54.508		
6,100.00	5,537.92	5,519.64	5,478.17	45.81	21.79	-137.72	1,401.43	-1,184.83	2,985.43	2,930.33	55.10	54.182		
6,200.00	5,624.19	5,613.22	5,571.05	46.81	22.17	-138.16	1,412.74	-1,185.79	3,026.80	2,970.75	56.05	54.006		
6,300.00	5,710.45	5,691.36	5,648.77	47.81	22.48	-138.54	1,420.81	-1,186.60	3,068.28	3,011.41	56.87	53.955		
6,400.00	5,796.72	5,767.51	5,724.41	48.81	22.79	-138.89	1,429.54	-1,187.82	3,110.41	3,052.73	57.68	53.927		
6,500.00	5,882.98	5,851.57	5,807.97	49.81	23.12	-139.28	1,438.64	-1,189.18	3,152.70	3,094.16	58.54	53.860		
6,600.00	5,969.24	5,917.00	5,873.05	50.82	23.38	-139.58	1,445.13	-1,190.68	3,195.68	3,136.42	59.25	53.934		
6,700.00	6,055.51	6,023.33	5,978.66	51.82	23.81	-140.04	1,457.26	-1,193.19	3,238.89	3,178.63	60.26	53.746		
6,800.00	6,141.77	6,113.82	6,068.41	52.82	24.18	-140.39	1,468.67	-1,194.89	3,281.78	3,220.60	61.18	53.641		
6,900.00	6,228.03	6,185.00	6,139.12	53.83	24.47	-140.68	1,476.68	-1,196.46	3,325.06	3,263.11	61.94	53.680		
7,000.00	6,314.30	6,279.30	6,232.87	54.83	24.84	-141.07	1,486.63	-1,198.69	3,368.60	3,305.75	62.85	53.594		
7,100.00	6,400.56	6,362.44	6,315.38	55.83	25.18	-141.39	1,496.57	-1,200.63	3,412.20	3,348.50	63.70	53.564		
7,200.00	6,486.83	6,431.02	6,383.36	56.84	25.47	-141.63	1,505.39	-1,202.47	3,456.19	3,391.74	64.45	53.623		
7,300.00	6,573.09	6,492.31	6,444.16	57.84	25.72	-141.85	1,512.97	-1,204.49	3,500.83	3,435.69	65.14	53.744		
7,400.00	6,659.35	6,554.59	6,505.99	58.84	25.97	-142.08	1,519.95	-1,207.05	3,546.27	3,480.46	65.82	53.882		
7,500.00	6,745.62	6,640.28	6,591.24	59.85	26.30	-142.42	1,527.78	-1,210.76	3,592.07	3,525.43	66.64	53.904		
7,600.00	6,831.88	6,717.82	6,668.49	60.85	26.59	-142.74	1,533.39	-1,214.17	3,638.12	3,570.74	67.38	53.996		
7,700.00	6,918.14	6,813.50	6,763.94	61.86	26.94	-143.16	1,538.73	-1,218.29	3,684.29	3,616.07	68.21	54.010		
7,800.00	7,004.41	7,800.00	6,901.17	62.86	29.89	-143.84	1,540.98	-1,223.03	3,730.16	3,658.43	71.73	52.006		
7,900.00	7,090.67	6,987.00	6,937.19	63.87	27.49	-144.04	1,540.14	-1,223.86	3,775.67	3,706.04	69.63	54.226		
8,000.00	7,176.94	7,038.09	6,987.89	64.87	27.60	-144.39	1,534.09	-1,224.83	3,821.83	3,751.83	70.01	54.592		
8,027.52	7,200.68	7,044.01	6,993.74	65.15	27.62	-144.43	1,533.15	-1,225.04	3,834.93	3,764.85	70.07	54.726		
8,050.00	7,220.18	7,076.00	7,025.14	65.37	27.68	-149.29	1,527.25	-1,226.53	3,846.09	3,775.87	70.22	54.772		
8,100.00	7,264.25	7,076.00	7,025.14	65.85	27.68	-160.57	1,527.25	-1,226.53	3,870.27	3,799.99	70.28	55.068		
8,150.00	7,308.99	7,076.00	7,025.14	66.28	27.68	-173.08	1,527.25	-1,226.53	3,894.93	3,824.62	70.31	55.394		
8,200.00	7,354.07	8,200.00	7,099.88	66.67	29.52	173.44	1,508.60	-1,229.46	3,919.11	3,846.90	72.20	54.278		
8,250.00	7,399.14	7,196.50	7,141.49	67.02	27.86	160.26	1,496.46	-1,230.72	3,942.83	3,872.22	70.60	55.846		
8,300.00	7,443.85	7,212.16	7,156.30	67.32	27.88	147.99	1,491.39	-1,231.23	3,966.32	3,895.72	70.59	56.187		
8,350.00	7,487.88	7,227.92	7,171.10	67.56	27.90	137.01	1,485.99	-1,231.82	3,989.34	3,918.78	70.56	56.540		
8,400.00	7,530.87	7,255.00	7,196.25	67.75	27.93	127.49	1,476.03	-1,233.02	4,011.77	3,941.25	70.52	56.888		
8,450.00	7,572.51	7,255.00	7,196.25	67.90	27.93	119.35	1,476.03	-1,233.02	4,033.32	3,962.88	70.43	57.265		
8,500.00	7,612.48	7,255.00	7,196.25	68.00	27.93	112.42	1,476.03	-1,233.02	4,054.09	3,983.76	70.33	57.643		
8,550.00	7,650.47	7,255.00	7,196.25	68.05	27.93	106.54	1,476.03	-1,233.02	4,073.94	4,003.72	70.22	58.016		
8,600.00	7,686.20	7,292.28	7,230.43	68.06	27.97	101.75	1,461.32	-1,235.28	4,092.07	4,021.92	70.15	58.332		
8,650.00	7,719.39	7,303.19	7,240.35	68.03	27.97	97.60	1,456.86	-1,236.11	4,109.24	4,039.19	70.05	58.660		
8,700.00	7,749.79	7,344.00	7,277.15	67.97	28.01	94.34	1,439.63	-1,239.91	4,125.45	4,055.46	69.99	58.946		
8,750.00	7,777.17	7,344.00	7,277.15	67.87	28.01	91.36	1,439.63	-1,239.91	4,139.49	4,069.60	69.89	59.230		
8,800.00	7,801.32	7,344.00	7,277.15	67.74	28.01	88.87	1,439.63	-1,239.91	4,152.06	4,082.26	69.80	59.485		
8,850.00	7,822.06	8,850.00	7,326.32	67.59	29.18	87.32	1,412.43	-1,244.87	4,162.71	4,091.98	70.72	58.860		
8,900.00	7,839.23	7,491.96	7,402.77	67.41	28.08	86.52	1,362.90	-1,251.60	4,171.00	4,101.34	69.66	59.876		
8,950.00	7,852.69	7,522.00	7,425.80	67.22	28.08	85.59	1,343.70	-1,253.39	4,177.30	4,107.72	69.59	60.030		
9,000.00	7,862.35	7,551.43	7,447.39	67.00	28.08	85.01	1,323.77	-1,255.10	4,181.69	4,112.18	69.52	60.153		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,800.07	7,597.57	66.78	28.10	86.39	1,126.89	-1,260.34	4,183.01	4,114.26	68.75	60.843		
9,098.65	7,870.00	7,830.14	7,610.51	66.55	28.11	86.60	1,099.75	-1,259.82	4,181.51	4,112.82	68.69	60.876		
9,100.00	7,870.00	7,831.08	7,610.89	66.55	28.12	86.61	1,098.89	-1,259.80	4,181.44	4,112.76	68.69	60.877		
9,200.00	7,870.00	9,200.00	7,649.83	66.09	29.58	87.14	962.26	-1,254.89	4,175.93	4,106.36	69.56	60.030		
9,300.00	7,870.00	8,019.20	7,656.11	65.65	28.30	87.22	917.13	-1,252.67	4,170.42	4,102.18	68.24	61.113		
9,400.00	7,870.00	8,057.00	7,660.81	65.24	28.37	87.29	879.63	-1,251.72	4,166.77	4,098.44	68.34	60.974		
9,500.00	7,870.00	8,175.31	7,672.83	64.85	28.69	87.45	761.99	-1,248.62	4,163.30	4,094.99	68.31	60.950		
9,600.00	7,870.00	8,235.00	7,675.07	64.48	28.90	87.48	702.36	-1,247.32	4,160.51	4,092.00	68.51	60.727		
9,700.00	7,870.00	8,297.91	7,675.29	64.13	29.16	87.48	639.46	-1,246.44	4,158.66	4,089.85	68.80	60.442		
9,800.00	7,870.00	8,384.00	7,675.36	63.80	29.57	87.48	553.37	-1,245.54	4,157.27	4,088.08	69.19	60.087		
9,900.00	7,870.00	8,480.52	7,675.74	63.50	30.12	87.49	456.86	-1,244.75	4,156.10	4,086.37	69.73	59.605		
10,000.00	7,870.00	8,663.98	7,676.25	63.22	31.40	87.49	273.44	-1,241.30	4,153.81	4,083.09	70.73	58.729		
10,100.00	7,870.00	8,730.97	7,676.04	62.96	31.94	87.49	206.47	-1,239.56	4,150.94	4,079.40	71.55	58.016		
10,200.00	7,870.00	8,787.25	7,675.59	62.72	32.41	87.48	150.19	-1,238.68	4,149.09	4,076.69	72.39	57.314		
10,300.00	7,870.00	8,840.90	7,675.87	62.50	32.89	87.48	96.55	-1,238.46	4,148.33	4,075.03	73.29	56.598		
10,400.00	7,870.00	8,984.96	7,678.35	62.31	34.27	87.52	-47.49	-1,238.31	4,147.91	4,072.99	74.92	55.364		
10,500.00	7,870.00	9,131.27	7,679.03	62.15	35.80	87.53	-193.77	-1,236.09	4,146.00	4,069.21	76.79	53.992		
10,600.00	7,870.00	9,213.51	7,679.40	62.01	36.71	87.53	-276.00	-1,234.62	4,143.86	4,065.60	78.26	52.950		
10,700.00	7,870.00	9,277.32	7,679.97	61.90	37.45	87.54	-339.81	-1,233.89	4,142.34	4,062.71	79.63	52.019		
10,800.00	7,870.00	9,370.30	7,680.43	61.82	38.55	87.54	-432.78	-1,233.45	4,141.49	4,060.12	81.37	50.894		
10,900.00	7,870.00	9,435.63	7,680.70	61.78	39.34	87.55	-498.11	-1,233.24	4,140.88	4,057.99	82.89	49.957		
10,906.51	7,870.00	9,439.09	7,680.74	61.78	39.39	87.55	-501.57	-1,233.25	4,140.88	4,057.90	82.98	49.901		
11,000.00	7,870.00	9,496.11	7,681.82	61.77	40.09	87.56	-558.57	-1,233.81	4,141.36	4,056.96	84.40	49.069		
11,100.00	7,870.00	9,603.15	7,685.06	61.81	41.46	87.61	-665.56	-1,235.13	4,142.13	4,055.57	86.57	47.850		
11,200.00	7,870.00	9,715.12	7,688.92	61.90	42.93	87.66	-777.45	-1,236.39	4,142.78	4,053.88	88.90	46.599		
11,300.00	7,870.00	9,828.67	7,693.23	62.03	44.47	87.72	-890.92	-1,237.20	4,143.00	4,051.63	91.36	45.346		
11,400.00	7,870.00	9,896.31	7,695.30	62.23	45.40	87.75	-958.52	-1,237.80	4,143.45	4,050.23	93.22	44.447		
11,500.00	7,870.00	9,964.67	7,695.78	62.50	46.35	87.76	-1,026.87	-1,238.94	4,144.74	4,049.62	95.12	43.575		
11,600.00	7,870.00	10,052.83	7,695.39	62.84	47.58	87.75	-1,115.01	-1,240.93	4,146.66	4,049.30	97.35	42.594		
11,700.00	7,870.00	10,185.93	7,693.64	63.25	49.49	87.73	-1,248.08	-1,243.39	4,148.22	4,047.85	100.37	41.329		
11,800.00	7,870.00	10,275.44	7,691.87	63.76	50.79	87.71	-1,337.56	-1,244.71	4,149.45	4,046.70	102.75	40.385		
11,900.00	7,870.00	10,410.23	7,688.07	64.34	52.79	87.65	-1,472.28	-1,246.10	4,150.20	4,044.25	105.95	39.172		
12,000.00	7,870.00	10,504.23	7,686.65	65.01	54.19	87.63	-1,566.27	-1,247.02	4,150.90	4,042.38	108.52	38.252		
12,100.00	7,870.00	10,614.37	7,689.62	65.77	55.86	87.68	-1,676.36	-1,248.14	4,151.47	4,040.03	111.44	37.254		
12,200.00	7,870.00	10,759.81	7,693.35	66.61	58.10	87.73	-1,821.73	-1,248.71	4,151.44	4,036.37	115.07	36.079		
12,300.00	7,870.00	10,890.74	7,690.98	67.51	60.13	87.69	-1,952.63	-1,247.68	4,150.37	4,031.91	118.46	35.035		
12,400.00	7,870.00	11,009.61	7,686.48	68.49	62.00	87.63	-2,071.40	-1,245.85	4,148.64	4,026.96	121.68	34.095		
12,500.00	7,870.00	11,075.64	7,684.33	69.52	63.05	87.60	-2,137.40	-1,245.04	4,147.21	4,023.27	123.93	33.463		
12,600.00	7,870.00	11,192.64	7,681.89	70.61	64.90	87.57	-2,254.37	-1,244.00	4,146.08	4,018.89	127.19	32.597		
12,700.00	7,870.00	11,255.79	7,680.78	71.75	65.91	87.55	-2,317.50	-1,243.64	4,145.20	4,015.77	129.43	32.027		
12,800.00	7,870.00	11,417.77	7,678.81	72.93	68.51	87.52	-2,479.46	-1,242.03	4,143.92	4,010.27	133.65	31.006		
12,900.00	7,870.00	11,531.00	7,679.87	74.14	70.35	87.53	-2,592.65	-1,239.60	4,141.36	4,004.40	136.95	30.240		
13,000.00	7,870.00	11,575.99	7,680.57	75.39	71.08	87.54	-2,637.64	-1,238.87	4,139.51	4,000.62	138.89	29.803		
13,046.29	7,870.00	11,592.30	7,680.85	75.98	71.34	87.55	-2,653.94	-1,238.83	4,139.20	3,999.51	139.70	29.630		
13,100.00	7,870.00	11,620.00	7,681.37	76.67	71.79	87.55	-2,681.63	-1,239.03	4,139.29	3,998.49	140.80	29.398		
13,200.00	7,870.00	11,672.28	7,682.35	77.98	72.64	87.57	-2,733.90	-1,239.87	4,140.35	3,997.48	142.87	28.979		
13,300.00	7,870.00	11,774.31	7,683.97	79.31	74.30	87.59	-2,835.89	-1,241.98	4,142.01	3,996.00	146.00	28.369		
13,400.00	7,870.00	11,906.38	7,685.60	80.67	76.46	87.61	-2,967.95	-1,243.63	4,142.82	3,993.01	149.80	27.655		
13,500.00	7,870.00	11,977.00	7,687.17	82.04	77.62	87.64	-3,038.53	-1,244.81	4,143.98	3,991.68	152.30	27.209		
13,600.00	7,870.00	12,053.97	7,689.72	83.43	78.88	87.67	-3,115.44	-1,246.61	4,145.80	3,990.85	154.95	26.756		
13,700.00	7,870.00	12,153.93	7,693.71	84.84	80.53	87.73	-3,215.29	-1,249.04	4,147.73	3,989.61	158.11	26.232		
13,800.00	7,870.00	12,255.09	7,698.15	86.27	82.20	87.79	-3,316.33	-1,251.49	4,149.65	3,988.32	161.33	25.722		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,900.00	7,870.00	12,353.42	7,702.82	87.71	83.83	87.86	-3,414.52	-1,253.80	4,151.47	3,986.98	164.49	25.238		
14,000.00	7,870.00	12,428.55	7,705.75	89.16	85.08	87.90	-3,489.55	-1,255.87	4,153.75	3,986.61	167.13	24.853		
14,100.00	7,870.00	12,564.78	7,708.67	90.63	87.34	87.94	-3,625.71	-1,259.32	4,155.86	3,984.69	171.17	24.279		
14,200.00	7,870.00	12,704.46	7,710.39	92.10	89.68	87.96	-3,765.36	-1,261.52	4,157.05	3,981.75	175.30	23.714		
14,300.00	7,870.00	12,812.07	7,713.79	93.59	91.48	88.01	-3,872.91	-1,262.78	4,157.78	3,979.05	178.73	23.263		
14,400.00	7,870.00	12,929.32	7,719.57	95.09	93.46	88.09	-3,990.01	-1,263.69	4,158.05	3,975.65	182.40	22.796		
14,500.00	7,870.00	13,043.28	7,725.50	96.60	95.38	88.17	-4,103.81	-1,264.23	4,158.02	3,972.01	186.01	22.354		
14,549.10	7,870.00	13,083.58	7,727.45	97.34	96.06	88.20	-4,144.07	-1,264.38	4,157.96	3,970.53	187.43	22.184		
14,600.00	7,870.00	13,124.54	7,729.05	98.11	96.75	88.22	-4,184.99	-1,264.62	4,158.02	3,969.15	188.88	22.015		
14,700.00	7,870.00	13,221.79	7,732.09	99.64	98.40	88.26	-4,282.19	-1,265.33	4,158.32	3,966.21	192.11	21.645		
14,800.00	7,870.00	13,323.93	7,734.77	101.17	100.13	88.30	-4,384.29	-1,266.08	4,158.64	3,963.18	195.46	21.276		
14,900.00	7,870.00	13,463.92	7,738.08	102.71	102.51	88.35	-4,524.25	-1,266.33	4,158.41	3,958.72	199.70	20.824		
15,000.00	7,870.00	13,606.65	7,741.43	104.26	104.94	88.39	-4,666.93	-1,264.93	4,156.96	3,952.96	204.00	20.378		
15,100.00	7,870.00	13,883.79	7,742.09	105.82	109.69	88.40	-4,943.83	-1,255.16	4,153.08	3,941.90	211.18	19.666		
15,200.00	7,870.00	13,937.00	7,741.78	107.38	110.60	88.39	-4,996.98	-1,252.71	4,147.91	3,934.37	213.54	19.424		
15,300.00	7,870.00	13,937.00	7,741.78	108.95	110.60	88.39	-4,996.98	-1,252.71	4,144.25	3,929.54	214.71	19.302		
15,400.00	7,870.00	13,988.25	7,741.09	110.52	111.48	88.38	-5,048.21	-1,251.55	4,142.02	3,925.07	216.95	19.092		
15,490.94	7,870.00	14,026.00	7,740.38	111.96	112.13	88.37	-5,085.96	-1,251.53	4,141.55	3,922.80	218.75	18.933		
15,500.00	7,870.00	14,026.00	7,740.38	112.10	112.13	88.37	-5,085.96	-1,251.53	4,141.56	3,922.72	218.84	18.925		
15,600.00	7,870.00	14,099.19	7,738.76	113.69	113.38	88.35	-5,159.13	-1,252.27	4,142.25	3,920.70	221.54	18.697		
15,700.00	7,870.00	14,230.98	7,735.64	115.28	115.63	88.31	-5,290.87	-1,253.02	4,142.49	3,916.85	225.64	18.359		
15,800.00	7,870.00	14,293.71	7,735.19	116.87	116.70	88.30	-5,353.60	-1,253.57	4,143.04	3,914.94	228.10	18.163		
15,900.00	7,870.00	14,413.89	7,736.22	118.47	118.76	88.32	-5,473.76	-1,254.94	4,143.82	3,911.87	231.96	17.865		
16,000.00	7,870.00	14,548.70	7,738.11	120.07	121.07	88.34	-5,608.56	-1,255.61	4,143.95	3,907.79	236.16	17.547		
16,100.00	7,870.00	14,678.13	7,740.25	121.68	123.30	88.37	-5,737.97	-1,254.94	4,142.99	3,902.75	240.24	17.245		
16,200.00	7,870.00	14,750.07	7,740.61	123.30	124.54	88.38	-5,809.91	-1,254.73	4,142.33	3,899.36	242.97	17.049		
16,300.00	7,870.00	14,849.82	7,739.18	124.91	126.26	88.36	-5,909.64	-1,254.69	4,141.99	3,895.65	246.34	16.814		
16,400.00	7,870.00	14,956.43	7,737.86	126.53	128.10	88.34	-6,016.24	-1,254.53	4,141.54	3,891.66	249.88	16.574		
16,500.00	7,870.00	15,092.56	7,737.70	128.16	130.45	88.34	-6,152.38	-1,253.89	4,140.79	3,886.66	254.13	16.294		
16,600.00	7,870.00	15,166.97	7,738.24	129.79	131.73	88.34	-6,226.78	-1,253.34	4,139.70	3,882.77	256.93	16.112		
16,700.00	7,870.00	15,259.87	7,740.82	131.42	133.34	88.38	-6,319.64	-1,253.16	4,139.07	3,878.90	260.18	15.909		
16,737.74	7,870.00	15,273.00	7,741.13	132.03	133.57	88.38	-6,332.77	-1,253.13	4,138.92	3,878.05	260.87	15.866		
16,800.00	7,870.00	15,305.67	7,741.83	133.05	134.13	88.39	-6,365.43	-1,253.28	4,139.05	3,876.77	262.27	15.781		
16,900.00	7,870.00	15,362.00	7,742.70	134.69	135.10	88.40	-6,421.74	-1,254.53	4,140.63	3,876.03	264.59	15.649		
17,000.00	7,870.00	15,389.06	7,743.01	136.33	135.56	88.41	-6,448.78	-1,255.51	4,143.44	3,877.32	266.12	15.570		
17,100.00	7,870.00	15,451.00	7,743.66	137.97	136.63	88.42	-6,510.65	-1,258.32	4,147.54	3,879.03	268.51	15.447		
17,200.00	7,870.00	15,664.75	7,746.40	139.62	140.30	88.46	-6,724.21	-1,266.40	4,151.32	3,876.46	274.87	15.103		
17,300.00	7,870.00	15,783.04	7,749.88	141.27	142.34	88.51	-6,842.42	-1,268.76	4,152.92	3,874.16	278.76	14.898		
17,400.00	7,870.00	15,913.48	7,753.40	142.92	144.60	88.56	-6,972.81	-1,270.37	4,153.72	3,870.78	282.95	14.680		
17,500.00	7,870.00	16,011.18	7,756.82	144.58	146.29	88.60	-7,070.44	-1,271.42	4,154.38	3,868.05	286.33	14.509		
17,600.00	7,870.00	16,120.94	7,760.03	146.23	148.19	88.65	-7,180.15	-1,272.23	4,154.70	3,864.69	290.01	14.326		
17,700.00	7,870.00	16,194.93	7,761.25	147.89	149.47	88.67	-7,254.12	-1,272.94	4,155.29	3,862.50	292.79	14.192		
17,800.00	7,870.00	16,263.17	7,763.58	149.56	150.65	88.70	-7,322.31	-1,274.22	4,156.73	3,861.30	295.43	14.070		
17,900.00	7,870.00	16,383.23	7,769.56	151.22	152.74	88.78	-7,442.20	-1,276.34	4,158.01	3,858.62	299.39	13.888		
18,000.00	7,870.00	16,472.50	7,773.89	152.89	154.28	88.84	-7,531.36	-1,278.03	4,159.46	3,856.89	302.57	13.747		
18,100.00	7,870.00	16,580.18	7,778.39	154.55	156.15	88.90	-7,638.92	-1,280.07	4,160.94	3,854.73	306.21	13.588		
18,200.00	7,870.00	16,854.47	7,788.09	156.22	160.92	89.04	-7,912.99	-1,280.17	4,161.24	3,847.36	313.88	13.258		
18,300.00	7,870.00	16,982.64	7,791.21	157.90	163.17	89.08	-8,041.08	-1,276.69	4,158.17	3,840.19	317.98	13.077		
18,400.00	7,870.00	17,110.21	7,793.25	159.57	165.40	89.11	-8,168.54	-1,271.94	4,154.02	3,831.96	322.06	12.898		
18,500.00	7,870.00	17,229.68	7,794.21	161.25	167.50	89.12	-8,287.92	-1,267.24	4,149.75	3,823.81	325.95	12.731		
18,600.00	7,870.00	17,343.59	7,795.21	162.93	169.50	89.13	-8,401.70	-1,262.03	4,144.82	3,815.10	329.72	12.571		
18,700.00	7,870.00	17,340.00	7,795.17	164.60	169.43	89.13	-8,398.12	-1,262.20	4,141.12	3,810.23	330.89	12.515		

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		140-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,797.52	7,870.00	17,340.00	7,795.17	166.24	169.43	89.13	-8,398.12	-1,262.20	4,139.84	3,807.91	331.94	12.472 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.44	786.89	-1,061.18	1,321.14					
100.00	100.00	91.15	91.15	0.13	0.14	-53.45	786.74	-1,061.19	1,321.02	1,320.74	0.28	4,773.217		
200.00	200.00	193.56	193.55	0.49	0.30	-53.47	786.24	-1,061.24	1,320.77	1,319.97	0.80	1,661.187		
293.99	293.99	283.00	282.99	0.83	0.65	-53.49	785.78	-1,061.44	1,320.65	1,319.16	1.48	889.456 CC		
300.00	300.00	288.78	288.77	0.85	0.68	-53.49	785.75	-1,061.46	1,320.65	1,319.12	1.53	864.883		
400.00	400.00	387.36	387.35	1.21	1.02	-53.51	785.40	-1,061.84	1,320.74	1,318.51	2.23	591.649		
500.00	500.00	486.97	486.97	1.57	1.37	-53.52	785.32	-1,062.07	1,320.88	1,317.94	2.94	449.428		
600.00	600.00	583.53	583.52	1.93	1.71	-53.56	784.82	-1,062.77	1,321.16	1,317.52	3.64	363.172 ES		
700.00	700.00	658.35	658.33	2.29	1.97	-53.57	785.11	-1,063.80	1,322.50	1,318.24	4.26	310.560		
800.00	800.00	734.42	734.33	2.64	2.24	-53.48	788.33	-1,064.48	1,325.74	1,320.86	4.88	271.744		
900.00	900.00	807.05	806.68	3.00	2.49	-53.27	794.44	-1,064.53	1,330.84	1,325.35	5.49	242.618		
1,000.00	1,000.00	887.47	886.57	3.36	2.78	-52.95	803.77	-1,064.64	1,337.90	1,331.78	6.13	218.416		
1,100.00	1,099.98	980.42	978.73	3.72	3.12	-107.07	815.74	-1,064.86	1,346.44	1,339.62	6.82	197.556		
1,200.00	1,199.84	1,072.39	1,069.82	4.07	3.48	-106.64	828.52	-1,064.75	1,356.38	1,348.87	7.51	180.659		
1,300.00	1,299.45	1,161.81	1,158.20	4.43	3.83	-106.27	842.10	-1,064.52	1,368.03	1,359.83	8.20	166.796		
1,400.00	1,398.70	1,252.73	1,247.93	4.80	4.20	-105.97	856.72	-1,064.44	1,381.32	1,372.41	8.91	154.960		
1,500.00	1,497.47	1,349.69	1,343.63	5.18	4.60	-105.80	872.32	-1,064.83	1,395.97	1,386.30	9.67	144.367		
1,600.00	1,595.62	1,435.85	1,428.62	5.57	4.96	-105.69	886.49	-1,065.34	1,411.94	1,401.54	10.40	135.791		
1,700.00	1,693.06	1,518.41	1,509.93	6.00	5.31	-105.64	900.75	-1,066.41	1,429.92	1,418.78	11.13	128.422		
1,800.00	1,789.64	1,632.44	1,622.20	6.45	5.81	-105.84	920.60	-1,068.17	1,449.24	1,437.19	12.05	120.318		
1,900.00	1,885.27	1,732.40	1,720.91	6.94	6.23	-106.13	936.28	-1,069.74	1,468.58	1,455.66	12.92	113.675		
2,000.00	1,979.82	1,806.65	1,794.22	7.47	6.55	-106.32	947.92	-1,071.58	1,489.77	1,476.07	13.71	108.681		
2,100.00	2,073.17	1,933.60	1,919.78	8.05	7.08	-107.10	966.37	-1,074.68	1,511.54	1,496.76	14.78	102.282		
2,200.00	2,165.21	2,019.06	2,004.46	8.67	7.44	-107.59	977.63	-1,076.96	1,534.26	1,518.56	15.69	97.768		
2,300.00	2,255.84	2,110.81	2,095.35	9.35	7.82	-108.22	989.80	-1,079.94	1,559.06	1,542.38	16.68	93.481		
2,400.00	2,344.94	2,248.77	2,232.18	10.09	8.38	-109.50	1,007.20	-1,082.44	1,584.22	1,566.29	17.92	88.393		
2,500.00	2,432.39	2,356.47	2,339.15	10.89	8.81	-110.46	1,019.76	-1,082.15	1,609.07	1,590.00	19.07	84.380		
2,519.29	2,449.07	2,373.18	2,355.75	11.05	8.88	-110.60	1,021.67	-1,082.05	1,614.02	1,594.75	19.28	83.728		
2,600.00	2,518.69	2,446.99	2,429.08	11.74	9.17	-111.63	1,030.00	-1,081.59	1,635.11	1,614.94	20.17	81.074		
2,700.00	2,604.95	2,535.85	2,517.38	12.62	9.53	-112.83	1,039.99	-1,081.08	1,661.99	1,640.73	21.27	78.150		
2,800.00	2,691.22	2,642.86	2,623.59	13.52	9.96	-114.20	1,052.89	-1,079.48	1,689.29	1,666.79	22.46	75.210		
2,900.00	2,777.48	2,715.89	2,695.91	14.43	10.26	-115.06	1,062.92	-1,077.61	1,716.99	1,693.48	23.50	73.048		
3,000.00	2,863.75	2,772.83	2,752.21	15.35	10.51	-115.71	1,071.34	-1,076.73	1,746.59	1,722.13	24.46	71.403		
3,100.00	2,950.01	2,829.00	2,807.64	16.28	10.75	-116.32	1,080.38	-1,077.03	1,778.77	1,753.37	25.40	70.033		
3,200.00	3,036.27	2,895.85	2,873.55	17.22	11.04	-117.04	1,091.50	-1,078.39	1,812.91	1,786.52	26.39	68.708		
3,300.00	3,122.54	2,985.88	2,962.36	18.17	11.44	-118.00	1,106.06	-1,080.71	1,847.92	1,820.42	27.50	67.198		
3,400.00	3,208.80	3,085.81	3,061.08	19.13	11.87	-119.05	1,121.42	-1,083.17	1,883.05	1,854.39	28.66	65.698		
3,500.00	3,295.07	3,187.42	3,161.64	20.09	12.30	-120.12	1,135.75	-1,085.42	1,918.07	1,888.25	29.82	64.324		
3,600.00	3,381.33	3,289.29	3,262.66	21.05	12.72	-121.18	1,148.72	-1,087.43	1,952.98	1,922.02	30.96	63.087		
3,700.00	3,467.59	3,389.21	3,361.90	22.02	13.12	-122.21	1,160.25	-1,089.06	1,987.75	1,955.68	32.07	61.983		
3,800.00	3,553.86	3,479.95	3,451.90	22.99	13.50	-123.09	1,171.75	-1,089.96	2,022.76	1,989.62	33.13	61.048		
3,900.00	3,640.12	3,572.60	3,543.57	23.97	13.88	-123.90	1,185.18	-1,090.26	2,058.06	2,023.85	34.21	60.157		
4,000.00	3,726.38	3,672.13	3,642.20	24.95	14.30	-124.78	1,198.50	-1,090.62	2,093.51	2,058.19	35.32	59.274		
4,100.00	3,812.65	3,775.95	3,745.35	25.93	14.71	-125.71	1,210.30	-1,090.79	2,128.69	2,092.27	36.42	58.445		
4,200.00	3,898.91	3,849.71	3,818.75	26.91	15.00	-126.39	1,217.62	-1,091.02	2,164.14	2,126.80	37.33	57.969		
4,300.00	3,985.18	3,911.91	3,880.67	27.90	15.24	-126.96	1,223.42	-1,092.10	2,201.04	2,162.88	38.16	57.683		
4,400.00	4,071.44	3,982.19	3,950.63	28.88	15.51	-127.60	1,229.78	-1,094.02	2,239.17	2,200.16	39.01	57.399		
4,500.00	4,157.70	4,095.41	4,063.46	29.87	15.94	-128.63	1,238.61	-1,096.95	2,277.32	2,237.23	40.09	56.806		
4,600.00	4,243.97	4,159.13	4,126.99	30.86	16.17	-129.20	1,243.21	-1,098.76	2,316.06	2,275.18	40.87	56.667		
4,700.00	4,330.23	4,252.49	4,219.91	31.85	16.53	-129.97	1,251.83	-1,101.48	2,355.55	2,313.71	41.84	56.302		
4,800.00	4,416.49	4,412.61	4,378.60	32.84	17.20	-131.06	1,273.09	-1,101.38	2,392.92	2,349.64	43.28	55.292		
4,900.00	4,502.76	4,488.20	4,453.50	33.84	17.51	-131.55	1,283.22	-1,100.66	2,430.20	2,386.02	44.18	55.006		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,551.00	4,515.68	34.83	17.77	-131.94	1,292.02	-1,100.84	2,468.77	2,423.78	44.99	54.871		
5,100.00	4,675.29	4,612.13	4,576.19	35.82	18.03	-132.32	1,300.58	-1,101.69	2,508.53	2,462.75	45.78	54.796		
5,200.00	4,761.55	4,693.10	4,656.50	36.82	18.36	-132.83	1,310.82	-1,103.43	2,549.06	2,502.39	46.68	54.609		
5,300.00	4,847.81	4,775.14	4,738.01	37.82	18.70	-133.37	1,319.86	-1,105.45	2,589.93	2,542.37	47.56	54.451		
5,400.00	4,934.08	4,860.54	4,822.71	38.81	19.05	-133.88	1,330.51	-1,107.67	2,631.28	2,582.79	48.49	54.270		
5,500.00	5,020.34	4,946.83	4,907.76	39.81	19.43	-134.31	1,344.95	-1,109.47	2,672.74	2,623.28	49.45	54.046		
5,600.00	5,106.60	5,029.44	4,988.90	40.81	19.80	-134.66	1,360.37	-1,111.31	2,714.59	2,664.18	50.41	53.847		
5,700.00	5,192.87	5,122.75	5,080.75	41.81	20.22	-135.08	1,376.66	-1,113.50	2,756.57	2,705.13	51.44	53.588		
5,800.00	5,279.13	5,222.38	5,179.29	42.81	20.65	-135.57	1,391.13	-1,115.81	2,798.43	2,745.95	52.47	53.331		
5,900.00	5,365.40	5,319.83	5,276.10	43.81	21.04	-136.11	1,402.06	-1,117.90	2,840.07	2,786.63	53.44	53.145		
6,000.00	5,451.66	5,406.01	5,361.89	44.81	21.37	-136.61	1,409.97	-1,119.74	2,881.77	2,827.47	54.30	53.067		
6,100.00	5,537.92	5,483.12	5,438.52	45.81	21.69	-137.02	1,418.34	-1,121.48	2,923.86	2,868.73	55.13	53.040		
6,200.00	5,624.19	5,560.04	5,514.54	46.81	22.01	-137.35	1,429.88	-1,123.41	2,966.48	2,910.50	55.98	52.995		
6,300.00	5,710.45	5,644.37	5,597.93	47.81	22.37	-137.71	1,442.25	-1,125.74	3,009.45	2,952.56	56.88	52.906		
6,400.00	5,796.72	5,793.51	5,746.04	48.81	22.97	-138.42	1,459.30	-1,129.25	3,052.31	2,994.11	58.20	52.445		
6,500.00	5,882.98	5,972.90	5,924.10	49.81	23.70	-139.21	1,480.98	-1,127.92	3,092.15	3,032.44	59.71	51.787		
6,600.00	5,969.24	6,037.19	5,987.79	50.82	23.97	-139.47	1,489.62	-1,126.84	3,131.49	3,071.03	60.47	51.789		
6,700.00	6,055.51	6,093.95	6,044.04	51.82	24.20	-139.69	1,497.24	-1,126.41	3,171.77	3,110.61	61.16	51.860		
6,800.00	6,141.77	6,154.00	6,103.62	52.82	24.45	-139.94	1,504.68	-1,126.72	3,213.21	3,151.34	61.86	51.941		
6,900.00	6,228.03	6,210.62	6,159.82	53.83	24.68	-140.17	1,511.55	-1,127.55	3,255.58	3,193.06	62.53	52.066		
7,000.00	6,314.30	6,284.86	6,233.46	54.83	24.98	-140.46	1,520.87	-1,129.05	3,298.62	3,235.30	63.32	52.097		
7,100.00	6,400.56	6,401.60	6,349.37	55.83	25.46	-140.92	1,534.48	-1,131.37	3,341.81	3,277.40	64.40	51.890		
7,200.00	6,486.83	6,470.03	6,417.33	56.84	25.73	-141.18	1,542.49	-1,132.32	3,384.55	3,319.41	65.14	51.962		
7,300.00	6,573.09	6,527.39	6,474.35	57.84	25.96	-141.41	1,548.57	-1,133.69	3,428.23	3,362.45	65.77	52.121		
7,400.00	6,659.35	6,592.07	6,538.73	58.84	26.21	-141.69	1,554.42	-1,135.68	3,472.67	3,406.23	66.44	52.264		
7,500.00	6,745.62	7,500.00	6,683.32	59.85	29.66	-142.30	1,566.25	-1,140.00	3,517.42	3,446.86	70.55	49.856		
7,600.00	6,831.88	6,889.38	6,834.90	60.85	27.33	-142.91	1,579.36	-1,140.35	3,559.22	3,490.31	68.91	51.653		
7,700.00	6,918.14	6,944.89	6,890.28	61.86	27.54	-143.15	1,583.13	-1,140.53	3,601.67	3,532.17	69.50	51.823		
7,800.00	7,004.41	7,011.54	6,956.88	62.86	27.75	-143.46	1,585.53	-1,141.16	3,644.94	3,574.83	70.11	51.987		
7,900.00	7,090.67	7,135.00	7,079.84	63.87	28.07	-144.24	1,576.56	-1,140.87	3,687.82	3,616.96	70.85	52.049		
8,000.00	7,176.94	7,174.70	7,118.76	64.87	28.13	-144.57	1,568.78	-1,140.29	3,731.14	3,659.99	71.15	52.438		
8,027.52	7,200.68	7,180.79	7,124.68	65.15	28.14	-144.62	1,567.38	-1,140.28	3,743.40	3,672.18	71.22	52.561		
8,050.00	7,220.18	7,185.75	7,129.50	65.37	28.15	-149.19	1,566.20	-1,140.28	3,753.52	3,682.25	71.27	52.665		
8,100.00	7,264.25	7,224.00	7,166.32	65.85	28.21	-160.56	1,555.86	-1,140.78	3,776.79	3,705.38	71.41	52.887		
8,150.00	7,308.99	7,224.00	7,166.32	66.28	28.21	-172.84	1,555.86	-1,140.78	3,799.87	3,728.41	71.46	53.173		
8,200.00	7,354.07	7,224.00	7,166.32	66.67	28.21	174.15	1,555.86	-1,140.78	3,823.28	3,751.79	71.48	53.485		
8,250.00	7,399.14	7,224.00	7,166.32	67.02	28.21	161.16	1,555.86	-1,140.78	3,846.82	3,775.34	71.47	53.821		
8,300.00	7,443.85	7,224.00	7,166.32	67.32	28.21	148.91	1,555.86	-1,140.78	3,870.31	3,798.87	71.44	54.176		
8,350.00	7,487.88	7,224.00	7,166.32	67.56	28.21	137.89	1,555.86	-1,140.78	3,893.58	3,822.20	71.38	54.547		
8,400.00	7,530.87	7,263.41	7,203.61	67.75	28.24	128.35	1,543.20	-1,142.25	3,915.65	3,844.28	71.36	54.869		
8,450.00	7,572.51	7,274.19	7,213.69	67.90	28.25	120.18	1,539.43	-1,142.84	3,937.46	3,866.17	71.29	55.231		
8,500.00	7,612.48	7,313.00	7,249.50	68.00	28.29	113.35	1,524.75	-1,145.61	3,958.87	3,887.63	71.24	55.574		
8,550.00	7,650.47	7,313.00	7,249.50	68.05	28.29	107.47	1,524.75	-1,145.61	3,978.63	3,907.50	71.13	55.932		
8,600.00	7,686.20	7,313.00	7,249.50	68.06	28.29	102.45	1,524.75	-1,145.61	3,997.41	3,926.39	71.03	56.282		
8,650.00	7,719.39	7,313.00	7,249.50	68.03	28.29	98.18	1,524.75	-1,145.61	4,015.08	3,944.16	70.92	56.617		
8,700.00	7,749.79	7,313.00	7,249.50	67.97	28.29	94.54	1,524.75	-1,145.61	4,031.51	3,960.70	70.81	56.933		
8,750.00	7,777.17	7,347.78	7,281.04	67.87	28.31	91.75	1,510.45	-1,148.77	4,046.20	3,975.45	70.75	57.192		
8,800.00	7,801.32	7,362.05	7,293.87	67.74	28.32	89.32	1,504.35	-1,150.20	4,059.46	3,988.79	70.68	57.437		
8,850.00	7,822.06	7,375.77	7,306.13	67.59	28.33	87.33	1,498.37	-1,151.64	4,071.09	4,000.47	70.62	57.648		
8,900.00	7,839.23	7,402.00	7,329.39	67.41	28.34	85.88	1,486.61	-1,154.59	4,081.09	4,010.50	70.59	57.815		
8,950.00	7,852.69	7,402.00	7,329.39	67.22	28.34	84.55	1,486.61	-1,154.59	4,089.24	4,018.68	70.56	57.954		
9,000.00	7,862.35	7,838.06	7,646.37	67.00	28.40	87.38	1,199.05	-1,176.47	4,092.69	4,023.04	69.65	58.757		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,899.88	7,676.78	66.78	28.43	87.42	1,145.24	-1,175.31	4,093.16	4,023.71	69.45	58.938		
9,098.65	7,870.00	7,951.71	7,701.05	66.55	28.46	87.78	1,099.47	-1,174.14	4,091.66	4,022.35	69.31	59.036		
9,100.00	7,870.00	7,953.14	7,701.71	66.55	28.46	87.79	1,098.20	-1,174.11	4,091.59	4,022.28	69.30	59.038		
9,200.00	7,870.00	8,242.97	7,785.84	66.09	29.04	88.97	823.55	-1,157.55	4,084.34	4,015.79	68.55	59.581		
9,300.00	7,870.00	8,293.00	7,789.70	65.65	29.19	89.02	773.80	-1,154.16	4,076.34	4,007.69	68.66	59.371		
9,400.00	7,870.00	8,293.00	7,789.70	65.24	29.19	89.02	773.80	-1,154.16	4,069.45	4,000.51	68.94	59.028		
9,500.00	7,870.00	8,357.70	7,791.86	64.85	29.43	89.05	709.20	-1,151.18	4,064.36	3,995.23	69.13	58.795		
9,600.00	7,870.00	8,436.35	7,792.15	64.48	29.76	89.06	630.63	-1,147.87	4,059.81	3,990.42	69.39	58.510		
9,700.00	7,870.00	8,505.30	7,792.14	64.13	30.10	89.05	561.72	-1,145.36	4,055.85	3,986.09	69.76	58.140		
9,800.00	7,870.00	8,560.00	7,792.56	63.80	30.40	89.06	507.05	-1,143.85	4,052.81	3,982.60	70.21	57.723		
9,900.00	7,870.00	8,628.16	7,793.11	63.50	30.82	89.07	438.90	-1,142.62	4,050.70	3,979.92	70.78	57.230		
10,000.00	7,870.00	8,697.41	7,792.98	63.22	31.28	89.07	369.65	-1,142.02	4,049.49	3,978.05	71.44	56.685		
10,100.00	7,870.00	8,781.55	7,791.24	62.96	31.90	89.04	285.54	-1,141.79	4,048.89	3,976.65	72.24	56.045		
10,200.00	7,870.00	8,877.08	7,787.25	62.72	32.67	88.98	190.09	-1,141.63	4,048.46	3,975.24	73.22	55.289		
10,273.61	7,870.00	8,936.21	7,784.66	62.56	33.18	88.95	131.02	-1,141.63	4,048.28	3,974.31	73.97	54.727		
10,300.00	7,870.00	8,952.67	7,784.08	62.50	33.33	88.94	114.57	-1,141.69	4,048.31	3,974.09	74.22	54.546		
10,400.00	7,870.00	9,006.00	7,782.80	62.31	33.81	88.92	61.26	-1,142.19	4,049.04	3,973.88	75.16	53.875		
10,500.00	7,870.00	9,078.51	7,780.90	62.15	34.51	88.89	-11.21	-1,143.53	4,050.65	3,974.35	76.30	53.090		
10,600.00	7,870.00	9,362.00	7,761.22	62.01	37.53	88.62	-293.85	-1,142.27	4,049.18	3,969.78	79.40	50.997		
10,700.00	7,870.00	9,402.45	7,760.95	61.90	38.00	88.61	-334.29	-1,141.64	4,047.41	3,966.88	80.53	50.259		
10,760.36	7,870.00	9,423.88	7,761.29	61.85	38.25	88.62	-355.73	-1,141.62	4,047.12	3,965.92	81.20	49.839		
10,800.00	7,870.00	9,451.00	7,762.22	61.82	38.56	88.63	-382.82	-1,141.90	4,047.31	3,965.53	81.78	49.490		
10,900.00	7,870.00	9,498.05	7,764.37	61.78	39.13	88.66	-429.81	-1,142.77	4,048.49	3,965.43	83.06	48.742		
11,000.00	7,870.00	9,580.17	7,768.25	61.77	40.12	88.72	-511.82	-1,144.70	4,050.38	3,965.59	84.79	47.767		
11,100.00	7,870.00	9,677.82	7,771.13	61.81	41.34	88.76	-609.40	-1,147.17	4,052.51	3,965.72	86.79	46.692		
11,200.00	7,870.00	9,866.01	7,774.70	61.90	43.78	88.81	-797.52	-1,149.89	4,053.60	3,963.47	90.12	44.978		
11,300.00	7,870.00	9,972.38	7,776.04	62.03	45.21	88.83	-903.88	-1,150.05	4,053.39	3,960.91	92.47	43.833		
11,366.86	7,870.00	10,030.70	7,776.15	62.16	46.01	88.83	-962.20	-1,150.18	4,053.30	3,959.40	93.90	43.165		
11,400.00	7,870.00	10,058.76	7,776.52	62.23	46.40	88.83	-990.26	-1,150.30	4,053.33	3,958.72	94.60	42.847		
11,500.00	7,870.00	10,145.74	7,778.41	62.50	47.61	88.86	-1,077.21	-1,150.89	4,053.62	3,956.82	96.80	41.876		
11,600.00	7,870.00	10,253.96	7,779.71	62.84	49.14	88.88	-1,185.42	-1,151.70	4,054.02	3,954.63	99.39	40.790		
11,700.00	7,870.00	10,337.73	7,780.60	63.25	50.35	88.89	-1,269.17	-1,152.38	4,054.46	3,952.82	101.64	39.890		
11,800.00	7,870.00	10,420.63	7,782.67	63.76	51.56	88.92	-1,352.04	-1,153.41	4,055.32	3,951.39	103.93	39.021		
11,900.00	7,870.00	10,488.75	7,783.72	64.34	52.56	88.94	-1,420.15	-1,154.63	4,056.76	3,950.77	105.98	38.277		
12,000.00	7,870.00	10,574.14	7,783.62	65.01	53.82	88.94	-1,505.50	-1,156.77	4,058.90	3,950.53	108.37	37.454		
12,100.00	7,870.00	10,657.93	7,785.25	65.77	55.07	88.96	-1,589.25	-1,159.02	4,061.24	3,950.47	110.77	36.664		
12,200.00	7,870.00	10,699.00	7,786.06	66.61	55.68	88.97	-1,630.29	-1,160.32	4,064.35	3,951.95	112.40	36.161		
12,300.00	7,870.00	11,144.00	7,785.27	67.51	62.54	88.96	-2,074.82	-1,160.43	4,063.59	3,941.92	121.67	33.398		
12,400.00	7,870.00	11,205.99	7,786.41	68.49	63.52	88.97	-2,136.74	-1,157.84	4,059.27	3,935.40	123.87	32.771		
12,500.00	7,870.00	11,266.03	7,787.81	69.52	64.48	88.99	-2,196.75	-1,156.42	4,056.42	3,930.39	126.04	32.185		
12,600.00	7,870.00	11,349.60	7,789.88	70.61	65.81	89.02	-2,280.28	-1,154.74	4,054.05	3,925.38	128.67	31.507		
12,700.00	7,870.00	11,432.82	7,789.56	71.75	67.14	89.02	-2,363.49	-1,153.61	4,052.32	3,921.01	131.31	30.860		
12,800.00	7,870.00	11,565.10	7,791.38	72.93	69.27	89.04	-2,495.71	-1,151.04	4,049.95	3,914.97	134.97	30.006		
12,900.00	7,870.00	11,652.04	7,796.80	74.14	70.68	89.12	-2,582.47	-1,149.38	4,047.60	3,909.83	137.77	29.380		
13,000.00	7,870.00	11,732.19	7,803.10	75.39	71.98	89.21	-2,662.36	-1,148.20	4,045.68	3,905.24	140.44	28.808		
13,100.00	7,870.00	11,811.96	7,809.78	76.67	73.28	89.30	-2,741.84	-1,147.45	4,044.29	3,901.17	143.11	28.259		
13,200.00	7,870.00	11,904.28	7,815.12	77.98	74.79	89.38	-2,834.01	-1,146.93	4,043.31	3,897.25	146.06	27.682		
13,300.00	7,870.00	12,037.82	7,819.14	79.31	76.98	89.43	-2,967.47	-1,145.73	4,042.07	3,892.18	149.90	26.966		
13,400.00	7,870.00	12,152.06	7,818.98	80.67	78.86	89.43	-3,081.69	-1,143.88	4,040.12	3,886.79	153.33	26.349		
13,500.00	7,870.00	12,213.00	7,817.20	82.04	79.87	89.41	-3,142.59	-1,142.71	4,038.12	3,882.48	155.63	25.947		
13,600.00	7,870.00	12,267.67	7,814.82	83.43	80.77	89.37	-3,197.21	-1,142.22	4,037.20	3,879.41	157.79	25.586		
13,602.92	7,870.00	12,268.76	7,814.77	83.47	80.79	89.37	-3,198.30	-1,142.23	4,037.20	3,879.36	157.84	25.578		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	7,870.00	12,318.13	7,812.38	84.84	81.60	89.34	-3,247.61	-1,142.80	4,037.91	3,878.08	159.83	25.263		
13,800.00	7,870.00	12,436.27	7,808.18	86.27	83.56	89.28	-3,365.66	-1,143.92	4,038.51	3,875.11	163.39	24.716		
13,900.00	7,870.00	13,900.00	7,807.85	87.71	107.84	89.27	-3,479.32	-1,144.99	4,039.12	3,849.84	189.28	21.339		
14,000.00	7,870.00	12,702.03	7,805.39	89.16	87.98	89.24	-3,631.38	-1,144.47	4,038.25	3,867.00	171.26	23.580		
14,081.97	7,870.00	12,748.00	7,804.91	90.36	88.74	89.23	-3,677.34	-1,144.26	4,037.73	3,864.65	173.08	23.328		
14,100.00	7,870.00	12,748.00	7,804.91	90.63	88.74	89.23	-3,677.34	-1,144.26	4,037.77	3,864.52	173.25	23.305		
14,200.00	7,870.00	12,798.75	7,805.24	92.10	89.59	89.24	-3,728.09	-1,144.69	4,038.54	3,863.20	175.34	23.032		
14,300.00	7,870.00	12,837.00	7,806.04	93.59	90.23	89.25	-3,766.31	-1,145.80	4,041.02	3,863.90	177.12	22.816		
14,400.00	7,870.00	12,911.67	7,808.00	95.09	91.47	89.28	-3,840.90	-1,148.79	4,044.61	3,864.87	179.74	22.502		
14,500.00	7,870.00	12,978.70	7,809.35	96.60	92.58	89.30	-3,907.85	-1,151.83	4,048.81	3,866.63	182.18	22.225		
14,600.00	7,870.00	13,232.75	7,812.02	98.11	96.83	89.34	-4,161.75	-1,158.56	4,050.44	3,861.31	189.13	21.416		
14,700.00	7,870.00	13,584.21	7,821.39	99.64	102.81	89.47	-4,512.66	-1,149.09	4,045.39	3,847.28	198.12	20.419		
14,800.00	7,870.00	13,639.00	7,823.71	101.17	103.75	89.50	-4,567.36	-1,146.88	4,040.80	3,840.33	200.47	20.157		
14,900.00	7,870.00	13,664.44	7,824.58	102.71	104.18	89.51	-4,592.77	-1,146.22	4,037.56	3,835.43	202.13	19.975		
15,000.00	7,870.00	13,701.73	7,825.48	104.26	104.82	89.52	-4,630.05	-1,145.75	4,035.93	3,831.91	204.01	19.783		
15,060.26	7,870.00	13,728.00	7,825.86	105.20	105.26	89.53	-4,656.32	-1,145.76	4,035.69	3,830.48	205.22	19.666		
15,100.00	7,870.00	13,752.28	7,826.06	105.82	105.68	89.53	-4,680.59	-1,145.91	4,035.79	3,829.63	206.17	19.575		
15,200.00	7,870.00	13,935.65	7,825.24	107.38	108.80	89.52	-4,863.95	-1,145.36	4,035.19	3,823.74	211.44	19.084		
15,300.00	7,870.00	13,995.00	7,825.49	108.95	109.81	89.52	-4,923.29	-1,145.13	4,034.27	3,820.43	213.83	18.866		
15,400.00	7,870.00	14,101.83	7,825.89	110.52	111.63	89.53	-5,030.12	-1,145.00	4,033.82	3,816.49	217.33	18.561		
15,500.00	7,870.00	14,173.00	7,827.30	112.10	112.85	89.55	-5,101.28	-1,144.80	4,033.23	3,813.23	220.00	18.333		
15,505.89	7,870.00	14,173.00	7,827.30	112.19	112.85	89.55	-5,101.28	-1,144.80	4,033.23	3,813.17	220.06	18.328		
15,600.00	7,870.00	14,216.63	7,828.43	113.69	113.60	89.57	-5,144.89	-1,145.15	4,033.73	3,811.75	221.98	18.172		
15,700.00	7,870.00	14,446.02	7,826.30	115.28	117.51	89.54	-5,374.22	-1,146.83	4,035.11	3,806.70	228.41	17.666		
15,800.00	7,870.00	14,498.98	7,825.04	116.87	118.42	89.52	-5,427.16	-1,146.32	4,033.79	3,803.12	230.67	17.487		
15,900.00	7,870.00	15,900.00	7,825.12	118.47	142.50	89.52	-5,541.38	-1,145.61	4,032.83	3,776.34	256.49	15.723		
16,000.00	7,870.00	14,685.99	7,826.51	120.07	121.64	89.54	-5,614.14	-1,144.95	4,031.69	3,794.59	237.11	17.004		
16,040.76	7,870.00	14,708.00	7,827.07	120.73	122.02	89.55	-5,636.14	-1,144.98	4,031.60	3,793.57	238.03	16.937		
16,100.00	7,870.00	14,745.91	7,827.99	121.68	122.67	89.56	-5,674.04	-1,145.23	4,031.77	3,792.26	239.51	16.833		
16,200.00	7,870.00	14,824.27	7,829.25	123.30	124.01	89.58	-5,752.39	-1,146.24	4,032.68	3,790.33	242.35	16.640		
16,300.00	7,870.00	14,911.50	7,828.79	124.91	125.51	89.57	-5,839.60	-1,147.41	4,033.72	3,788.31	245.41	16.437		
16,400.00	7,870.00	14,976.00	7,828.84	126.53	126.61	89.57	-5,904.08	-1,148.95	4,035.68	3,787.80	247.88	16.281		
16,500.00	7,870.00	15,058.45	7,829.60	128.16	128.02	89.58	-5,986.49	-1,151.45	4,038.34	3,787.53	250.81	16.101		
16,600.00	7,870.00	16,600.00	7,829.46	129.79	154.51	89.58	-6,151.32	-1,155.00	4,040.11	3,760.60	279.51	14.454		
16,686.63	7,870.00	15,353.99	7,829.51	131.20	133.10	89.58	-6,281.98	-1,155.39	4,039.81	3,779.92	259.89	15.545		
16,700.00	7,870.00	15,359.95	7,829.55	131.42	133.20	89.58	-6,287.94	-1,155.42	4,039.82	3,779.67	260.16	15.528		
16,800.00	7,870.00	15,421.00	7,830.84	133.05	134.26	89.60	-6,348.97	-1,156.32	4,040.77	3,778.18	262.59	15.388		
16,900.00	7,870.00	15,494.14	7,833.35	134.69	135.51	89.64	-6,422.05	-1,158.00	4,042.59	3,777.27	265.31	15.237		
17,000.00	7,870.00	15,577.18	7,835.35	136.33	136.94	89.66	-6,505.03	-1,159.92	4,044.55	3,776.27	268.28	15.076		
17,100.00	7,870.00	15,722.33	7,838.09	137.97	139.44	89.70	-6,650.13	-1,162.79	4,046.17	3,773.32	272.85	14.829		
17,200.00	7,870.00	15,798.91	7,839.88	139.62	140.76	89.73	-6,726.68	-1,164.05	4,047.49	3,771.82	275.67	14.683		
17,300.00	7,870.00	16,062.56	7,841.63	141.27	145.32	89.75	-6,990.26	-1,165.63	4,048.70	3,765.60	283.10	14.301		
17,400.00	7,870.00	16,119.17	7,842.91	142.92	146.31	89.77	-7,046.85	-1,164.81	4,046.90	3,761.38	285.51	14.174		
17,500.00	7,870.00	16,181.41	7,844.90	144.58	147.39	89.80	-7,109.05	-1,164.54	4,046.11	3,758.08	288.03	14.048		
17,538.35	7,870.00	16,206.05	7,845.65	145.21	147.82	89.81	-7,133.68	-1,164.58	4,046.04	3,757.04	289.00	14.000		
17,600.00	7,870.00	16,246.55	7,846.72	146.23	148.52	89.83	-7,174.17	-1,164.83	4,046.21	3,755.62	290.59	13.924		
17,700.00	7,870.00	16,313.81	7,847.19	147.89	149.68	89.83	-7,241.42	-1,165.69	4,047.14	3,753.96	293.18	13.804		
17,800.00	7,870.00	16,404.29	7,847.51	149.56	151.25	89.84	-7,331.87	-1,167.34	4,048.62	3,752.26	296.36	13.661		
17,900.00	7,870.00	16,563.55	7,851.05	151.22	154.01	89.89	-7,491.09	-1,168.78	4,049.02	3,747.71	301.31	13.438		
18,000.00	7,870.00	16,688.53	7,856.40	152.89	156.18	89.96	-7,615.95	-1,168.83	4,048.69	3,743.30	305.39	13.257		
18,100.00	7,870.00	16,770.55	7,858.32	154.55	157.61	89.99	-7,697.95	-1,168.96	4,048.49	3,740.10	308.39	13.128		
18,200.00	7,870.00	16,903.50	7,861.32	156.22	159.92	90.03	-7,830.86	-1,168.49	4,047.73	3,735.07	312.66	12.946		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,870.00	16,973.00	7,863.06	157.90	161.13	90.06	-7,900.34	-1,168.27	4,047.12	3,731.77	315.35	12.834	
18,311.67	7,870.00	16,979.63	7,863.15	158.09	161.25	90.06	-7,906.96	-1,168.29	4,047.11	3,731.49	315.63	12.822	
18,400.00	7,870.00	17,043.99	7,863.22	159.57	162.36	90.06	-7,971.33	-1,168.84	4,047.52	3,729.45	318.06	12.725	
18,500.00	7,870.00	17,239.63	7,868.57	161.25	165.77	90.14	-8,166.87	-1,167.89	4,046.48	3,722.59	323.90	12.493	
18,600.00	7,870.00	17,327.62	7,869.81	162.93	167.31	90.15	-8,254.84	-1,166.76	4,044.86	3,717.80	327.07	12.367	
18,700.00	7,870.00	17,445.35	7,867.87	164.60	169.36	90.13	-8,372.54	-1,165.30	4,043.30	3,712.36	330.94	12.218	
18,797.52	7,870.00	17,471.00	7,867.23	166.24	169.81	90.12	-8,398.18	-1,164.90	4,042.08	3,709.53	332.55	12.155 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-53.18	786.89	-1,051.10	1,313.06					
100.00	100.00	88.01	88.01	0.13	0.15	-53.18	786.92	-1,051.11	1,313.04	1,312.76	0.28	4,676.721	CC	
200.00	200.00	186.90	186.90	0.49	0.31	-53.18	787.04	-1,051.16	1,313.16	1,312.36	0.80	1,634.025		
300.00	300.00	285.78	285.78	0.85	0.48	-53.17	787.26	-1,051.26	1,313.36	1,312.04	1.33	990.090		
400.00	400.00	381.97	381.97	1.21	0.76	-53.16	787.63	-1,051.40	1,313.72	1,311.75	1.97	667.591	ES	
500.00	500.00	476.85	476.85	1.57	1.10	-53.14	788.43	-1,051.67	1,314.45	1,311.78	2.67	492.961		
600.00	600.00	571.72	571.71	1.93	1.44	-53.11	789.67	-1,052.07	1,315.57	1,312.20	3.36	390.969		
700.00	700.00	674.48	674.46	2.29	1.81	-53.06	791.28	-1,052.47	1,316.82	1,312.73	4.09	321.847		
800.00	800.00	763.98	763.94	2.64	2.13	-53.03	792.68	-1,053.09	1,318.32	1,313.55	4.77	276.367		
900.00	900.00	864.43	864.36	3.00	2.49	-52.98	794.72	-1,053.99	1,320.26	1,314.77	5.49	240.550		
1,000.00	1,000.00	971.80	971.72	3.36	2.87	-52.93	796.61	-1,054.51	1,321.70	1,315.46	6.23	212.095		
1,100.00	1,099.98	1,069.31	1,069.15	3.72	3.22	-107.44	800.18	-1,053.57	1,323.66	1,316.73	6.93	190.877		
1,200.00	1,199.84	1,180.82	1,180.53	4.07	3.62	-107.40	805.16	-1,051.46	1,326.44	1,318.75	7.69	172.576		
1,300.00	1,299.45	1,285.31	1,284.88	4.43	3.99	-107.48	809.85	-1,048.46	1,329.47	1,321.06	8.42	157.945		
1,400.00	1,398.70	1,372.12	1,371.47	4.80	4.31	-107.57	815.06	-1,045.42	1,333.97	1,324.88	9.10	146.651		
1,500.00	1,497.47	1,463.91	1,462.80	5.18	4.65	-107.65	823.10	-1,041.14	1,340.28	1,330.47	9.81	136.609		
1,600.00	1,595.62	1,558.43	1,556.51	5.57	5.00	-107.72	833.99	-1,035.35	1,348.12	1,337.56	10.56	127.645		
1,700.00	1,693.06	1,648.57	1,645.52	6.00	5.36	-107.77	846.56	-1,028.70	1,357.50	1,346.17	11.33	119.854		
1,800.00	1,789.64	1,725.57	1,721.41	6.45	5.67	-107.81	858.42	-1,023.39	1,369.19	1,357.12	12.07	113.450		
1,900.00	1,885.27	1,805.39	1,800.08	6.94	5.99	-107.93	871.21	-1,018.97	1,383.47	1,370.62	12.85	107.624		
2,000.00	1,979.82	1,883.61	1,877.17	7.47	6.31	-108.12	883.99	-1,015.76	1,400.27	1,386.61	13.67	102.460		
2,100.00	2,073.17	1,958.59	1,951.09	8.05	6.62	-108.35	896.42	-1,013.85	1,419.74	1,405.24	14.50	97.930		
2,200.00	2,165.21	2,050.58	2,041.80	8.67	7.00	-108.80	911.70	-1,012.80	1,441.70	1,426.25	15.45	93.322		
2,300.00	2,255.84	2,183.78	2,173.04	9.35	7.56	-109.72	934.06	-1,008.73	1,463.74	1,447.09	16.65	87.891		
2,400.00	2,344.94	2,271.72	2,259.52	10.09	7.94	-110.20	949.47	-1,004.48	1,486.28	1,468.59	17.69	84.006		
2,500.00	2,432.39	2,364.17	2,350.42	10.89	8.35	-110.80	965.69	-1,000.18	1,510.65	1,491.85	18.80	80.357		
2,519.29	2,449.07	2,381.34	2,367.32	11.05	8.42	-110.91	968.65	-999.42	1,515.56	1,496.54	19.01	79.707		
2,600.00	2,518.69	2,453.12	2,438.00	11.74	8.73	-111.79	980.81	-996.45	1,536.51	1,516.59	19.92	77.144		
2,700.00	2,604.95	2,543.01	2,526.58	12.62	9.12	-112.88	995.74	-993.00	1,563.12	1,542.07	21.05	74.263		
2,800.00	2,691.22	2,684.76	2,666.33	13.52	9.74	-114.54	1,018.37	-986.09	1,589.35	1,566.89	22.46	70.776		
2,900.00	2,777.48	2,782.91	2,762.70	14.43	10.17	-115.56	1,034.98	-977.72	1,613.28	1,589.62	23.66	68.196		
3,000.00	2,863.75	2,846.54	2,825.22	15.35	10.46	-116.22	1,046.00	-973.36	1,639.22	1,614.54	24.67	66.436		
3,100.00	2,950.01	2,926.44	2,903.93	16.28	10.81	-117.06	1,059.03	-969.23	1,666.70	1,640.94	25.76	64.697		
3,200.00	3,036.27	3,017.72	2,994.13	17.22	11.20	-118.06	1,072.53	-965.59	1,695.13	1,668.24	26.89	63.036		
3,300.00	3,122.54	3,189.81	3,164.49	18.17	11.92	-119.93	1,094.55	-955.46	1,721.76	1,693.35	28.42	60.592		
3,400.00	3,208.80	3,258.20	3,231.95	19.13	12.22	-120.60	1,104.27	-949.91	1,747.46	1,718.03	29.43	59.378		
3,500.00	3,295.07	3,336.68	3,309.37	20.09	12.56	-121.34	1,115.90	-944.29	1,774.60	1,744.12	30.48	58.219		
3,600.00	3,381.33	3,426.48	3,398.08	21.05	12.95	-122.20	1,128.56	-938.53	1,802.61	1,771.03	31.58	57.075		
3,700.00	3,467.59	3,510.92	3,481.31	22.02	13.32	-122.94	1,141.61	-932.81	1,831.10	1,798.45	32.65	56.077		
3,800.00	3,553.86	3,591.15	3,560.58	22.99	13.67	-123.67	1,153.06	-928.22	1,860.55	1,826.87	33.68	55.243		
3,900.00	3,640.12	3,709.35	3,677.67	23.97	14.16	-124.77	1,167.99	-922.04	1,890.48	1,855.60	34.89	54.186		
4,000.00	3,726.38	3,781.40	3,748.97	24.95	14.47	-125.40	1,177.39	-917.58	1,920.02	1,884.17	35.84	53.565		
4,100.00	3,812.65	3,850.21	3,816.83	25.93	14.77	-125.95	1,188.07	-913.84	1,951.10	1,914.32	36.78	53.043		
4,200.00	3,898.91	3,919.76	3,885.29	26.91	15.08	-126.47	1,199.92	-910.54	1,983.47	1,945.75	37.72	52.582		
4,300.00	3,985.18	3,988.00	3,952.65	27.90	15.38	-126.99	1,210.60	-908.46	2,017.27	1,978.64	38.63	52.224		
4,400.00	4,071.44	4,094.43	4,057.93	28.88	15.83	-127.83	1,225.98	-905.67	2,051.53	2,011.77	39.76	51.601		
4,500.00	4,157.70	4,206.96	4,168.83	29.87	16.33	-128.61	1,244.54	-901.30	2,085.37	2,044.42	40.95	50.924		
4,600.00	4,243.97	4,300.25	4,260.61	30.86	16.75	-129.22	1,260.52	-896.45	2,118.34	2,076.31	42.02	50.407		
4,700.00	4,330.23	4,379.81	4,338.87	31.85	17.11	-129.71	1,274.42	-892.99	2,152.31	2,109.31	43.00	50.052		
4,800.00	4,416.49	4,483.83	4,441.15	32.84	17.58	-130.34	1,292.75	-888.21	2,186.30	2,142.16	44.14	49.527		
4,900.00	4,502.76	4,544.13	4,500.56	33.84	17.85	-130.71	1,302.80	-885.95	2,221.02	2,176.05	44.96	49.395		
5,000.00	4,589.02	4,686.70	4,641.25	34.83	18.48	-131.59	1,325.11	-880.19	2,255.71	2,209.38	46.33	48.693		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	4,813.25	4,766.09	35.82	19.04	-132.34	1,344.26	-872.24	2,288.31	2,240.74	47.56	48.109		
5,200.00	4,761.55	4,962.31	4,912.11	36.82	19.74	-133.08	1,371.01	-858.88	2,318.82	2,269.82	48.99	47.328		
5,300.00	4,847.81	5,042.02	4,990.14	37.82	20.11	-133.45	1,385.44	-851.29	2,349.22	2,299.25	49.97	47.010		
5,400.00	4,934.08	5,113.84	5,060.64	38.81	20.45	-133.81	1,397.64	-845.11	2,380.48	2,329.60	50.88	46.788		
5,500.00	5,020.34	5,184.64	5,130.43	39.81	20.76	-134.18	1,408.42	-839.95	2,412.86	2,361.11	51.75	46.628		
5,600.00	5,106.60	5,322.19	5,266.01	40.81	21.37	-134.91	1,428.36	-828.20	2,443.85	2,390.83	53.02	46.096		
5,700.00	5,192.87	5,397.96	5,340.75	41.81	21.71	-135.31	1,439.13	-821.94	2,475.56	2,421.66	53.90	45.928		
5,800.00	5,279.13	5,475.92	5,417.46	42.81	22.06	-135.67	1,451.59	-815.73	2,507.90	2,453.09	54.81	45.759		
5,900.00	5,365.40	5,546.68	5,487.11	43.81	22.38	-136.00	1,462.95	-810.67	2,541.11	2,485.45	55.66	45.655		
6,000.00	5,451.66	5,620.18	5,559.66	44.81	22.70	-136.36	1,473.74	-806.08	2,575.18	2,518.67	56.50	45.576		
6,100.00	5,537.92	5,688.83	5,627.47	45.81	23.01	-136.69	1,483.81	-802.34	2,610.13	2,552.82	57.31	45.546		
6,200.00	5,624.19	5,750.86	5,688.59	46.81	23.28	-136.95	1,493.99	-799.48	2,646.09	2,588.03	58.07	45.570		
6,300.00	5,710.45	5,811.90	5,748.85	47.81	23.55	-137.23	1,503.49	-797.47	2,683.30	2,624.50	58.80	45.632		
6,400.00	5,796.72	5,902.14	5,837.77	48.81	23.95	-137.59	1,518.68	-794.84	2,721.04	2,661.27	59.77	45.527		
6,500.00	5,882.98	6,000.00	5,958.17	49.81	26.55	-138.10	1,538.30	-791.32	2,759.02	2,696.02	63.01	43.788		
6,600.00	5,969.24	6,149.94	6,082.49	50.82	25.03	-138.65	1,556.05	-785.15	2,794.89	2,732.76	62.14	44.981		
6,700.00	6,055.51	6,211.54	6,143.46	51.82	25.29	-138.92	1,564.38	-782.34	2,831.34	2,768.50	62.85	45.053		
6,800.00	6,141.77	6,285.97	6,217.27	52.82	25.60	-139.26	1,573.62	-779.75	2,868.82	2,805.20	63.63	45.088		
6,900.00	6,228.03	6,373.89	6,304.40	53.83	25.97	-139.64	1,584.88	-776.72	2,906.51	2,842.01	64.50	45.060		
7,000.00	6,314.30	6,477.49	6,406.79	54.83	26.42	-140.04	1,600.34	-773.30	2,944.51	2,878.98	65.53	44.937		
7,100.00	6,400.56	7,100.00	6,530.43	55.83	29.24	-140.46	1,621.41	-767.42	2,981.21	2,912.23	68.98	43.217		
7,200.00	6,486.83	6,669.02	6,595.37	56.84	27.28	-140.67	1,632.57	-764.23	3,018.05	2,950.54	67.51	44.703		
7,300.00	6,573.09	7,140.00	7,060.46	57.84	29.04	-143.01	1,662.94	-720.26	3,053.90	2,983.82	70.08	43.576		
7,400.00	6,659.35	7,140.00	7,060.46	58.84	29.04	-143.01	1,662.94	-720.26	3,081.69	3,011.16	70.53	43.693		
7,500.00	6,745.62	7,140.00	7,060.46	59.85	29.04	-143.01	1,662.94	-720.26	3,112.44	3,041.53	70.91	43.893		
7,600.00	6,831.88	7,183.47	7,103.02	60.85	29.12	-143.39	1,655.97	-714.98	3,144.46	3,073.19	71.27	44.121		
7,700.00	6,918.14	7,229.00	7,147.18	61.86	29.19	-143.85	1,645.29	-712.24	3,180.34	3,108.77	71.57	44.436		
7,800.00	7,004.41	7,229.00	7,147.18	62.86	29.19	-143.85	1,645.29	-712.24	3,217.21	3,145.40	71.82	44.798		
7,900.00	7,090.67	7,229.00	7,147.18	63.87	29.19	-143.85	1,645.29	-712.24	3,256.74	3,184.73	72.01	45.229		
8,000.00	7,176.94	7,229.00	7,147.18	64.87	29.19	-143.85	1,645.29	-712.24	3,298.82	3,226.68	72.14	45.726		
8,027.52	7,200.68	7,229.00	7,147.18	65.15	29.19	-143.85	1,645.29	-712.24	3,310.84	3,238.67	72.17	45.873		
8,050.00	7,220.18	7,229.00	7,147.18	65.37	29.19	-148.36	1,645.29	-712.24	3,320.82	3,248.63	72.19	45.999		
8,100.00	7,264.25	7,267.18	7,183.64	65.85	29.22	-159.76	1,633.99	-711.66	3,342.80	3,270.55	72.25	46.266		
8,150.00	7,308.99	7,278.11	7,193.97	66.28	29.22	-172.10	1,630.42	-711.69	3,365.70	3,293.43	72.27	46.570		
8,200.00	7,354.07	7,318.00	7,231.21	66.67	29.25	174.67	1,616.15	-712.48	3,389.35	3,317.07	72.28	46.895		
8,250.00	7,399.14	7,318.00	7,231.21	67.02	29.25	161.75	1,616.15	-712.48	3,412.37	3,340.12	72.25	47.228		
8,300.00	7,443.85	7,318.00	7,231.21	67.32	29.25	149.55	1,616.15	-712.48	3,435.45	3,363.24	72.21	47.577		
8,350.00	7,487.88	7,318.00	7,231.21	67.56	29.25	138.57	1,616.15	-712.48	3,458.42	3,386.27	72.15	47.935		
8,400.00	7,530.87	7,349.41	7,260.01	67.75	29.26	128.99	1,603.68	-713.67	3,480.81	3,408.74	72.07	48.296		
8,450.00	7,572.51	7,370.56	7,279.16	67.90	29.26	120.83	1,594.75	-714.59	3,502.51	3,430.52	71.99	48.653		
8,500.00	7,612.48	7,408.00	7,312.55	68.00	29.26	113.96	1,577.92	-716.48	3,523.42	3,451.53	71.89	49.011		
8,550.00	7,650.47	7,421.20	7,324.14	68.05	29.26	108.11	1,571.65	-717.18	3,543.14	3,471.34	71.80	49.350		
8,600.00	7,686.20	7,478.90	7,373.38	68.06	29.24	103.34	1,541.72	-719.88	3,561.46	3,489.84	71.63	49.722		
8,650.00	7,719.39	7,586.00	7,456.15	68.03	29.15	99.47	1,474.12	-722.24	3,577.54	3,506.35	71.19	50.255		
8,700.00	7,749.79	7,586.00	7,456.15	67.97	29.15	96.02	1,474.12	-722.24	3,592.01	3,520.87	71.14	50.489		
8,750.00	7,777.17	7,586.00	7,456.15	67.87	29.15	93.09	1,474.12	-722.24	3,605.30	3,534.19	71.11	50.700		
8,800.00	7,801.32	7,625.34	7,482.77	67.74	29.10	90.82	1,445.17	-722.76	3,616.42	3,545.53	70.89	51.014		
8,850.00	7,822.06	7,636.54	7,489.95	67.59	29.08	88.88	1,436.59	-723.11	3,626.51	3,555.68	70.83	51.199		
8,900.00	7,839.23	7,675.00	7,513.28	67.41	29.03	87.49	1,406.08	-725.02	3,635.49	3,564.86	70.63	51.471		
8,950.00	7,852.69	7,675.00	7,513.28	67.22	29.03	86.28	1,406.08	-725.02	3,642.17	3,571.49	70.68	51.530		
9,000.00	7,862.35	7,675.00	7,513.28	67.00	29.03	85.40	1,406.08	-725.02	3,647.36	3,576.60	70.75	51.551		
9,050.00	7,868.14	7,735.65	7,546.53	66.78	28.94	85.29	1,355.49	-728.40	3,650.85	3,580.38	70.47	51.805		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,098.65	7,870.00	7,978.98	7,649.15	66.55	28.72	86.70	1,135.38	-731.56	3,650.90	3,581.84	69.06	52.865		
9,100.00	7,870.00	7,980.31	7,649.58	66.55	28.72	86.71	1,134.12	-731.54	3,650.83	3,581.78	69.06	52.867		
9,200.00	7,870.00	8,099.30	7,680.52	66.09	28.74	87.19	1,019.35	-728.14	3,646.13	3,577.45	68.68	53.089		
9,300.00	7,870.00	8,179.20	7,693.91	65.65	28.83	87.40	940.66	-725.17	3,641.26	3,572.65	68.61	53.072		
9,400.00	7,870.00	8,252.78	7,701.57	65.24	28.95	87.52	867.54	-722.78	3,637.19	3,568.54	68.65	52.985		
9,500.00	7,870.00	8,422.23	7,699.32	64.85	29.47	87.48	698.28	-715.99	3,633.18	3,564.71	68.47	53.062		
9,600.00	7,870.00	8,521.33	7,698.40	64.48	29.93	87.46	599.36	-710.29	3,627.14	3,558.39	68.75	52.758		
9,700.00	7,870.00	8,566.00	7,698.30	64.13	30.16	87.46	554.74	-708.11	3,622.13	3,552.95	69.18	52.358		
9,800.00	7,870.00	8,624.23	7,698.63	63.80	30.52	87.46	496.55	-706.07	3,618.40	3,548.71	69.69	51.919		
9,900.00	7,870.00	8,701.35	7,700.16	63.50	31.02	87.48	419.45	-704.64	3,616.05	3,545.73	70.32	51.425		
10,000.00	7,870.00	8,773.99	7,702.35	63.22	31.55	87.52	346.86	-703.30	3,613.84	3,542.80	71.04	50.871		
10,100.00	7,870.00	8,833.00	7,704.58	62.96	32.00	87.55	287.90	-703.30	3,613.14	3,541.34	71.80	50.324		
10,115.28	7,870.00	8,833.00	7,704.58	62.92	32.00	87.55	287.90	-703.30	3,613.10	3,541.22	71.89	50.261		
10,200.00	7,870.00	8,863.98	7,705.75	62.72	32.26	87.57	256.94	-703.77	3,613.82	3,541.32	72.50	49.846		
10,300.00	7,870.00	8,922.00	7,707.41	62.50	32.74	87.60	198.97	-705.41	3,616.06	3,542.70	73.36	49.295		
10,400.00	7,870.00	9,001.85	7,709.50	62.31	33.45	87.63	119.21	-708.34	3,619.22	3,544.81	74.41	48.636		
10,500.00	7,870.00	9,187.51	7,712.18	62.15	35.24	87.68	-66.38	-712.72	3,621.13	3,544.75	76.38	47.407		
10,600.00	7,870.00	9,314.60	7,713.63	62.01	36.60	87.70	-193.46	-713.63	3,621.43	3,543.26	78.17	46.325		
10,700.00	7,870.00	9,431.36	7,712.21	61.90	37.92	87.68	-310.20	-713.97	3,621.45	3,541.44	80.02	45.258		
10,800.00	7,870.00	9,545.00	7,709.56	61.82	39.27	87.63	-423.80	-713.01	3,620.30	3,538.33	81.96	44.169		
10,883.64	7,870.00	9,601.67	7,708.26	61.78	39.96	87.61	-480.46	-712.60	3,619.65	3,536.42	83.23	43.489		
10,900.00	7,870.00	9,608.98	7,708.11	61.78	40.05	87.61	-487.77	-712.63	3,619.67	3,536.24	83.43	43.385		
11,000.00	7,870.00	9,712.08	7,706.22	61.77	41.34	87.58	-590.84	-713.56	3,620.33	3,534.88	85.45	42.369		
11,100.00	7,870.00	9,857.38	7,704.29	61.81	43.23	87.55	-736.13	-713.34	3,619.90	3,531.74	88.16	41.059		
11,200.00	7,870.00	9,901.00	7,703.92	61.90	43.81	87.54	-779.75	-712.89	3,619.16	3,529.63	89.53	40.425		
11,211.86	7,870.00	9,930.55	7,703.70	61.91	44.21	87.54	-809.29	-712.75	3,618.89	3,528.83	90.06	40.185		
11,300.00	7,870.00	9,961.32	7,703.47	62.03	44.62	87.54	-840.06	-713.09	3,619.57	3,528.41	91.16	39.705		
11,400.00	7,870.00	10,011.46	7,703.09	62.23	45.30	87.53	-890.18	-714.55	3,622.00	3,529.34	92.66	39.088		
11,500.00	7,870.00	10,179.85	7,703.23	62.50	47.61	87.54	-1,058.50	-718.86	3,624.37	3,528.26	96.12	37.708		
11,600.00	7,870.00	10,402.55	7,710.29	62.84	50.82	87.65	-1,281.07	-718.54	3,623.77	3,523.03	100.75	35.969		
11,700.00	7,870.00	10,489.77	7,712.83	63.25	52.11	87.69	-1,368.23	-716.80	3,621.36	3,518.25	103.12	35.120		
11,800.00	7,870.00	10,596.40	7,713.40	63.76	53.70	87.69	-1,474.85	-715.30	3,619.62	3,513.75	105.87	34.190		
11,900.00	7,870.00	10,660.31	7,713.39	64.34	54.66	87.69	-1,538.75	-714.31	3,617.82	3,509.95	107.87	33.540		
12,000.00	7,870.00	10,722.72	7,713.56	65.01	55.60	87.70	-1,601.16	-714.24	3,617.29	3,507.44	109.85	32.929		
12,100.00	7,870.00	10,885.51	7,715.16	65.77	58.08	87.72	-1,763.94	-713.65	3,616.71	3,502.87	113.84	31.771		
12,200.00	7,870.00	10,933.97	7,715.87	66.61	58.83	87.73	-1,812.39	-713.32	3,615.60	3,499.99	115.61	31.274		
12,231.92	7,870.00	10,950.32	7,716.05	66.89	59.08	87.73	-1,828.74	-713.35	3,615.53	3,499.33	116.20	31.115		
12,300.00	7,870.00	11,011.54	7,716.55	67.51	60.03	87.74	-1,889.95	-713.78	3,615.74	3,497.76	117.98	30.647		
12,400.00	7,870.00	11,096.14	7,717.18	68.49	61.34	87.75	-1,974.55	-714.15	3,615.86	3,495.35	120.52	30.003		
12,500.00	7,870.00	11,153.96	7,716.65	69.52	62.24	87.74	-2,032.36	-715.07	3,617.11	3,494.62	122.50	29.529		
12,600.00	7,870.00	11,272.16	7,715.04	70.61	64.09	87.72	-2,150.54	-716.65	3,618.08	3,492.30	125.78	28.766		
12,700.00	7,870.00	11,327.00	7,714.63	71.75	64.96	87.71	-2,205.36	-717.88	3,620.00	3,492.28	127.72	28.344		
12,800.00	7,870.00	11,503.35	7,714.72	72.93	67.75	87.72	-2,381.68	-721.13	3,621.53	3,489.17	132.36	27.362		
12,900.00	7,870.00	11,552.50	7,715.13	74.14	68.53	87.72	-2,430.83	-721.84	3,622.62	3,488.40	134.22	26.990		
13,000.00	7,870.00	11,607.49	7,715.65	75.39	69.41	87.73	-2,485.79	-723.49	3,625.16	3,488.95	136.20	26.616		
13,100.00	7,870.00	11,738.01	7,717.89	76.67	71.50	87.77	-2,616.22	-727.50	3,627.84	3,487.89	139.94	25.924		
13,200.00	7,870.00	13,200.00	7,717.53	77.98	95.29	87.77	-2,806.06	-729.82	3,628.65	3,462.86	165.78	21.888		
13,300.00	7,870.00	12,027.12	7,716.32	79.31	76.20	87.75	-2,905.30	-729.54	3,628.08	3,479.94	148.14	24.491		
13,335.24	7,870.00	12,053.85	7,715.64	79.79	76.63	87.74	-2,932.01	-729.58	3,628.04	3,479.00	149.04	24.343		
13,400.00	7,870.00	12,106.37	7,714.48	80.67	77.49	87.72	-2,984.52	-729.80	3,628.15	3,477.39	150.76	24.065		
13,500.00	7,870.00	12,243.60	7,715.09	82.04	79.75	87.73	-3,121.74	-730.34	3,628.27	3,473.49	154.77	23.442		
13,600.00	7,870.00	12,427.00	7,719.60	83.43	82.80	87.80	-3,305.04	-726.98	3,625.65	3,465.74	159.90	22.674		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,700.00	7,870.00	12,486.00	7,721.19	84.84	83.78	87.82	-3,364.01	-725.86	3,623.28	3,461.13	162.15	22.345		
13,800.00	7,870.00	12,556.90	7,723.05	86.27	84.96	87.85	-3,434.88	-725.20	3,621.89	3,457.22	164.67	21.995		
13,894.68	7,870.00	12,613.50	7,724.22	87.63	85.91	87.87	-3,491.47	-725.09	3,621.34	3,454.55	166.79	21.711		
13,900.00	7,870.00	12,616.40	7,724.26	87.71	85.96	87.87	-3,494.37	-725.10	3,621.34	3,454.44	166.91	21.697		
14,000.00	7,870.00	12,686.24	7,724.79	89.16	87.12	87.88	-3,564.20	-725.88	3,622.01	3,452.63	169.38	21.384		
14,100.00	7,870.00	12,885.44	7,726.18	90.63	90.45	87.90	-3,763.36	-724.09	3,619.96	3,444.94	175.02	20.683		
14,200.00	7,870.00	12,931.00	7,727.11	92.10	91.22	87.91	-3,808.91	-723.90	3,618.99	3,442.04	176.95	20.452		
14,212.11	7,870.00	12,931.00	7,727.11	92.28	91.22	87.91	-3,808.91	-723.90	3,618.97	3,441.93	177.05	20.441		
14,300.00	7,870.00	12,974.45	7,728.11	93.59	91.95	87.93	-3,852.35	-724.39	3,619.55	3,440.76	178.79	20.244		
14,400.00	7,870.00	13,031.91	7,729.28	95.09	92.91	87.95	-3,909.78	-725.72	3,621.42	3,440.45	180.96	20.012		
14,500.00	7,870.00	13,116.41	7,730.42	96.60	94.32	87.97	-3,994.23	-728.28	3,624.05	3,440.24	183.81	19.716		
14,600.00	7,870.00	13,257.75	7,731.35	98.11	96.68	87.98	-4,135.51	-732.36	3,626.69	3,438.55	188.14	19.276		
14,700.00	7,870.00	13,404.30	7,731.98	99.64	99.15	87.99	-4,282.05	-733.68	3,627.00	3,434.39	192.61	18.831		
14,800.00	7,870.00	13,466.00	7,733.32	101.17	100.19	88.01	-4,343.73	-734.72	3,628.14	3,433.22	194.93	18.613		
14,900.00	7,870.00	13,545.95	7,734.21	102.71	101.54	88.03	-4,423.64	-736.68	3,630.15	3,432.45	197.70	18.362		
15,000.00	7,870.00	13,713.96	7,731.06	104.26	104.38	87.98	-4,591.60	-739.13	3,631.42	3,428.68	202.74	17.912		
15,100.00	7,870.00	13,861.09	7,728.28	105.82	106.89	87.94	-4,738.70	-737.70	3,629.82	3,422.59	207.23	17.516		
15,163.26	7,870.00	13,890.02	7,727.79	106.80	107.38	87.93	-4,767.62	-737.58	3,629.39	3,420.92	208.47	17.410		
15,200.00	7,870.00	13,911.00	7,727.44	107.38	107.74	87.92	-4,788.59	-737.66	3,629.42	3,420.13	209.28	17.342		
15,300.00	7,870.00	13,955.01	7,726.68	108.95	108.49	87.91	-4,832.59	-738.28	3,630.47	3,419.32	211.15	17.194		
15,400.00	7,870.00	14,011.31	7,725.61	110.52	109.44	87.89	-4,888.86	-739.87	3,632.94	3,419.64	213.29	17.033		
15,500.00	7,870.00	14,180.23	7,722.65	112.10	112.31	87.85	-5,057.71	-743.80	3,635.02	3,416.57	218.44	16.640		
15,600.00	7,870.00	14,337.17	7,721.42	113.69	114.99	87.83	-5,214.63	-744.92	3,635.49	3,412.23	223.26	16.284		
15,700.00	7,870.00	14,446.00	7,720.47	115.28	116.85	87.82	-5,323.46	-744.17	3,634.46	3,407.62	226.84	16.022		
15,773.32	7,870.00	14,492.61	7,720.58	116.44	117.65	87.82	-5,370.06	-744.00	3,634.03	3,405.42	228.62	15.896		
15,800.00	7,870.00	14,505.34	7,720.69	116.87	117.87	87.82	-5,382.79	-744.07	3,634.08	3,404.93	229.15	15.859		
15,900.00	7,870.00	14,581.55	7,721.82	118.47	119.17	87.84	-5,458.99	-745.16	3,635.04	3,403.15	231.89	15.676		
16,000.00	7,870.00	14,677.63	7,723.52	120.07	120.82	87.86	-5,555.04	-746.47	3,636.00	3,400.84	235.16	15.462		
16,100.00	7,870.00	14,789.63	7,727.52	121.68	122.74	87.93	-5,666.96	-748.27	3,637.16	3,398.29	238.87	15.226		
16,200.00	7,870.00	14,846.39	7,729.81	123.30	123.71	87.96	-5,723.66	-749.25	3,638.48	3,397.39	241.09	15.092		
16,300.00	7,870.00	14,902.63	7,732.36	124.91	124.67	88.01	-5,779.81	-751.09	3,641.18	3,397.91	243.27	14.968		
16,400.00	7,870.00	15,071.72	7,740.61	126.53	127.57	88.14	-5,948.63	-755.82	3,643.50	3,394.91	248.59	14.657		
16,500.00	7,870.00	15,159.00	7,744.76	128.16	129.07	88.20	-6,035.80	-757.35	3,644.79	3,393.14	251.65	14.483		
16,600.00	7,870.00	15,217.09	7,747.20	129.79	130.06	88.24	-6,093.82	-758.79	3,646.90	3,393.01	253.89	14.364		
16,700.00	7,870.00	15,323.70	7,750.84	131.42	131.89	88.30	-6,200.29	-762.65	3,650.12	3,392.64	257.48	14.176		
16,800.00	7,870.00	15,395.92	7,753.11	133.05	133.13	88.34	-6,272.44	-765.03	3,653.03	3,392.92	260.10	14.045		
16,900.00	7,870.00	15,469.79	7,754.62	134.69	134.39	88.36	-6,346.23	-768.17	3,656.85	3,394.11	262.75	13.918		
17,000.00	7,870.00	15,596.32	7,756.39	136.33	136.56	88.39	-6,472.62	-773.71	3,660.92	3,394.01	266.91	13.716		
17,100.00	7,870.00	15,796.59	7,758.05	137.97	140.00	88.42	-6,672.82	-778.50	3,662.97	3,389.87	273.10	13.413		
17,200.00	7,870.00	15,924.41	7,759.04	139.62	142.21	88.44	-6,800.63	-779.15	3,663.08	3,385.82	277.26	13.212		
17,300.00	7,870.00	16,149.62	7,752.41	141.27	146.12	88.33	-7,025.71	-776.48	3,662.11	3,378.29	283.82	12.903		
17,400.00	7,870.00	16,256.34	7,749.92	142.92	147.98	88.29	-7,132.30	-772.08	3,657.67	3,370.26	287.41	12.726		
17,500.00	7,870.00	16,312.00	7,749.86	144.58	148.95	88.29	-7,187.95	-770.87	3,654.90	3,365.14	289.76	12.614		
17,600.00	7,870.00	16,312.00	7,749.86	146.23	148.95	88.29	-7,187.95	-770.87	3,653.77	3,363.17	290.59	12.573		
17,617.42	7,870.00	16,338.13	7,750.08	146.52	149.40	88.29	-7,214.08	-770.80	3,653.59	3,362.16	291.42	12.537		
17,700.00	7,870.00	16,367.52	7,750.45	147.89	149.91	88.30	-7,243.46	-771.12	3,654.19	3,361.38	292.81	12.480		
17,800.00	7,870.00	16,408.20	7,751.16	149.56	150.62	88.31	-7,284.13	-772.27	3,656.52	3,361.97	294.55	12.414		
17,900.00	7,870.00	16,540.25	7,754.26	151.22	152.89	88.36	-7,416.08	-776.37	3,659.24	3,360.33	298.91	12.242		
18,000.00	7,870.00	18,000.00	7,758.78	152.89	178.17	88.43	-7,542.96	-779.00	3,660.82	3,334.62	326.21	11.222		
18,100.00	7,870.00	16,724.36	7,761.04	154.55	156.08	88.47	-7,600.01	-780.31	3,662.76	3,357.41	305.35	11.995		
18,200.00	7,870.00	16,791.02	7,763.57	156.22	157.23	88.51	-7,666.58	-782.82	3,666.01	3,358.19	307.82	11.910		
18,300.00	7,870.00	16,902.91	7,767.95	157.90	159.16	88.58	-7,778.30	-787.18	3,669.48	3,357.86	311.62	11.776		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,870.00	16,999.39	7,772.40	159.57	160.83	88.65	-7,874.60	-790.67	3,672.65	3,357.68	314.97	11.660	
18,500.00	7,870.00	17,087.06	7,774.35	161.25	162.34	88.68	-7,962.19	-794.07	3,676.15	3,358.10	318.05	11.558	
18,600.00	7,870.00	17,199.14	7,775.77	162.93	164.27	88.70	-8,074.17	-798.50	3,679.74	3,357.89	321.85	11.433	
18,700.00	7,870.00	17,337.44	7,777.94	164.60	166.66	88.74	-8,212.39	-802.83	3,682.48	3,356.07	326.41	11.282	
18,797.52	7,870.00	17,460.13	7,780.90	166.24	168.79	88.79	-8,335.01	-805.70	3,684.38	3,353.88	330.50	11.148 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-51.93	785.35	-1,002.62	1,315.39					
100.00	100.00	318.00	317.99	0.13	0.00	-51.93	785.35	-1,002.62	1,294.00	1,293.58	0.43	3,022.955		
200.00	200.00	318.00	317.99	0.49	0.00	-51.93	785.35	-1,002.62	1,280.10	1,279.55	0.54	2,357.800		
300.00	300.00	318.00	317.99	0.85	0.00	-51.93	785.35	-1,002.62	1,273.91	1,273.06	0.85	1,493.470		
328.99	328.99	318.00	317.99	0.96	0.00	-51.93	785.35	-1,002.62	1,273.58	1,272.63	0.96	1,332.907		
400.00	400.00	387.71	387.69	1.21	0.13	-51.97	784.70	-1,003.28	1,273.70	1,272.37	1.34	953.916		
500.00	500.00	490.36	490.34	1.57	0.31	-52.03	783.72	-1,004.04	1,273.70	1,271.82	1.88	678.198		
600.00	600.00	593.02	592.99	1.93	0.49	-52.08	782.70	-1,004.56	1,273.49	1,271.07	2.42	526.028		
623.30	623.30	616.94	616.91	2.01	0.54	-52.09	782.46	-1,004.65	1,273.41	1,270.87	2.55	499.876 CC		
700.00	700.00	678.44	678.40	2.29	0.80	-52.04	783.50	-1,004.28	1,273.80	1,270.72	3.08	412.999 ES		
800.00	800.00	767.14	767.00	2.64	1.11	-51.86	787.40	-1,002.67	1,275.08	1,271.33	3.75	340.259		
900.00	900.00	858.12	857.62	3.00	1.44	-51.51	794.65	-999.35	1,277.16	1,272.73	4.43	288.033		
1,000.00	1,000.00	945.21	944.05	3.36	1.76	-51.04	804.34	-994.83	1,280.11	1,274.99	5.12	249.943		
1,100.00	1,099.98	1,031.69	1,029.62	3.72	2.11	-105.11	815.81	-990.07	1,284.71	1,278.89	5.82	220.769		
1,200.00	1,199.84	1,126.88	1,123.54	4.07	2.51	-104.54	830.16	-984.10	1,290.90	1,284.33	6.56	196.653		
1,300.00	1,299.45	1,222.23	1,217.51	4.43	2.92	-104.07	845.11	-978.00	1,298.32	1,291.00	7.32	177.265		
1,400.00	1,398.70	1,335.01	1,328.71	4.80	3.41	-103.71	862.61	-970.98	1,306.70	1,298.52	8.17	159.863		
1,500.00	1,497.47	1,439.05	1,431.23	5.18	3.86	-103.49	878.40	-962.97	1,314.50	1,305.50	9.00	145.990		
1,600.00	1,595.62	1,522.52	1,513.40	5.57	4.24	-103.37	891.69	-956.74	1,323.81	1,314.05	9.77	135.563		
1,700.00	1,693.06	1,633.68	1,622.63	6.00	4.74	-103.37	910.46	-948.31	1,334.50	1,323.81	10.68	124.903		
1,800.00	1,789.64	1,747.31	1,734.51	6.45	5.25	-103.57	927.94	-938.82	1,344.39	1,332.75	11.64	115.498		
1,900.00	1,885.27	1,829.01	1,815.03	6.94	5.62	-103.78	940.24	-932.60	1,355.56	1,343.08	12.48	108.648		
2,000.00	1,979.82	1,911.36	1,896.21	7.47	5.98	-104.08	953.05	-927.44	1,369.01	1,355.66	13.35	102.551		
2,100.00	2,073.17	2,053.28	2,036.10	8.05	6.62	-104.94	974.66	-917.19	1,382.74	1,368.19	14.55	95.047		
2,200.00	2,165.21	2,152.32	2,133.59	8.67	7.07	-105.55	989.19	-907.54	1,395.25	1,379.65	15.60	89.455		
2,300.00	2,255.84	2,229.42	2,209.41	9.35	7.42	-106.01	1,001.18	-900.39	1,409.95	1,393.36	16.59	84.988		
2,400.00	2,344.94	2,305.10	2,283.85	10.09	7.77	-106.51	1,013.46	-894.37	1,427.41	1,409.79	17.62	81.022		
2,500.00	2,432.39	2,381.54	2,359.02	10.89	8.12	-107.05	1,026.31	-889.16	1,447.58	1,428.89	18.69	77.457		
2,519.29	2,449.07	2,396.35	2,373.59	11.05	8.19	-107.16	1,028.82	-888.25	1,451.78	1,432.88	18.90	76.813		
2,600.00	2,518.69	2,458.61	2,434.85	11.74	8.47	-107.97	1,039.39	-884.84	1,470.09	1,450.30	19.79	74.286		
2,700.00	2,604.95	2,554.92	2,529.70	12.62	8.90	-109.22	1,055.41	-880.05	1,493.63	1,472.63	21.00	71.132		
2,800.00	2,691.22	2,639.09	2,612.78	13.52	9.27	-110.33	1,068.44	-876.52	1,517.90	1,495.77	22.13	68.587		
2,900.00	2,777.48	2,746.11	2,718.61	14.43	9.73	-111.74	1,083.85	-872.59	1,542.82	1,519.45	23.38	65.995		
3,000.00	2,863.75	2,873.85	2,844.56	15.35	10.30	-113.26	1,103.26	-864.01	1,566.13	1,541.38	24.76	63.264		
3,100.00	2,950.01	2,994.52	2,963.74	16.28	10.83	-114.69	1,119.95	-855.19	1,589.24	1,563.16	26.08	60.945		
3,200.00	3,036.27	3,091.56	3,059.89	17.22	11.23	-115.88	1,130.70	-847.67	1,611.36	1,584.11	27.24	59.144		
3,300.00	3,122.54	3,205.58	3,172.91	18.17	11.70	-117.26	1,142.60	-838.39	1,633.56	1,605.09	28.47	57.369		
3,400.00	3,208.80	3,306.93	3,272.98	19.13	12.15	-118.37	1,155.06	-828.27	1,655.53	1,625.86	29.67	55.796		
3,500.00	3,295.07	3,401.61	3,366.05	20.09	12.58	-119.30	1,168.59	-817.46	1,677.49	1,646.64	30.85	54.379		
3,600.00	3,381.33	3,478.61	3,441.82	21.05	12.93	-120.04	1,179.49	-809.13	1,700.38	1,668.46	31.92	53.269		
3,700.00	3,467.59	3,547.39	3,509.75	22.02	13.23	-120.74	1,188.39	-803.01	1,724.95	1,692.03	32.92	52.398		
3,800.00	3,553.86	3,656.42	3,617.53	22.99	13.70	-121.84	1,202.09	-794.01	1,750.49	1,716.38	34.11	51.317		
3,900.00	3,640.12	3,781.16	3,740.24	23.97	14.27	-122.96	1,219.62	-780.05	1,774.09	1,738.69	35.40	50.110		
4,000.00	3,726.38	3,852.93	3,810.97	24.95	14.59	-123.61	1,229.02	-772.38	1,798.47	1,762.08	36.39	49.418		
4,100.00	3,812.65	3,919.64	3,877.00	25.93	14.87	-124.25	1,236.63	-766.68	1,824.63	1,787.31	37.32	48.892		
4,200.00	3,898.91	3,991.96	3,948.68	26.91	15.17	-124.95	1,244.67	-761.45	1,852.34	1,814.09	38.25	48.431		
4,300.00	3,985.18	4,066.48	4,022.34	27.90	15.50	-125.61	1,254.69	-756.34	1,881.37	1,842.18	39.19	48.001		
4,400.00	4,071.44	4,130.73	4,085.64	28.88	15.79	-126.11	1,264.98	-752.25	1,911.80	1,871.72	40.08	47.697		
4,500.00	4,157.70	4,250.29	4,203.49	29.87	16.32	-127.04	1,283.93	-745.58	1,943.37	1,902.05	41.32	47.030		
4,600.00	4,243.97	4,332.98	4,285.16	30.86	16.68	-127.69	1,295.75	-740.26	1,973.94	1,931.65	42.30	46.670		
4,700.00	4,330.23	4,447.59	4,398.57	31.85	17.17	-128.61	1,310.62	-733.07	2,004.71	1,961.27	43.44	46.146		
4,800.00	4,416.49	4,528.80	4,478.80	32.84	17.53	-129.21	1,321.84	-727.35	2,035.25	1,990.86	44.39	45.850		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,502.76	4,633.09	4,581.51	33.84	18.00	-129.92	1,338.28	-719.98	2,066.40	2,020.90	45.51	45.409		
5,000.00	4,589.02	4,717.70	4,664.64	34.83	18.39	-130.44	1,352.63	-713.46	2,097.38	2,050.88	46.50	45.103		
5,100.00	4,675.29	4,789.09	4,735.01	35.82	18.71	-130.90	1,363.68	-708.68	2,129.24	2,081.86	47.38	44.940		
5,200.00	4,761.55	4,963.30	4,906.63	36.82	19.50	-131.99	1,390.46	-695.57	2,160.95	2,112.02	48.93	44.165		
5,300.00	4,847.81	5,047.17	4,989.06	37.82	19.89	-132.48	1,403.27	-686.93	2,189.93	2,140.04	49.89	43.894		
5,400.00	4,934.08	5,109.51	5,050.56	38.81	20.17	-132.87	1,411.94	-681.65	2,220.51	2,169.82	50.69	43.807		
5,500.00	5,020.34	5,191.89	5,132.15	39.81	20.52	-133.43	1,421.67	-675.70	2,252.21	2,200.64	51.57	43.672		
5,600.00	5,106.60	5,391.59	5,329.38	40.81	21.39	-134.67	1,446.21	-656.61	2,282.13	2,228.99	53.14	42.945		
5,700.00	5,192.87	5,480.12	5,416.43	41.81	21.79	-135.17	1,458.10	-645.69	2,309.76	2,255.67	54.09	42.702		
5,800.00	5,279.13	5,533.00	5,468.45	42.81	22.03	-135.46	1,465.40	-639.67	2,338.64	2,283.81	54.82	42.657		
5,900.00	5,365.40	5,592.95	5,527.48	43.81	22.30	-135.77	1,474.00	-633.77	2,369.13	2,313.55	55.58	42.623		
6,000.00	5,451.66	5,648.38	5,582.13	44.81	22.55	-136.06	1,482.17	-629.34	2,401.41	2,345.11	56.29	42.658		
6,100.00	5,537.92	5,712.00	5,645.05	45.81	22.83	-136.41	1,490.57	-625.22	2,435.12	2,378.09	57.03	42.699		
6,200.00	5,624.19	5,776.88	5,709.36	46.81	23.10	-136.78	1,498.47	-621.80	2,470.05	2,412.30	57.74	42.775		
6,300.00	5,710.45	5,952.78	5,883.37	47.81	23.85	-137.70	1,521.52	-610.69	2,504.50	2,445.28	59.23	42.287		
6,400.00	5,796.72	6,073.72	6,002.39	48.81	24.40	-138.24	1,539.94	-599.69	2,536.39	2,476.01	60.38	42.010		
6,500.00	5,882.98	6,135.90	6,063.43	49.81	24.70	-138.49	1,550.41	-594.14	2,568.65	2,507.51	61.14	42.011		
6,600.00	5,969.24	6,191.81	6,118.30	50.82	24.96	-138.70	1,560.23	-589.78	2,602.15	2,540.30	61.85	42.072		
6,700.00	6,055.51	6,246.00	6,171.66	51.82	25.21	-138.92	1,569.05	-586.47	2,637.18	2,574.66	62.52	42.181		
6,800.00	6,141.77	6,303.12	6,228.10	52.82	25.45	-139.17	1,577.43	-583.81	2,673.59	2,610.42	63.17	42.321		
6,900.00	6,228.03	6,484.56	6,407.73	53.83	26.22	-140.00	1,600.96	-574.08	2,709.84	2,645.14	64.70	41.884		
7,000.00	6,314.30	6,628.75	6,550.06	54.83	26.85	-140.62	1,620.20	-561.51	2,742.58	2,676.63	65.95	41.587		
7,100.00	6,400.56	6,692.00	6,612.37	55.83	27.14	-140.86	1,629.59	-555.93	2,775.56	2,708.88	66.67	41.629		
7,200.00	6,486.83	6,743.67	6,663.29	56.84	27.37	-141.05	1,637.42	-552.02	2,809.81	2,742.50	67.31	41.746		
7,300.00	6,573.09	7,080.05	6,995.30	57.84	28.62	-142.92	1,655.04	-517.32	2,843.14	2,773.97	69.17	41.105		
7,400.00	6,659.35	7,102.82	7,017.48	58.84	28.66	-143.15	1,650.92	-514.18	2,871.75	2,802.21	69.54	41.296		
7,500.00	6,745.62	7,138.00	7,051.53	59.85	28.73	-143.52	1,643.03	-510.35	2,903.01	2,833.15	69.85	41.559		
7,600.00	6,831.88	7,138.00	7,051.53	60.85	28.73	-143.52	1,643.03	-510.35	2,936.55	2,866.43	70.12	41.880		
7,700.00	6,918.14	7,138.00	7,051.53	61.86	28.73	-143.52	1,643.03	-510.35	2,973.07	2,902.76	70.32	42.281		
7,800.00	7,004.41	7,138.00	7,051.53	62.86	28.73	-143.52	1,643.03	-510.35	3,012.48	2,942.03	70.45	42.759		
7,900.00	7,090.67	7,178.71	7,090.69	63.87	28.76	-143.98	1,632.13	-508.09	3,052.88	2,982.31	70.57	43.262		
8,000.00	7,176.94	7,190.01	7,101.50	64.87	28.77	-144.11	1,628.87	-507.98	3,096.57	3,025.95	70.63	43.845		
8,027.52	7,200.68	7,227.00	7,136.66	65.15	28.80	-144.55	1,617.47	-509.21	3,110.25	3,039.59	70.66	44.016		
8,050.00	7,220.18	7,227.00	7,136.66	65.37	28.80	-149.08	1,617.47	-509.21	3,120.38	3,049.72	70.67	44.157		
8,100.00	7,264.25	7,227.00	7,136.66	65.85	28.80	-160.20	1,617.47	-509.21	3,143.50	3,072.83	70.66	44.485		
8,150.00	7,308.99	7,227.00	7,136.66	66.28	28.80	-172.58	1,617.47	-509.21	3,167.23	3,096.59	70.64	44.834		
8,200.00	7,354.07	7,227.00	7,136.66	66.67	28.80	174.30	1,617.47	-509.21	3,191.40	3,120.80	70.60	45.202		
8,250.00	7,399.14	7,227.00	7,136.66	67.02	28.80	161.18	1,617.47	-509.21	3,215.80	3,145.26	70.54	45.586		
8,300.00	7,443.85	7,227.00	7,136.66	67.32	28.80	148.80	1,617.47	-509.21	3,240.26	3,169.79	70.47	45.981		
8,350.00	7,487.88	7,227.00	7,136.66	67.56	28.80	137.63	1,617.47	-509.21	3,264.58	3,194.19	70.38	46.383		
8,400.00	7,530.87	7,227.00	7,136.66	67.75	28.80	127.87	1,617.47	-509.21	3,288.58	3,218.29	70.29	46.787		
8,450.00	7,572.51	7,227.00	7,136.66	67.90	28.80	119.46	1,617.47	-509.21	3,312.09	3,241.91	70.19	47.188		
8,500.00	7,612.48	7,267.86	7,175.02	68.00	28.81	112.49	1,603.83	-512.63	3,333.94	3,263.76	70.17	47.512		
8,550.00	7,650.47	7,278.40	7,184.84	68.05	28.82	106.47	1,600.16	-513.75	3,355.39	3,285.29	70.10	47.865		
8,600.00	7,686.20	7,316.00	7,219.58	68.06	28.83	101.56	1,586.58	-518.50	3,376.22	3,306.14	70.08	48.173		
8,650.00	7,719.39	8,650.00	7,242.46	68.03	28.79	97.36	1,575.59	-521.28	3,395.03	3,324.78	70.25	48.328		
8,700.00	7,749.79	8,700.00	7,376.76	67.97	28.35	94.82	1,498.50	-534.08	3,411.01	3,341.47	69.53	49.058		
8,750.00	7,777.17	7,520.69	7,395.16	67.87	28.74	91.97	1,484.23	-535.39	3,425.00	3,355.24	69.76	49.098		
8,800.00	7,801.32	7,538.97	7,409.29	67.74	28.72	89.61	1,472.69	-536.54	3,437.46	3,367.76	69.70	49.318		
8,850.00	7,822.06	7,557.17	7,423.03	67.59	28.70	87.69	1,460.83	-537.78	3,448.31	3,378.65	69.66	49.502		
8,900.00	7,839.23	7,833.73	7,579.72	67.41	28.30	87.44	1,236.98	-542.48	3,456.41	3,388.37	68.04	50.799		
8,950.00	7,852.69	7,867.34	7,589.44	67.22	28.24	86.49	1,204.85	-540.92	3,460.26	3,392.41	67.85	50.998		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	7,899.44	7,598.09	67.00	28.19	85.93	1,173.96	-539.54	3,462.21	3,394.50	67.71	51.135		
9,050.00	7,868.14	7,940.00	7,608.51	66.78	28.12	85.78	1,134.80	-537.97	3,462.26	3,394.73	67.53	51.272		
9,098.65	7,870.00	7,940.00	7,608.51	66.55	28.12	85.84	1,134.80	-537.97	3,460.56	3,392.88	67.69	51.127		
9,100.00	7,870.00	7,940.00	7,608.51	66.55	28.12	85.84	1,134.80	-537.97	3,460.50	3,392.80	67.69	51.122		
9,200.00	7,870.00	7,988.85	7,620.30	66.09	28.07	86.04	1,087.41	-536.77	3,456.16	3,388.43	67.72	51.033		
9,300.00	7,870.00	8,029.00	7,629.35	65.65	28.03	86.19	1,048.29	-536.62	3,453.77	3,385.92	67.84	50.907		
9,400.00	7,870.00	8,264.34	7,663.08	65.24	28.17	86.74	815.70	-531.37	3,450.29	3,383.21	67.08	51.433		
9,500.00	7,870.00	8,349.76	7,665.97	64.85	28.39	86.78	730.43	-527.42	3,445.14	3,377.90	67.24	51.240		
9,600.00	7,870.00	8,443.31	7,667.69	64.48	28.77	86.81	636.99	-523.25	3,440.25	3,372.74	67.50	50.964		
9,700.00	7,870.00	8,539.85	7,669.33	64.13	29.28	86.83	540.55	-519.07	3,435.49	3,367.56	67.93	50.576		
9,800.00	7,870.00	8,619.69	7,670.11	63.80	29.79	86.84	460.79	-515.78	3,431.01	3,362.51	68.50	50.089		
9,900.00	7,870.00	8,690.59	7,671.10	63.50	30.29	86.86	389.93	-513.42	3,427.28	3,358.12	69.16	49.555		
10,000.00	7,870.00	8,759.45	7,672.20	63.22	30.83	86.87	321.10	-511.77	3,424.45	3,354.54	69.91	48.985		
10,100.00	7,870.00	8,831.00	7,673.28	62.96	31.42	86.89	249.56	-510.68	3,422.50	3,351.75	70.75	48.373		
10,200.00	7,870.00	8,911.40	7,673.50	62.72	32.14	86.89	169.17	-509.96	3,421.26	3,349.53	71.73	47.695		
10,300.00	7,870.00	9,003.98	7,672.39	62.50	33.01	86.87	76.60	-509.43	3,420.41	3,347.53	72.88	46.930		
10,400.00	7,870.00	9,093.35	7,671.03	62.31	33.91	86.85	-12.76	-509.11	3,419.80	3,345.67	74.13	46.130		
10,500.00	7,870.00	9,222.54	7,668.29	62.15	35.30	86.80	-141.92	-508.15	3,418.82	3,342.97	75.85	45.072		
10,600.00	7,870.00	9,342.82	7,668.43	62.01	36.67	86.80	-262.19	-506.79	3,417.37	3,339.68	77.69	43.989		
10,700.00	7,870.00	9,453.11	7,668.69	61.90	37.98	86.80	-372.46	-504.85	3,415.25	3,335.68	79.57	42.922		
10,800.00	7,870.00	9,572.84	7,668.71	61.82	39.48	86.80	-492.16	-502.35	3,412.84	3,331.13	81.71	41.770		
10,900.00	7,870.00	9,659.39	7,668.82	61.78	40.59	86.80	-578.68	-500.07	3,409.92	3,326.39	83.53	40.823		
11,000.00	7,870.00	9,721.00	7,668.62	61.77	41.39	86.80	-640.29	-499.43	3,408.39	3,323.32	85.07	40.067		
11,042.75	7,870.00	9,721.00	7,668.62	61.78	41.39	86.80	-640.29	-499.43	3,408.12	3,322.75	85.37	39.922		
11,100.00	7,870.00	9,755.73	7,668.48	61.81	41.85	86.80	-675.02	-499.60	3,408.25	3,322.00	86.25	39.514		
11,200.00	7,870.00	9,810.00	7,668.45	61.90	42.56	86.80	-729.28	-500.56	3,409.64	3,321.91	87.73	38.864		
11,300.00	7,870.00	9,871.41	7,667.64	62.03	43.39	86.78	-790.65	-502.37	3,412.27	3,322.93	89.35	38.192		
11,400.00	7,870.00	9,972.62	7,663.25	62.23	44.76	86.71	-891.70	-505.83	3,415.60	3,324.00	91.61	37.286		
11,500.00	7,870.00	10,189.08	7,651.70	62.50	47.82	86.52	-1,107.83	-508.17	3,416.27	3,320.39	95.89	35.628		
11,600.00	7,870.00	10,335.86	7,645.00	62.84	49.96	86.41	-1,254.45	-506.96	3,415.44	3,316.26	99.19	34.435		
11,700.00	7,870.00	10,451.52	7,639.52	63.25	51.68	86.31	-1,369.96	-504.78	3,413.52	3,311.49	102.03	33.458		
11,800.00	7,870.00	10,546.19	7,634.61	63.76	53.11	86.23	-1,464.48	-502.62	3,411.25	3,306.72	104.54	32.632		
11,900.00	7,870.00	10,612.00	7,631.39	64.34	54.11	86.17	-1,530.21	-501.82	3,409.94	3,303.41	106.54	32.007		
11,974.73	7,870.00	10,654.11	7,629.42	64.84	54.75	86.14	-1,572.26	-501.72	3,409.68	3,301.77	107.91	31.599		
12,000.00	7,870.00	10,672.00	7,628.57	65.01	55.02	86.13	-1,590.14	-501.74	3,409.70	3,301.27	108.44	31.444		
12,100.00	7,870.00	10,748.47	7,624.86	65.77	56.19	86.06	-1,666.52	-502.21	3,410.30	3,299.63	110.67	30.814		
12,200.00	7,870.00	10,839.40	7,620.56	66.61	57.59	85.99	-1,757.33	-503.25	3,411.43	3,298.20	113.23	30.128		
12,300.00	7,870.00	10,951.80	7,617.88	67.51	59.32	85.95	-1,869.69	-504.62	3,412.48	3,296.19	116.29	29.345		
12,400.00	7,870.00	11,043.76	7,615.19	68.49	60.76	85.90	-1,961.62	-505.54	3,413.36	3,294.41	118.95	28.696		
12,500.00	7,870.00	11,169.84	7,610.26	69.52	62.74	85.82	-2,087.59	-506.51	3,414.08	3,291.70	122.38	27.898		
12,600.00	7,870.00	11,278.07	7,604.74	70.61	64.46	85.73	-2,195.68	-506.59	3,414.19	3,288.74	125.45	27.216		
12,700.00	7,870.00	11,417.24	7,597.81	71.75	66.68	85.61	-2,334.67	-506.10	3,413.96	3,284.72	129.24	26.415		
12,800.00	7,870.00	11,545.55	7,593.60	72.93	68.76	85.54	-2,462.90	-504.28	3,412.46	3,279.61	132.86	25.685		
12,900.00	7,870.00	11,670.15	7,588.43	74.14	70.79	85.45	-2,587.35	-501.44	3,410.17	3,273.76	136.42	24.998		
13,000.00	7,870.00	11,772.58	7,584.02	75.39	72.46	85.37	-2,689.65	-498.66	3,407.48	3,267.97	139.51	24.425		
13,100.00	7,870.00	11,845.68	7,582.78	76.67	73.66	85.35	-2,762.72	-497.12	3,405.17	3,263.21	141.96	23.986		
13,200.00	7,870.00	11,967.52	7,582.94	77.98	75.67	85.35	-2,884.54	-494.90	3,403.02	3,257.45	145.58	23.376		
13,300.00	7,870.00	12,069.80	7,582.09	79.31	77.36	85.33	-2,986.79	-492.47	3,400.38	3,251.63	148.75	22.860		
13,400.00	7,870.00	12,127.00	7,582.44	80.67	78.31	85.33	-3,043.97	-491.23	3,398.07	3,247.19	150.88	22.522		
13,500.00	7,870.00	12,192.64	7,584.01	82.04	79.39	85.36	-3,109.59	-490.64	3,396.85	3,243.64	153.20	22.172		
13,540.62	7,870.00	12,224.46	7,584.51	82.60	79.92	85.36	-3,124.48	-490.71	3,396.82	3,242.69	154.14	22.038		
13,600.00	7,870.00	12,266.88	7,586.77	83.43	80.62	85.40	-3,183.78	-491.33	3,397.06	3,241.32	155.75	21.811		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,870.00	12,384.51	7,591.05	84.84	82.57	85.48	-3,301.32	-492.34	3,397.31	3,237.92	159.39	21.315		
13,800.00	7,870.00	12,484.69	7,594.00	86.27	84.24	85.53	-3,401.45	-492.77	3,397.17	3,234.57	162.60	20.893		
13,812.36	7,870.00	12,493.17	7,594.21	86.44	84.38	85.53	-3,409.94	-492.81	3,397.16	3,234.26	162.90	20.854		
13,900.00	7,870.00	12,556.50	7,595.52	87.71	85.43	85.55	-3,473.25	-493.35	3,397.48	3,232.38	165.10	20.578		
14,000.00	7,870.00	12,671.67	7,596.87	89.16	87.35	85.58	-3,588.40	-494.55	3,398.10	3,229.40	168.70	20.143		
14,100.00	7,870.00	12,760.55	7,597.13	90.63	88.83	85.58	-3,677.28	-495.30	3,398.58	3,226.94	171.64	19.801		
14,200.00	7,870.00	12,848.25	7,596.61	92.10	90.30	85.57	-3,764.97	-496.24	3,399.36	3,224.81	174.55	19.475		
14,300.00	7,870.00	12,936.82	7,595.40	93.59	91.78	85.55	-3,853.53	-497.46	3,400.49	3,223.01	177.48	19.160		
14,400.00	7,870.00	13,039.66	7,593.45	95.09	93.51	85.52	-3,956.33	-498.99	3,401.80	3,221.01	180.79	18.816		
14,500.00	7,870.00	13,145.97	7,591.24	96.60	95.29	85.49	-4,062.62	-500.25	3,402.80	3,218.60	184.20	18.474		
14,600.00	7,870.00	13,268.66	7,589.03	98.11	97.36	85.45	-4,185.28	-501.64	3,403.78	3,215.73	188.05	18.100		
14,700.00	7,870.00	13,389.63	7,590.09	99.64	99.41	85.47	-4,306.24	-502.00	3,403.64	3,211.75	191.89	17.737		
14,728.45	7,870.00	13,409.61	7,590.25	100.07	99.75	85.47	-4,326.22	-502.05	3,403.60	3,210.99	192.61	17.671		
14,800.00	7,870.00	13,464.00	7,590.58	101.17	100.67	85.48	-4,380.60	-502.44	3,403.82	3,209.31	194.51	17.499		
14,900.00	7,870.00	13,507.00	7,590.72	102.71	101.39	85.48	-4,423.60	-503.21	3,405.20	3,208.92	196.27	17.349		
15,000.00	7,870.00	13,553.00	7,590.69	104.26	102.17	85.48	-4,469.57	-504.74	3,408.16	3,210.09	198.07	17.207		
15,100.00	7,870.00	13,688.26	7,589.61	105.82	104.44	85.47	-4,604.72	-509.84	3,411.74	3,209.39	202.34	16.861		
15,200.00	7,870.00	13,852.07	7,589.35	107.38	107.22	85.47	-4,768.51	-512.98	3,413.20	3,205.81	207.40	16.457		
15,300.00	7,870.00	14,022.56	7,590.26	108.95	110.13	85.48	-4,938.98	-513.34	3,413.04	3,200.43	212.61	16.053		
15,400.00	7,870.00	14,087.00	7,591.32	110.52	111.23	85.50	-5,003.41	-513.04	3,412.19	3,197.18	215.02	15.869		
15,427.62	7,870.00	14,107.48	7,591.67	110.96	111.58	85.51	-5,023.88	-513.07	3,412.13	3,196.37	215.75	15.815		
15,500.00	7,870.00	14,141.30	7,592.37	112.10	112.16	85.52	-5,057.70	-513.45	3,412.56	3,195.43	217.13	15.717		
15,600.00	7,870.00	14,196.80	7,593.80	113.69	113.10	85.54	-5,113.16	-514.85	3,414.48	3,195.23	219.24	15.574		
15,700.00	7,870.00	14,281.79	7,596.07	115.28	114.55	85.59	-5,198.07	-517.66	3,417.22	3,195.04	222.18	15.381		
15,800.00	7,870.00	14,384.52	7,598.99	116.87	116.29	85.64	-5,300.70	-521.14	3,420.04	3,194.42	225.62	15.158		
15,900.00	7,870.00	14,582.64	7,603.08	118.47	119.68	85.71	-5,498.72	-525.35	3,421.90	3,190.16	231.74	14.766		
15,944.87	7,870.00	14,640.06	7,603.71	119.19	120.66	85.72	-5,556.13	-525.47	3,421.80	3,188.20	233.59	14.649		
16,000.00	7,870.00	14,665.40	7,603.96	120.07	121.10	85.73	-5,581.48	-525.67	3,421.91	3,187.27	234.64	14.583		
16,100.00	7,870.00	16,100.00	7,604.97	121.68	145.75	85.74	-5,689.05	-526.66	3,422.43	3,161.42	261.00	13.113		
16,200.00	7,870.00	14,949.84	7,606.72	123.30	126.00	85.77	-5,865.89	-525.13	3,420.86	3,177.17	243.68	14.038		
16,300.00	7,870.00	15,068.11	7,607.22	124.91	128.04	85.77	-5,984.14	-522.91	3,418.62	3,171.06	247.56	13.809		
16,400.00	7,870.00	15,157.00	7,607.36	126.53	129.59	85.77	-6,072.99	-520.70	3,415.84	3,165.17	250.67	13.627		
16,500.00	7,870.00	15,221.85	7,607.64	128.16	130.71	85.78	-6,137.83	-519.54	3,413.85	3,160.71	253.14	13.486		
16,600.00	7,870.00	15,289.83	7,608.48	129.79	131.88	85.79	-6,205.80	-519.48	3,413.27	3,157.60	255.68	13.350		
16,700.00	7,870.00	15,392.36	7,609.94	131.42	133.65	85.82	-6,308.33	-519.78	3,413.12	3,153.97	259.16	13.170		
16,800.00	7,870.00	15,526.27	7,611.68	133.05	135.97	85.84	-6,442.22	-519.31	3,412.36	3,148.86	263.49	12.950		
16,900.00	7,870.00	15,620.27	7,612.34	134.69	137.60	85.85	-6,536.22	-518.57	3,411.18	3,144.43	266.75	12.788		
17,000.00	7,870.00	15,719.83	7,612.52	136.33	139.33	85.85	-6,635.78	-517.87	3,410.12	3,139.97	270.15	12.623		
17,100.00	7,870.00	15,839.74	7,612.28	137.97	141.41	85.85	-6,755.67	-516.55	3,408.71	3,134.61	274.10	12.436		
17,200.00	7,870.00	15,980.92	7,611.26	139.62	143.87	85.83	-6,896.82	-513.72	3,406.43	3,127.84	278.60	12.227		
17,300.00	7,870.00	16,070.88	7,610.27	141.27	145.43	85.81	-6,986.75	-511.17	3,403.38	3,121.62	281.75	12.079		
17,400.00	7,870.00	16,137.00	7,609.72	142.92	146.58	85.80	-7,052.85	-510.27	3,401.58	3,117.30	284.28	11.966		
17,500.00	7,870.00	16,193.08	7,609.36	144.58	147.56	85.79	-7,108.93	-510.16	3,400.88	3,114.38	286.50	11.870		
17,600.00	7,870.00	16,285.99	7,608.57	146.23	149.17	85.78	-7,201.84	-510.25	3,400.70	3,110.97	289.72	11.738		
17,647.93	7,870.00	16,329.63	7,608.05	147.03	149.93	85.77	-7,245.47	-510.32	3,400.65	3,109.41	291.24	11.677		
17,700.00	7,870.00	16,370.97	7,608.04	147.89	150.64	85.77	-7,286.81	-510.52	3,400.73	3,108.01	292.72	11.618		
17,800.00	7,870.00	16,455.27	7,609.66	149.56	152.10	85.80	-7,371.09	-511.42	3,401.31	3,105.60	295.71	11.502		
17,900.00	7,870.00	16,547.31	7,612.55	151.22	153.70	85.85	-7,463.07	-512.79	3,402.23	3,103.29	298.94	11.381		
18,000.00	7,870.00	16,650.06	7,616.25	152.89	155.48	85.91	-7,565.74	-514.45	3,403.24	3,100.77	302.48	11.251		
18,100.00	7,870.00	16,747.58	7,620.08	154.55	157.17	85.98	-7,663.18	-515.97	3,404.19	3,098.32	305.87	11.129		
18,200.00	7,870.00	16,847.74	7,624.43	156.22	158.91	86.05	-7,763.23	-517.63	3,405.21	3,095.86	309.35	11.008		
18,300.00	7,870.00	16,953.22	7,627.97	157.90	160.74	86.11	-7,868.64	-519.12	3,406.04	3,093.06	312.98	10.883		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,400.00	7,870.00	17,028.00	7,629.28	159.57	162.04	86.13	-7,943.39	-520.41	3,407.30	3,091.61	315.69	10.793	
18,500.00	7,870.00	17,110.30	7,630.33	161.25	163.46	86.15	-8,025.66	-522.32	3,409.19	3,090.58	318.60	10.700	
18,600.00	7,870.00	17,198.35	7,631.28	162.93	164.99	86.17	-8,113.67	-524.70	3,411.47	3,089.78	321.69	10.605	
18,700.00	7,870.00	17,279.31	7,631.79	164.60	166.39	86.18	-8,194.60	-527.22	3,414.20	3,089.65	324.54	10.520	
18,797.52	7,870.00	17,372.00	7,631.96	166.24	167.99	86.19	-8,287.23	-530.45	3,417.25	3,089.50	327.75	10.426 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-52.66	786.52	-1,030.94	1,296.75					
100.00	100.00	88.52	88.52	0.13	0.14	-52.66	786.51	-1,030.96	1,296.72	1,296.44	0.28	4,678.274	CC	
200.00	200.00	187.98	187.98	0.49	0.30	-52.66	786.49	-1,031.05	1,296.78	1,295.98	0.80	1,629.033		
300.00	300.00	284.66	284.66	0.85	0.57	-52.67	786.51	-1,031.23	1,296.94	1,295.52	1.42	914.462		
400.00	400.00	379.37	379.37	1.21	0.90	-52.67	786.85	-1,031.61	1,297.48	1,295.37	2.11	614.037	ES	
500.00	500.00	474.08	474.07	1.57	1.24	-52.66	787.54	-1,032.21	1,298.43	1,295.62	2.81	462.449		
600.00	600.00	568.77	568.76	1.93	1.58	-52.64	788.58	-1,033.03	1,299.78	1,296.28	3.50	371.128		
700.00	700.00	669.59	669.56	2.29	1.93	-52.63	789.79	-1,034.06	1,301.32	1,297.10	4.22	308.459		
800.00	800.00	766.00	765.96	2.64	2.28	-52.61	791.05	-1,035.09	1,302.96	1,298.04	4.92	264.810		
900.00	900.00	877.74	877.62	3.00	2.67	-52.46	794.70	-1,034.31	1,304.41	1,298.74	5.67	230.063		
1,000.00	1,000.00	984.72	984.26	3.36	3.04	-52.09	801.66	-1,029.52	1,304.84	1,298.44	6.40	203.747		
1,100.00	1,099.98	1,080.40	1,079.53	3.72	3.39	-106.38	808.95	-1,024.46	1,305.87	1,298.77	7.10	183.853		
1,200.00	1,199.84	1,200.68	1,199.21	4.07	3.83	-106.08	818.54	-1,017.16	1,307.57	1,299.68	7.90	165.607		
1,300.00	1,299.45	1,297.80	1,295.86	4.43	4.19	-105.99	825.59	-1,010.84	1,309.41	1,300.80	8.61	152.019		
1,400.00	1,398.70	1,400.67	1,397.94	4.80	4.58	-105.91	834.94	-1,002.19	1,311.87	1,302.50	9.37	140.006		
1,500.00	1,497.47	1,498.10	1,494.45	5.18	4.96	-105.90	845.10	-993.58	1,315.78	1,305.65	10.13	129.885		
1,600.00	1,595.62	1,594.63	1,589.57	5.57	5.36	-105.87	857.44	-982.75	1,320.27	1,309.35	10.92	120.923		
1,700.00	1,693.06	1,671.81	1,665.53	6.00	5.68	-105.87	868.33	-974.46	1,326.93	1,315.28	11.66	113.838		
1,800.00	1,789.64	1,753.10	1,745.54	6.45	6.02	-105.96	880.60	-967.11	1,336.42	1,323.98	12.44	107.426		
1,900.00	1,885.27	1,859.05	1,849.62	6.94	6.48	-106.20	897.60	-956.95	1,347.13	1,333.76	13.37	100.731		
2,000.00	1,979.82	1,943.96	1,933.03	7.47	6.85	-106.43	911.20	-948.61	1,358.76	1,344.51	14.25	95.347		
2,100.00	2,073.17	2,028.31	2,015.96	8.05	7.22	-106.77	925.03	-942.02	1,373.22	1,358.06	15.16	90.560		
2,200.00	2,165.21	2,181.45	2,166.24	8.67	7.91	-107.72	950.25	-926.88	1,387.58	1,371.12	16.45	84.330		
2,300.00	2,255.84	2,252.81	2,236.21	9.35	8.23	-108.08	961.81	-918.98	1,401.90	1,384.49	17.41	80.523		
2,400.00	2,344.94	2,329.21	2,311.15	10.09	8.58	-108.53	974.61	-911.37	1,418.92	1,400.49	18.43	76.994		
2,500.00	2,432.39	2,402.03	2,382.61	10.89	8.91	-108.98	987.14	-905.12	1,438.84	1,419.37	19.47	73.907		
2,519.29	2,449.07	2,415.76	2,396.09	11.05	8.98	-109.07	989.55	-904.06	1,443.04	1,423.37	19.67	73.358		
2,600.00	2,518.69	2,477.20	2,456.40	11.74	9.25	-109.83	1,000.45	-899.73	1,461.43	1,440.88	20.55	71.133		
2,700.00	2,604.95	2,552.70	2,530.57	12.62	9.59	-110.75	1,013.79	-895.28	1,485.65	1,464.03	21.62	68.703		
2,800.00	2,691.22	2,645.36	2,621.68	13.52	10.01	-111.88	1,030.12	-890.83	1,511.31	1,488.51	22.80	66.278		
2,900.00	2,777.48	2,771.66	2,745.50	14.43	10.59	-113.28	1,053.39	-882.18	1,536.24	1,512.05	24.19	63.507		
3,000.00	2,863.75	2,907.46	2,878.70	15.35	11.22	-114.73	1,077.02	-870.34	1,559.82	1,534.20	25.63	60.869		
3,100.00	2,950.01	3,015.63	2,985.05	16.28	11.71	-115.90	1,093.04	-858.77	1,580.89	1,554.00	26.89	58.788		
3,200.00	3,036.27	3,159.32	3,126.44	17.22	12.36	-117.45	1,112.36	-842.05	1,601.18	1,572.87	28.31	56.560		
3,300.00	3,122.54	3,237.06	3,203.04	18.17	12.70	-118.29	1,121.84	-832.77	1,621.25	1,591.85	29.40	55.146		
3,400.00	3,208.80	3,344.73	3,309.15	19.13	13.18	-119.44	1,134.63	-819.83	1,641.69	1,611.08	30.61	53.626		
3,500.00	3,295.07	3,431.88	3,394.79	20.09	13.57	-120.30	1,146.16	-808.48	1,662.24	1,630.51	31.74	52.378		
3,600.00	3,381.33	3,506.73	3,468.53	21.05	13.91	-121.05	1,155.61	-799.82	1,684.29	1,651.51	32.78	51.379		
3,700.00	3,467.59	3,594.80	3,555.13	22.02	14.31	-121.88	1,167.95	-789.64	1,707.26	1,673.37	33.89	50.382		
3,800.00	3,553.86	3,669.19	3,628.47	22.99	14.65	-122.59	1,177.73	-781.94	1,731.42	1,696.52	34.90	49.610		
3,900.00	3,640.12	3,780.46	3,738.09	23.97	15.15	-123.62	1,192.83	-770.34	1,756.08	1,719.98	36.10	48.641		
4,000.00	3,726.38	3,873.98	3,829.85	24.95	15.58	-124.39	1,207.01	-759.10	1,780.14	1,742.92	37.22	47.827		
4,100.00	3,812.65	3,934.97	3,889.89	25.93	15.86	-124.92	1,215.64	-752.82	1,805.80	1,767.67	38.13	47.356		
4,200.00	3,898.91	4,028.61	3,982.35	26.91	16.28	-125.74	1,228.06	-744.71	1,833.05	1,793.85	39.20	46.758		
4,300.00	3,985.18	4,122.79	4,075.09	27.90	16.70	-126.51	1,241.69	-735.62	1,860.05	1,819.77	40.28	46.177		
4,400.00	4,071.44	4,217.02	4,167.79	28.88	17.13	-127.24	1,255.95	-726.49	1,887.48	1,846.13	41.36	45.636		
4,500.00	4,157.70	4,311.78	4,260.92	29.87	17.57	-127.94	1,270.72	-717.10	1,915.11	1,872.66	42.44	45.124		
4,600.00	4,243.97	4,380.09	4,328.10	30.86	17.88	-128.43	1,281.27	-710.73	1,943.51	1,900.16	43.34	44.840		
4,700.00	4,330.23	4,513.48	4,459.56	31.85	18.48	-129.41	1,300.50	-698.90	1,972.57	1,927.95	44.62	44.208		
4,800.00	4,416.49	4,566.59	4,511.88	32.84	18.73	-129.79	1,308.33	-694.14	2,001.46	1,956.05	45.41	44.075		
4,900.00	4,502.76	4,688.86	4,632.54	33.84	19.27	-130.68	1,324.96	-683.59	2,031.03	1,984.43	46.59	43.590		
5,000.00	4,589.02	4,787.67	4,729.76	34.83	19.72	-131.33	1,339.36	-673.38	2,059.33	2,011.68	47.65	43.220		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,854.00	4,795.15	35.82	20.02	-131.77	1,348.70	-667.27	2,088.76	2,040.28	48.49	43.078		
5,200.00	4,761.55	5,000.55	4,939.10	36.82	20.70	-132.67	1,371.00	-651.34	2,116.81	2,066.97	49.84	42.472		
5,300.00	4,847.81	5,070.04	5,007.29	37.82	21.03	-133.07	1,381.86	-643.60	2,145.19	2,094.48	50.71	42.302		
5,400.00	4,934.08	5,151.99	5,088.02	38.81	21.40	-133.57	1,393.53	-635.77	2,174.98	2,123.35	51.63	42.123		
5,500.00	5,020.34	5,253.26	5,187.57	39.81	21.87	-134.15	1,408.80	-625.12	2,204.18	2,151.50	52.68	41.843		
5,600.00	5,106.60	5,414.49	5,346.13	40.81	22.62	-135.07	1,431.68	-607.10	2,233.18	2,179.12	54.06	41.307		
5,700.00	5,192.87	5,477.00	5,407.46	41.81	22.91	-135.40	1,440.76	-599.15	2,260.74	2,205.87	54.87	41.203		
5,800.00	5,279.13	5,538.30	5,467.78	42.81	23.19	-135.75	1,449.21	-592.27	2,289.79	2,234.16	55.63	41.157		
5,900.00	5,365.40	5,630.48	5,558.71	43.81	23.61	-136.26	1,461.40	-583.28	2,320.26	2,263.69	56.57	41.012		
6,000.00	5,451.66	5,701.31	5,628.46	44.81	23.92	-136.64	1,471.37	-576.13	2,350.74	2,293.36	57.38	40.969		
6,100.00	5,537.92	5,771.69	5,698.06	45.81	24.23	-137.04	1,480.05	-570.24	2,382.72	2,324.57	58.15	40.974		
6,200.00	5,624.19	5,888.82	5,813.71	46.81	24.75	-137.66	1,495.41	-559.95	2,414.61	2,355.38	59.23	40.764		
6,300.00	5,710.45	5,960.34	5,883.82	47.81	25.08	-137.96	1,507.79	-553.19	2,446.34	2,386.28	60.06	40.732		
6,400.00	5,796.72	6,028.78	5,951.17	48.81	25.40	-138.26	1,518.76	-547.93	2,479.60	2,418.75	60.85	40.751		
6,500.00	5,882.98	6,141.93	6,062.40	49.81	25.92	-138.74	1,536.89	-537.85	2,511.74	2,449.79	61.95	40.545		
6,600.00	5,969.24	6,190.76	6,110.57	50.82	26.14	-138.96	1,543.98	-534.21	2,545.46	2,482.90	62.57	40.684		
6,700.00	6,055.51	6,321.45	6,239.51	51.82	26.72	-139.55	1,562.75	-524.13	2,578.93	2,515.18	63.76	40.450		
6,800.00	6,141.77	6,427.82	6,344.63	52.82	27.18	-140.04	1,576.58	-515.53	2,612.32	2,547.58	64.75	40.348		
6,900.00	6,228.03	6,572.32	6,487.00	53.83	27.84	-140.66	1,597.02	-501.81	2,644.57	2,578.57	66.01	40.066		
7,000.00	6,314.30	6,669.61	6,582.63	54.83	28.29	-141.05	1,611.20	-490.80	2,675.15	2,608.19	66.96	39.950		
7,100.00	6,400.56	6,724.00	6,636.04	55.83	28.54	-141.24	1,619.94	-485.51	2,707.25	2,639.61	67.63	40.028		
7,200.00	6,486.83	6,764.21	6,675.58	56.84	28.72	-141.38	1,626.49	-482.28	2,740.97	2,672.78	68.18	40.200		
7,300.00	6,573.09	7,300.00	6,771.71	57.84	31.12	-141.75	1,640.90	-475.45	2,775.90	2,704.88	71.02	39.084		
7,400.00	6,659.35	6,992.00	6,899.96	58.84	29.76	-142.21	1,661.07	-463.99	2,809.02	2,738.69	70.33	39.939		
7,500.00	6,745.62	7,438.00	7,334.75	59.85	31.49	-144.79	1,674.21	-392.48	2,831.81	2,759.54	72.27	39.181		
7,600.00	6,831.88	7,438.00	7,334.75	60.85	31.49	-144.79	1,674.21	-392.48	2,855.63	2,782.89	72.74	39.258		
7,700.00	6,918.14	7,484.99	7,378.92	61.86	31.55	-145.33	1,660.89	-383.65	2,881.25	2,808.24	73.01	39.464		
7,800.00	7,004.41	7,527.00	7,417.87	62.86	31.60	-145.85	1,646.38	-377.63	2,910.30	2,837.07	73.23	39.741		
7,900.00	7,090.67	7,527.00	7,417.87	63.87	31.60	-145.85	1,646.38	-377.63	2,941.32	2,867.80	73.52	40.007		
8,000.00	7,176.94	7,527.00	7,417.87	64.87	31.60	-145.85	1,646.38	-377.63	2,975.38	2,901.64	73.74	40.350		
8,027.52	7,200.68	7,527.00	7,417.87	65.15	31.60	-145.85	1,646.38	-377.63	2,985.28	2,911.49	73.79	40.457		
8,050.00	7,220.18	7,527.00	7,417.87	65.37	31.60	-150.14	1,646.38	-377.63	2,993.53	2,919.71	73.82	40.550		
8,100.00	7,264.25	7,527.00	7,417.87	65.85	31.60	-160.70	1,646.38	-377.63	3,012.49	2,938.60	73.89	40.770		
8,150.00	7,308.99	7,561.17	7,449.01	66.28	31.60	-172.83	1,632.75	-374.23	3,031.12	2,957.27	73.86	41.041		
8,200.00	7,354.07	7,569.13	7,456.18	66.67	31.60	174.60	1,629.34	-373.65	3,050.74	2,976.87	73.87	41.300		
8,250.00	7,399.14	7,577.29	7,463.49	67.02	31.60	162.05	1,625.75	-373.14	3,070.58	2,996.71	73.86	41.571		
8,300.00	7,443.85	7,616.00	7,497.58	67.32	31.61	150.07	1,607.47	-371.93	3,091.27	3,017.51	73.76	41.909		
8,350.00	7,487.88	7,616.00	7,497.58	67.56	31.61	139.55	1,607.47	-371.93	3,110.69	3,036.94	73.76	42.176		
8,400.00	7,530.87	7,616.00	7,497.58	67.75	31.61	130.39	1,607.47	-371.93	3,129.97	3,056.24	73.74	42.447		
8,450.00	7,572.51	7,616.00	7,497.58	67.90	31.61	122.54	1,607.47	-371.93	3,148.98	3,075.27	73.71	42.720		
8,500.00	7,612.48	7,616.00	7,497.58	68.00	31.61	115.84	1,607.47	-371.93	3,167.57	3,093.88	73.68	42.988		
8,550.00	7,650.47	7,644.30	7,521.91	68.05	31.59	110.21	1,593.03	-371.90	3,185.31	3,111.73	73.58	43.289		
8,600.00	7,686.20	7,664.18	7,538.77	68.06	31.58	105.44	1,582.47	-372.04	3,202.12	3,128.61	73.51	43.562		
8,650.00	7,719.39	7,705.00	7,572.68	68.03	31.55	101.53	1,559.78	-372.79	3,218.02	3,144.64	73.37	43.858		
8,700.00	7,749.79	7,705.00	7,572.68	67.97	31.55	98.07	1,559.78	-372.79	3,232.43	3,159.05	73.38	44.049		
8,750.00	7,777.17	8,750.00	7,628.17	67.87	30.87	95.57	1,517.42	-373.81	3,245.12	3,172.47	72.64	44.671		
8,800.00	7,801.32	7,899.84	7,720.52	67.74	31.34	93.95	1,433.42	-373.37	3,255.44	3,182.84	72.60	44.843		
8,850.00	7,822.06	7,934.95	7,743.98	67.59	31.29	92.29	1,407.30	-372.85	3,263.84	3,191.36	72.47	45.035		
8,900.00	7,839.23	7,979.12	7,771.79	67.41	31.22	91.10	1,372.99	-372.12	3,270.49	3,198.19	72.30	45.233		
8,950.00	7,852.69	7,973.00	7,768.05	67.22	31.23	89.96	1,377.84	-372.22	3,275.78	3,203.32	72.47	45.205		
9,000.00	7,862.35	8,009.76	7,789.90	67.00	31.17	89.46	1,348.29	-371.91	3,279.36	3,206.98	72.38	45.306		
9,050.00	7,868.14	8,026.56	7,799.41	66.78	31.14	89.13	1,334.43	-371.98	3,281.69	3,209.24	72.45	45.299		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,098.65	7,870.00	8,062.00	7,818.44	66.55	31.08	89.29	1,304.55	-372.57	3,282.76	3,210.36	72.40	45.343		
9,100.00	7,870.00	8,062.00	7,818.44	66.55	31.08	89.29	1,304.55	-372.57	3,282.76	3,210.35	72.40	45.340		
9,200.00	7,870.00	8,184.52	7,873.83	66.09	30.85	90.26	1,195.40	-373.05	3,282.66	3,210.67	71.99	45.599		
9,212.29	7,870.00	8,190.62	7,876.15	66.03	30.84	90.30	1,189.76	-373.05	3,282.65	3,210.65	72.00	45.590		
9,300.00	7,870.00	8,240.00	7,893.39	65.65	30.76	90.60	1,143.49	-373.44	3,283.28	3,211.23	72.04	45.573		
9,400.00	7,870.00	8,433.97	7,935.17	65.24	30.46	91.33	954.67	-372.02	3,282.00	3,210.72	71.28	46.045		
9,500.00	7,870.00	8,490.09	7,938.25	64.85	30.41	91.38	898.64	-371.70	3,281.23	3,209.80	71.43	45.936		
9,520.30	7,870.00	8,507.00	7,938.63	64.77	30.40	91.39	881.74	-371.77	3,281.24	3,209.81	71.44	45.931		
9,600.00	7,870.00	8,590.02	7,940.32	64.48	30.41	91.42	798.74	-372.09	3,281.33	3,209.88	71.44	45.928		
9,700.00	7,870.00	8,685.00	7,942.79	64.13	30.62	91.46	703.79	-371.95	3,280.93	3,209.28	71.65	45.792		
9,726.77	7,870.00	8,713.52	7,943.53	64.04	30.72	91.48	675.27	-371.93	3,280.83	3,209.09	71.74	45.732		
9,800.00	7,870.00	8,753.14	7,944.54	63.80	30.89	91.49	635.67	-372.24	3,281.20	3,209.16	72.05	45.542		
9,900.00	7,870.00	8,945.37	7,950.40	63.50	32.01	91.60	443.54	-373.00	3,281.82	3,209.19	72.63	45.187		
10,000.00	7,870.00	9,027.93	7,952.26	63.22	32.61	91.63	361.02	-371.89	3,280.23	3,206.87	73.36	44.714		
10,100.00	7,870.00	9,140.49	7,951.82	62.96	33.50	91.62	248.47	-370.75	3,278.88	3,204.57	74.30	44.129		
10,200.00	7,870.00	9,203.70	7,952.37	62.72	34.05	91.63	185.26	-370.35	3,277.88	3,202.70	75.18	43.600		
10,300.00	7,870.00	9,309.00	7,954.67	62.50	35.01	91.67	79.99	-369.49	3,276.77	3,200.38	76.39	42.895		
10,369.58	7,870.00	9,356.56	7,955.68	62.37	35.47	91.69	32.44	-369.12	3,276.19	3,199.04	77.14	42.468		
10,400.00	7,870.00	9,368.94	7,955.91	62.31	35.59	91.70	20.06	-369.19	3,276.27	3,198.87	77.41	42.326		
10,500.00	7,870.00	9,455.94	7,957.36	62.15	36.45	91.72	-66.91	-370.60	3,277.53	3,198.83	78.69	41.649		
10,600.00	7,870.00	9,667.08	7,962.37	62.01	38.73	91.81	-277.97	-369.54	3,276.74	3,195.37	81.37	40.270		
10,700.00	7,870.00	9,754.00	7,964.46	61.90	39.74	91.85	-364.84	-367.25	3,273.94	3,190.96	82.98	39.455		
10,800.00	7,870.00	9,814.14	7,966.10	61.82	40.46	91.88	-424.95	-366.15	3,272.11	3,187.77	84.34	38.799		
10,855.80	7,870.00	9,843.00	7,967.16	61.79	40.80	91.89	-453.79	-366.15	3,271.93	3,186.88	85.05	38.470		
10,900.00	7,870.00	9,876.25	7,968.49	61.78	41.21	91.92	-487.01	-366.33	3,272.07	3,186.32	85.76	38.156		
11,000.00	7,870.00	9,978.60	7,972.23	61.77	42.47	91.98	-589.28	-366.83	3,272.35	3,184.57	87.78	37.280		
11,100.00	7,870.00	10,132.33	7,973.81	61.81	44.44	92.01	-743.00	-366.44	3,271.79	3,181.14	90.65	36.091		
11,200.00	7,870.00	10,202.72	7,973.08	61.90	45.36	92.00	-813.38	-366.09	3,270.90	3,178.53	92.37	35.411		
11,300.00	7,870.00	11,300.00	7,968.92	62.03	60.40	91.93	-972.54	-364.24	3,269.19	3,160.78	108.41	30.155		
11,400.00	7,870.00	10,443.08	7,966.42	62.23	48.65	91.88	-1,053.62	-362.68	3,266.90	3,169.28	97.61	33.468		
11,500.00	7,870.00	10,506.15	7,964.81	62.50	49.53	91.86	-1,116.67	-362.25	3,265.78	3,166.42	99.36	32.869		
11,553.66	7,870.00	10,541.15	7,964.32	62.67	50.02	91.85	-1,151.67	-362.28	3,265.62	3,165.30	100.33	32.549		
11,600.00	7,870.00	10,572.52	7,964.16	62.84	50.46	91.85	-1,183.04	-362.47	3,265.74	3,164.55	101.19	32.274		
11,700.00	7,870.00	10,645.00	7,964.86	63.25	51.49	91.86	-1,255.51	-363.37	3,266.65	3,163.49	103.16	31.666		
11,800.00	7,870.00	10,827.46	7,971.01	63.76	54.14	91.97	-1,437.85	-363.38	3,266.22	3,158.86	107.36	30.422		
11,900.00	7,870.00	10,953.27	7,974.61	64.34	56.01	92.03	-1,563.60	-361.54	3,264.50	3,153.95	110.55	29.529		
12,000.00	7,870.00	11,050.14	7,974.66	65.01	57.46	92.03	-1,660.45	-359.84	3,262.41	3,149.22	113.19	28.822		
12,100.00	7,870.00	11,132.69	7,972.38	65.77	58.71	91.99	-1,742.96	-358.95	3,260.88	3,145.32	115.56	28.219		
12,200.00	7,870.00	11,256.67	7,968.31	66.61	60.61	91.92	-1,866.86	-357.31	3,259.10	3,140.27	118.83	27.426		
12,300.00	7,870.00	11,354.75	7,965.48	67.51	62.12	91.87	-1,964.89	-355.60	3,256.92	3,135.32	121.60	26.783		
12,400.00	7,870.00	11,438.45	7,963.57	68.49	63.42	91.84	-2,048.55	-354.41	3,255.10	3,131.00	124.09	26.231		
12,500.00	7,870.00	11,515.62	7,962.06	69.52	64.63	91.82	-2,125.71	-353.77	3,253.87	3,127.41	126.46	25.731		
12,600.00	7,870.00	11,588.87	7,960.75	70.61	65.77	91.79	-2,198.94	-353.72	3,253.42	3,124.68	128.74	25.271		
12,603.17	7,870.00	11,591.13	7,960.71	70.65	65.81	91.79	-2,201.21	-353.73	3,253.42	3,124.60	128.81	25.257		
12,700.00	7,870.00	11,659.32	7,959.69	71.75	66.87	91.77	-2,269.39	-354.28	3,253.83	3,122.86	130.97	24.844		
12,800.00	7,870.00	11,725.50	7,958.96	72.93	67.91	91.76	-2,335.55	-355.45	3,255.23	3,122.13	133.10	24.457		
12,900.00	7,870.00	11,790.00	7,958.37	74.14	68.92	91.75	-2,400.03	-357.27	3,257.69	3,122.50	135.19	24.097		
13,000.00	7,870.00	11,865.90	7,957.51	75.39	70.11	91.73	-2,475.86	-360.22	3,261.17	3,123.61	137.56	23.707		
13,100.00	7,870.00	11,951.97	7,956.63	76.67	71.46	91.71	-2,561.85	-363.91	3,265.09	3,124.90	140.19	23.290		
13,200.00	7,870.00	12,044.04	7,956.01	77.98	72.91	91.70	-2,653.80	-368.30	3,269.49	3,126.50	142.99	22.865		
13,300.00	7,870.00	12,184.42	7,956.73	79.31	75.14	91.71	-2,794.06	-374.27	3,273.48	3,126.42	147.06	22.259		
13,400.00	7,870.00	12,291.50	7,957.75	80.67	76.86	91.73	-2,901.07	-378.01	3,276.67	3,126.35	150.32	21.798		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,870.00	12,402.12	7,958.93	82.04	78.64	91.75	-3,011.64	-381.10	3,279.13	3,125.44	153.69	21.336		
13,600.00	7,870.00	12,473.34	7,959.08	83.43	79.79	91.75	-3,082.81	-383.51	3,282.18	3,126.15	156.04	21.035		
13,700.00	7,870.00	12,545.01	7,959.20	84.84	80.95	91.75	-3,154.42	-386.62	3,286.16	3,127.77	158.39	20.747		
13,800.00	7,870.00	12,658.06	7,960.11	86.27	82.77	91.76	-3,267.36	-391.63	3,290.27	3,128.40	161.87	20.326		
13,900.00	7,870.00	12,760.95	7,960.80	87.71	84.45	91.77	-3,370.15	-396.01	3,294.21	3,129.11	165.10	19.953		
14,000.00	7,870.00	12,871.31	7,961.25	89.16	86.25	91.78	-3,480.42	-400.50	3,297.96	3,129.42	168.54	19.567		
14,100.00	7,870.00	13,284.69	7,948.54	90.63	93.13	91.56	-3,893.34	-397.51	3,296.91	3,117.14	179.77	18.339		
14,200.00	7,870.00	13,457.81	7,944.30	92.10	96.07	91.49	-4,066.02	-385.88	3,289.73	3,104.96	184.77	17.805		
14,300.00	7,870.00	13,704.79	7,944.90	93.59	100.30	91.51	-4,311.62	-360.38	3,278.68	3,087.28	191.40	17.130		
14,400.00	7,870.00	13,769.23	7,945.90	95.09	101.42	91.53	-4,375.61	-352.85	3,266.66	3,072.72	193.94	16.843		
14,500.00	7,870.00	13,828.06	7,946.76	96.60	102.43	91.55	-4,434.10	-346.55	3,255.68	3,059.34	196.34	16.582		
14,600.00	7,870.00	13,875.00	7,947.50	98.11	103.24	91.57	-4,480.82	-342.11	3,246.05	3,047.62	198.44	16.358		
14,700.00	7,870.00	13,932.67	7,948.37	99.64	104.23	91.59	-4,538.30	-337.49	3,237.85	3,037.10	200.75	16.129		
14,800.00	7,870.00	13,983.03	7,949.00	101.17	105.10	91.60	-4,588.56	-334.29	3,231.20	3,028.34	202.85	15.929		
14,900.00	7,870.00	14,034.16	7,949.71	102.71	105.97	91.61	-4,639.62	-331.81	3,226.06	3,021.12	204.94	15.742		
15,000.00	7,870.00	14,082.27	7,950.43	104.26	106.79	91.63	-4,687.70	-330.21	3,222.46	3,015.56	206.90	15.575		
15,100.00	7,870.00	14,142.00	7,951.15	105.82	107.81	91.64	-4,747.41	-329.37	3,220.57	3,011.44	209.13	15.400		
15,178.80	7,870.00	14,163.52	7,951.35	107.05	108.17	91.64	-4,768.94	-329.40	3,220.16	3,010.01	210.15	15.323		
15,200.00	7,870.00	14,172.65	7,951.42	107.38	108.33	91.64	-4,778.06	-329.47	3,220.25	3,009.74	210.51	15.297		
15,300.00	7,870.00	14,231.00	7,951.67	108.95	109.31	91.65	-4,836.40	-330.72	3,221.85	3,009.23	212.62	15.153		
15,400.00	7,870.00	14,286.09	7,951.71	110.52	110.24	91.65	-4,891.45	-332.65	3,224.76	3,010.17	214.59	15.027		
15,500.00	7,870.00	14,404.22	7,951.46	112.10	112.22	91.64	-5,009.51	-336.83	3,227.99	3,009.54	218.45	14.777		
15,600.00	7,870.00	14,625.54	7,953.54	113.69	115.98	91.68	-5,230.79	-338.13	3,227.55	3,002.24	225.31	14.325		
15,700.00	7,870.00	14,703.52	7,955.25	115.28	117.31	91.71	-5,308.74	-337.75	3,226.81	2,998.77	228.05	14.150		
15,732.07	7,870.00	14,724.96	7,955.70	115.79	117.68	91.72	-5,330.18	-337.78	3,226.76	2,997.94	228.82	14.102		
15,800.00	7,870.00	14,766.00	7,956.51	116.87	118.38	91.73	-5,371.22	-338.02	3,227.00	2,996.68	230.32	14.011		
15,900.00	7,870.00	14,837.51	7,957.59	118.47	119.60	91.75	-5,442.71	-339.07	3,228.20	2,995.37	232.84	13.865		
16,000.00	7,870.00	14,902.82	7,958.11	120.07	120.70	91.76	-5,507.99	-340.74	3,230.45	2,995.31	235.14	13.738		
16,100.00	7,870.00	14,976.56	7,958.21	121.68	121.95	91.76	-5,581.69	-343.43	3,233.73	2,996.05	237.68	13.605		
16,200.00	7,870.00	15,136.53	7,960.21	123.30	124.66	91.79	-5,741.54	-348.87	3,237.09	2,994.22	242.87	13.328		
16,300.00	7,870.00	15,244.06	7,964.31	124.91	126.50	91.86	-5,848.97	-350.98	3,238.84	2,992.37	246.48	13.141		
16,400.00	7,870.00	15,357.81	7,968.60	126.53	128.44	91.94	-5,962.63	-352.71	3,240.15	2,989.87	250.28	12.946		
16,500.00	7,870.00	15,451.07	7,971.50	128.16	130.04	91.99	-6,055.84	-353.95	3,241.26	2,987.80	253.46	12.788		
16,600.00	7,870.00	15,564.87	7,975.12	129.79	131.99	92.05	-6,169.57	-355.59	3,242.49	2,985.22	257.27	12.604		
16,700.00	7,870.00	15,683.49	7,978.82	131.42	134.03	92.12	-6,288.12	-356.42	3,242.95	2,981.73	261.22	12.415		
16,800.00	7,870.00	15,779.48	7,981.98	133.05	135.68	92.17	-6,384.06	-357.06	3,243.39	2,978.89	264.51	12.262		
16,900.00	7,870.00	15,871.52	7,985.25	134.69	137.27	92.23	-6,476.04	-357.60	3,243.79	2,976.12	267.68	12.118		
17,000.00	7,870.00	15,946.21	7,987.62	136.33	138.55	92.27	-6,550.69	-358.58	3,244.89	2,974.57	270.32	12.004		
17,100.00	7,870.00	16,027.71	7,990.26	137.97	139.95	92.32	-6,632.12	-360.18	3,246.63	2,973.48	273.16	11.886		
17,200.00	7,870.00	16,108.75	7,993.01	139.62	141.34	92.36	-6,713.09	-362.21	3,248.95	2,972.98	275.97	11.773		
17,300.00	7,870.00	16,183.72	7,995.45	141.27	142.62	92.41	-6,787.98	-364.61	3,251.95	2,973.36	278.59	11.673		
17,400.00	7,870.00	16,247.02	7,997.32	142.92	143.70	92.44	-6,851.20	-367.23	3,255.88	2,975.08	280.80	11.595		
17,500.00	7,870.00	16,326.34	7,999.46	144.58	145.06	92.47	-6,930.39	-371.38	3,260.84	2,977.33	283.51	11.502		
17,600.00	7,870.00	16,414.17	8,001.98	146.23	146.55	92.51	-7,018.05	-376.17	3,266.10	2,979.59	286.50	11.400		
17,700.00	7,870.00	16,500.52	8,003.65	147.89	148.02	92.54	-7,104.22	-381.38	3,271.87	2,982.43	289.44	11.304		
17,800.00	7,870.00	16,600.69	8,005.22	149.56	149.72	92.56	-7,204.19	-387.62	3,277.82	2,984.98	292.85	11.193		
17,900.00	7,870.00	16,691.54	8,006.43	151.22	151.27	92.58	-7,294.85	-393.30	3,283.80	2,987.87	295.93	11.096		
18,000.00	7,870.00	16,899.95	8,004.93	152.89	154.82	92.54	-7,502.93	-404.51	3,289.31	2,986.40	302.91	10.859		
18,100.00	7,870.00	17,103.74	7,998.95	154.55	158.34	92.44	-7,706.60	-407.56	3,290.06	2,980.58	309.48	10.631		
18,200.00	7,870.00	17,255.68	7,992.02	156.22	160.98	92.32	-7,858.38	-406.84	3,289.08	2,974.70	314.38	10.462		
18,300.00	7,870.00	17,519.82	7,993.41	157.90	165.61	92.35	-8,122.14	-395.75	3,284.27	2,962.20	322.07	10.197		
18,400.00	7,870.00	17,635.14	7,998.23	159.57	167.64	92.44	-8,237.08	-387.77	3,277.18	2,951.28	325.90	10.056		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,500.00	7,870.00	17,747.25	8,002.98	161.25	169.62	92.53	-8,348.79	-379.49	3,269.64	2,939.98	329.66	9.918	
18,600.00	7,870.00	17,796.00	8,005.06	162.93	170.48	92.57	-8,397.35	-375.82	3,262.37	2,930.44	331.93	9.829	
18,700.00	7,870.00	17,796.00	8,005.06	164.60	170.48	92.57	-8,397.35	-375.82	3,257.79	2,924.97	332.82	9.789	
18,797.52	7,870.00	17,796.00	8,005.06	166.24	170.48	92.57	-8,397.35	-375.82	3,256.27	2,922.87	333.41	9.767 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-52.40	786.52	-1,021.14	1,288.98					
100.00	100.00	87.76	87.76	0.13	0.15	-52.40	786.50	-1,021.17	1,288.94	1,288.66	0.28	4,596.456	CC	
200.00	200.00	187.50	187.50	0.49	0.31	-52.40	786.41	-1,021.27	1,288.96	1,288.16	0.80	1,601.616		
300.00	300.00	287.23	287.23	0.85	0.48	-52.41	786.26	-1,021.45	1,289.01	1,287.68	1.33	969.796		
400.00	400.00	384.98	384.98	1.21	0.76	-52.42	786.17	-1,021.67	1,289.14	1,287.17	1.97	653.625		
500.00	500.00	481.84	481.84	1.57	1.10	-52.41	786.51	-1,021.84	1,289.49	1,286.83	2.67	483.242		
600.00	600.00	578.69	578.69	1.93	1.44	-52.39	787.30	-1,021.97	1,290.09	1,286.73	3.36	383.444		
700.00	700.00	682.60	682.59	2.29	1.80	-52.37	788.02	-1,022.18	1,290.68	1,286.60	4.09	315.855		
800.00	800.00	784.77	784.69	2.64	2.16	-52.22	790.99	-1,020.32	1,291.02	1,286.22	4.80	268.847		
900.00	900.00	886.24	886.01	3.00	2.51	-51.97	795.52	-1,017.05	1,291.22	1,285.70	5.52	234.064		
1,000.00	1,000.00	988.12	987.61	3.36	2.88	-51.64	801.36	-1,012.58	1,291.32	1,285.08	6.24	206.929		
1,100.00	1,099.98	1,082.58	1,081.55	3.72	3.23	-105.87	809.30	-1,006.49	1,292.00	1,285.06	6.94	186.081		
1,200.00	1,199.84	1,225.28	1,223.24	4.07	3.77	-105.45	821.17	-994.60	1,292.10	1,284.27	7.83	164.959		
1,269.82	1,269.42	1,292.08	1,289.56	4.32	4.02	-105.34	825.96	-988.29	1,291.68	1,283.34	8.34	154.895		
1,300.00	1,299.45	1,314.40	1,311.71	4.43	4.11	-105.31	827.77	-986.18	1,291.81	1,283.28	8.53	151.356	ES	
1,400.00	1,398.70	1,390.73	1,387.26	4.80	4.42	-105.19	835.77	-978.77	1,294.14	1,284.94	9.21	140.587		
1,500.00	1,497.47	1,471.66	1,466.70	5.18	4.76	-104.95	848.00	-969.44	1,298.93	1,289.01	9.92	130.917		
1,600.00	1,595.62	1,549.12	1,542.24	5.57	5.10	-104.69	862.30	-960.05	1,306.29	1,295.63	10.66	122.597		
1,700.00	1,693.06	1,652.14	1,642.89	6.00	5.56	-104.54	880.95	-948.47	1,314.98	1,303.45	11.53	114.010		
1,800.00	1,789.64	1,732.86	1,722.09	6.45	5.92	-104.56	894.68	-941.09	1,325.46	1,313.13	12.33	107.498		
1,900.00	1,885.27	1,863.51	1,850.36	6.94	6.50	-104.90	916.41	-929.01	1,336.67	1,323.27	13.40	99.778		
2,000.00	1,979.82	1,959.10	1,944.33	7.47	6.93	-105.26	930.71	-919.02	1,346.83	1,332.49	14.33	93.956		
2,100.00	2,073.17	2,061.72	2,045.31	8.05	7.39	-105.78	946.30	-909.34	1,359.01	1,343.66	15.35	88.560		
2,200.00	2,165.21	2,202.03	2,183.19	8.67	8.02	-106.74	966.07	-892.61	1,369.57	1,352.99	16.58	82.606		
2,300.00	2,255.84	2,282.69	2,262.42	9.35	8.39	-107.28	977.37	-882.52	1,381.16	1,363.58	17.59	78.532		
2,400.00	2,344.94	2,360.85	2,339.18	10.09	8.75	-107.84	988.94	-873.47	1,395.37	1,376.75	18.63	74.917		
2,500.00	2,432.39	2,436.39	2,413.39	10.89	9.09	-108.41	1,000.64	-865.58	1,412.40	1,392.71	19.69	71.727		
2,519.29	2,449.07	2,452.69	2,429.41	11.05	9.17	-108.55	1,003.20	-863.99	1,416.01	1,396.11	19.91	71.125		
2,600.00	2,518.69	2,520.47	2,496.08	11.74	9.47	-109.41	1,013.68	-857.77	1,431.71	1,410.89	20.82	68.761		
2,700.00	2,604.95	2,603.43	2,577.82	12.62	9.85	-110.49	1,026.11	-850.99	1,452.31	1,430.36	21.95	66.158		
2,800.00	2,691.22	2,682.88	2,656.11	13.52	10.20	-111.49	1,038.31	-845.07	1,474.32	1,451.26	23.06	63.931		
2,900.00	2,777.48	2,783.66	2,755.15	14.43	10.66	-112.68	1,055.15	-837.06	1,497.17	1,472.87	24.30	61.612		
3,000.00	2,863.75	2,943.69	2,911.84	15.35	11.42	-114.39	1,082.79	-820.16	1,518.97	1,493.09	25.88	58.692		
3,100.00	2,950.01	3,046.97	3,012.82	16.28	11.92	-115.45	1,099.45	-806.23	1,537.95	1,510.79	27.15	56.638		
3,200.00	3,036.27	3,121.02	3,085.37	17.22	12.27	-116.21	1,110.96	-796.92	1,557.91	1,529.65	28.26	55.130		
3,300.00	3,122.54	3,262.48	3,224.17	18.17	12.94	-117.68	1,131.03	-778.46	1,577.34	1,547.65	29.69	53.126		
3,400.00	3,208.80	3,349.85	3,309.77	19.13	13.35	-118.56	1,143.10	-765.83	1,595.96	1,565.11	30.84	51.745		
3,500.00	3,295.07	3,422.18	3,380.98	20.09	13.68	-119.33	1,151.99	-756.80	1,616.15	1,584.25	31.89	50.672		
3,600.00	3,381.33	3,496.66	3,454.29	21.05	14.02	-120.09	1,161.92	-748.18	1,638.00	1,605.06	32.94	49.728		
3,700.00	3,467.59	3,574.98	3,531.23	22.02	14.38	-120.83	1,173.70	-739.46	1,661.27	1,627.27	34.00	48.855		
3,800.00	3,553.86	3,676.88	3,631.27	22.99	14.86	-121.77	1,189.45	-728.21	1,685.15	1,649.96	35.20	47.879		
3,900.00	3,640.12	3,766.70	3,719.33	23.97	15.29	-122.55	1,203.97	-718.17	1,709.49	1,673.17	36.32	47.069		
4,000.00	3,726.38	3,878.32	3,828.59	24.95	15.83	-123.47	1,221.97	-704.14	1,732.79	1,695.23	37.56	46.128		
4,100.00	3,812.65	3,938.44	3,887.61	25.93	16.11	-123.98	1,231.31	-697.43	1,757.64	1,719.15	38.49	45.668		
4,200.00	3,898.91	4,031.80	3,979.48	26.91	16.54	-124.78	1,245.30	-688.52	1,784.11	1,744.53	39.58	45.075		
4,300.00	3,985.18	4,124.02	4,070.22	27.90	16.97	-125.55	1,258.92	-679.29	1,810.44	1,769.78	40.66	44.530		
4,400.00	4,071.44	4,215.15	4,159.69	28.88	17.39	-126.25	1,273.58	-670.06	1,837.32	1,795.58	41.73	44.025		
4,500.00	4,157.70	4,293.31	4,236.39	29.87	17.76	-126.83	1,286.51	-662.36	1,864.83	1,822.11	42.72	43.651		
4,600.00	4,243.97	4,425.67	4,366.48	30.86	18.38	-127.82	1,307.14	-649.43	1,892.62	1,848.58	44.03	42.984		
4,700.00	4,330.23	4,542.59	4,480.61	31.85	18.96	-128.57	1,328.01	-634.95	1,918.59	1,873.31	45.29	42.366		
4,800.00	4,416.49	4,619.57	4,555.70	32.84	19.34	-129.04	1,341.72	-625.00	1,944.33	1,898.05	46.28	42.012		
4,900.00	4,502.76	4,677.00	4,611.89	33.84	19.63	-129.40	1,351.80	-618.76	1,972.00	1,924.88	47.12	41.849		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,806.88	4,739.14	34.83	20.25	-130.21	1,373.86	-605.03	2,000.19	1,951.77	48.42	41.306		
5,100.00	4,675.29	4,926.76	4,856.55	35.82	20.83	-130.97	1,392.82	-590.04	2,026.40	1,976.76	49.64	40.826		
5,200.00	4,761.55	4,998.37	4,926.62	36.82	21.18	-131.39	1,404.55	-581.05	2,052.97	2,002.42	50.55	40.616		
5,300.00	4,847.81	5,064.04	4,991.05	37.82	21.49	-131.79	1,415.01	-573.79	2,081.01	2,029.62	51.39	40.492		
5,400.00	4,934.08	5,142.12	5,067.98	38.81	21.85	-132.30	1,426.17	-566.44	2,110.49	2,058.20	52.29	40.365		
5,500.00	5,020.34	5,269.83	5,193.89	39.81	22.42	-133.14	1,442.84	-553.24	2,139.08	2,085.62	53.46	40.013		
5,600.00	5,106.60	5,385.85	5,308.24	40.81	22.95	-133.88	1,457.63	-540.27	2,167.23	2,112.69	54.55	39.731		
5,700.00	5,192.87	5,500.34	5,420.53	41.81	23.49	-134.53	1,474.26	-525.44	2,194.05	2,138.39	55.66	39.419		
5,800.00	5,279.13	5,567.00	5,486.01	42.81	23.80	-134.91	1,483.86	-517.44	2,221.91	2,165.44	56.47	39.344		
5,900.00	5,365.40	5,648.68	5,566.36	43.81	24.18	-135.37	1,495.39	-508.40	2,250.85	2,193.49	57.36	39.239		
6,000.00	5,451.66	5,758.67	5,674.52	44.81	24.69	-135.97	1,510.86	-495.72	2,279.59	2,221.16	58.42	39.020		
6,100.00	5,537.92	5,857.22	5,771.46	45.81	25.15	-136.51	1,524.25	-484.04	2,308.15	2,248.75	59.40	38.860		
6,200.00	5,624.19	5,944.24	5,856.91	46.81	25.56	-136.95	1,536.68	-473.29	2,336.48	2,276.18	60.30	38.745		
6,300.00	5,710.45	5,992.67	5,904.63	47.81	25.78	-137.21	1,543.14	-468.06	2,366.34	2,305.40	60.94	38.828		
6,400.00	5,796.72	6,073.90	5,984.88	48.81	26.14	-137.66	1,553.18	-460.59	2,397.76	2,335.99	61.77	38.819		
6,500.00	5,882.98	6,176.09	6,085.70	49.81	26.59	-138.18	1,566.65	-450.84	2,429.11	2,366.37	62.73	38.721		
6,600.00	5,969.24	6,278.70	6,186.89	50.82	27.05	-138.70	1,580.31	-440.66	2,460.27	2,396.57	63.70	38.622		
6,700.00	6,055.51	6,396.11	6,302.65	51.82	27.58	-139.27	1,595.58	-428.28	2,491.00	2,426.24	64.76	38.467		
6,800.00	6,141.77	6,535.00	6,439.32	52.82	28.22	-139.92	1,613.93	-411.69	2,520.57	2,454.62	65.94	38.224		
6,900.00	6,228.03	6,606.86	6,509.98	53.83	28.55	-140.26	1,623.28	-402.64	2,549.67	2,482.96	66.71	38.222		
7,000.00	6,314.30	6,680.78	6,582.90	54.83	28.88	-140.61	1,631.98	-394.14	2,579.86	2,512.40	67.46	38.244		
7,100.00	6,400.56	6,757.09	6,658.30	55.83	29.22	-140.99	1,640.24	-385.78	2,610.74	2,542.53	68.20	38.279		
7,200.00	6,486.83	6,833.40	6,734.40	56.84	29.56	-141.37	1,648.08	-376.38	2,641.92	2,573.59	69.33	37.962		
7,300.00	6,573.09	6,910.07	6,811.08	57.84	30.06	-141.82	1,656.89	-366.93	2,673.49	2,604.99	70.46	37.645		
7,400.00	6,659.35	6,986.74	6,887.15	58.84	30.56	-142.28	1,665.27	-357.43	2,705.06	2,636.56	71.59	37.328		
7,500.00	6,745.62	7,063.41	6,963.22	59.85	31.06	-142.73	1,673.65	-347.97	2,736.63	2,668.13	72.72	37.011		
7,600.00	6,831.88	7,140.08	7,039.29	60.85	31.56	-143.18	1,682.03	-338.51	2,768.20	2,699.70	73.85	36.694		
7,700.00	6,918.14	7,216.75	7,115.36	61.86	32.06	-143.63	1,690.41	-329.05	2,800.00	2,731.27	74.98	36.377		
7,800.00	7,004.41	7,293.42	7,191.43	62.86	32.56	-144.08	1,698.79	-319.59	2,831.81	2,762.84	76.11	36.060		
7,900.00	7,090.67	7,370.09	7,267.50	63.87	33.06	-144.53	1,707.17	-310.13	2,863.62	2,794.41	77.24	35.743		
8,000.00	7,176.94	7,446.76	7,343.57	64.87	33.56	-144.98	1,715.55	-300.67	2,895.43	2,825.98	78.37	35.426		
8,027.52	7,200.68	7,469.90	7,367.71	65.15	30.85	-147.17	1,545.42	-282.57	2,891.16	2,820.28	70.88	40.790		
8,050.00	7,220.18	7,493.04	7,390.85	65.37	30.85	-151.74	1,540.98	-281.93	2,900.62	2,829.76	70.86	40.937		
8,100.00	7,264.25	7,418.67	7,285.82	65.85	30.85	-162.92	1,530.52	-280.50	2,921.99	2,851.20	70.79	41.276		
8,150.00	7,308.99	7,439.00	7,302.97	66.28	30.85	-175.26	1,519.68	-279.13	2,943.63	2,872.92	70.71	41.628		
8,200.00	7,354.07	7,460.95	7,321.17	66.67	30.83	171.73	1,507.50	-277.70	2,965.33	2,894.72	70.61	41.996		
8,250.00	7,399.14	7,482.63	7,338.81	67.02	30.82	158.80	1,494.96	-276.37	2,986.88	2,916.39	70.49	42.371		
8,300.00	7,443.85	7,504.78	7,356.46	67.32	30.80	146.68	1,481.65	-275.07	3,008.11	2,937.74	70.36	42.752		
8,350.00	7,487.88	7,528.00	7,374.56	67.56	30.79	135.85	1,467.16	-273.78	3,028.81	2,958.59	70.22	43.135		
8,400.00	7,530.87	7,528.00	7,374.56	67.75	30.79	126.62	1,467.16	-273.78	3,048.97	2,978.81	70.16	43.455		
8,450.00	7,572.51	7,564.78	7,402.36	67.90	30.74	118.59	1,443.15	-272.01	3,068.09	2,998.14	69.95	43.861		
8,500.00	7,612.48	7,583.85	7,416.35	68.00	30.72	111.91	1,430.21	-271.25	3,086.39	3,016.58	69.81	44.209		
8,550.00	7,650.47	7,617.00	7,439.95	68.05	30.69	106.27	1,406.95	-270.20	3,103.68	3,034.07	69.61	44.585		
8,600.00	7,686.20	7,617.00	7,439.95	68.06	30.69	101.58	1,406.95	-270.20	3,119.63	3,050.05	69.58	44.836		
8,650.00	7,719.39	7,617.00	7,439.95	68.03	30.69	97.61	1,406.95	-270.20	3,134.56	3,065.00	69.56	45.064		
8,700.00	7,749.79	7,648.52	7,461.48	67.97	30.63	94.33	1,383.94	-269.68	3,147.81	3,078.41	69.40	45.359		
8,750.00	7,777.17	7,662.32	7,470.61	67.87	30.61	91.59	1,373.60	-269.65	3,159.82	3,090.48	69.34	45.568		
8,800.00	7,801.32	7,676.06	7,479.51	67.74	30.59	89.34	1,363.13	-269.74	3,170.35	3,101.04	69.31	45.741		
8,850.00	7,822.06	7,707.00	7,498.87	67.59	30.54	87.63	1,339.01	-270.38	3,179.48	3,110.27	69.21	45.942		
8,900.00	7,839.23	7,707.00	7,498.87	67.41	30.54	86.16	1,339.01	-270.38	3,186.70	3,117.40	69.30	45.985		
8,950.00	7,852.69	7,707.00	7,498.87	67.22	30.54	85.04	1,339.01	-270.38	3,192.47	3,123.05	69.42	45.986		
9,000.00	7,862.35	7,734.05	7,514.96	67.00	30.48	84.47	1,317.28	-271.36	3,196.45	3,127.03	69.42	46.044		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,749.49	7,523.77	66.78	30.45	84.15	1,304.63	-272.07	3,198.78	3,129.27	69.51	46.016		
9,098.65	7,870.00	7,764.23	7,531.93	66.55	30.42	84.15	1,292.38	-272.84	3,199.42	3,129.79	69.63	45.947		
9,100.00	7,870.00	7,764.63	7,532.15	66.55	30.42	84.15	1,292.04	-272.87	3,199.42	3,129.78	69.64	45.944		
9,112.93	7,870.00	7,768.52	7,534.26	66.49	30.41	84.19	1,288.78	-273.09	3,199.40	3,129.72	69.68	45.918		
9,200.00	7,870.00	7,796.00	7,548.66	66.09	30.36	84.45	1,265.44	-274.84	3,200.27	3,130.37	69.91	45.780		
9,300.00	7,870.00	8,073.60	7,647.35	65.65	29.77	86.22	1,007.60	-282.94	3,200.20	3,131.69	68.52	46.706		
9,400.00	7,870.00	8,152.00	7,661.31	65.24	29.63	86.47	930.47	-282.11	3,197.64	3,129.11	68.53	46.661		
9,500.00	7,870.00	8,248.89	7,672.12	64.85	29.48	86.66	834.21	-280.98	3,195.45	3,126.92	68.53	46.629		
9,600.00	7,870.00	8,321.75	7,676.42	64.48	29.43	86.74	761.49	-280.24	3,193.77	3,125.04	68.73	46.466		
9,700.00	7,870.00	8,400.00	7,680.39	64.13	60.27	86.81	570.81	-275.30	3,190.40	3,113.46	76.93	41.469		
9,800.00	7,870.00	8,567.57	7,681.17	63.80	30.51	86.82	515.84	-273.37	3,186.71	3,117.39	69.32	45.969		
9,900.00	7,870.00	8,628.17	7,681.75	63.50	30.93	86.83	455.25	-272.53	3,184.82	3,114.93	69.90	45.563		
10,000.00	7,870.00	8,686.00	7,682.16	63.22	31.36	86.83	397.42	-271.91	3,183.65	3,113.12	70.53	45.139		
10,033.27	7,870.00	8,714.99	7,682.33	63.13	31.59	86.84	368.43	-271.81	3,183.44	3,112.64	70.79	44.968		
10,100.00	7,870.00	8,740.76	7,682.45	62.96	31.79	86.84	342.66	-272.07	3,183.87	3,112.64	71.23	44.699		
10,200.00	7,870.00	8,784.04	7,682.61	62.72	32.13	86.84	299.39	-273.23	3,186.11	3,114.18	71.93	44.294		
10,300.00	7,870.00	8,864.00	7,683.40	62.50	32.80	86.86	219.50	-276.25	3,189.49	3,116.66	72.82	43.797		
10,400.00	7,870.00	8,955.23	7,685.23	62.31	33.61	86.90	128.37	-280.16	3,193.32	3,119.43	73.89	43.216		
10,500.00	7,870.00	9,085.27	7,688.81	62.15	34.86	86.97	-1.49	-285.93	3,197.40	3,122.02	75.38	42.415		
10,600.00	7,870.00	9,250.04	7,691.54	62.01	36.57	87.02	-166.20	-289.38	3,198.85	3,121.44	77.41	41.323		
10,700.00	7,870.00	9,369.98	7,690.48	61.90	37.91	87.00	-286.12	-290.44	3,199.42	3,120.18	79.24	40.375		
10,800.00	7,870.00	9,485.42	7,688.96	61.82	39.26	86.97	-401.55	-290.95	3,199.60	3,118.42	81.18	39.416		
10,900.00	7,870.00	9,592.70	7,686.93	61.78	40.57	86.93	-508.82	-290.92	3,199.33	3,116.18	83.15	38.478		
11,000.00	7,870.00	9,690.52	7,684.63	61.77	41.80	86.89	-606.60	-290.94	3,199.14	3,114.04	85.10	37.595		
11,100.00	7,870.00	9,828.40	7,684.05	61.81	43.58	86.88	-744.48	-290.21	3,198.30	3,110.55	87.75	36.448		
11,200.00	7,870.00	9,945.01	7,684.00	61.90	45.14	86.88	-861.08	-288.60	3,196.58	3,106.35	90.22	35.429		
11,300.00	7,870.00	10,083.86	7,682.60	62.03	47.06	86.85	-999.88	-285.44	3,194.03	3,100.86	93.18	34.279		
11,400.00	7,870.00	10,157.68	7,681.27	62.23	48.10	86.82	-1,073.66	-283.36	3,191.06	3,095.95	95.11	33.552		
11,500.00	7,870.00	10,231.67	7,680.74	62.50	49.15	86.81	-1,147.65	-282.32	3,189.29	3,092.21	97.08	32.852		
11,600.00	7,870.00	10,317.60	7,680.22	62.84	50.39	86.80	-1,233.56	-281.19	3,187.71	3,088.40	99.31	32.099		
11,678.18	7,870.00	10,360.68	7,680.54	63.15	51.01	86.81	-1,276.64	-281.11	3,187.28	3,086.65	100.63	31.674		
11,700.00	7,870.00	10,379.00	7,680.85	63.25	51.27	86.81	-1,294.96	-281.23	3,187.32	3,086.21	101.11	31.522		
11,800.00	7,870.00	10,484.55	7,682.71	63.76	52.81	86.85	-1,400.49	-281.90	3,187.53	3,083.71	103.82	30.703		
11,802.40	7,870.00	10,483.33	7,682.69	63.77	52.79	86.85	-1,399.27	-281.90	3,187.54	3,083.72	103.81	30.705		
11,900.00	7,870.00	10,581.34	7,684.04	64.34	54.24	86.87	-1,497.27	-282.42	3,187.65	3,081.24	106.40	29.958		
12,000.00	7,870.00	10,695.82	7,684.68	65.01	55.95	86.88	-1,611.75	-282.53	3,187.36	3,077.96	109.40	29.135		
12,085.64	7,870.00	10,767.99	7,684.27	65.66	57.04	86.88	-1,683.91	-282.50	3,187.09	3,075.63	111.45	28.596		
12,100.00	7,870.00	10,777.98	7,684.29	65.77	57.19	86.88	-1,693.90	-282.54	3,187.10	3,075.34	111.75	28.519		
12,200.00	7,870.00	10,896.12	7,685.94	66.61	58.99	86.91	-1,812.03	-283.36	3,187.45	3,072.52	114.93	27.733		
12,300.00	7,870.00	11,082.34	7,687.24	67.51	61.88	86.93	-1,998.22	-280.76	3,185.70	3,066.01	119.68	26.618		
12,400.00	7,870.00	11,127.69	7,687.41	68.49	62.58	86.93	-2,043.56	-279.79	3,183.31	3,061.97	121.35	26.233		
12,472.17	7,870.00	11,155.42	7,687.66	69.23	63.02	86.93	-2,071.28	-279.69	3,182.79	3,060.36	122.43	25.998		
12,500.00	7,870.00	11,181.00	7,687.98	69.52	63.42	86.94	-2,096.86	-279.95	3,182.95	3,059.77	123.18	25.840		
12,600.00	7,870.00	11,232.84	7,688.58	70.61	64.23	86.95	-2,148.69	-280.89	3,184.07	3,059.10	124.97	25.479		
12,700.00	7,870.00	11,356.45	7,690.92	71.75	66.16	86.99	-2,272.25	-283.17	3,185.52	3,057.04	128.48	24.793		
12,800.00	7,870.00	11,527.71	7,697.62	72.93	68.89	87.11	-2,443.37	-283.42	3,185.06	3,051.84	133.22	23.908		
12,900.00	7,870.00	11,650.96	7,699.28	74.14	70.87	87.14	-2,566.59	-281.65	3,183.21	3,046.39	136.82	23.266		
13,000.00	7,870.00	11,735.40	7,698.97	75.39	72.24	87.13	-2,651.01	-280.09	3,181.08	3,041.59	139.49	22.805		
13,100.00	7,870.00	11,785.51	7,698.39	76.67	73.05	87.12	-2,701.12	-279.79	3,180.21	3,038.89	141.32	22.504		
13,121.32	7,870.00	11,804.00	7,698.13	76.95	73.35	87.12	-2,719.61	-279.88	3,180.25	3,038.35	141.90	22.412		
13,200.00	7,870.00	11,842.22	7,697.61	77.98	73.96	87.11	-2,757.83	-280.32	3,180.84	3,037.55	143.29	22.199		
13,300.00	7,870.00	11,908.01	7,696.91	79.31	75.02	87.10	-2,823.59	-281.76	3,182.72	3,037.24	145.48	21.877		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,400.00	7,870.00	11,996.10	7,695.23	80.67	76.44	87.07	-2,911.64	-284.15	3,185.19	3,036.95	148.25	21.486		
13,500.00	7,870.00	12,072.00	7,694.03	82.04	77.67	87.05	-2,987.48	-286.83	3,188.42	3,037.72	150.70	21.157		
13,600.00	7,870.00	12,232.24	7,695.76	83.43	80.27	87.09	-3,147.61	-291.95	3,191.38	3,035.94	155.44	20.532		
13,700.00	7,870.00	12,338.62	7,695.95	84.84	82.01	87.09	-3,253.97	-293.76	3,192.73	3,033.97	158.76	20.111		
13,800.00	7,870.00	12,402.33	7,695.70	86.27	83.05	87.09	-3,317.67	-295.21	3,194.68	3,033.74	160.95	19.849		
13,900.00	7,870.00	12,505.11	7,695.51	87.71	84.74	87.09	-3,420.40	-298.35	3,197.41	3,033.22	164.19	19.473		
14,000.00	7,870.00	12,710.40	7,697.86	89.16	88.14	87.13	-3,625.64	-299.89	3,197.31	3,027.07	170.24	18.781		
14,100.00	7,870.00	12,815.50	7,699.00	90.63	89.90	87.15	-3,730.74	-299.07	3,196.13	3,022.52	173.61	18.410		
14,200.00	7,870.00	12,889.14	7,701.39	92.10	91.13	87.19	-3,804.33	-299.04	3,195.57	3,019.41	176.16	18.140		
14,300.00	7,870.00	12,988.75	7,705.81	93.59	92.80	87.27	-3,903.84	-299.52	3,195.50	3,016.06	179.43	17.809		
14,400.00	7,870.00	13,154.53	7,712.19	95.09	95.59	87.38	-4,069.50	-298.59	3,194.51	3,010.01	184.50	17.314		
14,500.00	7,870.00	13,252.10	7,714.87	96.60	97.24	87.43	-4,167.02	-297.08	3,192.49	3,004.75	187.74	17.005		
14,600.00	7,870.00	13,349.99	7,716.66	98.11	98.89	87.46	-4,264.88	-295.41	3,190.37	2,999.38	190.98	16.705		
14,700.00	7,870.00	13,462.06	7,718.47	99.64	100.80	87.49	-4,376.92	-293.53	3,188.31	2,993.69	194.62	16.382		
14,800.00	7,870.00	13,585.24	7,720.19	101.17	102.89	87.52	-4,500.03	-290.21	3,185.16	2,986.60	198.56	16.042		
14,900.00	7,870.00	13,676.49	7,721.19	102.71	104.45	87.53	-4,591.25	-287.76	3,182.09	2,980.44	201.65	15.780		
15,000.00	7,870.00	13,748.65	7,721.96	104.26	105.68	87.55	-4,663.39	-286.17	3,179.54	2,975.31	204.23	15.568		
15,100.00	7,870.00	13,814.64	7,722.74	105.82	106.80	87.56	-4,729.36	-285.42	3,178.02	2,971.39	206.63	15.380		
15,191.44	7,870.00	13,875.00	7,723.49	107.24	107.83	87.57	-4,789.72	-285.38	3,177.58	2,968.78	208.80	15.218		
15,200.00	7,870.00	13,875.00	7,723.49	107.38	107.83	87.57	-4,789.72	-285.38	3,177.60	2,968.75	208.85	15.215		
15,300.00	7,870.00	13,949.31	7,724.48	108.95	109.09	87.59	-4,864.02	-286.09	3,178.19	2,966.75	211.44	15.031		
15,400.00	7,870.00	14,190.58	7,722.59	110.52	113.21	87.56	-5,105.23	-284.15	3,177.13	2,958.43	218.71	14.527		
15,500.00	7,870.00	14,283.29	7,719.50	112.10	114.80	87.50	-5,197.83	-280.96	3,173.53	2,951.68	221.85	14.305		
15,600.00	7,870.00	14,351.23	7,717.23	113.69	115.97	87.46	-5,265.72	-279.33	3,170.92	2,946.61	224.32	14.136		
15,700.00	7,870.00	14,422.47	7,714.89	115.28	117.19	87.41	-5,336.90	-278.26	3,169.24	2,942.38	226.86	13.970		
15,800.00	7,870.00	14,489.78	7,712.70	116.87	118.34	87.37	-5,404.18	-277.92	3,168.54	2,939.26	229.28	13.820		
15,815.08	7,870.00	14,499.00	7,712.40	117.11	118.50	87.37	-5,413.39	-277.92	3,168.52	2,938.91	229.61	13.799		
15,900.00	7,870.00	14,554.76	7,710.56	118.47	119.45	87.33	-5,469.12	-278.27	3,168.90	2,937.30	231.60	13.683		
16,000.00	7,870.00	14,623.31	7,708.30	120.07	120.62	87.29	-5,537.62	-279.40	3,170.35	2,936.35	234.00	13.548		
16,100.00	7,870.00	14,694.67	7,706.10	121.68	121.83	87.25	-5,608.92	-281.21	3,172.70	2,936.23	236.47	13.417		
16,200.00	7,870.00	14,766.00	7,704.16	123.30	123.05	87.22	-5,680.19	-283.76	3,176.03	2,937.10	238.93	13.293		
16,300.00	7,870.00	14,824.87	7,702.76	124.91	124.04	87.20	-5,738.98	-286.51	3,180.45	2,939.48	240.97	13.199		
16,400.00	7,870.00	14,894.38	7,701.32	126.53	125.21	87.18	-5,808.35	-290.55	3,185.99	2,942.67	243.32	13.094		
16,500.00	7,870.00	14,971.68	7,700.36	128.16	126.51	87.16	-5,885.48	-295.66	3,192.32	2,946.40	245.92	12.981		
16,600.00	7,870.00	15,051.28	7,700.22	129.79	127.85	87.17	-5,964.86	-301.48	3,199.30	2,950.71	248.59	12.870		
16,700.00	7,870.00	15,136.63	7,701.07	131.42	129.28	87.19	-6,049.93	-308.31	3,206.89	2,955.44	251.45	12.753		
16,800.00	7,870.00	15,281.95	7,704.34	133.05	131.73	87.25	-6,194.80	-319.31	3,214.05	2,957.67	256.38	12.536		
16,900.00	7,870.00	15,472.27	7,711.14	134.69	134.96	87.38	-6,384.70	-329.78	3,219.11	2,956.36	262.75	12.252		
17,000.00	7,870.00	15,862.42	7,728.86	136.33	141.71	87.70	-6,774.30	-328.05	3,218.13	2,943.58	274.55	11.721		
17,100.00	7,870.00	15,970.48	7,732.45	137.97	143.60	87.76	-6,882.14	-322.30	3,212.33	2,934.11	278.22	11.546		
17,200.00	7,870.00	16,049.98	7,734.17	139.62	144.99	87.78	-6,961.52	-318.30	3,206.88	2,925.73	281.15	11.406		
17,300.00	7,870.00	16,124.78	7,735.41	141.27	146.30	87.80	-7,036.24	-315.08	3,202.18	2,918.24	283.94	11.278		
17,400.00	7,870.00	16,199.71	7,736.59	142.92	147.61	87.82	-7,111.12	-312.43	3,198.25	2,911.53	286.72	11.155		
17,500.00	7,870.00	16,271.70	7,737.72	144.58	148.86	87.84	-7,183.07	-310.49	3,195.16	2,905.75	289.40	11.040		
17,600.00	7,870.00	16,346.65	7,738.92	146.23	150.17	87.86	-7,258.00	-309.10	3,192.90	2,900.75	292.15	10.929		
17,700.00	7,870.00	16,419.98	7,740.14	147.89	151.44	87.88	-7,331.31	-308.31	3,191.43	2,896.60	294.83	10.825		
17,800.00	7,870.00	16,514.20	7,741.79	149.56	153.08	87.91	-7,425.52	-307.98	3,190.67	2,892.56	298.11	10.703		
17,900.00	7,870.00	16,639.49	7,744.04	151.22	155.26	87.95	-7,550.78	-306.94	3,189.45	2,887.15	302.30	10.551		
18,000.00	7,870.00	16,751.43	7,745.78	152.89	157.21	87.98	-7,662.70	-305.33	3,187.61	2,881.52	306.09	10.414		
18,100.00	7,870.00	16,858.08	7,747.31	154.55	159.07	88.01	-7,769.32	-303.43	3,185.44	2,875.70	309.74	10.284		
18,200.00	7,870.00	16,958.00	7,748.71	156.22	160.81	88.03	-7,869.21	-301.58	3,183.21	2,870.01	313.20	10.164		
18,300.00	7,870.00	17,066.17	7,750.21	157.90	162.70	88.06	-7,977.35	-299.50	3,180.90	2,864.01	316.89	10.038		

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

Anticollision Report

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

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		318-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,400.00	7,870.00	17,178.88	7,751.94	159.57	164.67	88.09	-8,090.02	-296.91	3,178.21	2,857.50	320.71	9.910	
18,500.00	7,870.00	17,276.81	7,752.77	161.25	166.38	88.10	-8,187.92	-294.41	3,175.30	2,851.19	324.12	9.797	
18,600.00	7,870.00	17,354.51	7,752.77	162.93	167.74	88.10	-8,265.59	-292.75	3,172.82	2,845.88	326.95	9.704	
18,700.00	7,870.00	17,436.37	7,752.33	164.60	169.17	88.09	-8,347.45	-291.60	3,171.08	2,841.20	329.88	9.613	
18,797.52	7,870.00	17,487.00	7,752.00	166.24	170.05	88.08	-8,398.07	-290.97	3,169.92	2,838.05	331.86	9.552 SF	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-52.12	786.52	-1,011.06	1,281.01					
100.00	100.00	91.08	91.08	0.13	0.14	-52.12	786.51	-1,010.92	1,280.85	1,280.58	0.27	4,727.018		
200.00	200.00	191.39	191.39	0.49	0.39	-52.11	786.47	-1,010.56	1,280.54	1,279.66	0.88	1,451.544		
300.00	300.00	288.85	288.85	0.85	0.73	-52.11	786.26	-1,010.52	1,280.37	1,278.79	1.58	809.863		
333.41	333.41	321.41	321.41	0.97	0.84	-52.12	786.15	-1,010.59	1,280.36	1,278.55	1.81	705.657		
400.00	400.00	383.29	383.29	1.21	1.06	-52.13	786.04	-1,010.82	1,280.49	1,278.22	2.27	564.450		
500.00	500.00	476.44	476.43	1.57	1.38	-52.14	786.27	-1,011.40	1,281.12	1,278.17	2.95	434.091		
600.00	600.00	569.58	569.57	1.93	1.71	-52.14	786.96	-1,012.25	1,282.29	1,278.66	3.63	352.878		
700.00	700.00	668.42	668.38	2.29	2.05	-52.07	789.15	-1,012.44	1,283.81	1,279.48	4.34	296.070		
800.00	800.00	785.51	785.15	2.64	2.47	-51.70	796.29	-1,008.28	1,284.80	1,279.69	5.11	251.523		
900.00	900.00	925.24	923.78	3.00	2.98	-50.93	808.77	-996.16	1,283.63	1,277.65	5.98	214.629		
1,000.00	1,000.00	1,021.10	1,018.69	3.36	3.35	-50.33	817.51	-985.85	1,281.08	1,274.37	6.71	190.959		
1,100.00	1,099.98	1,114.57	1,111.12	3.72	3.72	-104.44	826.78	-975.56	1,279.42	1,271.99	7.43	172.107		
1,200.00	1,199.84	1,213.92	1,209.36	4.07	4.12	-104.02	836.96	-964.81	1,279.09	1,270.91	8.19	156.203		
1,245.94	1,245.64	1,266.77	1,261.56	4.24	4.34	-103.83	842.54	-958.67	1,279.07	1,270.50	8.57	149.259		
1,300.00	1,299.45	1,340.96	1,334.59	4.43	4.66	-103.56	850.83	-948.67	1,278.74	1,269.66	9.08	140.903		
1,400.00	1,398.70	1,440.69	1,432.27	4.80	5.10	-103.22	863.15	-932.69	1,277.63	1,267.74	9.88	129.283		
1,420.79	1,419.28	1,459.47	1,450.62	4.87	5.18	-103.16	865.65	-929.62	1,277.58	1,267.53	10.05	127.181	CC, ES	
1,500.00	1,497.47	1,521.72	1,511.45	5.18	5.47	-102.99	874.36	-919.69	1,278.32	1,267.69	10.63	120.207		
1,600.00	1,595.62	1,597.30	1,585.28	5.57	5.82	-102.83	885.90	-908.33	1,281.52	1,270.14	11.38	112.585		
1,700.00	1,693.06	1,692.10	1,677.90	6.00	6.27	-102.76	901.34	-895.28	1,287.09	1,274.85	12.24	105.115		
1,800.00	1,789.64	1,818.19	1,801.37	6.45	6.86	-102.94	919.91	-877.75	1,292.35	1,279.08	13.28	97.321		
1,900.00	1,885.27	1,938.30	1,919.23	6.94	7.41	-103.38	934.47	-859.79	1,295.81	1,281.50	14.31	90.570		
2,000.00	1,979.82	2,018.47	1,998.11	7.47	7.78	-103.80	943.61	-848.81	1,300.77	1,285.58	15.19	85.649		
2,100.00	2,073.17	2,098.55	2,076.97	8.05	8.14	-104.29	953.37	-838.86	1,308.22	1,292.12	16.10	81.251		
2,200.00	2,165.21	2,183.07	2,160.20	8.67	8.52	-104.88	964.35	-829.04	1,317.92	1,300.85	17.08	77.182		
2,300.00	2,255.84	2,272.19	2,247.93	9.35	8.92	-105.59	976.58	-819.22	1,329.80	1,311.68	18.12	73.403		
2,400.00	2,344.94	2,415.85	2,388.98	10.09	9.59	-106.97	996.47	-800.68	1,341.84	1,322.37	19.47	68.908		
2,500.00	2,432.39	2,502.02	2,473.53	10.89	9.99	-107.81	1,007.34	-788.10	1,353.33	1,332.73	20.60	65.693		
2,519.29	2,449.07	2,516.44	2,487.70	11.05	10.06	-107.95	1,009.16	-786.13	1,355.89	1,335.08	20.81	65.149		
2,600.00	2,518.69	2,576.39	2,546.67	11.74	10.34	-108.76	1,016.79	-778.48	1,367.52	1,345.82	21.70	63.022		
2,700.00	2,604.95	2,686.34	2,654.86	12.62	10.84	-110.22	1,030.82	-764.82	1,382.92	1,359.95	22.97	60.206		
2,800.00	2,691.22	2,825.47	2,791.07	13.52	11.51	-111.91	1,049.36	-743.46	1,397.03	1,372.63	24.40	57.264		
2,900.00	2,777.48	2,931.26	2,894.75	14.43	12.02	-113.24	1,060.37	-725.53	1,408.82	1,383.17	25.65	54.921		
3,000.00	2,863.75	3,032.78	2,994.02	15.35	12.51	-114.44	1,072.05	-707.79	1,421.38	1,394.49	26.89	52.852		
3,100.00	2,950.01	3,100.34	3,060.08	16.28	12.84	-115.23	1,080.05	-696.13	1,434.91	1,406.93	27.98	51.292		
3,200.00	3,036.27	3,167.51	3,126.21	17.22	13.15	-116.07	1,087.02	-686.73	1,451.04	1,422.02	29.02	49.997		
3,300.00	3,122.54	3,247.19	3,204.57	18.17	13.52	-117.01	1,096.83	-676.13	1,469.20	1,439.09	30.12	48.786		
3,400.00	3,208.80	3,353.85	3,309.09	19.13	14.03	-118.16	1,111.88	-661.06	1,487.95	1,456.60	31.36	47.453		
3,500.00	3,295.07	3,449.87	3,403.03	20.09	14.50	-119.15	1,125.45	-646.54	1,506.30	1,473.77	32.54	46.291		
3,600.00	3,381.33	3,537.47	3,488.77	21.05	14.93	-120.04	1,138.05	-633.76	1,525.66	1,491.99	33.67	45.316		
3,700.00	3,467.59	3,621.28	3,570.92	22.02	15.33	-120.89	1,149.75	-621.98	1,545.79	1,511.04	34.75	44.479		
3,800.00	3,553.86	3,733.55	3,681.16	22.99	15.86	-122.03	1,164.83	-606.99	1,566.90	1,530.92	35.97	43.560		
3,900.00	3,640.12	3,820.85	3,766.67	23.97	16.29	-122.87	1,176.76	-594.09	1,587.17	1,550.12	37.05	42.834		
4,000.00	3,726.38	3,901.41	3,845.65	24.95	16.67	-123.62	1,188.11	-582.98	1,608.81	1,570.73	38.08	42.245		
4,100.00	3,812.65	3,984.35	3,927.25	25.93	17.06	-124.43	1,198.63	-572.56	1,631.56	1,592.46	39.09	41.734		
4,200.00	3,898.91	4,081.23	4,022.78	26.91	17.50	-125.40	1,210.02	-561.14	1,655.18	1,615.02	40.15	41.223		
4,300.00	3,985.18	4,201.30	4,140.77	27.90	18.06	-126.50	1,225.18	-544.89	1,677.78	1,636.44	41.34	40.582		
4,400.00	4,071.44	4,333.17	4,269.65	28.88	18.71	-127.57	1,244.06	-524.37	1,699.41	1,656.79	42.62	39.873		
4,500.00	4,157.70	4,402.82	4,337.72	29.87	19.06	-128.13	1,253.82	-513.27	1,720.90	1,677.35	43.55	39.513		
4,600.00	4,243.97	4,503.30	4,436.07	30.86	19.55	-128.93	1,267.66	-498.04	1,743.37	1,698.73	44.63	39.060		
4,700.00	4,330.23	4,600.97	4,531.56	31.85	20.03	-129.68	1,281.29	-482.71	1,765.65	1,719.95	45.69	38.643		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
4,800.00	4,416.49	4,667.94	4,597.15	32.84	20.36	-130.19	1,290.45	-472.80	1,789.00	1,742.44	46.56	38.422		
4,900.00	4,502.76	4,764.54	4,692.00	33.84	20.82	-130.94	1,303.05	-459.46	1,813.44	1,765.87	47.57	38.120		
5,000.00	4,589.02	4,876.42	4,801.57	34.83	21.37	-131.75	1,318.45	-443.00	1,837.43	1,788.75	48.68	37.748		
5,100.00	4,675.29	4,974.20	4,897.09	35.82	21.85	-132.41	1,333.07	-428.05	1,861.34	1,811.63	49.72	37.440		
5,200.00	4,761.55	5,060.32	4,981.09	36.82	22.29	-132.95	1,346.34	-414.48	1,885.12	1,834.44	50.68	37.195		
5,300.00	4,847.81	5,124.00	5,043.58	37.82	22.59	-133.39	1,355.11	-405.88	1,910.83	1,859.35	51.48	37.118		
5,400.00	4,934.08	5,200.52	5,118.97	38.81	22.94	-133.94	1,364.47	-396.70	1,938.02	1,885.72	52.31	37.051		
5,500.00	5,020.34	5,290.18	5,207.35	39.81	23.35	-134.59	1,375.08	-386.01	1,965.59	1,912.39	53.20	36.949		
5,600.00	5,106.60	5,496.17	5,409.42	40.81	24.34	-135.95	1,400.65	-355.61	1,990.76	1,936.01	54.75	36.360		
5,700.00	5,192.87	5,576.24	5,487.26	41.81	24.75	-136.38	1,413.18	-341.63	2,013.95	1,958.29	55.66	36.180		
5,800.00	5,279.13	5,668.93	5,577.65	42.81	25.23	-136.91	1,426.33	-325.92	2,037.66	1,981.05	56.62	35.990		
5,900.00	5,365.40	5,746.23	5,653.38	43.81	25.60	-137.39	1,435.51	-313.40	2,062.08	2,004.65	57.44	35.901		
6,000.00	5,451.66	5,842.08	5,747.43	44.81	26.06	-138.00	1,446.21	-298.33	2,087.12	2,028.78	58.33	35.779		
6,100.00	5,537.92	5,926.00	5,829.43	45.81	26.48	-138.46	1,457.65	-284.69	2,112.08	2,052.88	59.20	35.677		
6,200.00	5,624.19	5,979.88	5,882.05	46.81	26.74	-138.73	1,465.82	-276.53	2,138.51	2,078.62	59.88	35.710		
6,300.00	5,710.45	6,032.71	5,933.99	47.81	27.00	-139.02	1,473.00	-270.06	2,167.40	2,106.88	60.52	35.812		
6,400.00	5,796.72	6,171.02	6,070.28	48.81	27.63	-139.82	1,489.36	-253.15	2,196.70	2,135.04	61.66	35.627		
6,500.00	5,882.98	6,298.23	6,195.00	49.81	28.24	-140.48	1,505.87	-234.39	2,223.56	2,160.81	62.75	35.438		
6,600.00	5,969.24	6,359.30	6,254.89	50.82	28.53	-140.79	1,513.94	-225.61	2,251.04	2,187.60	63.43	35.487		
6,700.00	6,055.51	6,451.83	6,345.85	51.82	28.97	-141.27	1,525.48	-213.16	2,279.53	2,215.24	64.29	35.456		
6,800.00	6,141.77	6,598.99	6,490.20	52.82	29.68	-142.00	1,544.08	-191.45	2,306.92	2,241.45	65.48	35.232		
6,900.00	6,228.03	6,680.67	6,570.18	53.83	30.08	-142.39	1,554.32	-178.43	2,333.40	2,267.13	66.28	35.207		
7,000.00	6,314.30	6,748.61	6,636.65	54.83	30.41	-142.68	1,564.35	-168.56	2,361.25	2,294.24	67.01	35.237		
7,100.00	6,400.56	6,857.52	6,743.16	55.83	30.95	-143.11	1,580.91	-152.98	2,389.48	2,321.46	68.01	35.132		
7,200.00	6,486.83	7,205.72	7,082.95	56.84	32.51	-145.34	1,595.38	-85.71	2,414.79	2,345.31	69.48	34.754		
7,300.00	6,573.09	7,263.00	7,137.67	57.84	32.71	-145.96	1,585.79	-71.80	2,433.95	2,364.07	69.88	34.830		
7,400.00	6,659.35	7,263.00	7,137.67	58.84	32.71	-145.96	1,585.79	-71.80	2,456.04	2,385.72	70.31	34.931		
7,500.00	6,745.62	7,310.59	7,183.15	59.85	32.83	-146.51	1,576.04	-61.75	2,480.31	2,409.72	70.59	35.135		
7,600.00	6,831.88	7,352.00	7,223.08	60.85	32.94	-146.99	1,567.49	-54.92	2,508.20	2,437.35	70.85	35.402		
7,700.00	6,918.14	7,371.23	7,241.68	61.86	32.98	-147.21	1,563.46	-52.15	2,538.44	2,467.38	71.07	35.720		
7,800.00	7,004.41	7,465.12	7,332.10	62.86	33.18	-148.30	1,542.30	-38.32	2,570.16	2,498.92	71.24	36.078		
7,900.00	7,090.67	7,762.92	7,600.79	63.87	33.68	-152.54	1,430.50	18.03	2,602.29	2,531.65	70.63	36.843		
8,000.00	7,176.94	7,798.00	7,629.23	64.87	33.72	-153.13	1,411.97	26.87	2,630.08	2,559.35	70.73	37.185		
8,027.52	7,200.68	7,826.42	7,651.65	65.15	33.74	-153.63	1,396.02	33.97	2,637.92	2,567.27	70.65	37.338		
8,050.00	7,220.18	7,831.53	7,655.62	65.37	33.74	-157.82	1,393.03	35.19	2,644.65	2,573.98	70.68	37.420		
8,100.00	7,264.25	7,843.40	7,664.74	65.85	33.75	-168.11	1,385.98	37.99	2,659.81	2,589.09	70.72	37.611		
8,150.00	7,308.99	7,855.89	7,674.22	66.28	33.76	-179.56	1,378.36	40.84	2,675.10	2,604.35	70.75	37.812		
8,200.00	7,354.07	7,887.00	7,697.24	66.67	33.78	168.07	1,358.53	47.53	2,690.54	2,619.87	70.67	38.073		
8,250.00	7,399.14	7,887.00	7,697.24	67.02	33.78	156.20	1,358.53	47.53	2,705.48	2,634.75	70.73	38.251		
8,300.00	7,443.85	7,887.00	7,697.24	67.32	33.78	145.07	1,358.53	47.53	2,720.31	2,649.53	70.78	38.435		
8,350.00	7,487.88	7,887.00	7,697.24	67.56	33.78	135.15	1,358.53	47.53	2,734.92	2,664.11	70.81	38.623		
8,400.00	7,530.87	7,920.60	7,721.02	67.75	33.77	126.36	1,335.71	54.02	2,748.49	2,677.81	70.68	38.886		
8,450.00	7,572.51	7,933.65	7,729.92	67.90	33.77	119.10	1,326.45	56.31	2,761.68	2,691.04	70.64	39.095		
8,500.00	7,612.48	7,976.00	7,757.43	68.00	33.76	112.88	1,294.93	62.84	2,774.65	2,704.20	70.45	39.385		
8,550.00	7,650.47	7,976.00	7,757.43	68.05	33.76	107.93	1,294.93	62.84	2,785.84	2,715.36	70.48	39.528		
8,600.00	7,686.20	7,976.00	7,757.43	68.06	33.76	103.78	1,294.93	62.84	2,796.31	2,725.79	70.51	39.656		
8,650.00	7,719.39	7,976.00	7,757.43	68.03	33.76	100.32	1,294.93	62.84	2,805.98	2,735.42	70.56	39.767		
8,700.00	7,749.79	7,976.00	7,757.43	67.97	33.76	97.42	1,294.93	62.84	2,814.80	2,744.18	70.62	39.857		
8,750.00	7,777.17	8,017.37	7,782.03	67.67	33.71	95.08	1,262.07	67.91	2,821.68	2,751.20	70.48	40.038		
8,800.00	7,801.32	8,032.00	7,790.14	67.74	33.70	93.19	1,249.98	69.42	2,827.77	2,757.27	70.49	40.115		
8,850.00	7,822.06	8,065.00	7,807.24	67.59	33.67	91.76	1,221.91	72.24	2,832.80	2,762.39	70.41	40.232		
8,900.00	7,839.23	8,065.00	7,807.24	67.41	33.67	90.62	1,221.91	72.24	2,836.15	2,765.59	70.56	40.192		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
8,950.00	7,852.69	8,065.00	7,807.24	67.22	33.67	89.79	1,221.91	72.24	2,838.46	2,767.71	70.75	40.120		
9,000.00	7,862.35	8,065.00	7,807.24	67.00	33.67	89.25	1,221.91	72.24	2,839.70	2,768.73	70.97	40.014		
9,050.00	7,868.14	8,104.55	7,825.15	66.78	33.59	89.28	1,186.74	74.58	2,838.97	2,768.04	70.93	40.023		
9,098.65	7,870.00	8,118.50	7,830.70	66.55	33.56	89.45	1,173.96	75.14	2,837.38	2,766.29	71.09	39.911		
9,100.00	7,870.00	8,118.89	7,830.85	66.55	33.56	89.45	1,173.60	75.15	2,837.32	2,766.22	71.10	39.907		
9,200.00	7,870.00	8,154.00	7,842.94	66.09	33.50	89.70	1,140.66	75.91	2,834.15	2,762.75	71.40	39.693		
9,284.87	7,870.00	8,180.01	7,850.10	65.72	33.44	89.84	1,115.66	75.98	2,833.34	2,761.64	71.69	39.520		
9,300.00	7,870.00	8,186.11	7,851.54	65.65	33.42	89.87	1,109.74	75.94	2,833.36	2,761.63	71.73	39.502		
9,400.00	7,870.00	8,243.00	7,860.57	65.24	33.30	90.05	1,053.63	74.75	2,834.84	2,763.03	71.81	39.476		
9,500.00	7,870.00	8,286.80	7,863.58	64.85	33.20	90.11	1,009.96	73.07	2,837.99	2,765.97	72.03	39.402		
9,600.00	7,870.00	8,363.84	7,865.09	64.48	33.04	90.14	933.04	69.45	2,842.34	2,770.37	71.96	39.497		
9,700.00	7,870.00	8,681.36	7,860.20	64.13	33.02	90.04	615.78	63.86	2,845.02	2,774.15	70.87	40.143		
9,800.00	7,870.00	8,836.00	7,855.48	63.80	33.61	89.95	461.37	70.61	2,839.90	2,768.59	71.31	39.825		
9,900.00	7,870.00	8,886.44	7,853.77	63.50	33.87	89.91	411.02	72.90	2,835.44	2,763.53	71.91	39.430		
10,000.00	7,870.00	8,925.00	7,852.52	63.22	34.10	89.89	372.48	73.48	2,833.46	2,760.94	72.51	39.075		
10,028.05	7,870.00	8,925.00	7,852.52	63.14	34.10	89.89	372.48	73.48	2,833.32	2,760.64	72.68	38.985		
10,100.00	7,870.00	8,960.66	7,851.47	62.96	34.32	89.87	336.84	73.22	2,833.69	2,760.54	73.15	38.738		
10,200.00	7,870.00	9,014.00	7,850.20	62.72	34.66	89.84	283.54	71.65	2,836.07	2,762.22	73.85	38.404		
10,300.00	7,870.00	9,073.37	7,848.97	62.50	35.06	89.82	224.24	68.99	2,840.01	2,765.39	74.62	38.058		
10,400.00	7,870.00	9,183.10	7,846.58	62.31	35.89	89.77	114.65	63.88	2,844.36	2,768.65	75.70	37.573		
10,500.00	7,870.00	9,304.38	7,843.94	62.15	36.91	89.72	-6.50	59.11	2,847.96	2,770.91	77.05	36.962		
10,600.00	7,870.00	9,412.88	7,841.57	62.01	37.91	89.67	-114.91	55.40	2,851.04	2,772.56	78.48	36.326		
10,700.00	7,870.00	9,505.92	7,839.53	61.90	38.83	89.63	-207.88	52.32	2,854.04	2,774.13	79.91	35.717		
10,800.00	7,870.00	9,932.48	7,828.94	61.82	43.72	89.41	-633.85	59.68	2,853.51	2,767.56	85.95	33.201		
10,900.00	7,870.00	10,020.95	7,827.09	61.78	44.86	89.38	-722.05	66.38	2,845.60	2,757.75	87.86	32.390		
11,000.00	7,870.00	11,000.00	7,821.35	61.77	58.55	89.25	-968.36	92.36	2,834.24	2,731.32	102.92	27.539		
11,100.00	7,870.00	10,307.89	7,820.22	61.81	48.78	89.23	-1,007.21	96.95	2,822.26	2,728.38	93.88	30.062		
11,200.00	7,870.00	10,350.00	7,819.01	61.90	49.38	89.20	-1,049.11	100.93	2,812.43	2,717.25	95.18	29.550		
11,300.00	7,870.00	10,384.02	7,818.04	62.03	49.85	89.18	-1,083.03	103.40	2,804.77	2,708.45	96.31	29.121		
11,400.00	7,870.00	10,439.00	7,816.49	62.23	50.62	89.15	-1,137.93	105.92	2,799.50	2,701.65	97.85	28.609		
11,500.00	7,870.00	10,707.00	7,809.35	62.50	54.53	88.99	-1,404.66	129.58	2,788.37	2,684.54	103.83	26.855		
11,600.00	7,870.00	10,764.95	7,807.71	62.84	55.40	88.96	-1,462.33	135.03	2,778.46	2,672.89	105.57	26.318		
11,700.00	7,870.00	10,796.00	7,806.82	63.25	55.86	88.94	-1,493.24	137.84	2,769.90	2,663.18	106.72	25.955		
11,800.00	7,870.00	10,855.13	7,805.14	63.76	56.74	88.90	-1,552.19	142.02	2,763.00	2,654.52	108.48	25.471		
11,900.00	7,870.00	10,885.00	7,804.30	64.34	57.19	88.88	-1,582.02	143.30	2,758.64	2,649.08	109.56	25.180		
12,000.00	7,870.00	10,935.94	7,802.86	65.01	57.94	88.85	-1,632.93	144.40	2,756.37	2,645.27	111.10	24.810		
12,071.26	7,870.00	10,974.00	7,801.78	65.54	58.50	88.83	-1,670.97	144.40	2,756.06	2,643.83	112.24	24.556		
12,100.00	7,870.00	10,974.00	7,801.78	65.77	58.50	88.83	-1,670.97	144.40	2,756.21	2,643.90	112.32	24.539		
12,200.00	7,870.00	11,015.10	7,800.61	66.61	59.09	88.81	-1,712.05	143.50	2,758.24	2,644.66	113.58	24.285		
12,300.00	7,870.00	11,063.00	7,799.28	67.51	59.78	88.78	-1,759.87	141.14	2,762.62	2,647.64	114.98	24.026		
12,400.00	7,870.00	11,090.19	7,798.56	68.49	60.16	88.77	-1,786.98	139.18	2,769.14	2,653.31	115.83	23.906		
12,500.00	7,870.00	11,152.00	7,797.06	69.52	61.04	88.74	-1,848.47	133.18	2,778.17	2,660.62	117.55	23.635		
12,600.00	7,870.00	11,186.05	7,796.47	70.61	61.51	88.73	-1,882.29	129.24	2,788.74	2,670.23	118.51	23.532		
12,700.00	7,870.00	12,700.00	7,800.96	71.75	85.43	88.82	-2,533.61	123.90	2,783.51	2,633.40	150.11	18.543		
12,800.00	7,870.00	11,923.83	7,801.37	72.93	72.83	88.83	-2,617.10	130.91	2,774.90	2,636.15	138.75	20.000		
12,900.00	7,870.00	11,992.95	7,801.88	74.14	73.96	88.84	-2,686.07	135.51	2,767.80	2,626.78	141.03	19.626		
13,000.00	7,870.00	12,082.87	7,802.76	75.39	75.42	88.85	-2,775.81	141.14	2,761.20	2,617.34	143.86	19.194		
13,100.00	7,870.00	12,180.14	7,803.65	76.67	77.01	88.87	-2,872.91	146.81	2,755.01	2,608.11	146.90	18.754		
13,200.00	7,870.00	12,288.87	7,804.65	77.98	78.79	88.89	-2,981.43	153.49	2,748.51	2,598.23	150.28	18.290		
13,300.00	7,870.00	12,386.40	7,805.49	79.31	80.40	88.90	-3,078.77	159.58	2,741.91	2,588.54	153.37	17.878		
13,400.00	7,870.00	12,505.23	7,806.48	80.67	82.37	88.92	-3,197.34	167.27	2,735.10	2,578.04	157.06	17.414		
13,500.00	7,870.00	12,646.21	7,807.50	82.04	84.72	88.93	-3,337.93	177.70	2,727.44	2,566.06	161.38	16.901		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,600.00	7,870.00	12,756.00	7,807.58	83.43	86.57	88.93	-3,447.21	188.22	2,717.42	2,552.56	164.86	16.483		
13,700.00	7,870.00	12,808.33	7,807.68	84.84	87.45	88.93	-3,499.33	192.91	2,708.63	2,541.85	166.79	16.240		
13,800.00	7,870.00	12,845.00	7,807.89	86.27	88.07	88.94	-3,535.94	194.98	2,702.50	2,534.28	168.22	16.065		
13,900.00	7,870.00	12,877.42	7,808.14	87.71	88.60	88.94	-3,568.34	196.03	2,698.78	2,529.33	169.45	15.927		
14,000.00	7,870.00	12,934.00	7,808.64	89.16	89.53	88.95	-3,624.92	196.22	2,697.64	2,526.29	171.35	15.744		
14,100.00	7,870.00	13,107.19	7,809.15	90.63	92.39	88.96	-3,798.07	198.78	2,696.16	2,519.36	176.80	15.250		
14,200.00	7,870.00	13,188.63	7,809.35	92.10	93.75	88.96	-3,879.47	201.24	2,692.81	2,513.31	179.49	15.002		
14,300.00	7,870.00	13,288.64	7,809.80	93.59	95.42	88.97	-3,979.45	203.78	2,689.92	2,507.16	182.76	14.718		
14,400.00	7,870.00	13,350.25	7,810.08	95.09	96.44	88.98	-4,041.04	204.97	2,687.66	2,502.82	184.84	14.541		
14,500.00	7,870.00	13,455.68	7,810.48	96.60	98.20	88.99	-4,146.47	205.92	2,686.44	2,498.16	188.28	14.268		
14,600.00	7,870.00	13,593.53	7,810.97	98.11	100.51	89.00	-4,284.28	209.12	2,683.68	2,490.94	192.75	13.923		
14,700.00	7,870.00	13,672.87	7,810.97	99.64	101.85	88.99	-4,363.59	211.17	2,680.80	2,485.39	195.40	13.719		
14,800.00	7,870.00	13,736.00	7,811.11	101.17	102.91	89.00	-4,426.71	212.01	2,679.12	2,481.59	197.53	13.563		
14,900.00	7,870.00	13,820.03	7,811.55	102.71	104.31	89.01	-4,510.74	212.30	2,678.43	2,478.11	200.32	13.371		
14,930.81	7,870.00	13,840.06	7,811.69	103.19	104.65	89.01	-4,530.77	212.27	2,678.36	2,477.38	200.98	13.326		
15,000.00	7,870.00	13,880.98	7,812.02	104.26	105.33	89.02	-4,571.68	211.91	2,678.73	2,476.40	202.33	13.240		
15,100.00	7,870.00	14,062.36	7,815.31	105.82	108.38	89.09	-4,753.01	212.44	2,677.91	2,469.58	208.33	12.854		
15,200.00	7,870.00	14,147.61	7,817.28	107.38	109.82	89.13	-4,838.23	213.50	2,676.28	2,465.07	211.20	12.672		
15,300.00	7,870.00	14,258.69	7,820.37	108.95	111.70	89.19	-4,949.26	214.76	2,674.78	2,459.85	214.92	12.445		
15,400.00	7,870.00	14,563.99	7,828.11	110.52	116.94	89.36	-5,254.03	228.87	2,671.19	2,446.72	224.47	11.900		
15,500.00	7,870.00	14,650.17	7,830.17	112.10	118.44	89.40	-5,339.82	236.78	2,661.68	2,434.19	227.50	11.700		
15,600.00	7,870.00	14,717.00	7,831.74	113.69	119.60	89.43	-5,406.43	241.88	2,653.56	2,423.60	229.97	11.539		
15,700.00	7,870.00	14,746.09	7,832.41	115.28	120.10	89.45	-5,435.47	243.53	2,647.23	2,415.98	231.25	11.447		
15,800.00	7,870.00	14,806.00	7,833.79	116.87	121.13	89.47	-5,495.34	245.24	2,643.57	2,410.17	233.39	11.327		
15,900.00	7,870.00	15,008.28	7,835.98	118.47	124.63	89.52	-5,697.23	256.73	2,637.03	2,397.12	239.92	10.991		
16,000.00	7,870.00	15,073.00	7,836.36	120.07	125.76	89.53	-5,761.83	260.49	2,630.66	2,388.38	242.28	10.858		
16,100.00	7,870.00	15,101.50	7,836.61	121.68	126.25	89.53	-5,790.31	261.56	2,626.06	2,382.61	243.45	10.787		
16,200.00	7,870.00	15,162.00	7,837.18	123.30	127.28	89.55	-5,850.80	262.55	2,623.80	2,378.25	245.55	10.685		
16,250.66	7,870.00	15,162.00	7,837.18	124.11	127.28	89.55	-5,850.80	262.55	2,623.31	2,377.78	245.53	10.684		
16,300.00	7,870.00	15,187.23	7,837.42	124.91	127.71	89.55	-5,876.02	262.41	2,623.47	2,377.13	246.35	10.649		
16,400.00	7,870.00	15,227.33	7,837.77	126.53	128.39	89.56	-5,916.12	261.45	2,625.53	2,378.00	247.53	10.607		
16,500.00	7,870.00	15,275.32	7,838.16	128.16	129.19	89.57	-5,964.05	259.18	2,629.81	2,380.91	248.90	10.566		
16,600.00	7,870.00	15,340.00	7,838.65	129.79	130.26	89.58	-6,028.59	255.07	2,635.76	2,384.90	250.86	10.507		
16,700.00	7,870.00	15,454.91	7,839.58	131.42	132.17	89.60	-6,143.26	247.63	2,641.88	2,387.06	254.82	10.367		
16,800.00	7,870.00	15,534.68	7,840.02	133.05	133.50	89.61	-6,222.85	242.26	2,648.26	2,390.88	257.38	10.289		
16,900.00	7,870.00	15,624.13	7,840.31	134.69	134.98	89.62	-6,312.07	235.94	2,655.00	2,394.69	260.31	10.199		
17,000.00	7,870.00	15,684.93	7,840.75	136.33	135.99	89.63	-6,372.67	230.98	2,662.81	2,400.76	262.05	10.161		
17,100.00	7,870.00	15,729.82	7,841.20	137.97	136.72	89.64	-6,417.34	226.60	2,672.31	2,409.27	263.04	10.159		
17,200.00	7,870.00	16,267.11	7,845.94	139.62	145.71	89.74	-6,949.58	207.23	2,679.04	2,396.62	282.42	9.486		
17,300.00	7,870.00	16,320.00	7,845.87	141.27	146.63	89.74	-7,002.46	208.18	2,675.70	2,391.29	284.42	9.408		
17,400.00	7,870.00	16,320.00	7,845.87	142.92	146.63	89.74	-7,002.46	208.18	2,673.74	2,389.22	284.52	9.397		
17,402.49	7,870.00	16,320.00	7,845.87	142.96	146.63	89.74	-7,002.46	208.18	2,673.74	2,389.22	284.52	9.397		
17,500.00	7,870.00	16,320.00	7,845.87	144.58	146.63	89.74	-7,002.46	208.18	2,675.51	2,391.25	284.27	9.412		
17,600.00	7,870.00	16,357.36	7,845.72	146.23	147.25	89.74	-7,039.78	206.68	2,679.90	2,394.71	285.19	9.397		
17,700.00	7,870.00	16,409.00	7,845.52	147.89	148.11	89.73	-7,091.18	201.78	2,687.96	2,401.39	286.57	9.380		
17,800.00	7,870.00	16,409.00	7,845.52	149.56	148.11	89.73	-7,091.18	201.78	2,697.57	2,412.01	285.56	9.447		
17,900.00	7,870.00	16,512.20	7,845.35	151.22	149.80	89.73	-7,193.61	189.22	2,709.42	2,420.34	289.08	9.373		
18,000.00	7,870.00	16,604.58	7,844.59	152.89	151.32	89.72	-7,285.34	178.32	2,720.88	2,428.78	292.10	9.315		
18,100.00	7,870.00	16,695.36	7,842.71	154.55	152.81	89.68	-7,375.43	167.28	2,732.71	2,437.66	295.05	9.262		
18,200.00	7,870.00	16,817.12	7,839.29	156.22	154.81	89.61	-7,496.31	153.10	2,744.02	2,444.62	299.40	9.165		
18,300.00	7,870.00	16,910.10	7,835.97	157.90	156.35	89.54	-7,588.62	142.50	2,755.12	2,452.67	302.45	9.109		
18,400.00	7,870.00	17,018.41	7,831.33	159.57	158.14	89.44	-7,696.11	129.97	2,766.41	2,460.22	306.19	9.035		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	7,870.00	17,120.29	7,826.51	161.25	159.82	89.35	-7,797.24	118.60	2,777.30	2,467.67	309.63	8.970	
18,600.00	7,870.00	17,225.97	7,820.89	162.93	161.58	89.23	-7,902.12	106.91	2,788.10	2,474.86	313.24	8.901	
18,700.00	7,870.00	17,336.06	7,814.65	164.60	163.41	89.11	-8,011.40	95.18	2,798.52	2,481.47	317.05	8.827	
18,797.52	7,870.00	17,442.61	7,807.91	166.24	165.18	88.97	-8,117.15	84.06	2,808.49	2,487.78	320.71	8.757 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-51.84	786.52	-1,000.98	1,273.07					
100.00	100.00	87.57	87.57	0.13	0.15	-51.84	786.47	-1,001.03	1,273.03	1,272.75	0.28	4,543.404		
200.00	200.00	187.09	187.09	0.49	0.31	-51.86	786.30	-1,001.23	1,273.08	1,272.28	0.80	1,582.839		
300.00	300.00	286.60	286.60	0.85	0.48	-51.88	786.01	-1,001.58	1,273.17	1,271.85	1.33	958.419		
400.00	400.00	384.32	384.31	1.21	0.77	-51.90	785.70	-1,002.04	1,273.35	1,271.38	1.97	644.770		
500.00	500.00	481.21	481.21	1.57	1.11	-51.92	785.68	-1,002.56	1,273.76	1,271.09	2.68	475.675		
600.00	600.00	576.95	576.94	1.93	1.44	-51.91	786.16	-1,003.03	1,274.46	1,271.08	3.37	378.041		
700.00	700.00	732.57	732.45	2.29	1.98	-51.72	788.33	-998.82	1,273.22	1,268.96	4.26	298.871		
800.00	800.00	846.02	845.44	2.64	2.37	-51.31	792.38	-989.39	1,268.88	1,263.87	5.01	253.072		
900.00	900.00	946.86	945.42	3.00	2.75	-50.75	799.15	-978.17	1,264.42	1,258.67	5.74	220.104		
1,000.00	1,000.00	1,053.92	1,050.97	3.36	3.18	-49.98	809.05	-963.36	1,259.60	1,253.08	6.52	193.073		
1,100.00	1,099.98	1,158.16	1,153.05	3.72	3.62	-103.83	821.24	-946.13	1,254.94	1,247.62	7.32	171.496		
1,200.00	1,199.84	1,251.27	1,244.07	4.07	4.04	-103.25	832.56	-930.17	1,251.17	1,243.09	8.09	154.749		
1,300.00	1,299.45	1,349.74	1,339.74	4.43	4.51	-102.62	846.99	-911.81	1,248.89	1,239.98	8.91	140.181		
1,392.28	1,391.06	1,427.56	1,414.80	4.77	4.90	-102.11	860.16	-896.05	1,247.90	1,238.26	9.64	129.442		
1,400.00	1,398.70	1,433.76	1,420.77	4.80	4.94	-102.07	861.27	-894.80	1,247.90	1,238.20	9.70	128.638		
1,500.00	1,497.47	1,544.12	1,527.00	5.18	5.51	-101.47	881.08	-872.41	1,248.41	1,237.76	10.66	117.156		
1,600.00	1,595.62	1,675.68	1,653.68	5.57	6.22	-101.01	901.44	-843.39	1,246.39	1,234.64	11.75	106.092		
1,700.00	1,693.06	1,767.31	1,742.05	6.00	6.72	-100.86	915.65	-823.80	1,245.84	1,233.18	12.66	98.375		
1,800.00	1,789.64	1,906.21	1,875.57	6.45	7.50	-100.79	936.50	-791.68	1,244.44	1,230.57	13.86	89.760		
1,884.19	1,870.22	1,962.21	1,929.43	6.86	7.81	-100.87	944.59	-778.68	1,243.31	1,228.72	14.59	85.223 CC		
1,900.00	1,885.27	1,973.04	1,939.88	6.94	7.87	-100.89	946.20	-776.31	1,243.35	1,228.62	14.73	84.429		
2,000.00	1,979.82	2,081.87	2,044.94	7.47	8.47	-101.22	962.24	-752.94	1,244.29	1,228.45	15.84	78.575 ES		
2,100.00	2,073.17	2,168.27	2,128.36	8.05	8.95	-101.60	974.83	-734.25	1,245.69	1,228.82	16.87	73.838		
2,200.00	2,165.21	2,263.20	2,239.14	8.67	9.59	-102.25	991.65	-708.69	1,247.46	1,229.36	18.10	68.909		
2,300.00	2,255.84	2,364.37	2,317.50	9.35	10.05	-102.82	1,003.33	-691.07	1,250.44	1,231.24	19.20	65.123		
2,400.00	2,344.94	2,438.00	2,388.88	10.09	10.45	-103.43	1,014.25	-676.65	1,256.30	1,236.01	20.29	61.915		
2,500.00	2,432.39	2,509.32	2,458.29	10.89	10.81	-104.10	1,025.05	-664.31	1,265.30	1,243.91	21.39	59.156		
2,519.29	2,449.07	2,523.54	2,472.15	11.05	10.89	-104.24	1,027.22	-662.02	1,267.39	1,245.78	21.61	58.659		
2,600.00	2,518.69	2,582.64	2,529.85	11.74	11.18	-105.02	1,036.35	-653.06	1,277.11	1,254.59	22.52	56.720		
2,700.00	2,604.95	2,787.45	2,728.58	12.62	12.28	-107.51	1,066.04	-613.98	1,286.03	1,261.66	24.37	52.777		
2,800.00	2,691.22	2,873.22	2,811.15	13.52	12.77	-108.45	1,078.07	-594.15	1,292.19	1,266.55	25.64	50.400		
2,900.00	2,777.48	2,985.27	2,918.90	14.43	13.42	-109.68	1,093.31	-567.49	1,297.99	1,270.96	27.03	48.012		
3,000.00	2,863.75	3,065.60	2,996.47	15.35	13.88	-110.59	1,103.70	-549.35	1,304.94	1,276.68	28.26	46.169		
3,100.00	2,950.01	3,151.10	3,078.91	16.28	14.36	-111.52	1,115.73	-530.17	1,313.15	1,283.63	29.51	44.497		
3,200.00	3,036.27	3,223.09	3,148.57	17.22	14.76	-112.32	1,126.07	-515.21	1,323.30	1,292.62	30.67	43.144		
3,300.00	3,122.54	3,330.32	3,252.32	18.17	15.35	-113.48	1,141.66	-493.07	1,334.11	1,302.11	32.00	41.691		
3,400.00	3,208.80	3,413.24	3,332.80	19.13	15.81	-114.41	1,153.12	-476.71	1,345.83	1,312.65	33.18	40.561		
3,500.00	3,295.07	3,509.10	3,425.64	20.09	16.33	-115.42	1,167.26	-457.50	1,358.21	1,323.79	34.42	39.459		
3,600.00	3,381.33	3,593.64	3,507.67	21.05	16.79	-116.32	1,179.82	-441.36	1,371.87	1,336.29	35.59	38.551		
3,700.00	3,467.59	3,702.49	3,613.25	22.02	17.38	-117.46	1,195.30	-419.94	1,385.16	1,348.29	36.86	37.576		
3,800.00	3,553.86	3,799.46	3,707.23	22.99	17.91	-118.43	1,209.87	-400.97	1,399.39	1,361.31	38.07	36.755		
3,900.00	3,640.12	3,942.35	3,845.23	23.97	18.72	-119.81	1,230.43	-370.15	1,411.98	1,372.47	39.51	35.738		
4,000.00	3,726.38	4,053.70	3,952.40	24.95	19.36	-120.87	1,245.23	-343.83	1,422.65	1,381.89	40.77	34.899		
4,100.00	3,812.65	4,112.83	4,009.49	25.93	19.69	-121.44	1,252.97	-330.52	1,434.65	1,392.90	41.75	34.364		
4,200.00	3,898.91	4,197.08	4,091.21	26.91	20.16	-122.26	1,264.19	-313.40	1,449.08	1,406.26	42.82	33.839		
4,300.00	3,985.18	4,271.31	4,162.93	27.90	20.57	-122.92	1,275.53	-297.96	1,464.26	1,420.42	43.84	33.400		
4,400.00	4,071.44	4,337.61	4,227.40	28.88	20.93	-123.53	1,285.37	-286.03	1,482.01	1,437.23	44.77	33.100		
4,500.00	4,157.70	4,457.00	4,343.35	29.87	21.57	-124.58	1,304.04	-264.56	1,500.54	1,454.52	46.02	32.608		
4,600.00	4,243.97	4,595.75	4,477.43	30.86	22.34	-125.73	1,325.21	-235.84	1,516.61	1,469.25	47.36	32.021		
4,700.00	4,330.23	4,708.92	4,586.49	31.85	23.00	-126.66	1,341.41	-210.37	1,531.04	1,482.50	48.54	31.542		
4,800.00	4,416.49	4,800.36	4,674.51	32.84	23.53	-127.38	1,354.92	-189.60	1,545.73	1,496.13	49.60	31.161		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,502.76	4,908.37	4,778.55	33.84	24.16	-128.23	1,370.51	-165.12	1,560.69	1,509.96	50.73	30.762		
5,000.00	4,589.02	5,004.08	4,870.58	34.83	24.72	-128.96	1,384.22	-142.69	1,575.13	1,523.34	51.79	30.413		
5,100.00	4,675.29	5,079.83	4,943.50	35.82	25.15	-129.52	1,395.40	-125.50	1,590.67	1,537.93	52.74	30.163		
5,200.00	4,761.55	5,154.01	5,015.18	36.82	25.58	-130.08	1,406.28	-109.84	1,607.91	1,554.27	53.64	29.974		
5,300.00	4,847.81	5,243.30	5,101.46	37.82	26.08	-130.71	1,420.49	-91.72	1,626.46	1,571.82	54.63	29.771		
5,400.00	4,934.08	5,337.19	5,192.40	38.81	26.60	-131.40	1,434.01	-72.70	1,644.98	1,589.37	55.61	29.580		
5,500.00	5,020.34	5,413.02	5,266.07	39.81	27.00	-131.97	1,444.62	-58.20	1,664.76	1,608.30	56.46	29.487		
5,600.00	5,106.60	5,516.80	5,366.98	40.81	27.56	-132.73	1,459.55	-39.13	1,685.62	1,628.16	57.46	29.335		
5,700.00	5,192.87	5,645.79	5,491.71	41.81	28.28	-133.59	1,478.92	-12.59	1,704.55	1,645.92	58.63	29.074		
5,800.00	5,279.13	5,727.57	5,570.96	42.81	28.73	-134.16	1,490.03	4.26	1,723.59	1,664.11	59.49	28.975		
5,900.00	5,365.40	5,810.70	5,651.73	43.81	29.17	-134.75	1,501.00	20.59	1,743.71	1,683.38	60.33	28.905		
6,000.00	5,451.66	5,941.24	5,778.38	44.81	29.89	-135.64	1,518.39	46.96	1,763.61	1,702.19	61.42	28.714		
6,100.00	5,537.92	6,041.96	5,875.91	45.81	30.45	-136.32	1,531.41	68.50	1,782.49	1,720.15	62.34	28.591		
6,200.00	5,624.19	6,132.16	5,963.15	46.81	30.95	-136.89	1,543.58	87.94	1,801.49	1,738.28	63.21	28.499		
6,300.00	5,710.45	6,212.64	6,041.26	47.81	31.39	-137.43	1,553.56	104.52	1,821.50	1,757.50	64.00	28.460		
6,400.00	5,796.72	6,301.24	6,127.22	48.81	31.87	-137.99	1,565.37	122.47	1,842.17	1,777.33	64.84	28.412		
6,500.00	5,882.98	6,389.99	6,213.33	49.81	32.36	-138.51	1,577.97	139.84	1,863.74	1,798.05	65.68	28.374		
6,600.00	5,969.24	6,515.45	6,334.60	50.82	33.06	-139.19	1,596.75	165.92	1,884.26	1,817.50	66.77	28.222		
6,700.00	6,055.51	6,589.85	6,406.51	51.82	33.47	-139.60	1,607.80	181.49	1,904.95	1,837.42	67.53	28.207		
6,800.00	6,141.77	6,715.17	6,528.14	52.82	34.16	-140.31	1,624.77	206.42	1,926.95	1,858.39	68.56	28.107		
6,900.00	6,228.03	6,801.91	6,611.66	53.83	34.66	-140.72	1,638.86	225.12	1,947.33	1,877.90	69.43	28.049		
7,000.00	6,314.30	7,202.40	6,991.42	54.83	36.89	-143.62	1,662.66	333.99	1,963.75	1,893.24	70.52	27.849		
7,100.00	6,400.56	7,232.29	7,018.59	55.83	36.99	-144.11	1,654.33	343.22	1,972.07	1,901.08	70.99	27.778		
7,200.00	6,486.83	7,260.00	7,043.69	56.84	37.09	-144.58	1,645.47	350.92	1,984.21	1,912.84	71.37	27.801		
7,300.00	6,573.09	7,260.00	7,043.69	57.84	37.09	-144.58	1,645.47	350.92	2,000.74	1,928.91	71.83	27.856		
7,400.00	6,659.35	7,308.04	7,087.13	58.84	37.17	-145.45	1,628.35	362.20	2,020.20	1,948.39	71.81	28.131		
7,500.00	6,745.62	7,349.00	7,124.14	59.85	37.24	-146.21	1,612.51	369.71	2,044.28	1,972.51	71.77	28.484		
7,600.00	6,831.88	7,349.00	7,124.14	60.85	37.24	-146.21	1,612.51	369.71	2,071.58	1,999.70	71.88	28.820		
7,700.00	6,918.14	7,385.71	7,157.07	61.86	37.27	-146.91	1,597.22	375.17	2,102.56	2,030.88	71.68	29.332		
7,800.00	7,004.41	7,415.52	7,183.48	62.86	37.29	-147.50	1,583.94	379.03	2,136.77	2,065.32	71.45	29.906		
7,900.00	7,090.67	7,450.12	7,213.72	63.87	37.30	-148.19	1,567.60	382.89	2,174.13	2,103.01	71.13	30.567		
8,000.00	7,176.94	7,507.57	7,262.82	64.87	37.31	-149.38	1,538.43	389.10	2,213.95	2,143.30	70.65	31.338		
8,027.52	7,200.68	7,522.34	7,275.20	65.15	37.31	-149.69	1,530.55	390.70	2,225.30	2,154.78	70.51	31.558		
8,050.00	7,220.18	7,539.52	7,289.47	65.37	37.31	-154.47	1,521.15	392.60	2,234.67	2,164.29	70.38	31.751		
8,100.00	7,264.25	7,585.12	7,326.32	65.85	37.30	-166.19	1,494.85	397.98	2,255.56	2,185.51	70.04	32.202		
8,150.00	7,308.99	7,630.60	7,361.53	66.28	37.30	-178.98	1,466.69	403.88	2,276.29	2,206.59	69.70	32.659		
8,200.00	7,354.07	7,648.46	7,374.86	66.67	37.28	168.13	1,455.02	406.19	2,296.91	2,227.41	69.50	33.049		
8,250.00	7,399.14	7,673.64	7,393.15	67.02	37.27	155.22	1,438.04	409.48	2,317.23	2,247.97	69.26	33.457		
8,300.00	7,443.85	7,705.00	7,415.06	67.32	37.26	143.07	1,415.98	413.56	2,337.07	2,268.09	68.98	33.879		
8,350.00	7,487.88	7,722.03	7,426.53	67.56	37.24	132.43	1,403.58	415.74	2,356.23	2,287.44	68.79	34.251		
8,400.00	7,530.87	7,744.22	7,440.99	67.75	37.21	123.20	1,386.98	418.51	2,374.62	2,306.04	68.58	34.627		
8,450.00	7,572.51	7,766.73	7,455.08	67.90	37.19	115.39	1,369.64	421.24	2,392.07	2,323.70	68.37	34.990		
8,500.00	7,612.48	7,794.00	7,471.35	68.00	37.17	108.80	1,347.99	424.44	2,408.43	2,340.31	68.13	35.351		
8,550.00	7,650.47	7,794.00	7,471.35	68.05	37.17	103.47	1,347.99	424.44	2,423.70	2,355.61	68.09	35.595		
8,600.00	7,686.20	7,794.00	7,471.35	68.06	37.17	98.98	1,347.99	424.44	2,438.07	2,370.00	68.08	35.814		
8,650.00	7,719.39	7,794.00	7,471.35	68.03	37.17	95.19	1,347.99	424.44	2,451.45	2,383.36	68.09	36.002		
8,700.00	7,749.79	7,834.81	7,493.76	67.97	37.09	91.98	1,314.12	428.20	2,462.25	2,394.41	67.85	36.292		
8,750.00	7,777.17	7,845.74	7,499.32	67.87	37.07	89.38	1,304.73	428.89	2,472.49	2,404.65	67.84	36.445		
8,800.00	7,801.32	7,883.00	7,516.80	67.74	37.01	87.28	1,271.86	430.24	2,481.92	2,414.27	67.65	36.687		
8,850.00	7,822.06	7,883.00	7,516.80	67.59	37.01	85.60	1,271.86	430.24	2,488.83	2,421.01	67.81	36.702		
8,900.00	7,839.23	7,883.00	7,516.80	67.41	37.01	84.29	1,271.86	430.24	2,494.42	2,426.39	68.02	36.669		
8,950.00	7,852.69	7,911.26	7,528.86	67.22	36.95	83.44	1,246.31	430.72	2,498.50	2,430.47	68.03	36.727		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	7,958.64	7,547.62	67.00	36.84	83.09	1,202.82	431.74	2,500.36	2,432.48	67.88	36.833		
9,050.00	7,868.14	7,973.00	7,552.94	66.78	36.81	82.93	1,189.49	432.10	2,500.17	2,432.08	68.09	36.720		
9,098.65	7,870.00	8,006.45	7,564.87	66.55	36.73	83.25	1,158.24	432.69	2,498.11	2,429.96	68.15	36.654		
9,100.00	7,870.00	8,006.99	7,565.05	66.55	36.73	83.25	1,157.74	432.69	2,498.04	2,429.88	68.16	36.650		
9,200.00	7,870.00	8,062.00	7,583.41	66.09	36.61	83.67	1,105.88	432.47	2,493.73	2,425.27	68.46	36.425		
9,300.00	7,870.00	8,119.79	7,601.27	65.65	36.48	84.08	1,050.93	431.52	2,491.31	2,422.52	68.78	36.219		
9,400.00	7,870.00	8,195.08	7,621.82	65.24	36.33	84.56	978.53	430.35	2,489.81	2,420.83	68.98	36.096		
9,464.79	7,870.00	8,240.00	7,630.85	64.98	36.25	84.77	934.54	429.53	2,489.55	2,420.42	69.13	36.011		
9,500.00	7,870.00	8,269.47	7,635.49	64.85	36.19	84.87	905.44	428.97	2,489.60	2,420.43	69.17	35.992		
9,600.00	7,870.00	8,355.46	7,644.46	64.48	36.06	85.08	819.95	427.44	2,490.12	2,420.83	69.29	35.937		
9,700.00	7,870.00	8,463.05	7,653.72	64.13	35.95	85.30	712.79	425.20	2,491.17	2,421.77	69.40	35.897		
9,800.00	7,870.00	8,631.70	7,659.99	63.80	36.00	85.44	544.32	425.95	2,489.92	2,420.44	69.48	35.836		
9,900.00	7,870.00	8,729.65	7,660.27	63.50	36.17	85.44	446.39	427.74	2,487.74	2,417.71	70.03	35.526		
10,000.00	7,870.00	8,829.86	7,660.53	63.22	36.48	85.44	346.20	429.49	2,485.64	2,414.91	70.73	35.141		
10,100.00	7,870.00	8,940.43	7,660.50	62.96	36.99	85.44	235.64	431.69	2,483.33	2,411.70	71.63	34.667		
10,200.00	7,870.00	9,029.34	7,660.35	62.72	37.52	85.43	146.75	433.54	2,480.94	2,408.32	72.62	34.164		
10,300.00	7,870.00	9,144.28	7,660.25	62.50	38.35	85.42	31.84	435.87	2,478.60	2,404.71	73.89	33.545		
10,400.00	7,870.00	9,234.50	7,660.14	62.31	39.09	85.42	-58.36	437.76	2,476.17	2,401.02	75.15	32.949		
10,500.00	7,870.00	9,341.50	7,660.12	62.15	40.07	85.41	-165.34	439.95	2,473.80	2,397.11	76.69	32.258		
10,600.00	7,870.00	9,453.15	7,659.74	62.01	41.19	85.40	-276.94	442.93	2,470.81	2,392.39	78.42	31.506		
10,700.00	7,870.00	9,526.95	7,658.20	61.90	41.98	85.36	-350.71	444.88	2,468.08	2,388.29	79.79	30.931		
10,800.00	7,870.00	9,592.26	7,656.55	61.82	42.69	85.32	-415.99	445.58	2,466.84	2,385.74	81.10	30.418		
10,900.00	7,870.00	9,681.76	7,657.25	61.78	43.69	85.33	-505.47	445.51	2,466.51	2,383.68	82.82	29.780		
11,000.00	7,870.00	9,786.61	7,660.04	61.77	44.90	85.40	-610.29	445.36	2,466.09	2,381.19	84.90	29.047		
11,100.00	7,870.00	9,894.00	7,662.48	61.81	46.19	85.45	-717.65	445.13	2,465.81	2,378.68	87.12	28.302		
11,200.00	7,870.00	10,039.67	7,666.06	61.90	48.02	85.53	-863.27	446.74	2,464.17	2,373.97	90.19	27.321		
11,300.00	7,870.00	10,172.10	7,669.24	62.03	49.77	85.60	-995.61	450.22	2,461.04	2,367.86	93.18	26.410		
11,400.00	7,870.00	10,229.79	7,670.22	62.23	50.54	85.62	-1,053.26	452.00	2,457.72	2,363.02	94.70	25.953		
11,500.00	7,870.00	10,288.00	7,670.22	62.50	51.32	85.62	-1,111.47	451.93	2,457.06	2,360.84	96.22	25.537		
11,510.72	7,870.00	10,288.00	7,670.22	62.53	51.32	85.62	-1,111.47	451.93	2,457.04	2,360.79	96.25	25.529		
11,600.00	7,870.00	10,368.32	7,669.26	62.84	52.40	85.60	-1,191.78	450.90	2,457.88	2,359.67	98.22	25.025		
11,700.00	7,870.00	10,501.92	7,666.57	63.25	54.25	85.53	-1,325.35	451.00	2,457.65	2,356.18	101.47	24.221		
11,800.00	7,870.00	10,610.28	7,663.66	63.76	55.78	85.46	-1,433.66	452.50	2,456.12	2,351.90	104.22	23.567		
11,900.00	7,870.00	10,736.76	7,659.66	64.34	57.60	85.36	-1,560.06	454.39	2,454.63	2,347.16	107.47	22.840		
12,000.00	7,870.00	10,783.35	7,658.06	65.01	58.28	85.33	-1,606.62	454.94	2,453.34	2,344.53	108.81	22.547		
12,011.35	7,870.00	10,788.86	7,657.86	65.10	58.36	85.32	-1,612.12	454.94	2,453.33	2,344.36	108.97	22.514		
12,100.00	7,870.00	10,854.41	7,655.50	65.77	59.31	85.27	-1,677.63	454.28	2,454.07	2,343.32	110.75	22.159		
12,200.00	7,870.00	10,991.29	7,650.31	66.61	61.33	85.14	-1,814.41	454.23	2,454.02	2,339.61	114.41	21.449		
12,246.12	7,870.00	11,023.80	7,648.97	67.01	61.81	85.11	-1,846.89	454.36	2,453.86	2,338.53	115.33	21.277		
12,300.00	7,870.00	11,056.13	7,647.48	67.51	62.29	85.08	-1,879.18	454.24	2,454.09	2,337.86	116.24	21.113		
12,400.00	7,870.00	11,147.68	7,642.60	68.49	63.65	84.97	-1,970.60	453.02	2,455.51	2,336.74	118.77	20.675		
12,500.00	7,870.00	11,283.98	7,634.51	69.52	65.71	84.78	-2,106.65	452.60	2,456.02	2,333.47	122.55	20.041		
12,503.97	7,870.00	11,279.17	7,634.82	69.56	65.64	84.79	-2,101.85	452.56	2,456.04	2,333.62	122.42	20.062		
12,600.00	7,870.00	11,344.83	7,630.70	70.61	66.63	84.69	-2,167.39	452.23	2,456.75	2,332.46	124.29	19.766		
12,700.00	7,870.00	11,454.33	7,623.74	71.75	68.30	84.53	-2,276.65	451.07	2,458.08	2,330.68	127.40	19.294		
12,800.00	7,870.00	11,522.58	7,619.08	72.93	69.35	84.42	-2,344.74	450.12	2,459.77	2,330.42	129.36	19.015		
12,900.00	7,870.00	11,605.32	7,613.91	74.14	70.62	84.31	-2,427.29	448.12	2,462.45	2,330.71	131.74	18.692		
13,000.00	7,870.00	11,736.38	7,608.15	75.39	72.64	84.18	-2,558.19	444.98	2,464.98	2,329.39	135.60	18.179		
13,100.00	7,870.00	11,862.82	7,602.13	76.67	74.62	84.04	-2,684.47	443.72	2,466.12	2,326.76	139.35	17.697		
13,200.00	7,870.00	13,200.00	7,596.65	77.98	95.96	83.92	-2,802.95	443.82	2,466.14	2,303.60	162.54	15.173		
13,219.12	7,870.00	11,998.35	7,595.89	78.23	76.76	83.90	-2,819.86	443.90	2,466.09	2,322.67	143.42	17.195		
13,300.00	7,870.00	12,040.44	7,593.80	79.31	77.43	83.85	-2,861.90	443.65	2,466.72	2,322.05	144.68	17.050		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,870.00	12,131.34	7,588.48	80.67	78.87	83.73	-2,952.62	441.85	2,468.95	2,321.54	147.40	16.749		
13,500.00	7,870.00	12,244.93	7,581.33	82.04	80.68	83.57	-3,065.97	440.48	2,470.49	2,319.65	150.85	16.378		
13,600.00	7,870.00	12,355.80	7,575.85	83.43	82.45	83.45	-3,176.71	439.31	2,471.78	2,317.53	154.25	16.025		
13,700.00	7,870.00	12,491.82	7,573.94	84.84	84.64	83.40	-3,312.71	438.86	2,471.89	2,313.38	158.52	15.594		
13,800.00	7,870.00	12,607.58	7,572.57	86.27	86.53	83.37	-3,428.45	439.60	2,471.06	2,308.89	162.17	15.237		
13,900.00	7,870.00	12,708.30	7,571.26	87.71	88.17	83.33	-3,529.16	440.78	2,469.71	2,304.34	165.36	14.935		
13,967.14	7,870.00	12,747.02	7,570.71	88.68	88.80	83.32	-3,567.87	440.94	2,469.32	2,302.73	166.58	14.823		
14,000.00	7,870.00	12,765.96	7,570.41	89.16	89.11	83.31	-3,586.82	440.86	2,469.41	2,302.24	167.17	14.771		
14,100.00	7,870.00	12,844.28	7,569.44	90.63	90.39	83.29	-3,665.12	439.79	2,470.54	2,300.90	169.64	14.563		
14,200.00	7,870.00	12,949.63	7,569.49	92.10	92.10	83.30	-3,770.45	437.90	2,471.99	2,298.96	173.03	14.287		
14,300.00	7,870.00	13,066.20	7,569.31	93.59	94.01	83.30	-3,887.01	436.41	2,472.95	2,296.15	176.81	13.987		
14,400.00	7,870.00	13,199.06	7,569.33	95.09	96.20	83.30	-4,019.87	436.31	2,472.63	2,291.50	181.14	13.651		
14,500.00	7,870.00	13,280.93	7,570.51	96.60	97.55	83.32	-4,101.72	436.40	2,472.06	2,288.25	183.80	13.449		
14,503.42	7,870.00	13,283.34	7,570.57	96.65	97.59	83.32	-4,104.13	436.39	2,472.06	2,288.17	183.88	13.444		
14,600.00	7,870.00	13,378.72	7,574.01	98.11	99.17	83.40	-4,199.44	435.37	2,472.35	2,285.31	187.04	13.218		
14,700.00	7,870.00	14,700.00	7,578.94	99.64	121.23	83.52	-4,319.06	435.11	2,471.72	2,260.49	211.23	11.702		
14,741.08	7,870.00	13,521.19	7,579.84	100.27	101.54	83.54	-4,341.80	435.07	2,471.51	2,279.72	191.78	12.887		
14,800.00	7,870.00	13,547.18	7,580.69	101.17	101.97	83.56	-4,367.77	434.71	2,471.90	2,279.30	192.59	12.835		
14,900.00	7,870.00	13,599.80	7,581.82	102.71	102.84	83.59	-4,420.35	433.05	2,474.34	2,280.13	194.21	12.741		
15,000.00	7,870.00	13,709.66	7,583.55	104.26	104.65	83.64	-4,530.12	429.02	2,477.47	2,279.61	197.87	12.521		
15,100.00	7,870.00	13,824.81	7,584.64	105.82	106.55	83.67	-4,645.21	425.66	2,479.93	2,278.21	201.71	12.294		
15,200.00	7,870.00	13,967.61	7,583.09	107.38	108.93	83.64	-4,787.98	423.17	2,481.51	2,275.00	206.50	12.017		
15,268.38	7,870.00	14,047.27	7,581.10	108.45	110.27	83.59	-4,867.62	423.15	2,481.45	2,272.32	209.13	11.865		
15,300.00	7,870.00	14,064.59	7,580.65	108.95	110.56	83.58	-4,884.93	423.08	2,481.56	2,271.88	209.68	11.835		
15,400.00	7,870.00	14,120.00	7,579.40	110.52	111.48	83.56	-4,940.32	422.16	2,483.11	2,271.72	211.38	11.747		
15,500.00	7,870.00	14,243.09	7,577.08	112.10	113.54	83.51	-5,063.37	419.97	2,484.69	2,269.18	215.50	11.530		
15,600.00	7,870.00	14,333.98	7,577.36	113.69	115.07	83.52	-5,154.23	417.89	2,486.56	2,268.06	218.51	11.380		
15,700.00	7,870.00	14,423.80	7,577.84	115.28	116.57	83.53	-5,244.03	415.96	2,488.34	2,266.87	221.47	11.235		
15,800.00	7,870.00	14,502.78	7,578.91	116.87	117.89	83.56	-5,322.95	413.18	2,491.28	2,267.23	224.05	11.119		
15,900.00	7,870.00	14,640.14	7,580.63	118.47	120.19	83.61	-5,460.24	409.30	2,493.60	2,264.81	228.79	10.899		
16,000.00	7,870.00	14,778.67	7,579.40	120.07	122.54	83.59	-5,598.76	407.89	2,494.35	2,260.85	233.50	10.682		
16,100.00	7,870.00	14,937.17	7,578.69	121.68	125.23	83.57	-5,757.24	408.94	2,493.49	2,254.63	238.86	10.439		
16,200.00	7,870.00	15,076.47	7,579.50	123.30	127.63	83.57	-5,896.48	413.07	2,490.03	2,246.49	243.54	10.224		
16,300.00	7,870.00	15,173.57	7,580.02	124.91	129.30	83.58	-5,993.52	416.37	2,486.26	2,239.42	246.84	10.073		
16,400.00	7,870.00	15,290.33	7,580.33	126.53	131.31	83.57	-6,110.20	420.59	2,482.32	2,231.55	250.77	9.899		
16,500.00	7,870.00	15,378.18	7,580.51	128.16	132.83	83.57	-6,197.99	424.02	2,478.09	2,224.32	253.77	9.765		
16,600.00	7,870.00	15,484.66	7,580.51	129.79	134.67	83.55	-6,304.39	427.96	2,474.09	2,216.72	257.37	9.613		
16,700.00	7,870.00	15,576.78	7,580.33	131.42	136.26	83.54	-6,396.45	431.34	2,470.12	2,209.61	260.51	9.482		
16,800.00	7,870.00	15,671.09	7,580.37	133.05	137.89	83.53	-6,490.69	434.73	2,466.22	2,202.49	263.72	9.352		
16,900.00	7,870.00	15,736.00	7,581.84	134.69	139.01	83.56	-6,555.56	436.57	2,462.98	2,197.01	265.97	9.260		
17,000.00	7,870.00	15,797.14	7,584.43	136.33	140.06	83.62	-6,616.64	437.24	2,461.25	2,193.21	268.05	9.182		
17,043.72	7,870.00	15,825.00	7,586.00	137.05	140.54	83.66	-6,644.46	436.99	2,461.18	2,192.20	268.99	9.150		
17,100.00	7,870.00	15,853.02	7,587.73	137.97	141.02	83.70	-6,672.42	436.47	2,461.58	2,191.70	269.88	9.121		
17,200.00	7,870.00	15,916.02	7,591.38	139.62	142.09	83.78	-6,735.28	434.66	2,463.47	2,191.56	271.91	9.060		
17,300.00	7,870.00	15,991.57	7,594.34	141.27	143.37	83.86	-6,810.71	431.51	2,466.81	2,192.42	274.38	8.990		
17,400.00	7,870.00	16,084.90	7,597.39	142.92	144.95	83.94	-6,903.90	427.44	2,470.48	2,192.92	277.56	8.901		
17,500.00	7,870.00	16,172.69	7,599.81	144.58	146.43	84.01	-6,991.56	423.12	2,474.73	2,194.23	280.50	8.823		
17,600.00	7,870.00	16,281.44	7,602.59	146.23	148.27	84.08	-7,100.14	417.74	2,479.06	2,194.76	284.30	8.720		
17,700.00	7,870.00	16,386.50	7,605.06	147.89	150.05	84.15	-7,205.06	413.04	2,482.93	2,194.98	287.95	8.623		
17,800.00	7,870.00	16,481.29	7,606.88	149.56	151.66	84.20	-7,299.74	408.79	2,486.87	2,195.69	291.17	8.541		
17,900.00	7,870.00	16,582.54	7,608.02	151.22	153.38	84.24	-7,400.88	404.21	2,490.92	2,196.26	294.65	8.454		
18,000.00	7,870.00	16,673.33	7,608.37	152.89	154.92	84.25	-7,491.57	400.05	2,495.11	2,197.41	297.69	8.381		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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: 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	
18,100.00	7,870.00	16,773.61	7,608.07	154.55	156.62	84.26	-7,591.73	395.30	2,499.51	2,198.39	301.11	8.301	
18,200.00	7,870.00	17,001.05	7,621.39	156.22	160.52	84.57	-7,818.59	389.23	2,501.18	2,191.54	309.64	8.078	
18,300.00	7,870.00	17,129.91	7,630.71	157.90	162.75	84.78	-7,947.11	389.43	2,500.06	2,185.83	314.23	7.956	
18,400.00	7,870.00	17,262.84	7,638.06	159.57	165.06	84.94	-8,079.81	392.04	2,497.17	2,178.27	318.90	7.831	
18,500.00	7,870.00	17,392.48	7,643.82	161.25	167.32	85.07	-8,209.26	395.93	2,493.47	2,170.07	323.40	7.710	
18,600.00	7,870.00	17,492.04	7,647.56	162.93	169.07	85.15	-8,308.69	399.53	2,489.22	2,162.32	326.89	7.615	
18,700.00	7,870.00	17,583.00	7,650.55	164.60	170.66	85.21	-8,399.53	403.12	2,484.70	2,154.60	330.10	7.527	
18,797.52	7,870.00	17,583.00	7,650.55	166.24	170.66	85.21	-8,399.53	403.12	2,482.74	2,152.65	330.08	7.522 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-51.57	786.52	-991.18	1,265.38					
100.00	100.00	88.68	88.68	0.13	0.15	-51.56	786.56	-991.11	1,265.30	1,265.02	0.28	4,488.973		
200.00	200.00	189.46	189.46	0.49	0.32	-51.55	786.71	-990.89	1,265.22	1,264.41	0.81	1,566.099		
300.00	300.00	290.24	290.24	0.85	0.48	-51.53	786.96	-990.50	1,265.07	1,263.74	1.33	948.411		
400.00	400.00	390.22	390.22	1.21	0.78	-51.52	787.12	-990.14	1,264.88	1,262.90	1.99	636.100		
500.00	500.00	489.91	489.90	1.57	1.12	-51.54	786.67	-990.29	1,264.72	1,262.03	2.69	469.808		
600.00	600.00	591.72	591.70	1.93	1.48	-51.60	785.54	-991.00	1,264.58	1,261.18	3.40	371.605		
700.00	700.00	730.40	730.31	2.29	1.97	-51.51	785.28	-987.43	1,262.33	1,258.08	4.25	297.094		
800.00	800.00	867.17	866.55	2.64	2.47	-51.05	789.18	-976.22	1,257.77	1,252.67	5.10	246.823		
900.00	900.00	969.25	967.55	3.00	2.86	-50.44	795.48	-962.92	1,251.53	1,245.69	5.84	214.317		
1,000.00	1,000.00	1,066.67	1,063.04	3.36	3.26	-49.60	805.68	-946.62	1,245.32	1,238.73	6.59	188.837		
1,100.00	1,099.98	1,162.57	1,155.83	3.72	3.70	-103.31	819.98	-927.14	1,239.97	1,232.59	7.38	167.975		
1,200.00	1,199.84	1,247.40	1,237.32	4.07	4.11	-102.50	834.56	-908.61	1,236.19	1,228.04	8.15	151.680		
1,300.00	1,299.45	1,381.50	1,366.34	4.43	4.81	-101.41	856.93	-879.74	1,233.57	1,224.37	9.19	134.206		
1,400.00	1,398.70	1,487.76	1,467.45	4.80	5.41	-100.58	875.13	-852.65	1,229.10	1,218.95	10.15	121.067		
1,500.00	1,497.47	1,568.99	1,544.32	5.18	5.89	-100.00	890.31	-831.23	1,226.00	1,214.98	11.02	111.283		
1,556.71	1,553.21	1,608.06	1,581.26	5.40	6.13	-99.74	898.19	-821.24	1,225.49	1,214.01	11.48	106.742		
1,600.00	1,595.62	1,639.39	1,610.87	5.57	6.32	-99.54	904.83	-813.46	1,225.78	1,213.94	11.84	103.494		
1,700.00	1,693.06	1,748.72	1,714.68	6.00	6.98	-99.04	927.15	-787.42	1,227.16	1,214.23	12.92	94.956		
1,800.00	1,789.64	1,909.48	1,868.18	6.45	7.93	-98.77	954.49	-748.34	1,226.51	1,212.20	14.31	85.710		
1,900.00	1,885.27	2,029.33	1,983.06	6.94	8.64	-98.95	969.60	-717.70	1,222.13	1,206.66	15.47	78.996		
2,000.00	1,979.82	2,113.86	2,064.34	7.47	9.13	-99.27	979.74	-696.81	1,218.57	1,202.09	16.48	73.952		
2,100.00	2,073.17	2,225.23	2,171.48	8.05	9.77	-99.83	994.01	-669.99	1,216.73	1,199.07	17.66	68.888		
2,200.00	2,165.21	2,327.82	2,269.91	8.67	10.38	-100.50	1,005.87	-643.65	1,213.46	1,194.62	18.85	64.380		
2,281.94	2,239.59	2,387.79	2,327.64	9.23	10.72	-100.99	1,012.98	-629.04	1,212.38	1,192.65	19.73	61.449 CC		
2,300.00	2,255.84	2,400.14	2,339.56	9.35	10.79	-101.10	1,014.51	-626.18	1,212.44	1,192.52	19.92	60.870 ES		
2,400.00	2,344.94	2,470.69	2,407.79	10.09	11.19	-101.77	1,023.70	-610.77	1,214.72	1,193.71	21.01	57.815		
2,500.00	2,432.39	2,544.74	2,479.48	10.89	11.59	-102.52	1,034.41	-595.62	1,220.09	1,197.94	22.15	55.076		
2,519.29	2,449.07	2,558.96	2,493.27	11.05	11.67	-102.67	1,036.54	-592.85	1,221.48	1,199.10	22.38	54.588		
2,600.00	2,518.69	2,645.64	2,577.23	11.74	12.15	-103.75	1,049.98	-576.05	1,227.94	1,204.46	23.48	52.299		
2,700.00	2,604.95	2,786.65	2,712.21	12.62	12.99	-105.26	1,073.05	-542.51	1,233.52	1,208.43	25.09	49.172		
2,800.00	2,691.22	2,851.82	2,774.71	13.52	13.38	-105.96	1,083.46	-527.25	1,239.49	1,213.22	26.27	47.178		
2,900.00	2,777.48	2,995.33	2,912.91	14.43	14.22	-107.63	1,103.00	-493.95	1,244.73	1,216.88	27.84	44.702		
3,000.00	2,863.75	3,087.14	3,001.22	15.35	14.76	-108.70	1,114.36	-471.58	1,248.97	1,219.82	29.15	42.845		
3,100.00	2,950.01	3,163.46	3,074.34	16.28	15.21	-109.51	1,125.56	-452.76	1,254.77	1,224.39	30.38	41.297		
3,200.00	3,036.27	3,241.01	3,149.08	17.22	15.67	-110.38	1,136.98	-435.53	1,262.92	1,231.32	31.60	39.964		
3,300.00	3,122.54	3,385.02	3,287.70	18.17	16.50	-111.96	1,157.63	-402.48	1,271.09	1,237.95	33.14	38.351		
3,400.00	3,208.80	3,460.87	3,360.89	19.13	16.93	-112.85	1,166.41	-384.60	1,277.60	1,243.29	34.31	37.239		
3,500.00	3,295.07	3,537.77	3,435.57	20.09	17.36	-113.80	1,175.09	-368.43	1,286.54	1,251.10	35.44	36.302		
3,600.00	3,381.33	3,631.21	3,525.86	21.05	17.89	-114.84	1,188.20	-348.28	1,296.88	1,260.22	36.67	35.370		
3,700.00	3,467.59	3,738.73	3,629.16	22.02	18.52	-115.91	1,204.97	-323.64	1,307.24	1,269.25	37.99	34.412		
3,800.00	3,553.86	3,858.85	3,744.39	22.99	19.24	-117.09	1,222.83	-294.83	1,316.72	1,277.36	39.36	33.453		
3,900.00	3,640.12	3,911.85	3,795.68	23.97	19.52	-117.67	1,229.79	-283.38	1,327.66	1,287.34	40.32	32.929		
4,000.00	3,726.38	3,981.60	3,863.81	24.95	19.89	-118.51	1,237.69	-270.70	1,341.52	1,300.22	41.30	32.481		
4,100.00	3,812.65	4,096.44	3,975.71	25.93	20.49	-119.83	1,251.67	-249.09	1,355.80	1,313.30	42.50	31.902		
4,200.00	3,898.91	4,213.59	4,088.65	26.91	21.16	-120.94	1,269.69	-223.76	1,369.26	1,325.48	43.78	31.274		
4,300.00	3,985.18	4,348.59	4,217.23	27.90	22.01	-122.01	1,293.00	-189.90	1,380.41	1,335.19	45.22	30.525		
4,400.00	4,071.44	4,441.21	4,305.92	28.88	22.58	-122.83	1,306.52	-166.92	1,391.26	1,344.90	46.37	30.005		
4,500.00	4,157.70	4,536.26	4,396.92	29.87	23.16	-123.66	1,320.46	-143.24	1,402.39	1,354.89	47.51	29.520		
4,600.00	4,243.97	4,611.00	4,468.38	30.86	23.61	-124.26	1,332.39	-124.88	1,414.61	1,366.08	48.53	29.146		
4,700.00	4,330.23	4,675.00	4,530.01	31.85	23.99	-124.81	1,342.43	-110.85	1,429.37	1,379.92	49.46	28.902		
4,800.00	4,416.49	4,746.75	4,599.49	32.84	24.38	-125.44	1,353.43	-96.70	1,446.39	1,396.03	50.37	28.717		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,502.76	4,945.26	4,791.58	33.84	25.49	-127.29	1,378.64	-53.76	1,461.58	1,409.71	51.87	28.176		
5,000.00	4,589.02	5,049.21	4,891.43	34.83	26.11	-128.24	1,390.16	-27.25	1,472.73	1,419.83	52.89	27.843		
5,100.00	4,675.29	5,120.00	4,959.51	35.82	26.53	-128.88	1,398.34	-9.66	1,485.03	1,431.25	53.78	27.614		
5,200.00	4,761.55	5,190.07	5,027.12	36.82	26.93	-129.50	1,406.86	6.62	1,499.36	1,444.74	54.63	27.448		
5,300.00	4,847.81	5,256.82	5,091.72	37.82	27.30	-130.06	1,415.64	21.01	1,515.83	1,460.40	55.43	27.346		
5,400.00	4,934.08	5,342.25	5,174.62	38.81	27.77	-130.77	1,427.36	37.98	1,534.29	1,477.97	56.32	27.244		
5,500.00	5,020.34	5,453.33	5,282.12	39.81	28.39	-131.64	1,443.28	60.94	1,552.42	1,495.06	57.36	27.064		
5,600.00	5,106.60	5,584.89	5,408.91	40.81	29.15	-132.60	1,462.64	90.15	1,569.43	1,510.91	58.52	26.818		
5,700.00	5,192.87	5,681.30	5,501.62	41.81	29.71	-133.31	1,476.02	112.97	1,585.10	1,525.63	59.47	26.655		
5,800.00	5,279.13	5,745.42	5,563.48	42.81	30.09	-133.78	1,485.08	127.20	1,602.46	1,542.23	60.23	26.608		
5,900.00	5,365.40	5,857.73	5,672.32	43.81	30.71	-134.64	1,499.19	151.04	1,620.85	1,559.66	61.18	26.491		
6,000.00	5,451.66	5,964.82	5,775.71	44.81	31.32	-135.45	1,512.24	175.68	1,637.59	1,575.49	62.11	26.368		
6,100.00	5,537.92	6,036.12	5,844.52	45.81	31.73	-135.94	1,522.41	191.33	1,655.92	1,593.05	62.87	26.338		
6,200.00	5,624.19	6,113.66	5,919.36	46.81	32.17	-136.42	1,534.40	207.68	1,675.50	1,611.83	63.67	26.314		
6,300.00	5,710.45	6,173.57	5,977.47	47.81	32.49	-136.81	1,543.36	219.22	1,696.97	1,632.64	64.32	26.382		
6,400.00	5,796.72	6,314.93	6,115.39	48.81	33.22	-137.91	1,558.20	246.19	1,718.42	1,653.09	65.33	26.304		
6,500.00	5,882.98	6,437.50	6,235.09	49.81	33.83	-138.99	1,565.81	271.41	1,738.45	1,672.37	66.08	26.307		
6,600.00	5,969.24	6,584.01	6,376.95	50.82	34.64	-140.17	1,577.33	306.04	1,755.68	1,688.71	66.97	26.214		
6,700.00	6,055.51	6,656.27	6,446.28	51.82	35.07	-140.59	1,587.32	323.76	1,772.93	1,705.22	67.71	26.184		
6,800.00	6,141.77	6,723.00	6,510.53	52.82	35.46	-140.95	1,597.57	338.58	1,792.46	1,724.04	68.43	26.196		
6,900.00	6,228.03	6,942.11	6,718.66	53.83	36.86	-141.88	1,637.13	394.10	1,809.25	1,739.15	70.10	25.810		
7,000.00	6,314.30	7,204.84	6,964.27	54.83	38.59	-143.84	1,654.67	482.39	1,815.27	1,744.44	70.83	25.630		
7,100.00	6,400.56	7,258.00	7,013.78	55.83	38.88	-144.53	1,648.04	500.52	1,821.94	1,750.65	71.29	25.557		
7,200.00	6,486.83	7,258.00	7,013.78	56.84	38.88	-144.53	1,648.04	500.52	1,832.48	1,760.58	71.90	25.486		
7,300.00	6,573.09	7,303.66	7,056.47	57.84	39.04	-145.23	1,638.85	513.81	1,846.42	1,774.31	72.11	25.606		
7,400.00	6,659.35	7,348.00	7,097.92	58.84	39.19	-145.99	1,626.81	523.90	1,865.32	1,793.13	72.20	25.836		
7,500.00	6,745.62	7,348.00	7,097.92	59.85	39.19	-145.99	1,626.81	523.90	1,887.53	1,815.13	72.40	26.072		
7,600.00	6,831.88	7,348.00	7,097.92	60.85	39.19	-145.99	1,626.81	523.90	1,914.70	1,842.27	72.43	26.435		
7,700.00	6,918.14	7,395.48	7,141.93	61.86	39.26	-146.87	1,610.89	531.84	1,944.64	1,872.48	72.16	26.948		
7,800.00	7,004.41	7,437.00	7,179.86	62.86	39.31	-147.69	1,594.70	536.51	1,979.30	1,907.46	71.84	27.552		
7,900.00	7,090.67	7,437.00	7,179.86	63.87	39.31	-147.69	1,594.70	536.51	2,016.84	1,945.27	71.57	28.181		
8,000.00	7,176.94	7,462.12	7,202.54	64.87	39.32	-148.20	1,584.08	538.47	2,058.16	1,987.02	71.14	28.931		
8,027.52	7,200.68	7,469.23	7,208.94	65.15	39.32	-148.34	1,581.01	538.94	2,070.09	1,999.07	71.01	29.151		
8,050.00	7,220.18	7,475.08	7,214.19	65.37	39.32	-152.96	1,578.46	539.30	2,079.99	2,009.08	70.91	29.333		
8,100.00	7,264.25	7,488.61	7,226.30	65.85	39.32	-164.23	1,572.49	540.04	2,102.48	2,031.79	70.69	29.744		
8,150.00	7,308.99	7,526.00	7,259.55	66.28	39.33	-177.04	1,555.43	541.40	2,125.74	2,055.29	70.44	30.176		
8,200.00	7,354.07	8,200.00	7,294.69	66.67	39.50	169.54	1,535.58	543.71	2,148.18	2,077.61	70.57	30.439		
8,250.00	7,399.14	7,661.66	7,376.24	67.02	39.33	155.76	1,487.03	550.75	2,169.50	2,099.64	69.86	31.053		
8,300.00	7,443.85	7,696.41	7,404.96	67.32	39.33	143.65	1,467.74	553.94	2,189.68	2,120.02	69.66	31.435		
8,350.00	7,487.88	7,726.36	7,429.20	67.56	39.32	132.94	1,450.37	556.70	2,209.06	2,139.58	69.47	31.797		
8,400.00	7,530.87	7,755.08	7,451.74	67.75	39.31	123.73	1,432.78	559.31	2,227.55	2,158.26	69.30	32.144		
8,450.00	7,572.51	7,793.00	7,480.38	67.90	39.30	115.92	1,408.16	562.72	2,245.05	2,175.95	69.10	32.492		
8,500.00	7,612.48	7,832.19	7,508.33	68.00	39.27	109.39	1,380.95	566.48	2,261.18	2,192.30	68.88	32.828		
8,550.00	7,650.47	7,910.24	7,557.79	68.05	39.22	103.75	1,321.37	575.70	2,275.47	2,207.04	68.43	33.253		
8,600.00	7,686.20	8,016.61	7,609.49	68.06	39.14	98.73	1,230.37	593.56	2,286.51	2,218.79	67.72	33.764		
8,650.00	7,719.39	8,075.90	7,630.11	68.03	39.12	94.83	1,176.07	605.34	2,295.29	2,227.99	67.29	34.110		
8,700.00	7,749.79	8,060.00	7,625.16	67.97	39.12	92.24	1,190.83	602.08	2,302.81	2,235.39	67.42	34.156		
8,750.00	7,777.17	8,101.73	7,637.84	67.87	39.09	89.75	1,151.89	610.05	2,308.25	2,241.07	67.17	34.362		
8,800.00	7,801.32	8,120.48	7,642.97	67.74	39.08	87.93	1,134.15	613.32	2,312.47	2,245.36	67.11	34.456		
8,850.00	7,822.06	8,149.00	7,650.10	67.59	39.07	86.50	1,106.92	617.90	2,315.19	2,248.18	67.01	34.550		
8,900.00	7,839.23	8,149.00	7,650.10	67.41	39.07	85.57	1,106.92	617.90	2,316.27	2,249.11	67.17	34.485		
8,950.00	7,852.69	8,149.00	7,650.10	67.22	39.07	84.96	1,106.92	617.90	2,316.17	2,248.78	67.38	34.373		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	8,190.33	7,659.16	67.00	39.02	84.69	1,067.00	623.55	2,313.76	2,246.45	67.32	34.372		
9,050.00	7,868.14	8,206.86	7,662.40	66.78	39.00	84.78	1,050.90	625.44	2,310.23	2,242.74	67.49	34.233		
9,098.65	7,870.00	8,238.00	7,667.91	66.55	38.98	85.24	1,020.39	628.42	2,305.49	2,237.93	67.56	34.125		
9,100.00	7,870.00	8,238.00	7,667.91	66.55	38.98	85.24	1,020.39	628.42	2,305.33	2,237.75	67.57	34.117		
9,200.00	7,870.00	8,273.98	7,673.70	66.09	38.94	85.37	985.00	631.30	2,294.98	2,226.92	68.05	33.723		
9,300.00	7,870.00	8,340.35	7,683.75	65.65	38.88	85.62	919.56	635.92	2,286.42	2,218.11	68.31	33.469		
9,400.00	7,870.00	8,417.00	7,693.68	65.24	38.84	85.86	843.69	640.34	2,279.26	2,210.70	68.56	33.245		
9,500.00	7,870.00	8,445.10	7,696.62	64.85	38.81	85.93	815.76	641.44	2,274.10	2,204.92	69.18	32.873		
9,600.00	7,870.00	8,476.26	7,699.14	64.48	38.80	85.99	784.71	641.82	2,271.97	2,202.18	69.79	32.554		
9,604.84	7,870.00	8,477.77	7,699.25	64.46	38.79	85.99	783.20	641.82	2,271.94	2,202.12	69.82	32.539		
9,700.00	7,870.00	8,506.00	7,700.82	64.13	38.79	86.03	755.02	641.36	2,272.87	2,202.45	70.42	32.274		
9,800.00	7,870.00	8,553.45	7,702.63	63.80	38.75	86.08	707.65	639.40	2,276.46	2,205.51	70.95	32.087		
9,900.00	7,870.00	8,606.16	7,703.95	63.50	38.73	86.12	655.07	635.90	2,282.43	2,210.97	71.46	31.940		
10,000.00	7,870.00	8,742.76	7,707.20	63.22	38.74	86.22	518.81	626.98	2,288.45	2,216.85	71.60	31.960		
10,100.00	7,870.00	10,100.00	7,712.04	62.96	49.85	86.35	355.58	619.18	2,292.91	2,213.53	79.38	28.884		
10,200.00	7,870.00	9,079.49	7,716.24	62.72	39.59	86.45	182.44	617.97	2,292.63	2,219.39	73.24	31.304		
10,278.77	7,870.00	9,142.01	7,716.63	62.55	39.91	86.46	119.93	617.97	2,292.34	2,218.33	74.01	30.974		
10,300.00	7,870.00	9,158.10	7,716.75	62.50	39.99	86.47	103.84	617.89	2,292.36	2,218.15	74.22	30.888		
10,400.00	7,870.00	9,256.17	7,717.84	62.31	40.57	86.50	5.78	616.84	2,293.01	2,217.59	75.42	30.402		
10,500.00	7,870.00	9,449.08	7,719.16	62.15	42.05	86.52	-187.06	620.16	2,290.56	2,212.82	77.75	29.461		
10,600.00	7,870.00	9,570.55	7,718.38	62.01	43.18	86.50	-308.45	624.76	2,286.52	2,206.87	79.65	28.708		
10,700.00	7,870.00	9,682.96	7,716.59	61.90	44.33	86.44	-420.71	630.15	2,281.48	2,199.89	81.60	27.960		
10,800.00	7,870.00	9,770.25	7,714.93	61.82	45.28	86.39	-507.89	634.45	2,276.37	2,193.10	83.27	27.336		
10,900.00	7,870.00	9,842.00	7,714.44	61.78	46.08	86.38	-579.59	636.91	2,272.56	2,187.79	84.77	26.810		
11,000.00	7,870.00	9,938.52	7,714.65	61.77	47.18	86.38	-676.07	639.50	2,269.52	2,182.77	86.75	26.161		
11,100.00	7,870.00	9,975.01	7,714.66	61.81	47.60	86.38	-712.56	639.95	2,267.74	2,180.07	87.68	25.865		
11,119.04	7,870.00	9,982.88	7,714.66	61.82	47.69	86.38	-720.42	639.94	2,267.70	2,179.83	87.87	25.807		
11,200.00	7,870.00	10,020.00	7,714.61	61.90	48.12	86.38	-757.54	639.39	2,268.55	2,179.81	88.75	25.562		
11,300.00	7,870.00	10,109.56	7,714.36	62.03	49.16	86.37	-847.07	636.98	2,270.89	2,180.20	90.69	25.040		
11,400.00	7,870.00	10,203.03	7,713.73	62.23	50.28	86.36	-940.50	634.32	2,273.45	2,180.67	92.77	24.505		
11,500.00	7,870.00	10,324.52	7,712.10	62.50	51.78	86.32	-1,061.94	631.21	2,275.77	2,180.23	95.53	23.821		
11,600.00	7,870.00	10,476.84	7,709.72	62.84	53.75	86.27	-1,214.23	629.87	2,276.44	2,177.31	99.13	22.964		
11,603.78	7,870.00	10,482.82	7,709.67	62.85	53.83	86.26	-1,220.21	629.89	2,276.41	2,177.14	99.27	22.931		
11,700.00	7,870.00	10,536.27	7,709.19	63.25	54.54	86.25	-1,273.66	629.35	2,276.92	2,176.29	100.64	22.625		
11,800.00	7,870.00	10,657.75	7,707.87	63.76	56.17	86.22	-1,395.12	627.78	2,278.01	2,174.32	103.69	21.969		
11,900.00	7,870.00	10,763.21	7,705.00	64.34	57.63	86.15	-1,500.53	627.55	2,278.06	2,171.65	106.41	21.409		
12,000.00	7,870.00	10,843.87	7,702.47	65.01	58.76	86.09	-1,581.16	627.17	2,278.43	2,169.91	108.52	20.996		
12,100.00	7,870.00	10,911.00	7,702.17	65.77	59.70	86.08	-1,648.27	625.90	2,280.02	2,169.72	110.30	20.671		
12,200.00	7,870.00	10,993.46	7,703.76	66.61	60.86	86.12	-1,730.67	623.29	2,282.71	2,170.17	112.54	20.284		
12,300.00	7,870.00	11,109.68	7,707.52	67.51	62.51	86.22	-1,846.76	619.46	2,285.45	2,169.65	115.80	19.736		
12,400.00	7,870.00	11,291.96	7,713.87	68.49	65.17	86.39	-2,028.89	616.67	2,286.73	2,165.64	121.09	18.884		
12,500.00	7,870.00	11,388.26	7,715.79	69.52	66.61	86.43	-2,125.17	617.34	2,285.57	2,161.68	123.89	18.448		
12,600.00	7,870.00	11,485.31	7,717.22	70.61	68.08	86.47	-2,222.20	617.81	2,284.67	2,157.93	126.74	18.027		
12,700.00	7,870.00	11,589.36	7,718.42	71.75	69.66	86.50	-2,326.25	618.44	2,283.64	2,153.82	129.82	17.591		
12,800.00	7,870.00	11,679.36	7,718.99	72.93	71.04	86.51	-2,416.25	618.98	2,282.68	2,150.19	132.49	17.229		
12,881.06	7,870.00	11,745.50	7,718.99	73.91	72.06	86.51	-2,482.38	618.99	2,282.40	2,147.95	134.45	16.976		
12,900.00	7,870.00	11,760.58	7,718.96	74.14	72.29	86.51	-2,497.46	618.93	2,282.42	2,147.53	134.89	16.921		
13,000.00	7,870.00	11,874.28	7,718.35	75.39	74.04	86.49	-2,611.16	618.34	2,282.67	2,144.34	138.33	16.501		
13,100.00	7,870.00	11,969.59	7,717.25	76.67	75.53	86.46	-2,706.47	618.54	2,282.21	2,141.00	141.21	16.162		
13,172.35	7,870.00	12,036.81	7,716.14	77.62	76.58	86.44	-2,773.67	618.45	2,282.14	2,138.90	143.24	15.932		
13,200.00	7,870.00	12,062.74	7,715.69	77.98	76.98	86.42	-2,799.60	618.38	2,282.15	2,138.12	144.03	15.845		
13,300.00	7,870.00	12,188.78	7,713.38	79.31	78.97	86.37	-2,925.61	618.84	2,281.54	2,133.60	147.94	15.422		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,400.00	7,870.00	12,286.12	7,711.48	80.67	80.52	86.32	-3,022.94	619.67	2,280.47	2,129.54	150.94	15.109		
13,500.00	7,870.00	12,365.48	7,709.41	82.04	81.78	86.26	-3,102.27	620.07	2,279.84	2,126.49	153.34	14.867		
13,502.65	7,870.00	12,367.19	7,709.37	82.08	81.81	86.26	-3,103.98	620.07	2,279.84	2,126.44	153.39	14.863		
13,600.00	7,870.00	12,431.29	7,707.99	83.43	82.83	86.23	-3,168.06	619.45	2,280.57	2,125.28	155.29	14.686		
13,700.00	7,870.00	12,513.66	7,706.92	84.84	84.14	86.20	-3,250.40	617.72	2,282.42	2,124.62	157.79	14.465		
13,800.00	7,870.00	12,650.66	7,708.10	86.27	86.32	86.24	-3,387.36	615.05	2,284.02	2,121.75	162.26	14.076		
13,900.00	7,870.00	12,752.84	7,709.09	87.71	87.96	86.26	-3,489.53	614.41	2,284.23	2,118.70	165.53	13.799		
14,000.00	7,870.00	12,962.94	7,710.45	89.16	91.39	86.29	-3,699.58	617.41	2,282.53	2,110.02	172.51	13.231		
14,100.00	7,870.00	13,023.84	7,710.61	90.63	92.39	86.29	-3,760.45	619.26	2,279.12	2,104.69	174.43	13.066		
14,200.00	7,870.00	13,091.93	7,710.54	92.10	93.51	86.29	-3,828.53	620.28	2,277.27	2,100.71	176.56	12.898		
14,300.00	7,870.00	13,188.53	7,710.54	93.59	95.10	86.29	-3,925.13	620.68	2,276.51	2,096.83	179.69	12.669		
14,400.00	7,870.00	13,272.04	7,710.61	95.09	96.47	86.29	-4,008.64	621.33	2,275.46	2,093.12	182.35	12.479		
14,418.90	7,870.00	13,283.49	7,710.77	95.37	96.66	86.29	-4,020.09	621.30	2,275.43	2,092.74	182.70	12.455		
14,500.00	7,870.00	13,343.10	7,712.27	96.60	97.64	86.33	-4,079.67	620.58	2,275.95	2,091.38	184.57	12.331		
14,600.00	7,870.00	13,448.18	7,715.62	98.11	99.36	86.41	-4,184.69	619.08	2,276.84	2,088.78	188.06	12.107		
14,700.00	7,870.00	13,556.45	7,718.86	99.64	101.14	86.50	-4,292.90	617.95	2,277.37	2,085.69	191.68	11.881		
14,800.00	7,870.00	13,702.70	7,722.54	101.17	103.57	86.59	-4,439.11	618.00	2,276.89	2,080.20	196.69	11.576		
14,900.00	7,870.00	13,824.44	7,725.52	102.71	105.60	86.66	-4,560.78	620.21	2,274.56	2,073.75	200.81	11.327		
15,000.00	7,870.00	13,936.36	7,727.38	104.26	107.49	86.70	-4,672.65	622.92	2,271.72	2,067.15	204.57	11.105		
15,100.00	7,870.00	13,988.65	7,727.98	105.82	108.36	86.72	-4,724.94	623.85	2,269.58	2,063.40	206.19	11.007		
15,200.00	7,870.00	14,139.30	7,729.46	107.38	110.89	86.75	-4,875.56	625.35	2,268.58	2,057.23	211.35	10.734		
15,300.00	7,870.00	14,208.00	7,730.10	108.95	112.05	86.76	-4,944.24	626.88	2,265.98	2,052.40	213.58	10.610		
15,400.00	7,870.00	14,281.82	7,730.59	110.52	113.29	86.77	-5,018.05	627.60	2,264.64	2,048.69	215.95	10.487		
15,451.90	7,870.00	14,313.35	7,730.75	111.34	113.82	86.78	-5,049.58	627.60	2,264.46	2,047.54	216.92	10.439		
15,500.00	7,870.00	14,338.71	7,730.82	112.10	114.24	86.78	-5,074.94	627.35	2,264.78	2,047.13	217.65	10.406		
15,600.00	7,870.00	14,395.63	7,730.81	113.69	115.19	86.78	-5,131.83	625.86	2,266.98	2,047.71	219.27	10.339		
15,700.00	7,870.00	14,498.67	7,730.68	115.28	116.90	86.78	-5,234.82	622.26	2,270.15	2,047.43	222.72	10.193		
15,800.00	7,870.00	14,656.88	7,730.56	116.87	119.54	86.78	-5,392.99	619.08	2,271.84	2,043.48	228.36	9.948		
15,900.00	7,870.00	14,768.82	7,730.30	118.47	121.43	86.78	-5,504.93	618.56	2,271.99	2,039.81	232.17	9.786		
16,000.00	7,870.00	14,894.22	7,729.93	120.07	123.55	86.77	-5,630.32	618.94	2,271.39	2,034.89	236.49	9.604		
16,100.00	7,870.00	16,100.00	7,729.21	121.68	144.13	86.75	-5,752.49	621.10	2,269.24	2,009.94	259.30	8.751		
16,200.00	7,870.00	15,091.39	7,728.87	123.30	126.90	86.73	-5,827.46	622.38	2,267.31	2,024.18	243.13	9.326		
16,300.00	7,870.00	15,163.00	7,728.33	124.91	128.12	86.72	-5,899.07	622.44	2,266.89	2,021.48	245.41	9.237		
16,336.18	7,870.00	15,221.46	7,728.37	125.50	129.12	86.72	-5,957.53	622.38	2,266.83	2,019.34	247.50	9.159		
16,400.00	7,870.00	16,400.00	7,730.41	126.53	149.33	86.77	-6,061.54	624.24	2,265.22	1,995.49	269.73	8.398		
16,500.00	7,870.00	15,430.00	7,732.61	128.16	132.69	86.82	-6,165.96	627.13	2,261.99	2,007.21	254.78	8.878		
16,600.00	7,870.00	15,529.09	7,734.56	129.79	134.39	86.87	-6,265.00	629.47	2,259.18	2,001.01	258.17	8.751		
16,700.00	7,870.00	15,630.17	7,736.61	131.42	136.13	86.91	-6,366.03	632.05	2,256.18	1,994.54	261.65	8.623		
16,800.00	7,870.00	15,706.34	7,738.20	133.05	137.44	86.95	-6,442.17	633.50	2,253.84	1,989.65	264.19	8.531		
16,900.00	7,870.00	15,779.76	7,739.71	134.69	138.69	86.99	-6,515.57	634.07	2,252.62	1,986.02	266.60	8.450		
16,941.55	7,870.00	15,807.15	7,740.27	135.37	139.16	87.00	-6,542.95	634.04	2,252.48	1,985.02	267.46	8.422		
17,000.00	7,870.00	15,844.55	7,741.01	136.33	139.80	87.02	-6,580.34	633.70	2,252.75	1,984.14	268.62	8.387		
17,100.00	7,870.00	15,906.52	7,742.19	137.97	140.85	87.05	-6,642.29	632.35	2,254.51	1,984.06	270.45	8.336		
17,200.00	7,870.00	15,971.18	7,743.42	139.62	141.94	87.09	-6,706.89	629.77	2,258.01	1,985.67	272.34	8.291		
17,300.00	7,870.00	16,121.83	7,745.07	141.27	144.49	87.14	-6,857.44	624.70	2,260.93	1,983.00	277.93	8.135		
17,400.00	7,870.00	16,266.09	7,745.77	142.92	146.95	87.16	-7,001.68	623.11	2,261.57	1,978.41	283.16	7.987		
17,405.72	7,870.00	16,271.50	7,745.79	143.02	147.04	87.16	-7,007.09	623.09	2,261.57	1,978.23	283.34	7.982		
17,500.00	7,870.00	16,356.52	7,746.03	144.58	148.50	87.16	-7,092.11	622.66	2,261.72	1,975.52	286.20	7.903		
17,600.00	7,870.00	16,451.02	7,746.33	146.23	150.11	87.17	-7,186.60	621.69	2,262.39	1,972.99	289.40	7.818		
17,700.00	7,870.00	16,553.76	7,746.56	147.89	151.87	87.18	-7,289.34	620.80	2,262.90	1,969.96	292.94	7.725		
17,800.00	7,870.00	16,661.92	7,746.71	149.56	153.72	87.18	-7,397.50	619.96	2,263.34	1,966.65	296.69	7.629		
17,900.00	7,870.00	16,766.54	7,747.04	151.22	155.52	87.19	-7,502.11	619.54	2,263.38	1,963.07	300.31	7.537		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
17,909.81	7,870.00	16,776.65	7,747.07	151.38	155.69	87.19	-7,512.23	619.51	2,263.38	1,962.72	300.66	7.528	
18,000.00	7,870.00	16,853.18	7,747.30	152.89	157.01	87.20	-7,588.75	619.01	2,263.64	1,960.43	303.21	7.466	
18,100.00	7,870.00	16,951.24	7,747.48	154.55	158.69	87.20	-7,686.81	618.08	2,264.25	1,957.69	306.56	7.386	
18,200.00	7,870.00	17,050.60	7,747.25	156.22	160.39	87.20	-7,786.16	617.09	2,264.91	1,954.95	309.96	7.307	
18,300.00	7,870.00	17,150.65	7,746.54	157.90	162.11	87.18	-7,886.21	616.14	2,265.56	1,952.17	313.39	7.229	
18,400.00	7,870.00	17,256.67	7,745.04	159.57	163.93	87.14	-7,992.21	615.16	2,266.22	1,949.17	317.06	7.148	
18,500.00	7,870.00	17,343.65	7,743.63	161.25	165.43	87.11	-8,079.18	614.61	2,266.64	1,946.70	319.94	7.085	
18,600.00	7,870.00	17,434.07	7,743.27	162.93	166.98	87.10	-8,169.58	612.89	2,268.18	1,945.21	322.97	7.023	
18,700.00	7,870.00	17,535.34	7,743.41	164.60	168.72	87.11	-8,270.83	611.44	2,269.27	1,942.80	326.47	6.951	
18,797.52	7,870.00	17,625.99	7,743.65	166.24	170.28	87.11	-8,361.47	609.67	2,270.81	1,941.27	329.54	6.891 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-51.28	786.51	-981.10	1,257.50					
100.00	100.00	81.54	81.54	0.13	0.14	-51.28	786.71	-981.21	1,257.67	1,257.40	0.27	4,642.534		
200.00	200.00	174.20	174.19	0.49	0.29	-51.27	787.40	-981.61	1,258.47	1,257.69	0.78	1,606.025		
300.00	300.00	266.84	266.83	0.85	0.45	-51.24	788.59	-982.31	1,259.86	1,258.56	1.30	971.968		
400.00	400.00	361.10	361.07	1.21	0.69	-51.21	790.28	-983.30	1,261.80	1,259.91	1.89	665.874		
500.00	500.00	457.38	457.31	1.57	1.03	-51.18	792.23	-984.55	1,264.09	1,261.49	2.60	486.377		
600.00	600.00	553.64	553.54	1.93	1.38	-51.14	794.35	-986.02	1,266.66	1,263.36	3.30	383.595		
700.00	700.00	674.26	674.08	2.29	1.81	-51.01	798.27	-986.22	1,268.88	1,264.79	4.09	310.226		
800.00	800.00	809.08	808.36	2.64	2.30	-50.48	807.11	-978.47	1,268.56	1,263.63	4.94	256.982		
900.00	900.00	979.24	976.30	3.00	2.96	-49.30	822.38	-956.21	1,264.29	1,258.34	5.95	212.598		
1,000.00	1,000.00	1,162.84	1,154.43	3.36	3.79	-47.47	839.85	-915.65	1,253.58	1,246.48	7.10	176.645		
1,100.00	1,099.98	1,259.11	1,246.48	3.72	4.29	-101.25	849.87	-889.34	1,240.62	1,232.69	7.94	156.343		
1,200.00	1,199.84	1,330.69	1,314.74	4.07	4.69	-100.69	858.66	-869.64	1,229.92	1,221.24	8.68	141.698		
1,300.00	1,299.45	1,419.25	1,399.54	4.43	5.18	-100.06	870.40	-846.97	1,222.14	1,212.62	9.53	128.278		
1,400.00	1,398.70	1,554.63	1,528.63	4.80	5.97	-99.16	887.83	-810.17	1,213.96	1,203.32	10.64	114.062		
1,500.00	1,497.47	1,628.17	1,598.34	5.18	6.42	-98.80	897.97	-789.06	1,205.97	1,194.49	11.48	105.041		
1,600.00	1,595.62	1,697.01	1,663.75	5.57	6.84	-98.52	908.41	-770.28	1,200.70	1,188.39	12.31	97.570		
1,700.00	1,693.06	1,783.13	1,745.87	6.00	7.37	-98.26	922.44	-748.49	1,198.14	1,184.89	13.25	90.431		
1,800.00	1,789.64	1,895.78	1,852.96	6.45	8.06	-98.03	941.42	-719.14	1,196.07	1,181.69	14.39	83.138		
1,900.00	1,885.27	2,018.34	1,969.50	6.94	8.83	-98.03	960.34	-686.24	1,192.93	1,177.32	15.61	76.401		
2,000.00	1,979.82	2,122.70	2,069.09	7.47	9.47	-98.30	973.94	-658.20	1,188.48	1,171.72	16.76	70.920		
2,100.00	2,073.17	2,220.51	2,162.71	8.05	10.06	-98.75	986.83	-632.99	1,185.45	1,167.55	17.90	66.232		
2,200.00	2,165.21	2,311.27	2,249.63	8.67	10.61	-99.32	998.32	-609.52	1,182.65	1,163.61	19.04	62.121		
2,300.00	2,255.84	2,419.90	2,354.09	9.35	11.25	-100.22	1,011.90	-583.00	1,181.50	1,161.20	20.30	58.198		
2,385.77	2,332.36	2,493.26	2,424.73	9.99	11.67	-100.96	1,020.29	-565.05	1,180.56	1,159.24	21.31	55.393 CC		
2,400.00	2,344.94	2,504.33	2,435.41	10.09	11.74	-101.08	1,021.57	-562.45	1,180.58	1,159.11	21.47	54.978 ES		
2,500.00	2,432.39	2,585.51	2,513.96	10.89	12.19	-102.04	1,031.00	-544.29	1,182.25	1,159.59	22.66	52.184		
2,519.29	2,449.07	2,595.00	2,523.17	11.05	12.25	-102.16	1,032.10	-542.25	1,182.88	1,160.02	22.86	51.755		
2,600.00	2,518.69	2,655.46	2,581.98	11.74	12.56	-103.01	1,039.15	-530.14	1,186.61	1,162.82	23.78	49.889		
2,700.00	2,604.95	2,753.96	2,678.35	12.62	13.05	-104.49	1,049.87	-512.85	1,193.19	1,168.16	25.03	47.672		
2,800.00	2,691.22	2,859.52	2,781.98	13.52	13.56	-106.16	1,058.75	-494.82	1,199.45	1,173.18	26.27	45.652		
2,900.00	2,777.48	2,968.62	2,888.92	14.43	14.10	-107.86	1,067.47	-475.04	1,205.58	1,178.05	27.53	43.793		
3,000.00	2,863.75	3,065.32	2,983.27	15.35	14.59	-109.25	1,076.43	-455.90	1,211.99	1,183.24	28.75	42.153		
3,100.00	2,950.01	3,167.16	3,082.15	16.28	15.14	-110.61	1,087.62	-434.26	1,218.91	1,188.89	30.02	40.602		
3,200.00	3,036.27	3,277.06	3,188.65	17.22	15.75	-112.03	1,099.50	-409.82	1,225.55	1,194.22	31.32	39.128		
3,300.00	3,122.54	3,372.49	3,280.90	18.17	16.29	-113.22	1,109.93	-387.74	1,232.11	1,199.56	32.55	37.850		
3,400.00	3,208.80	3,451.61	3,357.36	19.13	16.74	-114.18	1,119.28	-369.69	1,239.98	1,206.28	33.70	36.795		
3,500.00	3,295.07	3,531.62	3,434.80	20.09	17.18	-115.13	1,129.60	-352.40	1,249.86	1,215.03	34.83	35.883		
3,600.00	3,381.33	3,621.69	3,522.08	21.05	17.68	-116.19	1,141.57	-333.68	1,261.17	1,225.17	35.99	35.040		
3,700.00	3,467.59	3,730.64	3,627.87	22.02	18.27	-117.50	1,154.90	-311.34	1,272.81	1,235.59	37.22	34.201		
3,800.00	3,553.86	3,849.10	3,742.95	22.99	18.91	-118.96	1,167.17	-286.04	1,283.44	1,245.01	38.43	33.395		
3,900.00	3,640.12	3,940.07	3,831.29	23.97	19.40	-120.08	1,176.05	-266.24	1,294.05	1,254.55	39.50	32.757		
4,000.00	3,726.38	4,023.99	3,912.79	24.95	19.86	-121.08	1,184.67	-248.20	1,305.69	1,265.16	40.53	32.217		
4,100.00	3,812.65	4,110.98	3,997.44	25.93	20.32	-122.11	1,193.76	-230.33	1,318.77	1,277.23	41.54	31.746		
4,200.00	3,898.91	4,218.34	4,101.59	26.91	20.91	-123.29	1,206.58	-207.66	1,332.39	1,289.72	42.66	31.231		
4,300.00	3,985.18	4,335.52	4,214.58	27.90	21.58	-124.46	1,221.87	-180.61	1,344.95	1,301.11	43.85	30.672		
4,400.00	4,071.44	4,440.70	4,316.14	28.88	22.19	-125.55	1,233.81	-156.03	1,357.16	1,312.23	44.93	30.205		
4,500.00	4,157.70	4,601.80	4,470.35	29.87	23.17	-127.07	1,253.41	-113.80	1,367.54	1,321.30	46.24	29.575		
4,600.00	4,243.97	4,719.87	4,581.16	30.86	23.99	-127.96	1,271.12	-77.13	1,374.05	1,326.58	47.48	28.942		
4,700.00	4,330.23	4,788.59	4,645.64	31.85	24.46	-128.45	1,281.93	-55.97	1,381.46	1,332.95	48.51	28.478		
4,800.00	4,416.49	4,854.00	4,707.76	32.84	24.89	-128.95	1,292.15	-38.23	1,392.22	1,342.75	49.47	28.142		
4,900.00	4,502.76	4,908.52	4,759.95	33.84	25.22	-129.38	1,300.63	-24.93	1,405.75	1,355.43	50.32	27.938		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
5,000.00	4,589.02	5,014.68	4,861.73	34.83	25.86	-130.21	1,317.22	0.25	1,420.65	1,369.24	51.41	27.634		
5,100.00	4,675.29	5,112.84	4,955.43	35.82	26.47	-130.92	1,333.37	24.65	1,434.82	1,382.35	52.47	27.343		
5,200.00	4,761.55	5,199.90	5,038.76	36.82	26.99	-131.56	1,347.12	45.78	1,449.66	1,396.21	53.44	27.124		
5,300.00	4,847.81	5,275.95	5,112.11	37.82	27.43	-132.20	1,357.27	63.08	1,465.76	1,411.48	54.28	27.002		
5,400.00	4,934.08	5,356.30	5,189.98	38.81	27.87	-132.90	1,367.25	80.13	1,483.45	1,428.36	55.10	26.925		
5,500.00	5,020.34	5,454.06	5,285.14	39.81	28.40	-133.80	1,377.65	100.01	1,502.05	1,446.11	55.94	26.851		
5,600.00	5,106.60	5,606.42	5,432.64	40.81	29.25	-135.17	1,393.08	134.82	1,518.23	1,461.22	57.02	26.628		
5,700.00	5,192.87	5,686.50	5,509.70	41.81	29.72	-135.79	1,403.22	154.11	1,534.15	1,476.32	57.83	26.529		
5,800.00	5,279.13	5,758.52	5,579.06	42.81	30.13	-136.31	1,413.24	170.72	1,551.51	1,492.92	58.60	26.477		
5,900.00	5,365.40	5,814.22	5,633.04	43.81	30.44	-136.73	1,420.63	182.29	1,571.25	1,512.03	59.23	26.529		
6,000.00	5,451.66	5,883.43	5,700.57	44.81	30.80	-137.28	1,428.91	194.97	1,593.43	1,533.55	59.87	26.613		
6,100.00	5,537.92	6,031.01	5,844.53	45.81	31.56	-138.46	1,445.35	222.86	1,615.49	1,554.54	60.95	26.506		
6,200.00	5,624.19	6,114.50	5,925.69	46.81	32.01	-139.08	1,455.12	239.84	1,636.28	1,574.60	61.68	26.529		
6,300.00	5,710.45	6,247.29	6,054.87	47.81	32.72	-140.16	1,467.57	267.95	1,656.37	1,593.78	62.59	26.463		
6,400.00	5,796.72	6,421.58	6,222.28	48.81	33.76	-141.34	1,488.58	311.25	1,673.09	1,609.33	63.76	26.242		
6,500.00	5,882.98	6,499.98	6,296.32	49.81	34.27	-141.67	1,503.30	332.40	1,688.31	1,623.66	64.64	26.118		
6,600.00	5,969.24	6,564.56	6,357.60	50.82	34.68	-141.93	1,515.82	348.49	1,705.58	1,640.14	65.43	26.066		
6,700.00	6,055.51	6,646.63	6,436.04	51.82	35.18	-142.31	1,530.38	367.75	1,724.39	1,658.10	66.28	26.015		
6,800.00	6,141.77	6,818.73	6,600.81	52.82	36.24	-143.27	1,554.86	410.88	1,741.91	1,674.41	67.50	25.805		
6,900.00	6,228.03	6,953.74	6,728.51	53.83	37.14	-143.99	1,574.12	450.22	1,755.00	1,686.49	68.52	25.615		
7,000.00	6,314.30	7,022.70	6,793.65	54.83	37.59	-144.32	1,585.03	470.06	1,768.92	1,699.63	69.29	25.530		
7,100.00	6,400.56	7,083.18	6,851.34	55.83	37.98	-144.65	1,593.17	486.29	1,784.92	1,714.96	69.96	25.513		
7,200.00	6,486.83	7,176.80	6,941.38	56.84	38.53	-145.31	1,601.31	510.53	1,802.17	1,731.54	70.64	25.513		
7,300.00	6,573.09	7,267.63	7,029.07	57.84	39.04	-146.07	1,604.56	533.98	1,819.87	1,748.70	71.17	25.570		
7,400.00	6,659.35	7,343.96	7,102.92	58.84	39.44	-146.77	1,605.01	553.25	1,838.59	1,766.98	71.61	25.676		
7,500.00	6,745.62	7,446.94	7,202.30	59.85	39.92	-147.92	1,598.50	579.18	1,858.04	1,786.14	71.90	25.843		
7,600.00	6,831.88	7,715.50	7,449.10	60.85	40.99	-152.23	1,531.16	658.24	1,876.30	1,805.41	70.90	26.466		
7,700.00	6,918.14	7,790.36	7,513.54	61.86	41.29	-153.65	1,503.31	684.20	1,889.93	1,819.11	70.83	26.684		
7,800.00	7,004.41	7,843.50	7,558.15	62.86	41.47	-154.73	1,480.80	702.28	1,906.14	1,835.28	70.86	26.900		
7,900.00	7,090.67	7,883.00	7,590.33	63.87	41.61	-155.57	1,461.97	715.30	1,925.59	1,854.68	70.91	27.156		
8,000.00	7,176.94	7,915.77	7,616.35	64.87	41.68	-156.31	1,444.92	725.60	1,948.73	1,877.82	70.91	27.482		
8,027.52	7,200.68	7,923.04	7,622.03	65.15	41.70	-156.47	1,440.95	727.79	1,955.79	1,884.89	70.91	27.583		
8,050.00	7,220.18	7,928.97	7,626.63	65.37	41.71	-160.61	1,437.66	729.55	1,961.72	1,890.82	70.90	27.670		
8,100.00	7,264.25	7,942.65	7,637.17	65.85	41.75	-170.79	1,429.90	733.53	1,975.10	1,904.22	70.88	27.867		
8,150.00	7,308.99	7,972.00	7,659.34	66.28	41.82	177.59	1,412.46	741.65	1,988.79	1,918.02	70.77	28.102		
8,200.00	7,354.07	7,972.00	7,659.34	66.67	41.82	165.87	1,412.46	741.65	2,002.18	1,931.38	70.80	28.279		
8,250.00	7,399.14	7,972.00	7,659.34	67.02	41.82	154.16	1,412.46	741.65	2,015.73	1,944.92	70.81	28.465		
8,300.00	7,443.85	8,000.22	7,680.05	67.32	41.85	142.82	1,394.69	748.86	2,028.75	1,958.05	70.70	28.695		
8,350.00	7,487.88	8,014.97	7,690.61	67.56	41.87	132.93	1,385.03	752.37	2,041.52	1,970.88	70.64	28.900		
8,400.00	7,530.87	8,029.98	7,701.18	67.75	41.89	124.46	1,374.92	755.76	2,053.78	1,983.20	70.58	29.100		
8,450.00	7,572.51	8,061.00	7,722.40	67.90	41.93	117.21	1,353.22	762.17	2,065.60	1,995.15	70.45	29.320		
8,500.00	7,612.48	8,061.00	7,722.40	68.00	41.93	111.40	1,353.22	762.17	2,076.34	2,005.88	70.46	29.467		
8,550.00	7,650.47	8,061.00	7,722.40	68.05	41.93	106.55	1,353.22	762.17	2,086.62	2,016.13	70.49	29.601		
8,600.00	7,686.20	8,061.00	7,722.40	68.06	41.93	102.49	1,353.22	762.17	2,096.38	2,025.83	70.55	29.716		
8,650.00	7,719.39	8,095.50	7,745.29	68.03	41.93	99.10	1,328.08	767.99	2,104.35	2,033.87	70.47	29.861		
8,700.00	7,749.79	8,107.15	7,752.90	67.97	41.93	96.34	1,319.41	769.57	2,111.91	2,041.38	70.53	29.943		
8,750.00	7,777.17	8,150.00	7,780.38	67.87	41.93	94.22	1,286.80	773.67	2,119.49	2,049.02	70.47	30.076		
8,800.00	7,801.32	8,150.00	7,780.38	67.74	41.93	92.41	1,286.80	773.67	2,124.49	2,053.83	70.66	30.065		
8,850.00	7,822.06	8,150.00	7,780.38	67.59	41.93	90.95	1,286.80	773.67	2,128.73	2,057.82	70.91	30.020		
8,900.00	7,839.23	8,150.00	7,780.38	67.41	41.93	89.80	1,286.80	773.67	2,132.17	2,060.96	71.21	29.940		
8,950.00	7,852.69	8,173.87	7,795.15	67.22	41.90	89.21	1,268.10	775.04	2,134.48	2,063.06	71.42	29.885		
9,000.00	7,862.35	8,192.93	7,806.52	67.00	41.88	88.90	1,252.83	775.91	2,135.58	2,063.88	71.70	29.784		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 318-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	8,211.71	7,817.34	66.78	41.86	88.90	1,237.49	776.57	2,135.48	2,063.46	72.02	29.651		
9,098.65	7,870.00	8,239.00	7,832.39	66.55	41.84	89.31	1,214.73	777.16	2,134.32	2,062.03	72.29	29.525		
9,100.00	7,870.00	8,239.00	7,832.39	66.55	41.84	89.31	1,214.73	777.16	2,134.26	2,061.96	72.30	29.518		
9,200.00	7,870.00	8,291.49	7,858.75	66.09	41.76	90.02	1,169.36	777.78	2,131.91	2,059.01	72.90	29.246		
9,284.21	7,870.00	8,352.68	7,884.64	65.72	41.67	90.72	1,113.95	778.13	2,131.34	2,058.16	73.18	29.125		
9,300.00	7,870.00	8,364.16	7,888.75	65.65	41.66	90.83	1,103.23	778.14	2,131.36	2,058.14	73.22	29.110		
9,400.00	7,870.00	8,438.45	7,909.20	65.24	41.54	91.38	1,031.88	777.65	2,132.26	2,058.84	73.42	29.042		
9,500.00	7,870.00	8,512.77	7,923.65	64.85	41.43	91.76	959.00	776.10	2,134.55	2,060.95	73.60	29.002		
9,600.00	7,870.00	8,632.44	7,938.37	64.48	41.29	92.16	840.31	773.82	2,136.49	2,063.11	73.37	29.118		
9,700.00	7,870.00	8,783.40	7,944.15	64.13	41.23	92.31	689.51	771.15	2,138.47	2,065.38	73.09	29.258		
9,703.72	7,870.00	9,703.72	7,943.32	64.12	94.50	92.29	722.55	771.52	2,138.35	2,066.08	72.27	29.590		
9,800.00	7,870.00	8,880.52	7,943.25	63.80	41.28	92.28	592.40	770.82	2,138.42	2,065.02	73.41	29.132		
9,900.00	7,870.00	9,001.67	7,937.71	63.50	41.43	92.14	471.38	771.50	2,137.29	2,063.49	73.80	28.962		
9,996.53	7,870.00	9,071.46	7,935.01	63.22	41.57	92.07	401.64	771.79	2,136.50	2,062.10	74.39	28.719		
10,000.00	7,870.00	9,073.43	7,934.95	63.22	41.57	92.06	399.67	771.78	2,136.50	2,062.08	74.41	28.711		
10,100.00	7,870.00	9,130.72	7,933.75	62.96	41.71	92.03	342.41	770.92	2,137.58	2,062.50	75.08	28.471		
10,200.00	7,870.00	9,248.79	7,932.25	62.72	42.05	91.99	224.36	768.88	2,138.87	2,062.91	75.96	28.158		
10,300.00	7,870.00	9,349.17	7,932.42	62.50	42.43	91.99	124.01	766.93	2,140.47	2,063.50	76.97	27.808		
10,400.00	7,870.00	9,533.65	7,933.05	62.31	43.42	92.01	-60.44	769.11	2,138.35	2,059.45	78.90	27.103		
10,500.00	7,870.00	9,647.34	7,932.82	62.15	44.21	92.01	-174.09	771.51	2,135.98	2,055.46	80.51	26.530		
10,600.00	7,870.00	9,704.23	7,934.31	62.01	44.63	92.05	-230.94	773.00	2,133.33	2,051.77	81.56	26.158		
10,652.34	7,870.00	9,727.31	7,934.87	61.95	44.81	92.07	-254.01	773.09	2,132.97	2,050.95	82.02	26.004		
10,700.00	7,870.00	9,754.00	7,935.47	61.90	45.02	92.08	-280.69	772.81	2,133.29	2,050.78	82.51	25.855		
10,800.00	7,870.00	9,806.73	7,936.45	61.82	45.42	92.11	-333.39	771.41	2,135.55	2,052.03	83.51	25.571		
10,900.00	7,870.00	9,898.18	7,937.27	61.78	46.16	92.12	-424.76	767.58	2,139.39	2,054.29	85.09	25.142		
11,000.00	7,870.00	9,982.91	7,937.47	61.77	46.90	92.13	-509.43	764.25	2,143.04	2,056.40	86.64	24.735		
11,100.00	7,870.00	10,052.24	7,939.69	61.81	47.52	92.18	-578.62	760.59	2,148.09	2,060.09	88.00	24.411		
11,200.00	7,870.00	10,144.75	7,944.20	61.90	48.39	92.30	-670.82	754.61	2,154.38	2,064.54	89.84	23.981		
11,300.00	7,870.00	10,280.88	7,947.75	62.03	49.77	92.38	-806.71	747.45	2,159.32	2,066.70	92.62	23.315		
11,400.00	7,870.00	10,414.69	7,949.78	62.23	51.24	92.43	-940.44	743.13	2,162.05	2,066.52	95.53	22.632		
11,500.00	7,870.00	10,523.46	7,955.09	62.50	52.50	92.57	-1,049.00	739.30	2,165.52	2,067.46	98.06	22.084		
11,600.00	7,870.00	10,830.56	7,966.21	62.84	56.44	92.88	-1,355.55	747.68	2,161.48	2,055.73	105.75	20.440		
11,700.00	7,870.00	10,884.00	7,966.43	63.25	57.18	92.89	-1,408.92	750.33	2,155.85	2,048.72	107.13	20.124		
11,800.00	7,870.00	10,989.05	7,966.36	63.76	58.62	92.89	-1,513.88	754.50	2,151.58	2,041.70	109.88	19.581		
11,900.00	7,870.00	11,087.28	7,966.22	64.34	60.00	92.89	-1,611.99	759.28	2,146.38	2,033.87	112.51	19.077		
12,000.00	7,870.00	11,152.00	7,966.16	65.01	60.92	92.90	-1,676.65	762.17	2,141.75	2,027.52	114.23	18.750		
12,100.00	7,870.00	11,213.77	7,966.12	65.77	61.79	92.90	-1,738.40	763.87	2,138.85	2,023.00	115.84	18.463		
12,163.81	7,870.00	11,241.00	7,966.09	66.29	62.17	92.90	-1,765.63	764.08	2,138.23	2,021.73	116.51	18.353		
12,200.00	7,870.00	11,241.00	7,966.09	66.61	62.17	92.90	-1,765.63	764.08	2,138.54	2,022.14	116.40	18.372		
12,300.00	7,870.00	11,305.11	7,966.00	67.51	63.06	92.89	-1,829.72	762.93	2,140.37	2,022.34	118.03	18.134		
12,400.00	7,870.00	11,380.16	7,965.88	68.49	64.09	92.89	-1,904.68	759.29	2,144.73	2,024.75	119.99	17.874		
12,500.00	7,870.00	11,639.80	7,965.33	69.52	67.84	92.87	-2,164.20	759.08	2,142.75	2,014.91	127.84	16.761		
12,600.00	7,870.00	11,733.31	7,965.15	70.61	69.24	92.87	-2,257.69	760.93	2,140.40	2,009.86	130.54	16.396		
12,700.00	7,870.00	11,869.99	7,963.92	71.75	71.31	92.84	-2,394.30	765.24	2,136.84	2,002.19	134.66	15.869		
12,800.00	7,870.00	11,969.82	7,962.04	72.93	72.85	92.80	-2,494.03	769.39	2,132.26	1,994.63	137.63	15.493		
12,900.00	7,870.00	12,027.44	7,960.95	74.14	73.73	92.77	-2,551.61	771.07	2,128.93	1,989.71	139.22	15.292		
13,000.00	7,870.00	12,079.05	7,959.98	75.39	74.52	92.75	-2,603.20	771.51	2,127.69	1,987.11	140.57	15.136		
13,002.69	7,870.00	12,080.38	7,959.96	75.43	74.54	92.75	-2,604.53	771.50	2,127.69	1,987.08	140.61	15.132		
13,100.00	7,870.00	12,132.00	7,958.98	76.67	75.32	92.72	-2,656.14	770.64	2,128.82	1,986.90	141.92	15.000		
13,200.00	7,870.00	12,287.48	7,956.01	77.98	77.70	92.64	-2,811.58	769.47	2,128.85	1,981.97	146.88	14.494		
13,300.00	7,870.00	12,381.35	7,954.28	79.31	79.16	92.59	-2,905.43	769.38	2,128.53	1,978.82	149.71	14.218		
13,400.00	7,870.00	12,555.23	7,952.95	80.67	81.89	92.56	-3,079.26	772.32	2,126.35	1,970.96	155.39	13.684		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	
13,500.00	7,870.00	12,649.48	7,952.62	82.04	83.40	92.56	-3,173.47	775.44	2,122.70	1,964.38	158.32	13.407		
13,600.00	7,870.00	12,753.57	7,952.26	83.43	85.06	92.55	-3,277.50	778.61	2,119.31	1,957.69	161.61	13.113		
13,700.00	7,870.00	12,843.42	7,952.09	84.84	86.51	92.55	-3,367.32	781.30	2,115.97	1,951.55	164.42	12.870		
13,800.00	7,870.00	12,893.50	7,952.06	86.27	87.31	92.55	-3,417.38	782.10	2,114.05	1,948.29	165.76	12.753		
13,830.90	7,870.00	12,908.89	7,952.04	86.71	87.55	92.55	-3,432.78	782.10	2,113.94	1,947.78	166.16	12.722		
13,900.00	7,870.00	12,934.00	7,952.01	87.71	87.95	92.55	-3,457.89	781.86	2,114.55	1,947.88	166.67	12.687		
14,000.00	7,870.00	12,998.63	7,951.92	89.16	88.97	92.54	-3,522.48	780.04	2,117.18	1,948.74	168.43	12.570		
14,100.00	7,870.00	13,087.55	7,951.73	90.63	90.36	92.53	-3,611.30	775.80	2,121.55	1,950.41	171.14	12.396		
14,200.00	7,870.00	13,204.36	7,951.50	92.10	92.19	92.52	-3,728.02	770.87	2,125.42	1,950.43	174.99	12.146		
14,300.00	7,870.00	13,298.82	7,951.38	93.59	93.69	92.52	-3,822.40	767.08	2,129.08	1,951.13	177.95	11.964		
14,400.00	7,870.00	13,408.44	7,951.04	95.09	95.43	92.50	-3,931.94	762.98	2,132.46	1,950.92	181.54	11.747		
14,500.00	7,870.00	13,509.86	7,950.81	96.60	97.05	92.49	-4,033.29	759.21	2,135.83	1,951.02	184.81	11.557		
14,600.00	7,870.00	13,621.49	7,950.68	98.11	98.84	92.48	-4,144.86	755.59	2,138.71	1,950.21	188.51	11.346		
14,700.00	7,870.00	13,866.16	7,953.42	99.64	102.85	92.56	-4,389.43	755.83	2,138.81	1,941.45	197.36	10.837		
14,800.00	7,870.00	13,993.46	7,956.15	101.17	104.99	92.64	-4,516.59	761.15	2,134.48	1,932.81	201.67	10.584		
14,900.00	7,870.00	14,064.31	7,958.11	102.71	106.18	92.70	-4,587.33	764.46	2,129.66	1,925.72	203.94	10.443		
15,000.00	7,870.00	14,136.38	7,959.38	104.26	107.38	92.73	-4,659.36	766.63	2,126.37	1,920.15	206.21	10.311		
15,100.00	7,870.00	14,213.65	7,960.66	105.82	108.67	92.77	-4,736.59	768.11	2,124.20	1,915.54	208.66	10.180		
15,200.00	7,870.00	14,290.49	7,961.93	107.38	109.95	92.81	-4,813.42	768.76	2,123.10	1,912.03	211.07	10.059		
15,246.78	7,870.00	14,325.70	7,962.51	108.11	110.54	92.82	-4,848.63	768.77	2,122.97	1,910.81	212.16	10.006		
15,300.00	7,870.00	14,359.00	7,963.07	108.95	111.09	92.84	-4,881.93	768.60	2,123.15	1,910.03	213.11	9.963		
15,400.00	7,870.00	14,434.79	7,964.35	110.52	112.34	92.87	-4,957.69	767.42	2,124.50	1,909.07	215.42	9.862		
15,500.00	7,870.00	14,586.49	7,966.68	112.10	114.86	92.93	-5,109.36	765.71	2,125.37	1,904.48	220.89	9.622		
15,600.00	7,870.00	14,689.74	7,968.21	113.69	116.59	92.97	-5,212.59	766.04	2,124.78	1,900.42	224.36	9.470		
15,700.00	7,870.00	14,780.75	7,969.50	115.28	118.11	93.01	-5,303.60	766.08	2,124.47	1,897.13	227.34	9.345		
15,800.00	7,870.00	14,886.60	7,971.05	116.87	119.88	93.05	-5,409.44	765.93	2,124.36	1,893.43	230.93	9.199		
15,900.00	7,870.00	14,984.49	7,972.52	118.47	121.53	93.09	-5,507.32	766.01	2,124.02	1,889.82	234.21	9.069		
16,000.00	7,870.00	15,102.50	7,974.03	120.07	123.52	93.13	-5,625.32	766.93	2,122.91	1,884.61	238.30	8.908		
16,083.97	7,870.00	15,163.00	7,973.54	121.43	124.54	93.12	-5,685.81	767.03	2,122.45	1,882.29	240.16	8.838		
16,100.00	7,870.00	15,173.89	7,973.33	121.68	124.72	93.11	-5,696.69	766.97	2,122.47	1,881.99	240.49	8.826		
16,200.00	7,870.00	15,243.01	7,972.14	123.30	125.88	93.08	-5,765.80	766.00	2,123.44	1,880.92	242.53	8.755		
16,300.00	7,870.00	15,334.63	7,970.21	124.91	127.41	93.03	-5,857.37	763.78	2,125.41	1,879.90	245.51	8.657		
16,400.00	7,870.00	15,428.85	7,968.27	126.53	128.98	92.97	-5,951.54	761.26	2,127.63	1,879.03	248.60	8.558		
16,500.00	7,870.00	15,510.01	7,967.81	128.16	130.34	92.96	-6,032.65	758.69	2,130.44	1,879.31	251.13	8.484		
16,600.00	7,870.00	15,587.28	7,968.02	129.79	131.62	92.96	-6,109.86	755.52	2,134.20	1,880.75	253.46	8.420		
16,700.00	7,870.00	15,671.87	7,968.53	131.42	133.03	92.97	-6,194.34	751.26	2,138.92	1,882.82	256.10	8.352		
16,800.00	7,870.00	16,192.02	7,976.86	133.05	142.00	93.24	-6,711.24	782.91	2,125.95	1,851.02	274.94	7.733		
16,900.00	7,870.00	16,232.00	7,979.80	134.69	142.71	93.33	-6,750.72	788.44	2,112.54	1,835.81	276.73	7.634		
17,000.00	7,870.00	16,295.32	7,985.54	136.33	143.82	93.50	-6,813.34	795.84	2,101.24	1,822.16	279.08	7.529		
17,100.00	7,870.00	16,321.00	7,988.08	137.97	144.27	93.57	-6,838.77	798.33	2,092.64	1,812.60	280.05	7.473		
17,200.00	7,870.00	16,373.56	7,992.93	139.62	145.18	93.71	-6,890.98	801.91	2,086.63	1,804.89	281.74	7.406		
17,300.00	7,870.00	16,410.00	7,995.72	141.27	145.82	93.79	-6,927.30	802.94	2,083.91	1,801.30	282.62	7.374		
17,355.74	7,870.00	16,440.48	7,997.57	142.19	146.33	93.84	-6,957.72	803.13	2,083.59	1,800.15	283.44	7.351		
17,400.00	7,870.00	16,465.93	7,998.69	142.92	146.77	93.87	-6,983.15	803.00	2,083.79	1,799.67	284.13	7.334		
17,500.00	7,870.00	16,553.38	8,000.38	144.58	148.25	93.92	-7,070.57	801.35	2,085.41	1,798.44	286.97	7.267		
17,600.00	7,870.00	16,673.02	8,002.15	146.23	150.29	93.96	-7,190.18	799.88	2,086.39	1,795.13	291.26	7.163		
17,700.00	7,870.00	16,759.14	8,003.37	147.89	151.76	93.99	-7,276.29	798.93	2,087.26	1,793.20	294.05	7.098		
17,800.00	7,870.00	16,877.89	8,005.00	149.56	153.78	94.04	-7,395.02	797.73	2,088.03	1,789.73	298.30	7.000		
17,900.00	7,870.00	16,977.93	8,006.34	151.22	155.49	94.07	-7,495.04	797.21	2,088.30	1,786.58	301.73	6.921		
18,000.00	7,870.00	17,084.71	8,007.79	152.89	157.32	94.11	-7,601.82	796.57	2,088.67	1,783.22	305.45	6.838		
18,060.68	7,870.00	17,145.53	8,008.64	153.90	158.36	94.14	-7,662.63	796.55	2,088.55	1,781.02	307.53	6.791		
18,100.00	7,870.00	17,174.45	8,009.05	154.55	158.85	94.15	-7,691.55	796.41	2,088.65	1,780.23	308.42	6.772		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,200.00	7,870.00	17,240.35	8,009.90	156.22	159.98	94.17	-7,757.44	795.47	2,089.87	1,779.58	310.29	6.735	
18,300.00	7,870.00	17,301.00	8,010.05	157.90	161.01	94.17	-7,818.04	793.34	2,093.01	1,781.19	311.82	6.712	
18,400.00	7,870.00	17,358.08	8,009.66	159.57	161.97	94.15	-7,875.03	790.18	2,098.10	1,785.05	313.06	6.702	
18,500.00	7,870.00	17,413.57	8,008.93	161.25	162.89	94.13	-7,930.37	786.04	2,105.15	1,791.06	314.09	6.702	
18,600.00	7,870.00	17,479.00	8,007.94	162.93	163.97	94.09	-7,995.45	779.42	2,114.57	1,799.00	315.57	6.701 SF	
18,700.00	7,870.00	17,506.51	8,007.68	164.60	164.42	94.07	-8,022.74	775.96	2,126.21	1,811.51	314.70	6.756	
18,797.52	7,870.00	17,568.00	8,008.31	166.24	165.41	94.07	-8,083.46	766.36	2,140.66	1,824.89	315.78	6.779	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-51.01	786.15	-971.02	1,249.41					
100.00	100.00	88.28	88.28	0.13	0.15	-51.00	786.30	-970.93	1,249.39	1,249.11	0.28	4,440.625		
200.00	200.00	187.46	187.46	0.49	0.31	-50.97	786.81	-970.63	1,249.48	1,248.68	0.80	1,552.348		
300.00	300.00	286.64	286.64	0.85	0.48	-50.93	787.69	-970.12	1,249.64	1,248.31	1.33	940.688		
400.00	400.00	384.83	384.81	1.21	0.77	-50.86	788.89	-969.46	1,249.89	1,247.91	1.98	631.617		
500.00	500.00	482.55	482.52	1.57	1.12	-50.80	790.30	-968.85	1,250.31	1,247.63	2.69	465.183		
600.00	600.00	580.27	580.22	1.93	1.47	-50.72	791.92	-968.30	1,250.92	1,247.53	3.40	368.261		
700.00	700.00	762.38	762.04	2.29	2.13	-50.36	795.07	-959.69	1,248.39	1,243.98	4.41	283.158		
800.00	800.00	929.79	927.56	2.64	2.78	-49.43	801.26	-935.79	1,239.72	1,234.33	5.39	229.870		
900.00	900.00	1,021.34	1,017.07	3.00	3.18	-48.65	807.60	-917.70	1,229.14	1,223.01	6.14	200.334		
1,000.00	1,000.00	1,128.25	1,120.37	3.36	3.70	-47.48	818.52	-892.49	1,218.10	1,211.11	6.99	174.313		
1,100.00	1,099.98	1,206.52	1,195.20	3.72	4.12	-101.31	829.41	-872.30	1,208.69	1,200.94	7.75	155.981		
1,200.00	1,199.84	1,294.21	1,278.49	4.07	4.61	-100.39	843.96	-849.06	1,201.71	1,193.11	8.59	139.858		
1,300.00	1,299.45	1,396.08	1,374.17	4.43	5.23	-99.27	862.76	-819.60	1,195.40	1,185.84	9.57	124.957		
1,400.00	1,398.70	1,477.30	1,450.28	4.80	5.75	-98.47	878.89	-796.30	1,191.25	1,180.79	10.45	113.940		
1,500.00	1,497.47	1,500.00	1,575.66	5.18	5.88	-97.23	905.14	-755.84	1,186.78	1,175.81	10.97	108.152		
1,600.00	1,595.62	1,709.15	1,666.20	5.57	7.32	-96.49	922.97	-724.39	1,180.78	1,167.98	12.80	92.272		
1,700.00	1,693.06	1,799.47	1,750.21	6.00	7.96	-95.93	940.51	-696.25	1,176.93	1,163.07	13.86	84.938		
1,800.00	1,789.64	1,929.88	1,871.68	6.45	8.88	-95.35	963.98	-655.03	1,172.16	1,156.95	15.21	77.054		
1,900.00	1,885.27	2,032.12	1,967.44	6.94	9.59	-95.20	980.55	-623.27	1,166.87	1,150.47	16.40	71.147		
2,000.00	1,979.82	2,154.23	2,082.42	7.47	10.42	-95.32	997.82	-585.97	1,160.70	1,142.98	17.73	65.483		
2,100.00	2,073.17	2,237.53	2,161.23	8.05	10.97	-95.65	1,008.43	-561.18	1,154.33	1,135.49	18.84	61.264		
2,200.00	2,165.21	2,340.58	2,259.28	8.67	11.64	-96.26	1,021.43	-532.27	1,149.37	1,129.27	20.09	57.203		
2,300.00	2,255.84	2,445.68	2,359.73	9.35	12.29	-97.16	1,032.99	-503.59	1,144.21	1,122.84	21.37	53.533		
2,400.00	2,344.94	2,523.00	2,433.69	10.09	12.77	-97.96	1,041.95	-482.89	1,140.49	1,117.93	22.55	50.568		
2,500.00	2,432.39	2,603.65	2,510.85	10.89	13.27	-98.87	1,052.40	-461.89	1,139.11	1,115.31	23.80	47.870		
2,506.81	2,438.29	2,609.10	2,516.07	10.95	13.30	-98.93	1,053.14	-460.50	1,139.10	1,115.22	23.88	47.698 CC		
2,519.29	2,449.07	2,619.10	2,525.64	11.05	13.36	-99.05	1,054.52	-457.95	1,139.12	1,115.08	24.04	47.387		
2,600.00	2,518.69	2,683.86	2,587.63	11.74	13.76	-99.82	1,063.81	-441.69	1,140.01	1,114.94	25.07	45.482		
2,700.00	2,604.95	2,784.19	2,683.68	12.62	14.38	-101.01	1,078.72	-416.82	1,142.13	1,115.67	26.46	43.161		
2,800.00	2,691.22	2,911.31	2,805.01	13.52	15.18	-102.48	1,096.47	-383.31	1,142.94	1,114.92	28.02	40.787		
2,900.00	2,777.48	3,020.84	2,909.16	14.43	15.88	-103.72	1,110.93	-352.68	1,142.59	1,113.10	29.49	38.749		
3,000.00	2,863.75	3,135.12	3,017.68	15.35	16.63	-105.01	1,125.12	-319.78	1,141.59	1,110.62	30.97	36.862		
3,100.00	2,950.01	3,228.32	3,105.43	16.28	17.27	-105.96	1,137.84	-291.09	1,140.24	1,107.85	32.38	35.209		
3,123.85	2,970.58	3,243.33	3,119.53	16.51	17.38	-106.10	1,140.09	-286.45	1,140.14	1,107.45	32.69	34.880 ES		
3,200.00	3,036.27	3,291.37	3,164.64	17.22	17.71	-106.55	1,148.03	-271.97	1,141.11	1,107.47	33.64	33.920		
3,300.00	3,122.54	3,412.49	3,278.40	18.17	18.56	-107.65	1,168.75	-235.94	1,143.42	1,108.19	35.23	32.455		
3,400.00	3,208.80	3,505.96	3,366.07	19.13	19.22	-108.51	1,184.00	-207.33	1,144.75	1,108.10	36.65	31.233		
3,500.00	3,295.07	3,590.37	3,444.89	20.09	19.82	-109.21	1,199.07	-181.18	1,146.94	1,108.92	38.03	30.162		
3,600.00	3,381.33	3,663.00	3,513.20	21.05	20.33	-109.86	1,212.13	-160.24	1,151.22	1,111.93	39.29	29.299		
3,700.00	3,467.59	3,772.68	3,616.85	22.02	21.06	-110.91	1,231.12	-129.80	1,156.32	1,115.57	40.75	28.379		
3,800.00	3,553.86	3,864.38	3,703.61	22.99	21.67	-111.79	1,246.34	-104.33	1,161.36	1,119.30	42.06	27.610		
3,900.00	3,640.12	3,939.37	3,774.88	23.97	22.16	-112.54	1,258.94	-84.70	1,168.17	1,124.93	43.24	27.014		
4,000.00	3,726.38	4,025.51	3,857.14	24.95	22.69	-113.43	1,273.52	-63.68	1,176.91	1,132.46	44.45	26.479		
4,100.00	3,812.65	4,148.59	3,975.25	25.93	23.43	-114.80	1,291.87	-34.39	1,185.67	1,139.86	45.81	25.882		
4,200.00	3,898.91	4,274.01	4,095.54	26.91	24.20	-116.25	1,307.66	-2.56	1,192.39	1,145.28	47.11	25.311		
4,300.00	3,985.18	4,363.02	4,180.65	27.90	24.74	-117.27	1,318.18	21.22	1,198.10	1,149.88	48.22	24.849		
4,400.00	4,071.44	4,450.53	4,265.07	28.88	25.26	-118.35	1,327.57	42.29	1,206.04	1,156.80	49.25	24.489		
4,500.00	4,157.70	4,553.83	4,364.36	29.87	25.88	-119.56	1,339.27	68.28	1,213.85	1,163.50	50.34	24.111		
4,600.00	4,243.97	4,632.74	4,439.88	30.86	26.36	-120.39	1,349.97	88.52	1,222.64	1,171.29	51.34	23.812		
4,700.00	4,330.23	4,721.97	4,525.82	31.85	26.89	-121.38	1,361.56	109.53	1,233.45	1,181.10	52.35	23.562		
4,800.00	4,416.49	4,878.74	4,675.61	32.84	27.86	-123.01	1,381.46	151.12	1,241.65	1,187.99	53.66	23.140		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
4,900.00	4,502.76	4,940.00	4,734.27	33.84	28.24	-123.69	1,388.08	167.50	1,249.75	1,195.23	54.52	22.925		
5,000.00	4,589.02	5,007.60	4,799.43	34.83	28.64	-124.45	1,395.59	183.83	1,260.78	1,205.46	55.32	22.790		
5,100.00	4,675.29	5,118.76	4,906.37	35.82	29.29	-125.57	1,410.84	210.01	1,273.64	1,217.27	56.37	22.594		
5,200.00	4,761.55	5,203.07	4,986.97	36.82	29.82	-126.32	1,424.02	230.94	1,286.11	1,228.79	57.32	22.438		
5,300.00	4,847.81	5,266.55	5,047.98	37.82	30.18	-126.89	1,433.78	245.53	1,300.59	1,242.51	58.08	22.393		
5,400.00	4,934.08	5,374.84	5,152.83	38.81	30.79	-127.96	1,448.73	268.07	1,317.11	1,258.06	59.05	22.305		
5,500.00	5,020.34	5,496.11	5,270.02	39.81	31.48	-129.17	1,463.79	295.37	1,331.99	1,271.94	60.04	22.183		
5,600.00	5,106.60	5,615.59	5,384.54	40.81	32.21	-130.27	1,479.30	325.70	1,344.41	1,283.36	61.05	22.021		
5,700.00	5,192.87	5,681.89	5,448.14	41.81	32.60	-130.85	1,488.26	342.13	1,358.11	1,296.33	61.78	21.984		
5,800.00	5,279.13	5,742.00	5,506.36	42.81	32.94	-131.42	1,495.91	354.99	1,375.00	1,312.60	62.39	22.038		
5,900.00	5,365.40	5,821.21	5,583.63	43.81	33.35	-132.23	1,504.51	370.12	1,394.16	1,331.14	63.02	22.122		
6,000.00	5,451.66	5,939.98	5,699.38	44.81	33.96	-133.41	1,517.16	393.43	1,413.29	1,349.41	63.87	22.127		
6,100.00	5,537.92	6,075.14	5,829.91	45.81	34.74	-134.55	1,535.07	423.52	1,430.65	1,365.74	64.91	22.041		
6,200.00	5,624.19	6,159.24	5,910.50	46.81	35.24	-135.15	1,548.17	443.72	1,446.90	1,381.19	65.71	22.020		
6,300.00	5,710.45	6,239.00	5,987.49	47.81	35.70	-135.78	1,559.07	461.43	1,464.83	1,398.41	66.42	22.054		
6,400.00	5,796.72	6,316.91	6,062.77	48.81	36.13	-136.36	1,570.30	478.10	1,483.94	1,416.83	67.11	22.114		
6,500.00	5,882.98	6,396.86	6,140.42	49.81	36.56	-136.99	1,580.93	493.88	1,504.71	1,436.96	67.76	22.207		
6,600.00	5,969.24	6,508.74	6,249.33	50.82	37.16	-137.91	1,594.07	515.84	1,525.80	1,457.23	68.57	22.252		
6,700.00	6,055.51	6,692.98	6,427.31	51.82	38.21	-139.36	1,615.46	558.27	1,543.92	1,474.19	69.74	22.140		
6,800.00	6,141.77	6,800.00	6,545.72	52.82	38.89	-140.20	1,631.90	592.41	1,557.72	1,487.16	70.56	22.076		
6,900.00	6,228.03	6,881.14	6,606.42	53.83	39.41	-140.60	1,641.29	609.74	1,572.36	1,501.05	71.32	22.048		
7,000.00	6,314.30	6,966.67	6,688.37	54.83	39.94	-141.15	1,653.17	631.15	1,589.14	1,517.10	72.05	22.058		
7,100.00	6,400.56	7,034.96	6,754.04	55.83	40.34	-141.62	1,661.63	647.84	1,606.79	1,534.16	72.63	22.123		
7,200.00	6,486.83	7,092.50	6,809.79	56.84	40.66	-142.04	1,668.11	660.52	1,626.90	1,553.81	73.09	22.258		
7,300.00	6,573.09	7,150.50	6,866.33	57.84	40.96	-142.47	1,674.06	671.97	1,649.48	1,575.99	73.49	22.444		
7,400.00	6,659.35	7,436.00	7,138.62	58.84	42.16	-146.43	1,644.59	739.45	1,668.02	1,594.79	73.23	22.778		
7,500.00	6,745.62	7,486.84	7,183.94	59.85	42.30	-147.51	1,626.55	753.75	1,683.41	1,610.33	73.07	23.037		
7,600.00	6,831.88	7,525.00	7,218.49	60.85	42.41	-148.31	1,613.40	763.21	1,703.24	1,630.27	72.97	23.343		
7,700.00	6,918.14	7,558.28	7,248.74	61.86	42.47	-149.00	1,601.72	770.66	1,727.01	1,654.20	72.80	23.722		
7,800.00	7,004.41	7,595.39	7,282.32	62.86	42.55	-149.79	1,587.82	778.23	1,754.51	1,681.99	72.52	24.193		
7,900.00	7,090.67	7,655.94	7,336.57	63.87	42.66	-151.10	1,563.41	789.49	1,785.44	1,713.38	72.06	24.777		
8,000.00	7,176.94	7,720.89	7,393.84	64.87	42.76	-152.54	1,535.40	801.86	1,818.37	1,746.81	71.56	25.411		
8,027.52	7,200.68	7,731.57	7,403.13	65.15	42.77	-152.78	1,530.51	803.84	1,827.95	1,756.50	71.44	25.586		
8,050.00	7,220.18	7,740.28	7,410.66	65.37	42.78	-157.22	1,526.45	805.43	1,835.92	1,764.57	71.35	25.732		
8,100.00	7,264.25	7,760.21	7,427.79	65.85	42.81	-168.07	1,516.87	808.97	1,853.93	1,782.79	71.14	26.059		
8,150.00	7,308.99	7,792.00	7,454.71	66.28	42.85	179.75	1,500.86	814.34	1,872.22	1,801.30	70.91	26.401		
8,200.00	7,354.07	7,817.87	7,476.17	66.67	42.87	167.07	1,487.09	818.66	1,890.30	1,819.58	70.71	26.731		
8,250.00	7,399.14	7,872.02	7,519.43	67.02	42.92	154.10	1,456.01	828.36	1,907.62	1,837.21	70.42	27.090		
8,300.00	7,443.85	7,926.79	7,561.11	67.32	42.97	142.06	1,422.09	838.93	1,923.85	1,853.72	70.13	27.432		
8,350.00	7,487.88	7,982.69	7,602.18	67.56	43.02	131.44	1,385.93	850.34	1,938.74	1,868.88	69.86	27.750		
8,400.00	7,530.87	7,970.00	7,592.99	67.75	43.00	123.06	1,394.27	847.70	1,953.10	1,883.26	69.84	27.965		
8,450.00	7,572.51	8,005.51	7,617.81	67.90	43.01	115.58	1,369.87	854.68	1,966.17	1,896.51	69.66	28.225		
8,500.00	7,612.48	8,021.55	7,628.33	68.00	43.01	109.48	1,358.11	857.57	1,978.70	1,909.15	69.55	28.449		
8,550.00	7,650.47	8,059.00	7,651.09	68.05	43.03	104.27	1,329.02	863.66	1,990.65	1,921.31	69.35	28.705		
8,600.00	7,686.20	8,059.00	7,651.09	68.06	43.03	100.17	1,329.02	863.66	2,000.94	1,931.58	69.36	28.850		
8,650.00	7,719.39	8,059.00	7,651.09	68.03	43.03	96.74	1,329.02	863.66	2,010.53	1,941.13	69.40	28.968		
8,700.00	7,749.79	8,091.64	7,668.93	67.97	43.00	93.82	1,302.10	868.30	2,018.69	1,949.41	69.28	29.137		
8,750.00	7,777.17	8,111.18	7,678.79	67.87	42.99	91.49	1,285.41	870.81	2,025.68	1,956.41	69.27	29.243		
8,800.00	7,801.32	8,148.00	7,695.60	67.74	42.97	89.62	1,252.93	874.99	2,031.50	1,962.35	69.15	29.380		
8,850.00	7,822.06	8,148.00	7,695.60	67.59	42.97	88.18	1,252.93	874.99	2,035.58	1,966.21	69.37	29.342		
8,900.00	7,839.23	8,184.90	7,710.68	67.41	42.92	87.19	1,219.47	878.73	2,038.23	1,968.90	69.33	29.399		
8,950.00	7,852.69	8,217.84	7,723.14	67.22	42.88	86.59	1,189.14	881.89	2,039.15	1,969.80	69.35	29.402		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	8,249.82	7,734.33	67.00	42.85	86.37	1,159.32	884.79	2,038.34	1,968.91	69.43	29.357		
9,050.00	7,868.14	8,280.33	7,744.43	66.78	42.81	86.52	1,130.65	887.35	2,035.87	1,966.29	69.58	29.259		
9,098.65	7,870.00	8,309.64	7,753.67	66.55	42.78	87.01	1,102.92	889.59	2,031.92	1,962.15	69.77	29.124		
9,100.00	7,870.00	8,310.45	7,753.92	66.55	42.78	87.02	1,102.15	889.65	2,031.79	1,962.01	69.77	29.119		
9,200.00	7,870.00	8,360.42	7,768.37	66.09	42.72	87.43	1,054.43	892.85	2,023.37	1,953.05	70.32	28.774		
9,300.00	7,870.00	8,416.00	7,781.93	65.65	42.66	87.81	1,000.58	895.08	2,017.66	1,946.86	70.80	28.498		
9,400.00	7,870.00	8,448.55	7,788.34	65.24	42.61	87.99	968.68	895.59	2,014.67	1,943.14	71.53	28.165		
9,448.07	7,870.00	8,467.79	7,791.44	65.05	42.58	88.08	949.69	895.56	2,014.32	1,942.47	71.85	28.035		
9,500.00	7,870.00	8,505.00	7,796.00	64.85	42.54	88.21	912.77	894.78	2,014.89	1,942.91	71.97	27.995		
9,600.00	7,870.00	8,625.88	7,801.82	64.48	42.41	88.37	792.10	892.70	2,016.33	1,944.60	71.73	28.112		
9,700.00	7,870.00	8,789.46	7,804.27	64.13	42.43	88.44	628.58	895.99	2,013.61	1,942.14	71.46	28.176		
9,800.00	7,870.00	8,841.66	7,804.90	63.80	42.46	88.46	576.39	896.97	2,011.36	1,939.30	72.06	27.913		
9,840.70	7,870.00	8,861.00	7,804.98	63.68	42.49	88.46	557.06	897.02	2,011.13	1,938.81	72.32	27.809		
9,900.00	7,870.00	8,894.50	7,804.92	63.50	42.51	88.46	523.56	896.72	2,011.48	1,938.80	72.67	27.678		
10,000.00	7,870.00	8,950.00	7,804.26	63.22	42.57	88.44	468.08	895.17	2,013.92	1,940.63	73.29	27.478		
10,100.00	7,870.00	9,070.77	7,803.79	62.96	42.75	88.43	347.40	890.62	2,017.46	1,943.58	73.88	27.309		
10,200.00	7,870.00	9,200.39	7,803.06	62.72	43.09	88.41	217.81	888.75	2,018.40	1,943.66	74.74	27.005		
10,300.00	7,870.00	9,326.57	7,802.90	62.50	43.58	88.41	91.63	887.82	2,018.82	1,942.91	75.91	26.594		
10,400.00	7,870.00	9,437.71	7,803.36	62.31	44.13	88.42	-19.51	888.07	2,018.24	1,941.01	77.23	26.133		
10,500.00	7,870.00	9,535.24	7,803.03	62.15	44.72	88.41	-117.03	888.67	2,017.30	1,938.73	78.57	25.674		
10,600.00	7,870.00	9,631.25	7,801.98	62.01	45.37	88.38	-213.03	888.89	2,016.76	1,936.75	80.01	25.207		
10,658.88	7,870.00	9,679.32	7,801.09	61.94	45.72	88.35	-261.10	888.98	2,016.51	1,935.71	80.79	24.959		
10,700.00	7,870.00	9,702.68	7,800.39	61.90	45.90	88.33	-284.45	888.82	2,016.69	1,935.48	81.21	24.834		
10,800.00	7,870.00	9,778.46	7,796.79	61.82	46.49	88.23	-360.12	887.14	2,018.58	1,936.10	82.48	24.473		
10,900.00	7,870.00	9,999.22	7,797.15	61.78	48.52	88.24	-580.73	889.58	2,016.48	1,930.13	86.35	23.352		
11,000.00	7,870.00	10,090.62	7,800.35	61.77	49.47	88.33	-672.02	892.61	2,012.73	1,924.46	88.27	22.802		
11,100.00	7,870.00	10,196.94	7,803.81	61.81	50.64	88.42	-778.23	895.91	2,009.19	1,918.62	90.58	22.182		
11,200.00	7,870.00	10,300.67	7,806.98	61.90	51.83	88.51	-881.85	899.58	2,005.24	1,912.31	92.93	21.578		
11,300.00	7,870.00	10,404.60	7,808.72	62.03	53.07	88.56	-985.70	902.97	2,001.61	1,906.26	95.35	20.993		
11,400.00	7,870.00	10,504.15	7,810.69	62.23	54.30	88.61	-1,085.13	907.68	1,996.50	1,898.76	97.74	20.426		
11,500.00	7,870.00	10,554.00	7,811.05	62.50	54.92	88.62	-1,134.96	908.96	1,993.59	1,894.70	98.89	20.159		
11,600.00	7,870.00	10,633.39	7,810.75	62.84	55.92	88.61	-1,214.34	909.62	1,992.44	1,891.64	100.79	19.768		
11,666.45	7,870.00	10,687.80	7,810.25	63.10	56.60	88.60	-1,268.75	909.61	1,992.25	1,890.13	102.11	19.510		
11,700.00	7,870.00	10,715.55	7,809.95	63.25	56.95	88.59	-1,296.50	909.48	1,992.29	1,889.51	102.78	19.383		
11,800.00	7,870.00	10,814.83	7,808.60	63.76	58.23	88.55	-1,395.77	908.79	1,992.69	1,887.41	105.28	18.928		
11,900.00	7,870.00	10,917.71	7,806.29	64.34	59.58	88.48	-1,498.62	908.24	1,992.94	1,885.03	107.91	18.468		
12,000.00	7,870.00	11,013.91	7,801.59	65.01	60.87	88.35	-1,594.69	907.70	1,993.30	1,882.92	110.38	18.059		
12,100.00	7,870.00	11,116.45	7,794.70	65.77	62.28	88.15	-1,697.01	907.23	1,993.62	1,880.58	113.04	17.636		
12,200.00	7,870.00	11,207.48	7,788.05	66.61	63.54	87.96	-1,787.79	906.80	1,994.02	1,878.62	115.40	17.279		
12,300.00	7,870.00	11,303.37	7,780.64	67.51	64.88	87.75	-1,883.39	905.85	1,994.96	1,877.04	117.93	16.917		
12,400.00	7,870.00	11,403.54	7,772.54	68.49	66.30	87.52	-1,983.23	904.91	1,995.90	1,875.28	120.61	16.548		
12,500.00	7,870.00	11,511.44	7,762.61	69.52	67.85	87.23	-2,090.66	904.14	1,996.70	1,873.13	123.57	16.158		
12,600.00	7,870.00	11,617.89	7,751.49	70.61	69.40	86.91	-2,196.53	904.11	1,996.91	1,870.41	126.50	15.786		
12,700.00	7,870.00	11,718.99	7,745.85	71.75	70.89	86.75	-2,297.45	903.38	1,997.61	1,868.25	129.37	15.441		
12,800.00	7,870.00	11,828.74	7,743.14	72.93	72.52	86.67	-2,407.17	903.69	1,997.09	1,864.47	132.62	15.059		
12,825.59	7,870.00	11,849.45	7,743.03	73.23	72.83	86.67	-2,427.88	903.65	1,997.06	1,863.85	133.20	14.992		
12,900.00	7,870.00	11,917.20	7,743.54	74.14	73.84	86.69	-2,495.62	903.26	1,997.20	1,862.01	135.19	14.773		
13,000.00	7,870.00	12,024.58	7,745.75	75.39	75.46	86.75	-2,602.97	902.49	1,997.47	1,858.98	138.49	14.423		
13,100.00	7,870.00	12,157.14	7,748.70	76.67	77.48	86.83	-2,735.50	903.50	1,996.13	1,853.39	142.74	13.984		
13,200.00	7,870.00	12,245.95	7,752.31	77.98	78.85	86.93	-2,824.23	903.98	1,995.00	1,849.54	145.46	13.715		
13,300.00	7,870.00	12,366.01	7,757.66	79.31	80.72	87.09	-2,944.16	905.34	1,993.28	1,843.92	149.36	13.346		
13,400.00	7,870.00	12,483.69	7,762.55	80.67	82.57	87.22	-3,061.72	907.65	1,990.78	1,837.59	153.19	12.995		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,500.00	7,870.00	12,565.00	7,766.28	82.04	83.85	87.33	-3,142.92	909.24	1,988.27	1,832.58	155.69	12.771		
13,600.00	7,870.00	12,675.00	7,771.88	83.43	85.60	87.48	-3,252.76	911.27	1,985.84	1,826.55	159.29	12.467		
13,700.00	7,870.00	12,750.00	7,775.94	84.84	86.79	87.60	-3,327.65	912.13	1,984.07	1,822.51	161.57	12.280		
13,800.00	7,870.00	12,859.66	7,782.12	86.27	88.53	87.78	-3,437.13	912.90	1,982.83	1,817.64	165.20	12.003		
13,900.00	7,870.00	12,962.10	7,787.91	87.71	90.18	87.94	-3,539.39	914.63	1,980.58	1,812.02	168.56	11.750		
14,000.00	7,870.00	13,041.74	7,792.89	89.16	91.46	88.09	-3,618.87	915.02	1,979.47	1,808.43	171.04	11.573		
14,100.00	7,870.00	13,169.06	7,800.27	90.63	93.51	88.30	-3,745.97	916.32	1,977.92	1,802.50	175.42	11.275		
14,200.00	7,870.00	13,248.83	7,804.41	92.10	94.80	88.42	-3,825.62	917.53	1,975.98	1,798.08	177.91	11.107		
14,272.89	7,870.00	13,298.48	7,806.55	93.19	95.60	88.48	-3,875.23	917.59	1,975.56	1,796.20	179.36	11.015		
14,300.00	7,870.00	13,317.55	7,807.22	93.59	95.91	88.50	-3,894.28	917.47	1,975.62	1,795.70	179.91	10.981		
14,400.00	7,870.00	13,394.15	7,808.90	95.09	97.14	88.55	-3,970.86	916.27	1,976.75	1,794.55	182.20	10.849		
14,500.00	7,870.00	13,498.90	7,809.00	96.60	98.82	88.55	-4,075.59	914.32	1,978.26	1,792.63	185.64	10.657		
14,600.00	7,870.00	13,594.35	7,807.50	98.11	100.36	88.51	-4,171.01	912.82	1,979.55	1,790.88	188.67	10.492		
14,700.00	7,870.00	13,851.79	7,809.76	99.64	104.60	88.57	-4,428.28	917.01	1,978.20	1,779.96	198.24	9.979		
14,800.00	7,870.00	13,933.51	7,811.36	101.17	105.97	88.61	-4,509.86	921.60	1,972.22	1,771.33	200.89	9.817		
14,900.00	7,870.00	13,997.00	7,812.30	102.71	107.04	88.64	-4,573.27	924.47	1,967.46	1,764.65	202.81	9.701		
15,000.00	7,870.00	14,049.27	7,812.69	104.26	107.90	88.65	-4,625.52	925.72	1,964.88	1,760.69	204.19	9.623		
15,035.34	7,870.00	14,065.42	7,812.76	104.81	108.17	88.65	-4,641.68	925.78	1,964.64	1,760.08	204.55	9.604		
15,100.00	7,870.00	14,099.25	7,812.80	105.82	108.73	88.65	-4,675.50	925.42	1,965.06	1,759.70	205.36	9.569		
15,200.00	7,870.00	14,166.62	7,811.85	107.38	109.83	88.63	-4,742.84	923.73	1,967.26	1,760.06	207.20	9.494		
15,300.00	7,870.00	14,290.48	7,811.09	108.95	111.85	88.61	-4,866.64	920.24	1,969.77	1,758.21	211.56	9.311		
15,400.00	7,870.00	14,407.43	7,812.21	110.52	113.77	88.64	-4,983.56	918.12	1,971.24	1,755.60	215.64	9.141		
15,500.00	7,870.00	14,512.72	7,812.56	112.10	115.51	88.65	-5,088.84	917.03	1,971.91	1,752.72	219.20	8.996		
15,600.00	7,870.00	14,625.70	7,814.39	113.69	117.39	88.70	-5,201.80	916.12	1,972.36	1,749.24	223.12	8.840		
15,700.00	7,870.00	14,750.85	7,815.69	115.28	119.48	88.74	-5,326.94	916.51	1,971.67	1,744.11	227.56	8.664		
15,800.00	7,870.00	14,849.24	7,817.14	116.87	121.13	88.78	-5,425.32	917.52	1,970.27	1,739.41	230.87	8.534		
15,900.00	7,870.00	14,950.73	7,819.03	118.47	122.83	88.84	-5,526.79	918.18	1,969.26	1,734.94	234.31	8.404		
16,000.00	7,870.00	15,044.20	7,820.95	120.07	124.41	88.89	-5,620.23	918.96	1,968.05	1,730.63	237.42	8.289		
16,100.00	7,870.00	15,153.58	7,825.14	121.68	126.25	89.01	-5,729.53	919.61	1,967.06	1,725.81	241.25	8.154		
16,200.00	7,870.00	15,261.39	7,827.99	123.30	128.07	89.10	-5,837.29	920.92	1,965.46	1,720.47	244.99	8.023		
16,300.00	7,870.00	15,353.54	7,829.55	124.91	129.63	89.14	-5,929.43	922.01	1,963.92	1,715.86	248.06	7.917		
16,400.00	7,870.00	15,443.21	7,830.88	126.53	131.15	89.18	-6,019.08	922.77	1,962.72	1,711.70	251.02	7.819		
16,458.03	7,870.00	15,484.54	7,831.70	127.48	131.84	89.20	-6,060.41	922.79	1,962.47	1,710.21	252.26	7.780		
16,500.00	7,870.00	15,519.00	7,832.58	128.16	132.43	89.23	-6,094.85	922.54	1,962.61	1,709.26	253.35	7.747		
16,600.00	7,870.00	15,628.95	7,835.77	129.79	134.28	89.32	-6,204.75	921.70	1,963.03	1,705.81	257.22	7.632		
16,700.00	7,870.00	15,758.01	7,840.08	131.42	136.47	89.45	-6,333.73	922.58	1,961.91	1,699.98	261.93	7.490		
16,800.00	7,870.00	15,860.76	7,843.00	133.05	138.22	89.53	-6,436.43	923.97	1,960.19	1,694.70	265.49	7.383		
16,900.00	7,870.00	15,973.98	7,846.42	134.69	140.15	89.63	-6,549.59	925.86	1,958.17	1,688.67	269.50	7.266		
17,000.00	7,870.00	16,041.35	7,848.15	136.33	141.30	89.68	-6,616.93	926.58	1,956.70	1,685.18	271.52	7.207		
17,100.00	7,870.00	16,136.68	7,850.47	137.97	142.92	89.75	-6,712.23	926.74	1,956.17	1,681.43	274.74	7.120		
17,200.00	7,870.00	16,285.83	7,854.16	139.62	145.48	89.86	-6,861.31	928.84	1,954.42	1,674.09	280.32	6.972		
17,300.00	7,870.00	16,372.20	7,855.06	141.27	146.96	89.88	-6,947.65	931.21	1,951.39	1,668.21	283.18	6.891		
17,400.00	7,870.00	16,448.00	7,855.38	142.92	148.26	89.89	-7,023.44	932.13	1,949.81	1,664.25	285.56	6.828		
17,500.00	7,870.00	16,538.26	7,855.69	144.58	149.80	89.90	-7,113.70	932.51	1,949.04	1,660.50	288.55	6.755		
17,600.00	7,870.00	16,633.43	7,855.98	146.23	151.42	89.91	-7,208.86	932.64	1,948.57	1,656.82	291.75	6.679		
17,700.00	7,870.00	16,736.52	7,856.65	147.89	153.18	89.93	-7,311.95	932.60	1,948.27	1,652.95	295.32	6.597		
17,800.00	7,870.00	16,847.63	7,858.40	149.56	155.08	89.98	-7,423.05	933.08	1,947.50	1,648.23	299.27	6.507		
17,900.00	7,870.00	16,970.76	7,860.72	151.22	157.20	90.05	-7,546.15	934.70	1,945.85	1,642.10	303.74	6.406		
18,000.00	7,870.00	17,088.61	7,862.71	152.89	159.24	90.11	-7,663.95	937.53	1,943.11	1,635.14	307.96	6.310		
18,100.00	7,870.00	17,198.01	7,864.30	154.55	161.13	90.16	-7,773.28	940.93	1,939.65	1,627.83	311.82	6.220		
18,200.00	7,870.00	17,288.68	7,865.00	156.22	162.70	90.18	-7,863.91	943.78	1,936.19	1,621.30	314.89	6.149		
18,300.00	7,870.00	17,372.63	7,865.23	157.90	164.15	90.18	-7,947.83	945.83	1,933.41	1,615.75	317.66	6.086		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	
18,400.00	7,870.00	17,459.82	7,865.48	159.57	165.66	90.19	-8,035.00	947.27	1,931.42	1,610.87	320.55	6.025	
18,500.00	7,870.00	17,559.98	7,866.56	161.25	167.38	90.22	-8,135.15	948.56	1,929.80	1,605.78	324.01	5.956	
18,600.00	7,870.00	17,642.96	7,867.57	162.93	168.81	90.25	-8,218.12	949.37	1,928.50	1,601.80	326.71	5.903	
18,700.00	7,870.00	17,730.70	7,868.45	164.60	170.32	90.28	-8,305.86	949.48	1,928.04	1,598.44	329.59	5.850	
18,731.05	7,870.00	17,758.37	7,868.71	165.13	170.80	90.29	-8,333.52	949.41	1,928.01	1,597.50	330.51	5.833	
18,797.52	7,870.00	17,822.43	7,869.28	166.24	171.90	90.31	-8,397.59	949.13	1,928.08	1,595.39	332.69	5.795 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-20.93	218.21	-83.44	233.83				
100.00	100.00	92.62	92.62	0.13	0.16	-21.01	217.60	-83.57	233.11	232.82	0.29	800.883	
200.00	200.00	196.62	196.59	0.49	0.39	-21.33	215.37	-84.11	231.30	230.42	0.88	262.768	
300.00	300.00	301.13	300.92	0.85	0.78	-22.38	209.81	-86.39	227.17	225.54	1.62	139.882	
400.00	400.00	398.80	398.21	1.21	1.15	-24.25	202.78	-91.34	222.55	220.21	2.35	94.902	
500.00	500.00	494.64	493.60	1.57	1.52	-26.56	196.77	-98.35	220.01	216.93	3.07	71.578	
600.00	600.00	592.29	590.55	1.93	1.92	-29.58	190.55	-108.18	219.12	215.29	3.83	57.261	
617.41	617.41	609.32	607.41	1.99	1.98	-30.21	189.33	-110.26	219.10	215.14	3.96	55.335	CC, ES
700.00	700.00	688.79	685.87	2.29	2.32	-33.49	183.29	-121.27	219.82	215.22	4.60	47.788	
800.00	800.00	784.19	779.59	2.64	2.76	-38.03	175.49	-137.27	223.05	217.65	5.39	41.353	
900.00	900.00	877.48	870.55	3.00	3.21	-43.08	167.04	-156.22	229.53	223.33	6.20	37.045	
1,000.00	1,000.00	977.82	968.00	3.36	3.72	-48.51	157.49	-178.09	238.76	231.72	7.04	33.912	
1,100.00	1,099.98	1,076.98	1,064.58	3.72	4.23	-108.16	147.45	-198.23	248.90	241.04	7.86	31.672	
1,200.00	1,199.84	1,174.17	1,159.13	4.07	4.74	-113.45	136.73	-217.95	261.85	253.21	8.64	30.298	
1,300.00	1,299.45	1,273.11	1,255.63	4.43	5.25	-118.79	125.77	-236.86	277.64	268.23	9.41	29.499	
1,400.00	1,398.70	1,368.68	1,349.13	4.80	5.73	-123.67	115.70	-253.85	296.61	286.47	10.13	29.266	SF
1,500.00	1,497.47	1,458.42	1,436.83	5.18	6.19	-128.12	106.05	-270.30	320.32	309.52	10.80	29.647	
1,600.00	1,595.62	1,545.09	1,521.28	5.57	6.64	-132.17	96.82	-287.46	349.85	338.40	11.44	30.569	
1,700.00	1,693.06	1,632.94	1,606.69	6.00	7.11	-136.00	87.26	-305.66	384.62	372.53	12.09	31.814	
1,800.00	1,789.64	1,721.96	1,693.18	6.45	7.59	-139.56	77.15	-324.15	423.75	411.01	12.75	33.247	
1,900.00	1,885.27	1,810.88	1,779.72	6.94	8.07	-142.65	67.69	-342.27	466.68	453.28	13.40	34.815	
2,000.00	1,979.82	1,902.60	1,869.24	7.47	8.54	-145.41	58.80	-360.14	512.66	498.57	14.09	36.390	
2,100.00	2,073.17	1,990.17	1,954.98	8.05	8.98	-147.56	51.99	-376.56	561.48	546.73	14.75	38.079	
2,200.00	2,165.21	2,067.75	2,030.99	8.67	9.36	-149.05	47.31	-391.35	613.72	598.38	15.34	40.004	
2,300.00	2,255.84	2,140.39	2,102.03	9.35	9.73	-150.23	43.21	-405.98	669.97	654.06	15.91	42.102	
2,400.00	2,344.94	2,211.61	2,171.49	10.09	10.09	-151.19	39.69	-421.26	730.16	713.68	16.49	44.288	
2,500.00	2,432.39	2,282.98	2,241.01	10.89	10.46	-152.06	35.94	-436.98	793.71	776.63	17.07	46.491	
2,519.29	2,449.07	2,296.96	2,254.62	11.05	10.54	-152.22	35.19	-440.09	806.32	789.13	17.19	46.900	
2,600.00	2,518.69	2,355.25	2,311.36	11.74	10.84	-153.45	32.18	-453.11	859.46	841.78	17.67	48.631	
2,700.00	2,604.95	2,434.32	2,388.36	12.62	11.25	-154.88	28.40	-470.69	925.43	907.11	18.33	50.496	
2,800.00	2,691.22	2,504.29	2,456.56	13.52	11.62	-155.99	25.02	-485.96	991.39	972.48	18.92	52.406	
2,900.00	2,777.48	2,571.74	2,522.18	14.43	11.98	-157.02	20.63	-500.89	1,058.16	1,038.67	19.49	54.290	
3,000.00	2,863.75	2,653.02	2,601.32	15.35	12.41	-158.14	14.92	-518.53	1,124.94	1,104.77	20.18	55.753	
3,100.00	2,950.01	2,729.14	2,675.52	16.28	12.81	-159.09	9.40	-534.61	1,191.56	1,170.73	20.83	57.215	
3,200.00	3,036.27	2,815.31	2,759.63	17.22	13.26	-160.06	3.15	-552.28	1,257.90	1,236.34	21.55	58.362	
3,300.00	3,122.54	2,899.02	2,841.50	18.17	13.68	-160.89	-2.52	-568.74	1,323.64	1,301.38	22.26	59.454	
3,400.00	3,208.80	2,965.64	2,906.70	19.13	14.02	-161.48	-6.97	-581.69	1,389.33	1,366.48	22.85	60.813	
3,500.00	3,295.07	3,021.00	2,960.76	20.09	14.31	-161.93	-10.66	-593.06	1,455.90	1,432.56	23.34	62.369	
3,600.00	3,381.33	3,072.10	3,010.49	21.05	14.59	-162.31	-14.24	-604.23	1,523.56	1,499.76	23.81	63.993	
3,700.00	3,467.59	3,123.49	3,060.32	22.02	14.87	-162.68	-18.21	-616.18	1,592.42	1,568.14	24.27	65.604	
3,800.00	3,553.86	3,199.08	3,133.53	22.99	15.29	-163.19	-24.37	-633.94	1,661.64	1,636.70	24.94	66.622	
3,900.00	3,640.12	3,309.00	3,240.32	23.97	15.89	-163.89	-33.57	-658.32	1,730.12	1,704.24	25.89	66.831	
4,000.00	3,726.38	3,412.44	3,341.28	24.95	16.43	-164.50	-41.93	-679.18	1,797.17	1,770.40	26.77	67.131	
4,100.00	3,812.65	3,456.89	3,384.64	25.93	16.67	-164.74	-45.49	-688.32	1,864.40	1,837.20	27.19	68.565	
4,200.00	3,898.91	3,507.10	3,433.50	26.91	16.94	-164.99	-49.56	-699.13	1,932.49	1,904.83	27.66	69.875	
4,300.00	3,985.18	3,554.64	3,479.62	27.90	17.20	-165.20	-53.28	-710.05	2,001.51	1,973.41	28.10	71.229	
4,400.00	4,071.44	3,628.27	3,550.85	28.88	17.61	-165.49	-58.68	-727.89	2,071.26	2,042.49	28.76	72.009	
4,500.00	4,157.70	3,770.28	3,688.93	29.87	18.38	-166.00	-68.45	-759.54	2,139.64	2,109.66	29.99	71.353	
4,600.00	4,243.97	3,823.54	3,740.89	30.86	18.67	-166.20	-72.49	-770.50	2,207.05	2,176.57	30.48	72.402	
4,700.00	4,330.23	3,883.78	3,799.53	31.85	18.99	-166.41	-77.04	-783.52	2,275.15	2,244.11	31.04	73.305	
4,800.00	4,416.49	3,973.37	3,886.80	32.84	19.47	-166.73	-84.33	-802.40	2,343.11	2,311.28	31.83	73.618	
4,900.00	4,502.76	4,044.32	3,955.96	33.84	19.84	-166.97	-90.17	-817.14	2,410.91	2,378.44	32.47	74.254	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,101.44	4,011.61	34.83	20.15	-167.15	-94.98	-829.09	2,478.93	2,445.93	33.00	75.123		
5,100.00	4,675.29	4,155.66	4,064.34	35.82	20.44	-167.34	-100.08	-840.63	2,547.50	2,514.00	33.50	76.038		
5,200.00	4,761.55	4,211.52	4,118.59	36.82	20.75	-167.52	-105.60	-852.79	2,616.58	2,582.56	34.02	76.908		
5,300.00	4,847.81	4,403.64	4,306.05	37.82	21.75	-168.07	-122.04	-891.33	2,683.84	2,648.21	35.64	75.311		
5,400.00	4,934.08	4,518.57	4,418.83	38.81	22.32	-168.36	-130.35	-911.84	2,749.49	2,712.87	36.61	75.093		
5,500.00	5,020.34	5,110.63	5,007.75	39.81	24.45	-169.69	-148.52	-959.81	2,803.68	2,763.19	40.49	69.245		
5,600.00	5,106.60	5,199.78	5,096.90	40.81	24.67	-169.88	-148.72	-959.71	2,853.66	2,812.45	41.21	69.250		
5,700.00	5,192.87	5,282.68	5,179.80	41.81	24.87	-170.06	-149.27	-959.51	2,903.73	2,861.83	41.89	69.312		
5,800.00	5,279.13	5,377.91	5,275.02	42.81	25.10	-170.27	-150.27	-958.95	2,953.71	2,911.07	42.64	69.274		
5,900.00	5,365.40	5,468.34	5,365.44	43.81	25.32	-170.47	-151.45	-958.09	3,003.54	2,960.18	43.36	69.274		
6,000.00	5,451.66	5,534.83	5,431.93	44.81	25.49	-170.61	-152.31	-957.69	3,053.65	3,009.68	43.97	69.456		
6,100.00	5,537.92	5,615.88	5,512.96	45.81	25.71	-170.77	-153.11	-957.69	3,104.12	3,059.46	44.65	69.518		
6,200.00	5,624.19	5,708.91	5,606.00	46.81	25.96	-170.93	-153.30	-958.02	3,154.58	3,109.17	45.41	69.476		
6,300.00	5,710.45	5,800.66	5,697.74	47.81	26.21	-171.07	-152.84	-958.42	3,204.82	3,158.67	46.15	69.443		
6,400.00	5,796.72	5,884.77	5,781.86	48.81	26.43	-171.19	-152.33	-958.76	3,255.03	3,208.17	46.86	69.470		
6,500.00	5,882.98	5,962.77	5,859.85	49.81	26.65	-171.30	-151.85	-959.23	3,305.39	3,257.85	47.53	69.543		
6,600.00	5,969.24	6,037.93	5,935.00	50.82	26.86	-171.40	-151.50	-959.90	3,356.03	3,307.84	48.19	69.638		
6,700.00	6,055.51	6,115.02	6,012.09	51.82	27.08	-171.50	-151.08	-960.88	3,406.93	3,358.06	48.87	69.716		
6,800.00	6,141.77	6,200.54	6,097.60	52.82	27.33	-171.61	-150.74	-962.01	3,457.96	3,408.36	49.59	69.727		
6,900.00	6,228.03	6,267.03	6,164.08	53.83	27.53	-171.69	-150.65	-963.00	3,509.21	3,459.00	50.21	69.889		
7,000.00	6,314.30	6,347.45	6,244.49	54.83	27.77	-171.78	-150.58	-964.61	3,560.88	3,509.97	50.91	69.945		
7,100.00	6,400.56	6,436.62	6,333.64	55.83	28.04	-171.89	-150.35	-966.34	3,612.45	3,560.79	51.66	69.927		
7,200.00	6,486.83	6,523.81	6,420.81	56.84	28.30	-171.98	-150.03	-968.08	3,664.03	3,611.63	52.40	69.924		
7,300.00	6,573.09	6,622.95	6,519.94	57.84	28.60	-172.09	-149.83	-969.76	3,715.45	3,662.24	53.21	69.825		
7,400.00	6,659.35	6,750.58	6,647.57	58.84	28.97	-172.25	-150.58	-970.34	3,766.30	3,712.13	54.17	69.522		
7,500.00	6,745.62	6,846.87	6,743.85	59.85	29.23	-172.38	-151.54	-969.65	3,816.40	3,761.46	54.94	69.459		
7,600.00	6,831.88	6,919.91	6,816.88	60.85	29.43	-172.48	-151.93	-969.36	3,866.59	3,811.00	55.59	69.555		
7,700.00	6,918.14	6,990.86	6,887.83	61.86	29.63	-172.56	-152.41	-969.37	3,917.14	3,860.91	56.23	69.664		
7,800.00	7,004.41	7,062.72	6,959.68	62.86	29.84	-172.65	-152.91	-969.66	3,968.01	3,911.13	56.88	69.766		
7,900.00	7,090.67	7,133.56	7,030.52	63.87	30.06	-172.73	-153.55	-970.17	4,019.20	3,961.68	57.52	69.876		
8,000.00	7,176.94	7,205.23	7,102.19	64.87	30.28	-172.81	-154.32	-970.90	4,070.71	4,012.54	58.17	69.982		
8,027.52	7,200.68	7,224.95	7,121.90	65.15	30.34	-172.83	-154.53	-971.16	4,084.94	4,026.59	58.35	70.011		
8,050.00	7,220.18	7,244.06	7,141.01	65.37	30.40	-177.45	-154.73	-971.42	4,096.41	4,037.90	58.51	70.013		
8,100.00	7,264.25	7,298.18	7,195.12	65.85	30.56	171.58	-155.37	-972.03	4,120.66	4,061.73	58.93	69.921		
8,150.00	7,308.99	7,344.48	7,241.42	66.28	30.71	159.79	-156.01	-972.39	4,143.00	4,083.70	59.30	69.867		
8,200.00	7,354.07	7,379.87	7,276.80	66.67	30.81	147.61	-156.62	-972.66	4,163.43	4,103.85	59.58	69.875		
8,250.00	7,399.14	7,415.28	7,312.20	67.02	30.92	135.73	-157.35	-972.95	4,181.85	4,122.00	59.86	69.865		
8,300.00	7,443.85	7,476.08	7,372.98	67.32	31.11	124.98	-158.73	-973.37	4,198.05	4,137.78	60.27	69.657		
8,350.00	7,487.88	7,659.75	7,556.61	67.56	31.62	116.44	-161.60	-971.16	4,210.91	4,149.56	61.36	68.632		
8,400.00	7,530.87	7,724.25	7,621.09	67.75	31.79	108.90	-161.72	-969.57	4,220.81	4,159.07	61.74	68.362		
8,450.00	7,572.51	7,829.15	7,725.94	67.90	32.06	103.20	-160.99	-966.35	4,228.01	4,165.68	62.33	67.835		
8,500.00	7,612.48	7,946.08	7,842.72	68.00	32.35	99.01	-158.63	-961.13	4,231.99	4,169.04	62.96	67.222		
8,550.00	7,650.47	8,050.00	7,876.51	68.05	33.85	95.30	-157.66	-959.37	4,233.42	4,168.53	64.89	65.236		
8,600.00	7,686.20	8,008.73	7,905.26	68.06	32.51	92.47	-156.93	-957.90	4,232.74	4,169.42	63.33	66.839		
8,650.00	7,719.39	8,024.13	7,920.64	68.03	32.55	90.29	-156.66	-957.13	4,230.10	4,166.67	63.43	66.692		
8,700.00	7,749.79	8,038.37	7,934.86	67.97	32.58	88.74	-156.50	-956.45	4,225.52	4,162.00	63.52	66.522		
8,750.00	7,777.17	8,051.34	7,947.82	67.87	32.61	87.75	-156.42	-955.85	4,219.07	4,155.46	63.61	66.326		
8,800.00	7,801.32	8,077.00	7,973.45	67.74	32.68	87.41	-156.48	-954.71	4,210.85	4,147.08	63.77	66.028		
8,850.00	7,822.06	8,077.00	7,973.45	67.59	32.68	87.21	-156.48	-954.71	4,200.81	4,137.00	63.81	65.835		
8,900.00	7,839.23	8,077.00	7,973.45	67.41	32.68	87.41	-156.48	-954.71	4,189.17	4,125.32	63.85	65.607		
8,950.00	7,852.69	8,077.00	7,973.45	67.22	32.68	87.98	-156.48	-954.71	4,176.02	4,112.11	63.91	65.342		
9,000.00	7,862.35	8,094.89	7,991.32	67.00	32.73	89.15	-156.67	-953.95	4,161.35	4,097.27	64.09	64.934		

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	8,098.40	7,994.83	66.78	32.74	90.46	-156.72	-953.81	4,145.40	4,081.20	64.20	64.573		
9,098.65	7,870.00	8,099.82	7,996.25	66.55	32.74	92.02	-156.74	-953.75	4,128.71	4,064.40	64.31	64.199		
9,100.00	7,870.00	8,099.83	7,996.27	66.55	32.74	92.02	-156.74	-953.75	4,128.23	4,063.91	64.32	64.187		
9,200.00	7,870.00	8,100.70	7,997.13	66.09	32.74	92.04	-156.76	-953.71	4,093.91	4,029.33	64.58	63.393		
9,300.00	7,870.00	8,101.61	7,998.04	65.65	32.75	92.05	-156.77	-953.68	4,061.77	3,996.88	64.89	62.596		
9,400.00	7,870.00	8,102.56	7,998.99	65.24	32.75	92.06	-156.79	-953.64	4,031.85	3,966.61	65.24	61.798		
9,500.00	7,870.00	8,103.54	7,999.97	64.85	32.75	92.08	-156.80	-953.60	4,004.20	3,938.56	65.64	61.003		
9,600.00	7,870.00	8,104.58	8,001.01	64.48	32.75	92.09	-156.82	-953.55	3,978.88	3,912.80	66.08	60.212		
9,700.00	7,870.00	8,105.66	8,002.09	64.13	32.76	92.11	-156.84	-953.51	3,955.92	3,889.36	66.57	59.429		
9,800.00	7,870.00	8,106.79	8,003.22	63.80	32.76	92.13	-156.86	-953.46	3,935.37	3,868.28	67.09	58.657		
9,900.00	7,870.00	8,107.98	8,004.41	63.50	32.76	92.14	-156.88	-953.42	3,917.27	3,849.61	67.66	57.900		
10,000.00	7,870.00	8,109.23	8,005.65	63.22	32.77	92.16	-156.91	-953.36	3,901.64	3,833.38	68.26	57.161		
10,100.00	7,870.00	8,110.54	8,006.96	62.96	32.77	92.18	-156.93	-953.31	3,888.52	3,819.63	68.89	56.443		
10,200.00	7,870.00	8,111.92	8,008.34	62.72	32.77	92.20	-156.96	-953.26	3,877.94	3,808.38	69.56	55.750		
10,300.00	7,870.00	8,113.38	8,009.80	62.50	32.78	92.22	-156.99	-953.20	3,869.91	3,799.66	70.26	55.084		
10,400.00	7,870.00	8,114.92	8,011.34	62.31	32.78	92.25	-157.03	-953.14	3,864.46	3,793.48	70.98	54.448		
10,500.00	7,870.00	8,116.55	8,012.96	62.15	32.79	92.27	-157.06	-953.07	3,861.58	3,789.87	71.72	53.844		
10,561.08	7,870.00	8,117.59	8,014.00	62.06	32.79	92.29	-157.08	-953.03	3,861.10	3,788.91	72.19	53.487		
10,600.00	7,870.00	8,118.27	8,014.68	62.01	32.79	92.30	-157.10	-953.00	3,861.30	3,788.82	72.48	53.276		
10,700.00	7,870.00	8,120.09	8,016.51	61.90	32.80	92.32	-157.14	-952.93	3,863.60	3,790.35	73.25	52.744		
10,800.00	7,870.00	8,122.04	8,018.45	61.82	32.80	92.35	-157.19	-952.85	3,868.48	3,794.45	74.04	52.251		
10,900.00	7,870.00	8,124.10	8,020.51	61.78	32.81	92.38	-157.24	-952.77	3,875.94	3,801.11	74.83	51.797		
11,000.00	7,870.00	8,126.31	8,022.71	61.77	32.81	92.42	-157.30	-952.69	3,885.96	3,810.33	75.63	51.384		
11,100.00	7,870.00	8,128.67	8,025.07	61.81	32.82	92.45	-157.36	-952.59	3,898.51	3,822.09	76.42	51.013		
11,200.00	7,870.00	8,131.20	8,027.60	61.90	32.83	92.49	-157.43	-952.50	3,913.58	3,836.36	77.22	50.683		
11,300.00	7,870.00	8,133.91	8,030.31	62.03	32.83	92.53	-157.50	-952.39	3,931.14	3,853.13	78.01	50.395		
11,400.00	7,870.00	8,136.84	8,033.23	62.23	32.84	92.57	-157.59	-952.28	3,951.14	3,872.35	78.79	50.150		
11,500.00	7,870.00	8,140.00	8,036.39	62.50	32.85	92.62	-157.69	-952.16	3,973.56	3,894.00	79.56	49.946		
11,600.00	7,870.00	8,143.42	8,039.81	62.84	32.86	92.67	-157.80	-952.03	3,998.36	3,918.04	80.32	49.783		
11,700.00	7,870.00	8,147.15	8,043.53	63.25	32.87	92.72	-157.92	-951.89	4,025.48	3,944.42	81.06	49.661		
11,800.00	7,870.00	8,151.21	8,047.59	63.76	32.88	92.78	-158.06	-951.74	4,054.88	3,973.10	81.79	49.579		
11,900.00	7,870.00	8,155.67	8,052.04	64.34	32.89	92.85	-158.22	-951.57	4,086.52	4,004.02	82.50	49.535		
12,000.00	7,870.00	8,160.57	8,056.93	65.01	32.90	92.92	-158.41	-951.39	4,120.34	4,037.15	83.19	49.530		
12,100.00	7,870.00	8,165.99	8,062.35	65.77	32.92	93.00	-158.63	-951.20	4,156.28	4,072.42	83.86	49.561		
12,200.00	7,870.00	8,172.02	8,068.37	66.61	32.94	93.09	-158.88	-950.98	4,194.30	4,109.78	84.51	49.628		
12,300.00	7,870.00	8,178.76	8,075.10	67.51	32.95	93.19	-159.18	-950.74	4,234.33	4,149.18	85.15	49.729		
12,400.00	7,870.00	8,182.25	8,078.58	68.49	32.96	93.24	-159.28	-950.60	4,276.32	4,190.58	85.74	49.873		
12,500.00	7,870.00	8,187.77	8,084.09	69.52	32.98	93.33	-159.51	-950.39	4,320.21	4,233.89	86.32	50.046		
12,600.00	7,870.00	8,193.33	8,089.64	70.61	32.99	93.41	-159.74	-950.18	4,365.95	4,279.07	86.88	50.252		
12,700.00	7,870.00	8,198.92	8,095.22	71.75	33.01	93.49	-159.96	-949.97	4,413.48	4,326.06	87.41	50.489		
12,800.00	7,870.00	8,204.54	8,100.84	72.93	33.03	93.58	-160.20	-949.76	4,462.73	4,374.80	87.92	50.757		
12,900.00	7,870.00	8,210.21	8,106.50	74.14	33.04	93.66	-160.43	-949.54	4,513.66	4,425.25	88.41	51.053		
13,000.00	7,870.00	8,215.91	8,112.19	75.39	33.06	93.74	-160.67	-949.32	4,566.20	4,477.32	88.88	51.378		
13,100.00	7,870.00	8,221.65	8,117.92	76.67	33.07	93.83	-160.91	-949.09	4,620.31	4,530.99	89.32	51.729		
13,200.00	7,870.00	8,227.43	8,123.69	77.98	33.09	93.91	-161.15	-948.86	4,675.92	4,586.18	89.74	52.106		
13,300.00	7,870.00	8,233.25	8,129.50	79.31	33.11	94.00	-161.39	-948.63	4,732.99	4,642.85	90.14	52.508		
13,400.00	7,870.00	8,239.11	8,135.35	80.67	33.12	94.09	-161.64	-948.40	4,791.46	4,700.94	90.52	52.934		
13,500.00	7,870.00	8,245.01	8,141.24	82.04	33.14	94.17	-161.89	-948.16	4,851.28	4,760.40	90.88	53.382		
13,600.00	7,870.00	8,250.95	8,147.17	83.43	33.15	94.26	-162.14	-947.91	4,912.41	4,821.19	91.22	53.852		
13,700.00	7,870.00	8,256.93	8,153.14	84.84	33.17	94.35	-162.39	-947.67	4,974.79	4,883.24	91.54	54.343		
13,800.00	7,870.00	8,262.95	8,159.14	86.27	33.19	94.44	-162.65	-947.42	5,038.37	4,946.52	91.85	54.854		
13,900.00	7,870.00	8,269.01	8,165.20	87.71	33.20	94.53	-162.91	-947.17	5,103.12	5,010.98	92.14	55.384		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,870.00	8,275.11	8,171.29	89.16	33.22	94.62	-163.17	-946.91	5,168.99	5,076.57	92.41	55.933		
14,100.00	7,870.00	8,269.30	8,165.49	90.63	33.21	94.53	-162.91	-947.16	5,235.95	5,143.32	92.63	56.524		
14,200.00	7,870.00	8,272.35	8,168.54	92.10	33.21	94.58	-163.04	-947.04	5,303.94	5,211.07	92.87	57.114		
14,300.00	7,870.00	8,275.39	8,171.57	93.59	33.22	94.62	-163.17	-946.92	5,372.93	5,279.84	93.09	57.719		
14,400.00	7,870.00	8,278.42	8,174.59	95.09	33.23	94.67	-163.30	-946.80	5,442.88	5,349.58	93.30	58.339		
14,500.00	7,870.00	8,281.43	8,177.60	96.60	33.24	94.71	-163.42	-946.68	5,513.75	5,420.26	93.49	58.975		
14,600.00	7,870.00	8,284.43	8,180.59	98.11	33.25	94.76	-163.55	-946.56	5,585.51	5,491.84	93.68	59.624		
14,700.00	7,870.00	8,287.42	8,183.57	99.64	33.26	94.80	-163.67	-946.44	5,658.13	5,564.28	93.85	60.287		
14,800.00	7,870.00	8,290.39	8,186.54	101.17	33.26	94.85	-163.80	-946.32	5,731.57	5,637.55	94.02	60.963		
14,900.00	7,870.00	8,293.35	8,189.50	102.71	33.27	94.89	-163.92	-946.21	5,805.80	5,711.63	94.17	61.651		
15,000.00	7,870.00	8,296.30	8,192.44	104.26	33.28	94.93	-164.04	-946.09	5,880.80	5,786.48	94.32	62.351		
15,100.00	7,870.00	8,299.24	8,195.38	105.82	33.29	94.98	-164.16	-945.98	5,956.52	5,862.07	94.45	63.063		
15,200.00	7,870.00	8,302.16	8,198.30	107.38	33.30	95.02	-164.28	-945.87	6,032.95	5,938.37	94.58	63.785		
15,300.00	7,870.00	8,305.08	8,201.20	108.95	33.31	95.06	-164.40	-945.76	6,110.06	6,015.36	94.70	64.517		
15,400.00	7,870.00	8,307.97	8,204.10	110.52	33.31	95.11	-164.52	-945.65	6,187.82	6,093.00	94.82	65.260		
15,500.00	7,870.00	8,310.86	8,206.98	112.10	33.32	95.15	-164.64	-945.54	6,266.21	6,171.29	94.93	66.012		
15,600.00	7,870.00	8,313.74	8,209.85	113.69	33.33	95.19	-164.76	-945.43	6,345.21	6,250.18	95.03	66.773		
15,700.00	7,870.00	8,316.60	8,212.71	115.28	33.34	95.23	-164.87	-945.32	6,424.79	6,329.67	95.12	67.542		
15,800.00	7,870.00	8,319.45	8,215.56	116.87	33.35	95.28	-164.99	-945.22	6,504.93	6,409.72	95.21	68.320		
15,900.00	7,870.00	8,322.29	8,218.39	118.47	33.35	95.32	-165.11	-945.11	6,585.62	6,490.32	95.30	69.106		
16,000.00	7,870.00	8,325.12	8,221.22	120.07	33.36	95.36	-165.22	-945.01	6,666.82	6,571.45	95.38	69.900		
16,100.00	7,870.00	8,327.94	8,224.03	121.68	33.37	95.40	-165.33	-944.91	6,748.53	6,653.08	95.45	70.701		
16,200.00	7,870.00	8,330.74	8,226.83	123.30	33.38	95.44	-165.45	-944.81	6,830.73	6,735.20	95.52	71.509		
16,300.00	7,870.00	8,333.53	8,229.62	124.91	33.38	95.48	-165.56	-944.70	6,913.39	6,817.80	95.59	72.323		
16,400.00	7,870.00	8,336.32	8,232.40	126.53	33.39	95.53	-165.67	-944.60	6,996.50	6,900.85	95.65	73.144		
16,500.00	7,870.00	8,339.09	8,235.16	128.16	33.40	95.57	-165.78	-944.51	7,080.05	6,984.33	95.71	73.972		
16,600.00	7,870.00	8,341.84	8,237.92	129.79	33.41	95.61	-165.89	-944.41	7,164.01	7,068.25	95.77	74.805		
16,700.00	7,870.00	8,344.59	8,240.66	131.42	33.42	95.65	-166.00	-944.31	7,248.39	7,152.56	95.82	75.643		
16,800.00	7,870.00	8,347.33	8,243.39	133.05	33.42	95.69	-166.11	-944.21	7,333.15	7,237.28	95.87	76.487		
16,900.00	7,870.00	8,350.00	8,246.05	134.69	33.45	95.85	-166.54	-943.84	7,418.30	7,322.36	95.94	77.320		
17,000.00	7,870.00	8,358.00	8,254.05	136.33	33.45	95.85	-166.54	-943.84	7,503.80	7,407.82	95.98	78.180		
17,100.00	7,870.00	8,358.00	8,254.05	137.97	33.45	95.85	-166.54	-943.84	7,589.66	7,493.64	96.02	79.044		
17,200.00	7,870.00	8,358.00	8,254.05	139.62	33.45	95.85	-166.54	-943.84	7,675.86	7,579.81	96.05	79.913		
17,300.00	7,870.00	8,358.00	8,254.05	141.27	33.45	95.85	-166.54	-943.84	7,762.40	7,666.31	96.09	80.786		
17,400.00	7,870.00	8,358.00	8,254.05	142.92	33.45	95.85	-166.54	-943.84	7,849.25	7,753.13	96.12	81.663		
17,500.00	7,870.00	8,358.00	8,254.05	144.58	33.45	95.85	-166.54	-943.84	7,936.41	7,840.26	96.15	82.544		
17,600.00	7,870.00	8,368.21	8,264.24	146.23	33.48	96.00	-166.93	-943.49	8,023.86	7,927.66	96.20	83.407		
17,700.00	7,870.00	8,370.66	8,266.69	147.89	33.49	96.03	-167.03	-943.41	8,111.61	8,015.37	96.23	84.290		
17,800.00	7,870.00	8,373.09	8,269.12	149.56	33.49	96.07	-167.12	-943.33	8,199.63	8,103.36	96.27	85.177		
17,900.00	7,870.00	8,375.49	8,271.52	151.22	33.50	96.10	-167.21	-943.24	8,287.93	8,191.63	96.30	86.067		
18,000.00	7,870.00	8,377.87	8,273.90	152.89	33.51	96.14	-167.30	-943.16	8,376.48	8,280.16	96.33	86.960		
18,100.00	7,870.00	8,380.23	8,276.25	154.55	33.52	96.17	-167.39	-943.08	8,465.29	8,368.94	96.35	87.856		
18,200.00	7,870.00	8,382.57	8,278.59	156.22	33.52	96.21	-167.48	-943.00	8,554.35	8,457.97	96.38	88.755		
18,300.00	7,870.00	8,384.89	8,280.90	157.90	33.53	96.24	-167.57	-942.92	8,643.65	8,547.24	96.41	89.656		
18,400.00	7,870.00	8,387.18	8,283.19	159.57	33.53	96.28	-167.66	-942.85	8,733.17	8,636.74	96.43	90.560		
18,500.00	7,870.00	8,389.45	8,285.46	161.25	33.54	96.31	-167.74	-942.77	8,822.92	8,726.46	96.46	91.467		
18,600.00	7,870.00	8,391.70	8,287.71	162.93	33.55	96.34	-167.82	-942.69	8,912.89	8,816.41	96.49	92.376		
18,700.00	7,870.00	8,393.93	8,289.94	164.60	33.55	96.38	-167.91	-942.62	9,003.07	8,906.56	96.51	93.287		
18,797.52	7,870.00	8,396.09	8,292.09	166.24	33.56	96.41	-167.98	-942.54	9,091.21	8,994.67	96.53	94.177		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-27.63	218.21	-114.24	246.51					
100.00	100.00	88.37	88.36	0.13	0.15	-27.53	218.68	-113.97	246.60	246.32	0.28	883.287 ES		
200.00	200.00	182.00	181.97	0.49	0.38	-27.24	220.46	-113.50	248.09	247.21	0.88	281.388		
300.00	300.00	271.95	271.79	0.85	0.72	-27.21	224.79	-115.59	253.43	251.85	1.57	160.971		
400.00	400.00	362.80	362.24	1.21	1.06	-27.71	230.94	-121.28	262.32	260.06	2.26	115.978		
500.00	500.00	453.11	451.82	1.57	1.41	-28.39	239.20	-129.29	274.57	271.62	2.95	92.991		
600.00	600.00	542.72	540.27	1.93	1.79	-29.08	249.78	-138.91	290.10	286.47	3.64	79.773		
700.00	700.00	630.61	626.54	2.29	2.20	-29.68	262.64	-149.67	308.88	304.56	4.31	71.612		
800.00	800.00	717.03	710.72	2.64	2.62	-30.28	277.72	-162.13	331.22	326.23	4.98	66.489		
900.00	900.00	802.67	793.44	3.00	3.08	-30.99	294.29	-176.79	356.62	350.98	5.64	63.179		
1,000.00	1,000.00	885.57	872.69	3.36	3.55	-31.69	312.48	-192.94	385.52	379.23	6.29	61.256		
1,100.00	1,099.98	975.86	958.34	3.72	4.11	-86.64	333.70	-212.05	416.64	409.66	6.97	59.743		
1,200.00	1,199.84	1,070.89	1,048.51	4.07	4.70	-87.38	355.85	-232.32	447.65	439.96	7.69	58.179		
1,300.00	1,299.45	1,159.47	1,132.28	4.43	5.27	-88.22	377.28	-251.54	479.73	471.35	8.38	57.269		
1,400.00	1,398.70	1,250.03	1,217.72	4.80	5.87	-89.20	400.10	-271.03	512.79	503.71	9.08	56.461		
1,500.00	1,497.47	1,336.76	1,299.39	5.18	6.45	-90.26	422.31	-290.02	546.83	537.05	9.78	55.935		
1,600.00	1,595.62	1,414.79	1,372.34	5.57	7.00	-91.20	443.46	-307.89	583.22	572.79	10.43	55.935		
1,700.00	1,693.06	1,490.50	1,442.46	6.00	7.55	-92.06	465.73	-325.74	622.45	611.37	11.09	56.141		
1,800.00	1,789.64	1,560.99	1,507.07	6.45	8.09	-92.81	487.71	-343.37	664.71	652.97	11.74	56.622		
1,900.00	1,885.27	1,642.38	1,580.98	6.94	8.74	-93.94	513.31	-365.85	709.87	697.34	12.53	56.664		
2,000.00	1,979.82	1,729.95	1,660.74	7.47	9.45	-95.27	540.25	-389.99	755.73	742.31	13.42	56.315		
2,100.00	2,073.17	1,811.12	1,734.66	8.05	10.10	-96.47	564.68	-412.91	803.03	788.72	14.31	56.133		
2,200.00	2,165.21	1,890.30	1,806.77	8.67	10.74	-97.65	587.88	-435.98	852.01	836.78	15.23	55.951		
2,300.00	2,255.84	1,966.33	1,875.91	9.35	11.36	-98.71	610.15	-458.43	902.91	886.73	16.18	55.820		
2,400.00	2,344.94	2,056.72	1,958.25	10.09	12.10	-100.11	636.71	-484.60	955.16	937.84	17.32	55.156		
2,500.00	2,432.39	2,163.71	2,056.55	10.89	12.94	-101.90	667.51	-513.49	1,007.53	988.86	18.67	53.967		
2,519.29	2,449.07	2,178.43	2,070.14	11.05	13.05	-102.07	671.69	-517.28	1,017.64	998.75	18.88	53.896		
2,600.00	2,518.69	2,248.71	2,135.14	11.74	13.59	-103.92	691.70	-534.99	1,060.13	1,040.28	19.86	53.390		
2,700.00	2,604.95	2,330.80	2,211.17	12.62	14.21	-105.88	715.22	-555.12	1,113.32	1,092.29	21.03	52.939		
2,800.00	2,691.22	2,408.05	2,282.78	13.52	14.79	-107.59	737.23	-573.98	1,167.28	1,145.12	22.16	52.665		
2,900.00	2,777.48	2,489.52	2,358.40	14.43	15.40	-109.28	759.85	-594.16	1,222.06	1,198.72	23.34	52.359		
3,000.00	2,863.75	2,570.57	2,433.73	15.35	16.00	-110.83	782.28	-613.95	1,277.23	1,252.72	24.51	52.105		
3,100.00	2,950.01	2,648.64	2,506.23	16.28	16.58	-112.19	804.22	-632.82	1,333.00	1,307.35	25.66	51.955		
3,200.00	3,036.27	2,726.24	2,578.32	17.22	17.16	-113.45	825.90	-651.67	1,389.34	1,362.55	26.80	51.850		
3,300.00	3,122.54	2,803.87	2,650.51	18.17	17.74	-114.64	847.20	-670.71	1,446.20	1,418.28	27.93	51.782		
3,400.00	3,208.80	2,888.48	2,729.31	19.13	18.36	-115.87	869.92	-691.47	1,503.36	1,474.24	29.13	51.615		
3,500.00	3,295.07	2,972.17	2,807.46	20.09	18.97	-117.02	891.90	-711.83	1,560.61	1,530.30	30.31	51.493		
3,600.00	3,381.33	3,047.84	2,878.23	21.05	19.52	-118.01	911.35	-730.26	1,618.11	1,586.71	31.40	51.533		
3,700.00	3,467.59	3,118.84	2,944.57	22.02	20.04	-118.88	929.57	-747.79	1,676.22	1,643.78	32.44	51.670		
3,800.00	3,553.86	3,189.60	3,010.38	22.99	20.56	-119.66	948.81	-765.29	1,735.02	1,701.53	33.48	51.821		
3,900.00	3,640.12	3,275.08	3,089.69	23.97	21.20	-120.51	972.93	-786.14	1,794.03	1,759.34	34.69	51.716		
4,000.00	3,726.38	3,338.69	3,148.67	24.95	21.68	-121.10	990.92	-801.76	1,853.40	1,817.74	35.66	51.981		
4,100.00	3,812.65	3,415.94	3,220.23	25.93	22.27	-121.80	1,012.49	-821.27	1,913.44	1,876.67	36.77	52.041		
4,200.00	3,898.91	3,502.51	3,300.60	26.91	22.92	-122.54	1,036.43	-842.80	1,973.31	1,935.33	37.98	51.957		
4,300.00	3,985.18	3,584.28	3,376.61	27.90	23.53	-123.20	1,058.79	-863.00	2,033.15	1,994.02	39.13	51.955		
4,400.00	4,071.44	3,667.75	3,454.34	28.88	24.15	-123.85	1,081.24	-883.54	2,093.00	2,052.70	40.30	51.935		
4,500.00	4,157.70	3,775.27	3,554.71	29.87	24.93	-124.65	1,109.75	-909.47	2,152.62	2,110.90	41.72	51.593		
4,600.00	4,243.97	3,875.63	3,649.07	30.86	25.63	-125.36	1,135.59	-931.86	2,210.59	2,167.54	43.06	51.340		
4,700.00	4,330.23	3,930.00	3,700.00	31.85	26.02	-125.71	1,150.03	-944.25	2,269.36	2,225.46	43.89	51.701		
4,800.00	4,416.49	3,974.85	3,741.79	32.84	26.35	-125.98	1,162.25	-954.98	2,329.25	2,284.63	44.62	52.200		
4,900.00	4,502.76	4,023.00	3,786.44	33.84	26.71	-126.27	1,175.56	-967.16	2,390.37	2,344.99	45.38	52.679		
5,000.00	4,589.02	4,068.40	3,828.38	34.83	27.06	-126.53	1,188.10	-979.20	2,452.57	2,406.48	46.09	53.213		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	4,117.00	3,873.19	35.82	27.44	-126.81	1,201.25	-992.64	2,515.71	2,468.88	46.83	53.718		
5,200.00	4,761.55	4,177.71	3,929.02	36.82	27.93	-127.15	1,217.69	-1,009.92	2,579.58	2,531.86	47.72	54.058		
5,300.00	4,847.81	4,292.36	4,034.36	37.82	28.83	-127.74	1,249.23	-1,042.37	2,643.61	2,594.33	49.27	53.651		
5,400.00	4,934.08	4,343.50	4,081.52	38.81	29.24	-128.00	1,263.10	-1,056.45	2,706.96	2,656.92	50.04	54.094		
5,500.00	5,020.34	4,397.00	4,130.71	39.81	29.66	-128.27	1,277.28	-1,072.00	2,771.38	2,720.55	50.83	54.521		
5,600.00	5,106.60	4,439.54	4,169.69	40.81	30.00	-128.48	1,288.59	-1,084.75	2,836.55	2,785.07	51.48	55.097		
5,700.00	5,192.87	4,537.38	4,259.04	41.81	30.80	-128.91	1,315.55	-1,114.12	2,902.15	2,849.31	52.84	54.928		
5,800.00	5,279.13	4,734.21	4,440.67	42.81	32.33	-129.71	1,369.83	-1,166.98	2,964.73	2,909.32	55.40	53.512		
5,900.00	5,365.40	4,798.30	4,499.94	43.81	32.83	-129.93	1,388.09	-1,183.10	3,026.61	2,970.27	56.35	53.715		
6,000.00	5,451.66	4,843.72	4,541.75	44.81	33.18	-130.08	1,401.35	-1,194.91	3,089.26	3,032.21	57.06	54.142		
6,100.00	5,537.92	4,887.28	4,581.65	45.81	33.53	-130.21	1,414.31	-1,206.63	3,152.75	3,095.01	57.74	54.600		
6,200.00	5,624.19	4,929.04	4,619.84	46.81	33.87	-130.34	1,426.51	-1,218.34	3,217.08	3,158.68	58.40	55.090		
6,300.00	5,710.45	5,187.60	4,859.68	47.81	35.83	-131.24	1,495.39	-1,285.78	3,279.52	3,217.86	61.66	53.187		
6,400.00	5,796.72	5,711.99	5,365.32	48.81	38.78	-133.52	1,594.62	-1,377.91	3,333.99	3,267.29	66.70	49.988		
6,500.00	5,882.98	5,938.46	5,589.50	49.81	39.62	-134.74	1,617.39	-1,400.20	3,382.10	3,313.62	68.48	49.388		
6,600.00	5,969.24	6,066.19	5,716.62	50.82	40.02	-135.47	1,625.41	-1,409.61	3,428.01	3,358.44	69.58	49.268		
6,700.00	6,055.51	6,263.67	5,913.72	51.82	40.54	-136.66	1,631.74	-1,419.84	3,472.04	3,401.15	70.89	48.980		
6,800.00	6,141.77	6,469.54	6,119.54	52.82	40.93	-137.94	1,631.47	-1,423.43	3,512.94	3,440.89	72.05	48.756 SF		
6,900.00	6,228.03	6,531.11	6,181.11	53.83	41.05	-138.30	1,631.68	-1,423.85	3,553.62	3,480.85	72.77	48.832		
7,000.00	6,314.30	6,595.98	6,245.97	54.83	41.18	-138.68	1,632.18	-1,424.71	3,595.13	3,521.63	73.50	48.915		
7,100.00	6,400.56	6,675.72	6,325.69	55.83	41.35	-139.13	1,633.00	-1,426.16	3,637.31	3,563.04	74.26	48.977		
7,200.00	6,486.83	6,881.42	6,531.37	56.84	41.75	-140.26	1,634.29	-1,426.04	3,677.87	3,602.46	75.41	48.774		
7,300.00	6,573.09	6,950.60	6,600.55	57.84	41.88	-140.64	1,634.43	-1,425.17	3,717.86	3,641.74	76.12	48.841		
7,400.00	6,659.35	7,016.00	6,665.94	58.84	42.00	-140.99	1,634.28	-1,424.67	3,758.51	3,681.70	76.81	48.932		
7,500.00	6,745.62	7,081.20	6,731.14	59.85	42.12	-141.34	1,633.91	-1,424.53	3,799.88	3,722.39	77.49	49.038		
7,600.00	6,831.88	7,145.32	6,795.25	60.85	42.24	-141.68	1,633.45	-1,424.79	3,841.99	3,763.83	78.15	49.160		
7,700.00	6,918.14	7,210.86	6,860.79	61.86	42.36	-142.02	1,633.11	-1,425.41	3,884.78	3,805.96	78.81	49.290		
7,800.00	7,004.41	7,277.05	6,926.98	62.86	42.50	-142.36	1,632.80	-1,426.37	3,928.21	3,848.74	79.47	49.429		
7,900.00	7,090.67	7,342.92	6,992.83	63.87	42.63	-142.69	1,632.43	-1,427.65	3,972.26	3,892.14	80.12	49.578		
8,000.00	7,176.94	7,429.29	7,079.18	64.87	42.81	-143.12	1,631.85	-1,429.68	4,016.87	3,936.03	80.84	49.690		
8,027.52	7,200.68	7,467.73	7,117.61	65.15	42.89	-143.31	1,631.50	-1,430.44	4,029.09	3,948.00	81.09	49.687		
8,050.00	7,220.18	7,499.38	7,149.26	65.37	42.96	-147.96	1,631.17	-1,430.94	4,039.05	3,957.75	81.29	49.686		
8,100.00	7,264.25	7,526.10	7,175.97	65.85	43.01	-159.07	1,630.86	-1,431.44	4,061.46	3,979.91	81.55	49.803		
8,150.00	7,308.99	7,561.65	7,211.51	66.28	43.08	-171.35	1,630.38	-1,432.14	4,084.05	4,002.25	81.80	49.925		
8,200.00	7,354.07	7,577.00	7,226.85	66.67	43.11	175.73	1,630.16	-1,432.46	4,106.71	4,024.77	81.94	50.119		
8,250.00	7,399.14	7,613.64	7,263.47	67.02	43.20	162.90	1,629.81	-1,433.41	4,129.23	4,047.10	82.12	50.280		
8,300.00	7,443.85	7,636.59	7,286.41	67.32	43.25	150.86	1,629.78	-1,434.17	4,151.59	4,069.37	82.22	50.496		
8,350.00	7,487.88	8,013.40	7,662.90	67.56	43.99	141.69	1,626.21	-1,431.27	4,170.71	4,087.24	83.47	49.964		
8,400.00	7,530.87	8,045.00	7,694.46	67.75	44.05	132.85	1,625.88	-1,429.89	4,188.49	4,104.95	83.55	50.134		
8,450.00	7,572.51	8,080.94	7,730.37	67.90	44.11	125.41	1,625.59	-1,428.39	4,205.64	4,122.04	83.60	50.305		
8,500.00	7,612.48	8,112.98	7,762.38	68.00	44.17	119.17	1,625.40	-1,427.14	4,222.08	4,138.46	83.62	50.489		
8,550.00	7,650.47	8,144.38	7,793.76	68.05	44.23	113.96	1,625.25	-1,425.97	4,237.73	4,154.11	83.62	50.678		
8,600.00	7,686.20	8,178.36	7,827.73	68.06	44.30	109.63	1,625.19	-1,424.75	4,252.50	4,168.89	83.61	50.862		
8,650.00	7,719.39	8,209.76	7,859.10	68.03	44.36	106.01	1,625.22	-1,423.64	4,266.32	4,182.75	83.57	51.049		
8,700.00	7,749.79	8,239.23	7,888.55	67.97	44.41	102.98	1,625.32	-1,422.62	4,279.17	4,195.65	83.52	51.235		
8,750.00	7,777.17	8,268.53	7,917.84	67.87	44.47	100.48	1,625.47	-1,421.59	4,290.99	4,207.53	83.46	51.413		
8,800.00	7,801.32	8,294.27	7,943.55	67.74	44.52	98.39	1,625.62	-1,420.69	4,301.77	4,218.39	83.38	51.590		
8,850.00	7,822.06	8,316.25	7,965.52	67.59	44.57	96.65	1,625.77	-1,419.90	4,311.49	4,228.20	83.29	51.762		
8,900.00	7,839.23	8,334.32	7,983.58	67.41	44.60	95.22	1,625.91	-1,419.25	4,320.14	4,236.95	83.19	51.930		
8,950.00	7,852.69	8,343.62	7,992.88	67.22	44.62	94.01	1,625.98	-1,418.93	4,327.72	4,244.66	83.06	52.101		
9,000.00	7,862.35	8,351.44	8,000.69	67.00	44.64	93.07	1,626.04	-1,418.65	4,334.20	4,251.27	82.94	52.259		
9,050.00	7,868.14	8,355.97	8,005.22	66.78	44.65	92.38	1,626.08	-1,418.50	4,339.57	4,256.76	82.81	52.406		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,098.65	7,870.00	8,357.20	8,006.45	66.55	44.65	91.94	1,626.09	-1,418.46	4,343.69	4,261.01	82.68	52.538		
9,100.00	7,870.00	8,357.19	8,006.44	66.55	44.65	91.94	1,626.09	-1,418.46	4,343.79	4,261.12	82.67	52.541		
9,200.00	7,870.00	8,356.50	8,005.75	66.09	44.65	91.93	1,626.08	-1,418.48	4,352.31	4,269.89	82.42	52.806		
9,300.00	7,870.00	8,355.81	8,005.06	65.65	44.65	91.92	1,626.08	-1,418.50	4,363.11	4,280.92	82.19	53.088		
9,400.00	7,870.00	8,355.12	8,004.37	65.24	44.64	91.91	1,626.07	-1,418.53	4,376.17	4,294.19	81.97	53.385		
9,500.00	7,870.00	8,354.44	8,003.69	64.85	44.64	91.90	1,626.07	-1,418.55	4,391.46	4,309.68	81.78	53.697		
9,600.00	7,870.00	8,353.76	8,003.01	64.48	44.64	91.89	1,626.06	-1,418.57	4,408.97	4,327.36	81.61	54.024		
9,700.00	7,870.00	8,353.08	8,002.33	64.13	44.64	91.88	1,626.05	-1,418.60	4,428.67	4,347.21	81.46	54.365		
9,800.00	7,870.00	8,352.40	8,001.65	63.80	44.64	91.87	1,626.05	-1,418.62	4,450.53	4,369.20	81.33	54.720		
9,900.00	7,870.00	8,351.73	8,000.98	63.50	44.64	91.86	1,626.04	-1,418.64	4,474.52	4,393.29	81.22	55.088		
10,000.00	7,870.00	8,351.06	8,000.31	63.22	44.64	91.86	1,626.04	-1,418.67	4,500.60	4,419.46	81.14	55.470		
10,100.00	7,870.00	8,350.39	7,999.64	62.96	44.63	91.85	1,626.03	-1,418.69	4,528.74	4,447.67	81.07	55.865		
10,200.00	7,870.00	8,349.73	7,998.98	62.72	44.63	91.84	1,626.03	-1,418.71	4,558.90	4,477.88	81.02	56.271		
10,300.00	7,870.00	8,349.07	7,998.32	62.50	44.63	91.83	1,626.02	-1,418.74	4,591.04	4,510.06	80.98	56.690		
10,400.00	7,870.00	8,348.41	7,997.66	62.31	44.63	91.82	1,626.02	-1,418.76	4,625.12	4,544.15	80.97	57.121		
10,500.00	7,870.00	8,347.76	7,997.01	62.15	44.63	91.81	1,626.01	-1,418.78	4,661.10	4,580.13	80.97	57.564		
10,600.00	7,870.00	8,347.10	7,996.36	62.01	44.63	91.80	1,626.01	-1,418.81	4,698.93	4,617.94	80.99	58.017		
10,700.00	7,870.00	8,346.45	7,995.71	61.90	44.63	91.80	1,626.00	-1,418.83	4,738.57	4,657.54	81.03	58.482		
10,800.00	7,870.00	8,345.81	7,995.06	61.82	44.62	91.79	1,626.00	-1,418.85	4,779.97	4,698.89	81.08	58.957		
10,900.00	7,870.00	8,345.16	7,994.42	61.78	44.62	91.78	1,625.99	-1,418.87	4,823.09	4,741.95	81.14	59.443		
11,000.00	7,870.00	8,344.52	7,993.78	61.77	44.62	91.77	1,625.99	-1,418.90	4,867.88	4,786.67	81.21	59.939		
11,100.00	7,870.00	8,343.88	7,993.14	61.81	44.62	91.76	1,625.98	-1,418.92	4,914.30	4,833.00	81.30	60.445		
11,200.00	7,870.00	8,343.25	7,992.50	61.90	44.62	91.75	1,625.98	-1,418.94	4,962.30	4,880.90	81.40	60.962		
11,300.00	7,870.00	8,342.62	7,991.87	62.03	44.62	91.74	1,625.97	-1,418.96	5,011.84	4,930.33	81.51	61.487		
11,400.00	7,870.00	8,341.99	7,991.24	62.23	44.62	91.74	1,625.97	-1,418.99	5,062.86	4,981.23	81.63	62.022		
11,500.00	7,870.00	8,341.36	7,990.62	62.50	44.62	91.73	1,625.96	-1,419.01	5,115.33	5,033.58	81.76	62.567		
11,600.00	7,870.00	8,340.73	7,989.99	62.84	44.61	91.72	1,625.96	-1,419.03	5,169.21	5,087.31	81.89	63.120		
11,700.00	7,870.00	8,340.11	7,989.37	63.25	44.61	91.71	1,625.95	-1,419.05	5,224.44	5,142.40	82.04	63.683		
11,800.00	7,870.00	8,339.49	7,988.75	63.76	44.61	91.70	1,625.95	-1,419.07	5,280.99	5,198.80	82.19	64.254		
11,900.00	7,870.00	8,338.87	7,988.13	64.34	44.61	91.69	1,625.94	-1,419.09	5,338.81	5,256.47	82.35	64.833		
12,000.00	7,870.00	8,338.26	7,987.52	65.01	44.61	91.69	1,625.94	-1,419.12	5,397.87	5,315.36	82.51	65.421		
12,100.00	7,870.00	8,337.65	7,986.91	65.77	44.61	91.68	1,625.93	-1,419.14	5,458.12	5,375.44	82.68	66.017		
12,200.00	7,870.00	8,337.04	7,986.30	66.61	44.61	91.67	1,625.93	-1,419.16	5,519.53	5,436.68	82.85	66.621		
12,300.00	7,870.00	8,336.43	7,985.69	67.51	44.61	91.66	1,625.92	-1,419.18	5,582.05	5,499.02	83.03	67.232		
12,400.00	7,870.00	8,335.83	7,985.09	68.49	44.60	91.65	1,625.92	-1,419.20	5,645.64	5,562.44	83.21	67.852		
12,500.00	7,870.00	8,335.23	7,984.49	69.52	44.60	91.65	1,625.91	-1,419.22	5,710.29	5,626.90	83.39	68.479		
12,600.00	7,870.00	8,334.63	7,983.89	70.61	44.60	91.64	1,625.91	-1,419.25	5,775.94	5,692.36	83.57	69.113		
12,700.00	7,870.00	8,334.03	7,983.30	71.75	44.60	91.63	1,625.90	-1,419.27	5,842.56	5,758.80	83.76	69.754		
12,800.00	7,870.00	8,333.44	7,982.70	72.93	44.60	91.62	1,625.90	-1,419.29	5,910.12	5,826.18	83.95	70.403		
12,900.00	7,870.00	8,332.85	7,982.11	74.14	44.60	91.62	1,625.89	-1,419.31	5,978.60	5,894.46	84.14	71.058		
13,000.00	7,870.00	8,332.26	7,981.52	75.39	44.60	91.61	1,625.89	-1,419.33	6,047.95	5,963.62	84.33	71.720		
13,100.00	7,870.00	8,331.67	7,980.94	76.67	44.60	91.60	1,625.88	-1,419.35	6,118.15	6,033.63	84.52	72.388		
13,200.00	7,870.00	8,331.09	7,980.35	77.98	44.60	91.59	1,625.88	-1,419.37	6,189.17	6,104.46	84.71	73.063		
13,300.00	7,870.00	8,330.51	7,979.77	79.31	44.59	91.58	1,625.88	-1,419.39	6,260.98	6,176.08	84.90	73.744		
13,400.00	7,870.00	8,329.93	7,979.19	80.67	44.58	91.57	1,625.87	-1,419.41	6,333.56	6,248.47	85.08	74.439		
13,500.00	7,870.00	8,329.35	7,978.61	82.04	44.59	91.58	1,625.87	-1,419.43	6,406.87	6,321.58	85.29	75.123		
13,600.00	7,870.00	8,328.76	7,978.03	83.43	44.59	91.57	1,625.87	-1,419.45	6,480.90	6,395.42	85.48	75.822		
13,700.00	7,870.00	8,328.18	7,977.45	84.84	44.59	91.56	1,625.86	-1,419.47	6,555.62	6,469.95	85.66	76.527		
13,800.00	7,870.00	8,327.60	7,976.87	86.27	44.59	91.55	1,625.86	-1,419.49	6,631.00	6,545.15	85.85	77.237		
13,900.00	7,870.00	8,327.02	7,976.29	87.71	44.59	91.54	1,625.85	-1,419.51	6,707.03	6,620.99	86.04	77.952		
14,000.00	7,870.00	8,326.44	7,975.71	89.16	44.59	91.53	1,625.85	-1,419.53	6,783.68	6,697.45	86.23	78.673		
14,100.00	7,870.00	8,325.86	7,975.13	90.63	44.58	91.52	1,625.84	-1,419.55	6,860.93	6,774.51	86.41	79.398		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,200.00	7,870.00	8,325.25	7,974.52	92.10	44.58	91.51	1,625.84	-1,419.58	6,938.76	6,852.16	86.60	80.129		
14,300.00	7,870.00	8,324.58	7,973.85	93.59	44.58	91.51	1,625.83	-1,419.60	7,017.15	6,930.37	86.78	80.864		
14,400.00	7,870.00	8,323.92	7,973.19	95.09	44.58	91.50	1,625.83	-1,419.63	7,096.09	7,009.13	86.96	81.604		
14,500.00	7,870.00	8,323.26	7,972.53	96.60	44.58	91.49	1,625.82	-1,419.65	7,175.55	7,088.41	87.14	82.348		
14,600.00	7,870.00	8,322.60	7,971.87	98.11	44.58	91.48	1,625.82	-1,419.67	7,255.52	7,168.20	87.31	83.097		
14,700.00	7,870.00	8,321.95	7,971.22	99.64	44.58	91.47	1,625.81	-1,419.70	7,335.98	7,248.49	87.49	83.850		
14,800.00	7,870.00	8,321.30	7,970.57	101.17	44.58	91.46	1,625.81	-1,419.72	7,416.92	7,329.25	87.66	84.607		
14,900.00	7,870.00	8,320.65	7,969.92	102.71	44.57	91.45	1,625.80	-1,419.74	7,498.31	7,410.48	87.84	85.368		
15,000.00	7,870.00	8,320.01	7,969.28	104.26	44.57	91.45	1,625.80	-1,419.77	7,580.15	7,492.15	88.01	86.132		
15,100.00	7,870.00	8,319.37	7,968.65	105.82	44.57	91.44	1,625.79	-1,419.79	7,662.43	7,574.25	88.17	86.901		
15,200.00	7,870.00	8,318.74	7,968.01	107.38	44.57	91.43	1,625.79	-1,419.81	7,745.12	7,656.78	88.34	87.673		
15,300.00	7,870.00	8,318.11	7,967.38	108.95	44.57	91.42	1,625.79	-1,419.84	7,828.21	7,739.70	88.51	88.449		
15,400.00	7,870.00	8,317.48	7,966.76	110.52	44.57	91.41	1,625.78	-1,419.86	7,911.69	7,823.03	88.67	89.228		
15,500.00	7,870.00	8,316.86	7,966.13	112.10	44.57	91.40	1,625.78	-1,419.88	7,995.56	7,906.73	88.83	90.010		
15,600.00	7,870.00	8,316.24	7,965.51	113.69	44.57	91.40	1,625.77	-1,419.90	8,079.79	7,990.80	88.99	90.795		
15,700.00	7,870.00	8,315.62	7,964.90	115.28	44.56	91.39	1,625.77	-1,419.92	8,164.38	8,075.23	89.15	91.584		
15,800.00	7,870.00	8,315.01	7,964.28	116.87	44.56	91.38	1,625.76	-1,419.95	8,249.31	8,160.00	89.30	92.375		
15,900.00	7,870.00	8,314.40	7,963.68	118.47	44.56	91.37	1,625.76	-1,419.97	8,334.57	8,245.12	89.46	93.169		
16,000.00	7,870.00	8,313.79	7,963.07	120.07	44.56	91.36	1,625.76	-1,419.99	8,420.16	8,330.55	89.61	93.966		
16,100.00	7,870.00	8,313.19	7,962.47	121.68	44.56	91.36	1,625.75	-1,420.01	8,506.07	8,416.31	89.76	94.766		
16,200.00	7,870.00	8,312.59	7,961.87	123.30	44.56	91.35	1,625.75	-1,420.03	8,592.28	8,502.37	89.91	95.568		
16,300.00	7,870.00	8,312.00	7,961.27	124.91	44.56	91.34	1,625.74	-1,420.05	8,678.78	8,588.73	90.05	96.373		
16,400.00	7,870.00	8,311.40	7,960.68	126.53	44.56	91.33	1,625.74	-1,420.08	8,765.57	8,675.37	90.20	97.180		
16,500.00	7,870.00	8,310.81	7,960.09	128.16	44.55	91.32	1,625.73	-1,420.10	8,852.64	8,762.30	90.34	97.989		
16,600.00	7,870.00	8,310.23	7,959.51	129.79	44.55	91.32	1,625.73	-1,420.12	8,939.98	8,849.50	90.49	98.800		
16,700.00	7,870.00	8,309.64	7,958.92	131.42	44.55	91.31	1,625.73	-1,420.14	9,027.59	8,936.96	90.63	99.614		
16,800.00	7,870.00	8,309.07	7,958.34	133.05	44.55	91.30	1,625.72	-1,420.16	9,115.45	9,024.68	90.77	100.429		
16,900.00	7,870.00	8,308.49	7,957.77	134.69	44.55	91.29	1,625.72	-1,420.18	9,203.55	9,112.65	90.90	101.246		
17,000.00	7,870.00	8,307.92	7,957.20	136.33	44.55	91.29	1,625.71	-1,420.20	9,291.90	9,200.86	91.04	102.066		
17,100.00	7,870.00	8,307.35	7,956.63	137.97	44.55	91.28	1,625.71	-1,420.22	9,380.48	9,289.31	91.17	102.887		
17,200.00	7,870.00	8,306.78	7,956.06	139.62	44.55	91.27	1,625.71	-1,420.24	9,469.29	9,377.99	91.31	103.709		
17,300.00	7,870.00	8,306.21	7,955.49	141.27	44.55	91.26	1,625.70	-1,420.26	9,558.32	9,466.88	91.44	104.534		
17,400.00	7,870.00	8,305.65	7,954.93	142.92	44.54	91.26	1,625.70	-1,420.28	9,647.57	9,556.00	91.57	105.360		
17,500.00	7,870.00	8,305.09	7,954.38	144.58	44.54	91.25	1,625.70	-1,420.30	9,737.02	9,645.32	91.70	106.187		
17,600.00	7,870.00	8,304.54	7,953.82	146.23	44.54	91.24	1,625.69	-1,420.32	9,826.68	9,734.85	91.82	107.016		
17,700.00	7,870.00	8,303.99	7,953.27	147.89	44.54	91.23	1,625.69	-1,420.34	9,916.53	9,824.58	91.95	107.846		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-23.45	218.21	-94.64	238.06					
100.00	100.00	89.24	89.24	0.13	0.14	-23.43	218.36	-94.65	237.99	237.71	0.28	851.396 CC		
200.00	200.00	187.33	187.32	0.49	0.40	-23.30	219.12	-94.38	238.60	237.71	0.89	266.849 ES		
300.00	300.00	282.83	282.75	0.85	0.75	-22.59	221.98	-92.36	240.53	238.94	1.60	150.437		
400.00	400.00	378.54	378.23	1.21	1.10	-21.33	227.54	-88.87	244.56	242.25	2.31	105.893		
500.00	500.00	472.86	472.03	1.57	1.46	-19.42	235.55	-83.03	250.41	247.38	3.02	82.805		
600.00	600.00	564.41	562.59	1.93	1.83	-16.99	246.50	-75.32	259.21	255.47	3.74	69.279		
700.00	700.00	653.94	650.64	2.29	2.22	-14.43	260.35	-66.98	271.70	267.25	4.45	60.998		
800.00	800.00	746.80	741.46	2.64	2.65	-11.82	277.53	-58.09	287.67	282.49	5.18	55.529		
900.00	900.00	838.65	831.03	3.00	3.09	-9.43	295.81	-49.13	305.61	299.71	5.90	51.814		
1,000.00	1,000.00	929.58	919.33	3.36	3.55	-7.35	315.80	-40.76	326.17	319.56	6.61	49.355		
1,100.00	1,099.98	1,026.53	1,013.27	3.72	4.04	-59.97	338.27	-32.41	347.53	340.19	7.33	47.383		
1,200.00	1,199.84	1,125.94	1,109.72	4.07	4.56	-58.66	360.77	-23.90	366.81	358.72	8.09	45.359		
1,300.00	1,299.45	1,227.96	1,208.73	4.43	5.09	-57.79	383.41	-14.20	383.88	375.01	8.87	43.297		
1,400.00	1,398.70	1,334.81	1,312.83	4.80	5.63	-57.58	405.51	-4.68	397.64	387.95	9.69	41.048		
1,500.00	1,497.47	1,423.18	1,398.93	5.18	6.08	-57.83	423.95	2.76	409.77	399.36	10.41	39.367		
1,600.00	1,595.62	1,519.02	1,491.83	5.57	6.58	-58.34	445.79	11.61	421.99	410.78	11.21	37.648		
1,700.00	1,693.06	1,611.93	1,581.44	6.00	7.09	-58.92	467.99	22.03	433.47	421.44	12.03	36.042		
1,800.00	1,789.64	1,716.46	1,682.05	6.45	7.68	-59.83	493.29	34.88	443.50	430.52	12.98	34.177		
1,900.00	1,885.27	1,821.60	1,783.57	6.94	8.26	-61.18	517.44	47.73	450.74	436.76	13.98	32.247		
2,000.00	1,979.82	1,932.90	1,891.67	7.47	8.84	-63.19	540.51	60.67	454.49	439.42	15.07	30.152		
2,100.00	2,073.17	2,041.98	1,998.37	8.05	9.38	-65.87	560.09	71.96	454.78	438.57	16.21	28.058		
2,200.00	2,165.21	2,144.94	2,099.77	8.67	9.85	-69.22	575.97	80.14	452.80	435.41	17.38	26.047		
2,300.00	2,255.84	2,241.88	2,195.20	9.35	10.29	-72.67	590.50	89.06	450.44	431.82	18.61	24.200		
2,392.28	2,338.12	2,325.00	2,276.89	10.04	10.68	-75.87	603.48	97.25	449.33	429.53	19.80	22.691		
2,400.00	2,344.94	2,331.75	2,283.51	10.09	10.72	-76.14	604.60	97.95	449.34	429.44	19.90	22.578		
2,500.00	2,432.39	2,421.56	2,371.41	10.89	11.15	-79.77	620.37	107.50	450.92	429.64	21.28	21.191		
2,519.29	2,449.07	2,439.12	2,388.58	11.05	11.24	-80.51	623.54	109.36	451.51	429.95	21.55	20.947		
2,600.00	2,518.69	2,515.62	2,463.36	11.74	11.62	-83.78	637.44	117.47	455.01	432.27	22.74	20.008		
2,700.00	2,604.95	2,607.07	2,552.77	12.62	12.07	-87.61	654.02	127.26	461.51	437.32	24.19	19.077		
2,800.00	2,691.22	2,697.02	2,640.51	13.52	12.53	-91.20	671.38	136.80	471.29	445.67	25.61	18.399		
2,900.00	2,777.48	2,808.05	2,748.93	14.43	13.08	-95.49	692.09	148.67	482.86	455.71	27.15	17.786		
3,000.00	2,863.75	2,906.36	2,845.25	15.35	13.56	-99.20	707.36	161.08	492.95	464.40	28.55	17.269		
3,100.00	2,950.01	2,996.83	2,933.72	16.28	14.00	-102.39	722.36	172.67	505.57	475.72	29.85	16.936		
3,200.00	3,036.27	3,096.76	3,031.12	17.22	14.51	-105.60	740.05	186.20	520.05	488.86	31.18	16.677		
3,300.00	3,122.54	3,184.01	3,115.82	18.17	14.97	-108.09	756.55	199.11	535.67	503.26	32.41	16.529		
3,400.00	3,208.80	3,277.03	3,206.34	19.13	15.45	-110.70	774.21	211.25	553.91	520.30	33.61	16.480 SF		
3,500.00	3,295.07	3,369.85	3,297.01	20.09	15.92	-113.30	790.52	222.57	573.39	538.65	34.75	16.502		
3,600.00	3,381.33	3,453.51	3,378.49	21.05	16.35	-115.39	806.58	232.63	594.89	559.11	35.78	16.624		
3,700.00	3,467.59	3,552.57	3,474.90	22.02	16.86	-117.66	826.61	243.41	618.73	581.81	36.93	16.755		
3,800.00	3,553.86	3,650.84	3,570.53	22.99	17.37	-119.76	845.67	255.58	641.74	603.70	38.04	16.870		
3,900.00	3,640.12	3,749.52	3,666.30	23.97	17.90	-121.63	865.80	268.28	665.40	626.25	39.15	16.996		
4,000.00	3,726.38	3,838.84	3,753.15	24.95	18.37	-123.27	883.27	279.69	689.51	649.36	40.15	17.175		
4,100.00	3,812.65	3,941.03	3,852.19	25.93	18.92	-124.91	904.72	292.76	714.58	673.31	41.27	17.314		
4,200.00	3,898.91	4,022.81	3,931.11	26.91	19.37	-126.03	923.11	303.83	739.84	697.61	42.22	17.521		
4,300.00	3,985.18	4,110.06	4,015.90	27.90	19.83	-127.30	941.36	313.31	767.46	724.29	43.17	17.777		
4,400.00	4,071.44	4,200.52	4,103.90	28.88	20.30	-128.56	959.99	322.87	795.72	751.60	44.12	18.034		
4,500.00	4,157.70	4,297.34	4,198.35	29.87	20.79	-129.90	979.01	332.39	824.87	779.77	45.10	18.290		
4,600.00	4,243.97	4,409.03	4,307.68	30.86	21.34	-131.50	998.37	344.50	853.09	806.95	46.14	18.488		
4,700.00	4,330.23	4,495.53	4,392.47	31.85	21.75	-132.72	1,012.21	354.54	880.82	833.88	46.93	18.768		
4,800.00	4,416.49	4,573.82	4,469.43	32.84	22.12	-133.82	1,024.25	362.35	910.41	862.80	47.61	19.120		
4,900.00	4,502.76	4,652.03	4,546.69	33.84	22.45	-134.97	1,034.64	368.59	942.06	893.83	48.22	19.535		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,730.03	4,624.10	34.83	22.76	-136.20	1,042.84	373.53	975.48	926.73	48.75	20.009		
5,100.00	4,675.29	4,803.47	4,697.22	35.82	23.03	-137.40	1,048.83	376.85	1,010.93	961.76	49.17	20.560		
5,200.00	4,761.55	4,880.60	4,774.17	36.82	23.29	-138.69	1,053.63	379.16	1,048.29	998.73	49.56	21.151		
5,300.00	4,847.81	4,959.63	4,853.11	37.82	23.53	-140.02	1,056.89	380.64	1,087.23	1,037.31	49.92	21.780		
5,400.00	4,934.08	5,044.46	4,937.92	38.81	23.77	-141.47	1,058.48	381.66	1,127.40	1,077.12	50.28	22.422		
5,500.00	5,020.34	5,130.21	5,023.66	39.81	24.00	-142.87	1,059.53	382.70	1,168.24	1,117.60	50.64	23.069		
5,600.00	5,106.60	5,205.29	5,098.73	40.81	24.20	-144.07	1,059.53	383.36	1,210.09	1,159.18	50.90	23.773		
5,700.00	5,192.87	5,270.00	5,163.44	41.81	24.36	-145.04	1,059.84	382.87	1,253.86	1,202.78	51.08	24.546		
5,800.00	5,279.13	5,351.39	5,244.82	42.81	24.57	-146.17	1,060.64	381.39	1,299.03	1,247.60	51.43	25.257		
5,900.00	5,365.40	5,441.06	5,334.46	43.81	24.81	-147.33	1,061.56	379.70	1,344.69	1,292.81	51.88	25.919		
6,000.00	5,451.66	5,530.41	5,423.80	44.81	25.04	-148.42	1,062.32	378.34	1,390.47	1,338.14	52.34	26.569		
6,100.00	5,537.92	5,609.27	5,502.65	45.81	25.24	-149.34	1,062.62	377.16	1,436.67	1,383.97	52.70	27.262		
6,200.00	5,624.19	5,692.90	5,586.26	46.81	25.46	-150.27	1,062.62	375.50	1,483.66	1,430.55	53.11	27.935		
6,300.00	5,710.45	5,780.30	5,673.64	47.81	25.68	-151.19	1,062.70	373.93	1,530.81	1,477.24	53.58	28.573		
6,400.00	5,796.72	5,872.74	5,766.07	48.81	25.92	-152.10	1,062.98	372.29	1,578.20	1,524.10	54.11	29.168		
6,500.00	5,882.98	5,961.47	5,854.79	49.81	26.16	-152.91	1,063.47	371.33	1,625.22	1,570.60	54.62	29.754		
6,600.00	5,969.24	6,039.64	5,932.95	50.82	26.37	-153.59	1,063.75	370.06	1,672.97	1,617.92	55.05	30.391		
6,700.00	6,055.51	6,139.42	6,032.73	51.82	26.64	-154.43	1,063.92	368.91	1,720.56	1,664.88	55.68	30.901		
6,800.00	6,141.77	6,224.49	6,117.79	52.82	26.87	-155.10	1,064.11	368.29	1,768.03	1,711.84	56.19	31.467		
6,900.00	6,228.03	6,296.35	6,189.65	53.83	27.07	-155.64	1,064.31	367.37	1,816.12	1,759.54	56.59	32.095		
7,000.00	6,314.30	6,390.33	6,283.61	54.83	27.33	-156.31	1,064.56	365.98	1,864.56	1,807.36	57.20	32.597		
7,100.00	6,400.56	6,480.69	6,373.97	55.83	27.58	-156.92	1,064.66	365.04	1,912.83	1,855.05	57.78	33.103		
7,200.00	6,486.83	6,595.15	6,488.42	56.84	27.89	-157.70	1,063.75	365.20	1,960.46	1,901.90	58.56	33.475		
7,300.00	6,573.09	6,683.52	6,576.78	57.84	28.12	-158.30	1,062.42	366.17	2,007.66	1,948.55	59.11	33.964		
7,400.00	6,659.35	6,764.31	6,657.56	58.84	28.34	-158.82	1,061.42	366.91	2,055.10	1,995.49	59.61	34.477		
7,500.00	6,745.62	6,850.58	6,743.83	59.85	28.58	-159.33	1,060.69	367.48	2,102.79	2,042.63	60.17	34.949		
7,600.00	6,831.88	6,948.63	6,841.87	60.85	28.86	-159.88	1,060.30	368.26	2,150.40	2,089.55	60.85	35.342		
7,700.00	6,918.14	7,037.18	6,930.41	61.86	29.12	-160.34	1,060.60	369.08	2,197.80	2,136.34	61.46	35.757		
7,800.00	7,004.41	7,123.19	7,016.42	62.86	29.38	-160.75	1,061.33	369.74	2,245.30	2,183.22	62.08	36.170		
7,900.00	7,090.67	7,227.76	7,120.98	63.87	29.70	-161.23	1,062.24	370.86	2,292.64	2,229.79	62.86	36.474		
8,000.00	7,176.94	7,346.36	7,239.54	64.87	30.06	-161.76	1,063.34	373.66	2,338.96	2,275.20	63.75	36.688		
8,027.52	7,200.68	7,369.75	7,262.92	65.15	30.14	-161.86	1,063.47	374.38	2,351.59	2,287.67	63.92	36.790		
8,050.00	7,220.18	7,388.95	7,282.11	65.37	30.20	-166.45	1,063.55	374.97	2,361.83	2,297.77	64.06	36.871		
8,100.00	7,264.25	7,431.92	7,325.06	65.85	30.33	-177.41	1,063.64	376.31	2,383.88	2,319.51	64.37	37.035		
8,150.00	7,308.99	7,474.28	7,367.40	66.28	30.46	170.74	1,063.89	377.53	2,404.82	2,340.14	64.68	37.178		
8,200.00	7,354.07	7,517.11	7,410.22	66.67	30.59	158.50	1,064.40	378.61	2,424.51	2,359.49	65.01	37.292		
8,250.00	7,399.14	7,566.18	7,459.26	67.02	30.75	146.59	1,065.18	379.79	2,442.75	2,377.34	65.41	37.346		
8,300.00	7,443.85	7,614.80	7,507.86	67.32	30.91	135.70	1,066.06	381.01	2,459.40	2,393.60	65.81	37.373		
8,350.00	7,487.88	7,660.68	7,553.72	67.56	31.06	126.23	1,066.82	382.22	2,474.43	2,408.24	66.19	37.384		
8,400.00	7,530.87	7,705.79	7,598.80	67.75	31.20	118.32	1,067.44	383.48	2,487.80	2,421.22	66.57	37.370		
8,450.00	7,572.51	7,735.65	7,628.65	67.90	31.29	111.72	1,067.77	384.28	2,499.63	2,432.79	66.84	37.399		
8,500.00	7,612.48	7,765.04	7,658.03	68.00	31.39	106.38	1,068.02	384.95	2,510.01	2,442.90	67.11	37.401		
8,550.00	7,650.47	7,797.00	7,689.99	68.05	31.49	102.16	1,068.23	385.55	2,518.96	2,451.54	67.42	37.360		
8,600.00	7,686.20	7,822.27	7,715.25	68.06	31.56	98.74	1,068.35	385.94	2,526.46	2,458.76	67.70	37.320		
8,650.00	7,719.39	7,849.97	7,742.95	68.03	31.65	96.11	1,068.50	386.32	2,532.52	2,464.51	68.01	37.236		
8,700.00	7,749.79	7,875.27	7,768.25	67.97	31.73	94.07	1,068.63	386.60	2,537.21	2,468.88	68.33	37.130		
8,750.00	7,777.17	7,902.74	7,795.72	67.87	31.81	92.60	1,068.77	386.87	2,540.56	2,471.86	68.70	36.981		
8,800.00	7,801.32	7,934.77	7,827.74	67.74	31.91	91.70	1,068.91	387.26	2,542.57	2,473.43	69.13	36.778		
8,850.00	7,822.06	7,962.41	7,855.38	67.59	32.00	91.12	1,069.00	387.68	2,543.30	2,473.74	69.56	36.563		
8,900.00	7,839.23	7,985.39	7,878.35	67.41	32.07	90.80	1,069.07	388.09	2,542.87	2,472.90	69.98	36.340		
8,950.00	7,852.69	7,998.36	7,891.33	67.22	32.11	90.59	1,069.10	388.34	2,541.40	2,471.06	70.34	36.131		
9,000.00	7,862.35	8,007.84	7,900.81	67.00	32.14	90.59	1,069.13	388.52	2,538.97	2,468.26	70.71	35.909		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	8,013.43	7,906.39	66.78	32.15	90.76	1,069.15	388.62	2,535.63	2,464.57	71.07	35.679		
9,098.65	7,870.00	8,015.10	7,908.06	66.55	32.16	91.09	1,069.16	388.65	2,531.57	2,460.16	71.42	35.447		
9,100.00	7,870.00	8,015.09	7,908.05	66.55	32.16	91.09	1,069.16	388.65	2,531.45	2,460.02	71.43	35.440		
9,200.00	7,870.00	8,014.72	7,907.68	66.09	32.16	91.08	1,069.16	388.65	2,524.32	2,452.16	72.16	34.984		
9,300.00	7,870.00	8,014.35	7,907.31	65.65	32.16	91.08	1,069.15	388.64	2,521.13	2,448.23	72.90	34.582		
9,330.32	7,870.00	8,014.24	7,907.20	65.52	32.16	91.07	1,069.15	388.64	2,520.95	2,447.81	73.14	34.468		
9,400.00	7,870.00	8,013.99	7,906.95	65.24	32.16	91.07	1,069.15	388.63	2,521.91	2,448.25	73.66	34.237		
9,500.00	7,870.00	8,013.62	7,906.59	64.85	32.15	91.06	1,069.15	388.63	2,526.66	2,452.24	74.42	33.951		
9,600.00	7,870.00	8,013.26	7,906.23	64.48	32.15	91.05	1,069.15	388.62	2,535.34	2,460.16	75.18	33.725		
9,700.00	7,870.00	8,012.91	7,905.87	64.13	32.15	91.04	1,069.15	388.61	2,547.91	2,471.99	75.92	33.560		
9,800.00	7,870.00	8,012.55	7,905.52	63.80	32.15	91.03	1,069.15	388.61	2,564.33	2,487.68	76.65	33.456		
9,900.00	7,870.00	8,012.20	7,905.17	63.50	32.15	91.03	1,069.15	388.60	2,584.52	2,507.17	77.35	33.412		
10,000.00	7,870.00	8,011.86	7,904.82	63.22	32.15	91.02	1,069.14	388.59	2,608.38	2,530.36	78.03	33.429		
10,100.00	7,870.00	8,011.51	7,904.47	62.96	32.15	91.01	1,069.14	388.59	2,635.83	2,557.16	78.67	33.505		
10,200.00	7,870.00	8,011.17	7,904.13	62.72	32.15	91.00	1,069.14	388.58	2,666.75	2,587.47	79.28	33.638		
10,300.00	7,870.00	8,010.83	7,903.79	62.50	32.15	91.00	1,069.14	388.57	2,701.01	2,621.16	79.85	33.827		
10,400.00	7,870.00	8,010.49	7,903.46	62.31	32.14	90.99	1,069.14	388.57	2,738.50	2,658.12	80.38	34.069		
10,500.00	7,870.00	8,010.16	7,903.12	62.15	32.14	90.98	1,069.14	388.56	2,779.09	2,698.22	80.87	34.363		
10,600.00	7,870.00	8,009.83	7,902.79	62.01	32.14	90.97	1,069.14	388.56	2,822.63	2,741.31	81.33	34.707		
10,700.00	7,870.00	8,009.50	7,902.46	61.90	32.14	90.97	1,069.14	388.55	2,869.01	2,787.26	81.74	35.098		
10,800.00	7,870.00	8,009.18	7,902.14	61.82	32.14	90.96	1,069.14	388.54	2,918.07	2,835.95	82.12	35.533		
10,900.00	7,870.00	8,008.85	7,901.82	61.78	32.14	90.95	1,069.13	388.54	2,969.69	2,887.23	82.46	36.012		
11,000.00	7,870.00	8,008.53	7,901.50	61.77	32.14	90.94	1,069.13	388.53	3,023.74	2,940.97	82.77	36.530		
11,100.00	7,870.00	8,008.21	7,901.18	61.81	32.14	90.94	1,069.13	388.52	3,080.09	2,997.04	83.05	37.087		
11,200.00	7,870.00	8,007.90	7,900.86	61.90	32.14	90.93	1,069.13	388.52	3,138.61	3,055.31	83.30	37.680		
11,300.00	7,870.00	8,007.59	7,900.55	62.03	32.14	90.92	1,069.13	388.51	3,199.19	3,115.67	83.52	38.307		
11,400.00	7,870.00	8,007.28	7,900.24	62.23	32.13	90.91	1,069.13	388.51	3,261.71	3,178.00	83.71	38.965		
11,500.00	7,870.00	8,006.97	7,899.93	62.50	32.13	90.91	1,069.13	388.50	3,326.06	3,242.18	83.88	39.654		
11,600.00	7,870.00	8,006.66	7,899.63	62.84	32.13	90.90	1,069.13	388.50	3,392.14	3,308.11	84.02	40.371		
11,700.00	7,870.00	8,006.36	7,899.32	63.25	32.13	90.89	1,069.13	388.49	3,459.84	3,375.69	84.15	41.115		
11,800.00	7,870.00	8,006.06	7,899.02	63.76	32.13	90.89	1,069.12	388.48	3,529.09	3,444.83	84.26	41.884		
11,900.00	7,870.00	8,005.76	7,898.72	64.34	32.13	90.88	1,069.12	388.48	3,599.77	3,515.42	84.35	42.677		
12,000.00	7,870.00	8,005.46	7,898.43	65.01	32.13	90.87	1,069.12	388.47	3,671.83	3,587.40	84.43	43.491		
12,100.00	7,870.00	8,005.17	7,898.13	65.77	32.13	90.87	1,069.12	388.47	3,745.16	3,660.67	84.49	44.327		
12,200.00	7,870.00	8,004.88	7,897.84	66.61	32.13	90.86	1,069.12	388.46	3,819.71	3,735.17	84.54	45.182		
12,300.00	7,870.00	8,004.59	7,897.55	67.51	32.13	90.85	1,069.12	388.46	3,895.39	3,810.81	84.58	46.055		
12,400.00	7,870.00	8,004.30	7,897.26	68.49	32.13	90.85	1,069.12	388.45	3,972.16	3,887.54	84.61	46.945		
12,500.00	7,870.00	8,004.01	7,896.96	69.52	32.12	90.84	1,069.12	388.45	4,049.93	3,965.30	84.63	47.852		
12,600.00	7,870.00	8,003.73	7,896.70	70.61	32.12	90.83	1,069.12	388.44	4,128.67	4,044.02	84.65	48.774		
12,700.00	7,870.00	8,003.45	7,896.41	71.75	32.12	90.83	1,069.12	388.44	4,208.30	4,123.65	84.66	49.710		
12,800.00	7,870.00	8,003.17	7,896.14	72.93	32.12	90.82	1,069.12	388.43	4,288.79	4,204.13	84.66	50.660		
12,900.00	7,870.00	8,002.89	7,895.86	74.14	32.12	90.82	1,069.11	388.42	4,370.09	4,285.43	84.66	51.622		
13,000.00	7,870.00	8,002.62	7,895.58	75.39	32.12	90.81	1,069.11	388.42	4,452.15	4,367.50	84.65	52.596		
13,100.00	7,870.00	8,002.35	7,895.31	76.67	32.12	90.80	1,069.11	388.41	4,534.92	4,450.29	84.64	53.582		
13,200.00	7,870.00	8,002.08	7,895.04	77.98	32.12	90.80	1,069.11	388.41	4,618.38	4,533.76	84.62	54.578		
13,300.00	7,870.00	8,001.81	7,894.77	79.31	32.12	90.79	1,069.11	388.40	4,702.49	4,617.88	84.60	55.584		
13,400.00	7,870.00	8,001.54	7,894.50	80.67	32.12	90.78	1,069.11	388.40	4,787.20	4,702.62	84.58	56.599		
13,500.00	7,870.00	8,001.27	7,894.24	82.04	32.12	90.78	1,069.11	388.39	4,872.50	4,787.94	84.56	57.623		
13,600.00	7,870.00	8,001.01	7,893.98	83.43	32.11	90.77	1,069.11	388.39	4,958.34	4,873.81	84.53	58.655		
13,700.00	7,870.00	8,000.75	7,893.72	84.84	32.11	90.77	1,069.11	388.38	5,044.71	4,960.20	84.51	59.695		
13,800.00	7,870.00	8,000.49	7,893.46	86.27	32.11	90.76	1,069.11	388.38	5,131.57	5,047.09	84.48	60.742		
13,900.00	7,870.00	8,000.23	7,893.20	87.71	32.11	90.75	1,069.11	388.37	5,218.90	5,134.45	84.45	61.796		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,870.00	7,999.98	7,892.94	89.16	32.11	90.75	1,069.11	388.37	5,306.68	5,222.26	84.42	62.857		
14,100.00	7,870.00	7,999.72	7,892.69	90.63	32.11	90.74	1,069.10	388.36	5,394.89	5,310.49	84.40	63.924		
14,200.00	7,870.00	7,999.47	7,892.44	92.10	32.11	90.74	1,069.10	388.36	5,483.50	5,399.13	84.37	64.996		
14,300.00	7,870.00	7,999.22	7,892.19	93.59	32.11	90.73	1,069.10	388.36	5,572.49	5,488.15	84.34	66.074		
14,400.00	7,870.00	7,998.97	7,891.94	95.09	32.11	90.73	1,069.10	388.35	5,661.85	5,577.55	84.31	67.157		
14,500.00	7,870.00	7,998.73	7,891.69	96.60	32.11	90.72	1,069.10	388.35	5,751.57	5,667.29	84.28	68.245		
14,600.00	7,870.00	7,998.48	7,891.45	98.11	32.11	90.71	1,069.10	388.34	5,841.61	5,757.36	84.25	69.337		
14,700.00	7,870.00	7,998.24	7,891.20	99.64	32.11	90.71	1,069.10	388.34	5,931.98	5,847.76	84.22	70.433		
14,800.00	7,870.00	7,998.00	7,890.96	101.17	32.11	90.70	1,069.10	388.33	6,022.65	5,938.45	84.19	71.534		
14,900.00	7,870.00	7,997.76	7,890.72	102.71	32.10	90.70	1,069.10	388.33	6,113.61	6,029.44	84.17	72.638		
15,000.00	7,870.00	7,997.52	7,890.48	104.26	32.10	90.69	1,069.10	388.32	6,204.85	6,120.71	84.14	73.745		
15,100.00	7,870.00	7,997.28	7,890.25	105.82	32.10	90.69	1,069.10	388.32	6,296.35	6,212.24	84.11	74.856		
15,200.00	7,870.00	7,997.05	7,890.01	107.38	32.10	90.68	1,069.10	388.31	6,388.11	6,304.02	84.09	75.970		
15,300.00	7,870.00	7,996.81	7,889.78	108.95	32.10	90.68	1,069.10	388.31	6,480.12	6,396.05	84.06	77.087		
15,400.00	7,870.00	7,996.58	7,889.55	110.52	32.10	90.67	1,069.10	388.31	6,572.35	6,488.31	84.04	78.206		
15,500.00	7,870.00	7,996.35	7,889.32	112.10	32.10	90.67	1,069.09	388.30	6,664.81	6,580.80	84.02	79.327		
15,600.00	7,870.00	7,996.12	7,889.09	113.69	32.10	90.66	1,069.09	388.30	6,757.49	6,673.50	83.99	80.451		
15,700.00	7,870.00	7,995.89	7,888.86	115.28	32.10	90.66	1,069.09	388.29	6,850.37	6,766.40	83.97	81.578		
15,800.00	7,870.00	7,995.67	7,888.63	116.87	32.10	90.65	1,069.09	388.29	6,943.45	6,859.50	83.95	82.706		
15,900.00	7,870.00	7,995.44	7,888.41	118.47	32.10	90.65	1,069.09	388.28	7,036.72	6,952.79	83.93	83.835		
16,000.00	7,870.00	7,995.22	7,888.19	120.07	32.10	90.64	1,069.09	388.28	7,130.17	7,046.26	83.92	84.967		
16,100.00	7,870.00	7,995.00	7,887.96	121.68	32.10	90.64	1,069.09	388.28	7,223.80	7,139.90	83.90	86.100		
16,200.00	7,870.00	7,994.78	7,887.74	123.30	32.10	90.63	1,069.09	388.27	7,317.60	7,233.71	83.88	87.234		
16,300.00	7,870.00	7,994.56	7,887.53	124.91	32.09	90.63	1,069.09	388.27	7,411.55	7,327.69	83.87	88.370		
16,400.00	7,870.00	7,994.34	7,887.31	126.53	32.09	90.62	1,069.09	388.26	7,505.67	7,421.81	83.86	89.507		
16,500.00	7,870.00	7,994.13	7,887.09	128.16	32.09	90.62	1,069.09	388.26	7,599.93	7,516.09	83.84	90.645		
16,600.00	7,870.00	7,993.91	7,886.88	129.79	32.09	90.61	1,069.09	388.25	7,694.34	7,610.51	83.83	91.784		
16,700.00	7,870.00	7,993.70	7,886.67	131.42	32.09	90.61	1,069.09	388.25	7,788.89	7,705.07	83.82	92.923		
16,800.00	7,870.00	7,993.49	7,886.46	133.05	32.09	90.60	1,069.09	388.25	7,883.58	7,799.76	83.81	94.063		
16,900.00	7,870.00	7,993.28	7,886.25	134.69	32.09	90.60	1,069.09	388.24	7,978.39	7,894.59	83.80	95.204		
17,000.00	7,870.00	17,000.00	7,866.02	136.33	60.47	90.14	1,069.02	387.91	8,073.33	7,959.91	113.41	71.184		
17,100.00	7,870.00	17,100.00	7,865.64	137.97	60.79	90.13	1,069.02	387.91	8,168.38	8,054.64	113.75	71.811		
17,200.00	7,870.00	17,200.00	7,865.25	139.62	61.11	90.12	1,069.02	387.90	8,263.56	8,149.48	114.08	72.435		
17,300.00	7,870.00	17,300.00	7,864.87	141.27	61.43	90.11	1,069.02	387.90	8,358.85	8,244.43	114.42	73.055		
17,400.00	7,870.00	17,400.00	7,864.48	142.92	61.76	90.10	1,069.01	387.89	8,454.24	8,339.49	114.76	73.672		
17,500.00	7,870.00	17,500.00	7,864.10	144.58	62.08	90.09	1,069.01	387.89	8,549.74	8,434.65	115.09	74.285		
17,600.00	7,870.00	17,600.00	7,863.72	146.23	62.40	90.08	1,069.01	387.88	8,645.35	8,529.92	115.43	74.896		
17,700.00	7,870.00	17,700.00	7,863.33	147.89	62.72	90.08	1,069.01	387.87	8,741.05	8,625.28	115.77	75.503		
17,800.00	7,870.00	17,800.00	7,862.95	149.56	63.04	90.07	1,069.01	387.87	8,836.85	8,720.73	116.11	76.106		
17,900.00	7,870.00	17,900.00	7,862.57	151.22	63.37	90.06	1,069.01	387.86	8,932.74	8,816.28	116.45	76.706		
18,000.00	7,870.00	18,000.00	7,862.18	152.89	63.69	90.05	1,069.01	387.86	9,028.71	8,911.92	116.80	77.303		
18,100.00	7,870.00	18,100.00	7,861.80	154.55	64.01	90.04	1,069.00	387.85	9,124.78	9,007.64	117.14	77.896		
18,200.00	7,870.00	18,200.00	7,861.42	156.22	64.34	90.03	1,069.00	387.85	9,220.93	9,103.44	117.48	78.486		
18,300.00	7,870.00	18,300.00	7,861.03	157.90	64.66	90.02	1,069.00	387.84	9,317.16	9,199.33	117.83	79.073		
18,400.00	7,870.00	8,003.32	7,896.29	159.57	32.12	90.82	1,069.10	388.45	9,413.47	9,329.65	83.82	112.303		
18,500.00	7,870.00	8,002.92	7,895.88	161.25	32.12	90.82	1,069.10	388.45	9,509.85	9,426.02	83.83	113.443		
18,600.00	7,870.00	8,002.51	7,895.47	162.93	32.12	90.81	1,069.10	388.44	9,606.31	9,522.47	83.84	114.582		
18,700.00	7,870.00	8,002.09	7,895.06	164.60	32.12	90.80	1,069.10	388.43	9,702.84	9,619.00	83.85	115.720		
18,797.52	7,870.00	8,001.68	7,894.65	166.24	32.12	90.79	1,069.10	388.42	9,797.04	9,713.19	83.86	116.829		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-16.31	218.21	-63.84	227.58					
100.00	100.00	89.00	89.00	0.13	0.14	-16.30	218.41	-63.85	227.55	227.27	0.28	814.587		
200.00	200.00	188.43	188.42	0.49	0.40	-16.27	219.04	-63.92	228.18	227.28	0.90	254.104		
300.00	300.00	288.15	288.14	0.85	0.76	-16.26	219.74	-64.10	228.91	227.29	1.61	141.851		
400.00	400.00	391.64	391.63	1.21	1.12	-16.20	220.13	-63.95	229.23	226.90	2.33	98.247		
500.00	500.00	499.81	499.76	1.57	1.49	-15.89	217.96	-62.07	226.84	223.78	3.06	74.106		
600.00	600.00	607.91	607.61	1.93	1.87	-15.10	212.41	-57.33	220.72	216.92	3.79	58.169		
700.00	700.00	715.63	714.61	2.29	2.27	-13.53	203.52	-48.97	210.77	206.23	4.53	46.496		
800.00	800.00	821.32	818.95	2.64	2.70	-10.78	192.09	-36.58	197.68	192.40	5.27	37.475		
900.00	900.00	924.95	920.36	3.00	3.16	-6.63	177.99	-20.69	181.75	175.71	6.03	30.122		
1,000.00	1,000.00	1,023.09	1,015.81	3.36	3.62	-1.16	163.19	-3.31	165.25	158.43	6.82	24.231		
1,100.00	1,099.98	1,123.31	1,113.02	3.72	4.12	-49.52	147.17	15.12	148.60	140.94	7.66	19.409		
1,200.00	1,199.84	1,218.06	1,204.93	4.07	4.61	-43.21	132.04	32.43	131.63	123.10	8.52	15.440		
1,300.00	1,299.45	1,315.93	1,300.25	4.43	5.11	-36.64	117.23	48.93	114.53	105.12	9.41	12.166		
1,400.00	1,398.70	1,413.45	1,395.40	4.80	5.60	-29.34	102.48	64.46	96.12	85.81	10.32	9.319		
1,500.00	1,497.47	1,510.53	1,489.96	5.18	6.10	-19.18	87.33	80.33	76.67	65.44	11.23	6.825		
1,600.00	1,595.62	1,606.80	1,583.41	5.57	6.62	-1.98	71.28	96.98	57.82	45.73	12.09	4.783		
1,700.00	1,693.06	1,702.36	1,676.16	6.00	7.13	27.03	55.55	113.72	45.30	32.79	12.51	3.620		
1,738.93	1,730.77	1,739.58	1,712.35	6.17	7.33	41.40	49.62	120.15	44.01	31.48	12.53	3.513	CC, ES, SF	
1,800.00	1,789.64	1,797.86	1,769.05	6.45	7.64	63.87	40.53	130.04	47.33	34.67	12.66	3.739		
1,900.00	1,885.27	1,893.06	1,861.83	6.94	8.13	91.77	25.97	145.65	64.89	51.27	13.61	4.766		
2,000.00	1,979.82	1,988.73	1,955.49	7.47	8.61	108.84	12.67	159.87	90.55	75.68	14.87	6.090		
2,100.00	2,073.17	2,083.08	2,048.23	8.05	9.06	119.67	1.15	172.89	120.59	104.56	16.03	7.523		
2,200.00	2,165.21	2,173.07	2,136.85	8.67	9.49	127.28	-10.05	183.76	155.61	138.55	17.06	9.123		
2,300.00	2,255.84	2,259.56	2,221.78	9.35	9.90	132.32	-22.36	194.51	196.26	178.27	17.99	10.907		
2,400.00	2,344.94	2,344.48	2,304.73	10.09	10.34	135.55	-36.19	206.35	241.79	222.88	18.91	12.786		
2,500.00	2,432.39	2,432.95	2,390.93	10.89	10.80	137.96	-51.02	219.61	290.44	270.55	19.89	14.599		
2,519.29	2,449.07	2,450.30	2,407.84	11.05	10.89	138.37	-53.85	222.28	300.06	279.97	20.09	14.935		
2,600.00	2,518.69	2,523.34	2,479.06	11.74	11.27	140.40	-65.31	233.72	340.19	319.28	20.90	16.275		
2,700.00	2,604.95	2,611.93	2,565.40	12.62	11.74	142.19	-78.69	248.37	389.47	367.58	21.88	17.796		
2,800.00	2,691.22	2,704.59	2,655.68	13.52	12.23	143.56	-92.01	264.42	438.12	415.20	22.92	19.118		
2,900.00	2,777.48	2,793.04	2,741.93	14.43	12.69	144.63	-103.99	279.93	486.17	462.27	23.90	20.343		
3,000.00	2,863.75	2,872.02	2,818.98	15.35	13.10	145.44	-115.02	293.38	534.84	510.07	24.77	21.588		
3,100.00	2,950.01	2,954.44	2,899.39	16.28	13.53	146.21	-127.41	306.50	584.84	559.15	25.68	22.770		
3,200.00	3,036.27	3,039.43	2,982.25	17.22	13.98	146.85	-140.51	320.15	635.16	608.53	26.63	23.851		
3,300.00	3,122.54	3,123.44	3,064.05	18.17	14.43	147.35	-153.80	333.93	685.71	658.14	27.57	24.870		
3,400.00	3,208.80	3,212.65	3,151.06	19.13	14.89	147.88	-167.79	347.80	736.54	707.97	28.57	25.782		
3,500.00	3,295.07	3,306.51	3,242.77	20.09	15.38	148.40	-181.26	362.54	786.28	756.67	29.61	26.556		
3,600.00	3,381.33	3,389.74	3,324.14	21.05	15.80	148.83	-193.11	375.40	836.09	805.56	30.53	27.387		
3,700.00	3,467.59	3,474.30	3,406.76	22.02	16.24	149.20	-205.48	388.51	886.22	854.75	31.47	28.163		
3,800.00	3,553.86	3,561.87	3,492.35	22.99	16.69	149.55	-218.23	401.94	936.38	903.94	32.44	28.864		
3,900.00	3,640.12	3,648.32	3,576.87	23.97	17.13	149.87	-230.71	415.09	986.52	953.13	33.40	29.537		
4,000.00	3,726.38	3,742.92	3,669.57	24.95	17.60	150.25	-243.59	428.88	1,036.33	1,001.90	34.43	30.097		
4,100.00	3,812.65	3,827.98	3,752.92	25.93	18.03	150.55	-254.98	441.45	1,085.90	1,050.54	35.36	30.706		
4,200.00	3,898.91	3,913.94	3,836.86	26.91	18.48	150.75	-267.23	455.34	1,135.58	1,099.24	36.33	31.253		
4,300.00	3,985.18	4,016.81	3,937.32	27.90	19.01	150.96	-281.43	472.31	1,184.79	1,147.30	37.49	31.604		
4,400.00	4,071.44	4,104.67	4,023.32	28.88	19.45	151.17	-292.52	486.43	1,233.27	1,194.80	38.47	32.060		
4,500.00	4,157.70	4,167.71	4,084.84	29.87	19.78	151.26	-301.29	497.01	1,282.49	1,243.29	39.20	32.720		
4,600.00	4,243.97	4,234.31	4,149.54	30.86	20.14	151.31	-312.33	508.36	1,333.51	1,293.54	39.97	33.365		
4,700.00	4,330.23	4,320.97	4,233.93	31.85	20.60	151.41	-326.43	522.13	1,384.84	1,343.88	40.96	33.807		
4,800.00	4,416.49	4,395.13	4,306.62	32.84	20.97	151.61	-337.58	531.61	1,436.58	1,394.82	41.77	34.394		
4,900.00	4,502.76	4,511.61	4,421.57	33.84	21.49	152.09	-352.20	543.33	1,487.64	1,444.69	42.96	34.632		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,603.20	4,512.42	34.83	21.87	152.56	-361.37	550.50	1,537.87	1,494.04	43.83	35.087		
5,100.00	4,675.29	4,701.14	4,609.81	35.82	22.24	153.12	-369.62	556.75	1,587.65	1,542.93	44.72	35.499		
5,200.00	4,761.55	4,798.70	4,707.00	36.82	22.59	153.71	-376.29	561.83	1,636.88	1,591.30	45.58	35.916		
5,300.00	4,847.81	4,888.17	4,796.31	37.82	22.89	154.30	-380.82	564.91	1,685.72	1,639.40	46.32	36.391		
5,400.00	4,934.08	4,962.93	4,870.96	38.81	23.13	154.80	-384.37	566.64	1,734.99	1,688.05	46.94	36.965		
5,500.00	5,020.34	5,031.97	4,939.91	39.81	23.35	155.26	-387.82	567.51	1,785.06	1,737.57	47.49	37.587		
5,600.00	5,106.60	5,099.71	5,007.54	40.81	23.56	155.70	-391.52	567.70	1,836.05	1,788.02	48.03	38.230		
5,700.00	5,192.87	5,260.14	5,167.79	41.81	24.04	156.70	-398.62	568.36	1,886.83	1,837.59	49.24	38.318		
5,800.00	5,279.13	5,349.09	5,256.74	42.81	24.28	157.29	-399.47	568.46	1,934.97	1,885.08	49.90	38.779		
5,900.00	5,365.40	5,437.41	5,345.06	43.81	24.51	157.87	-399.66	567.89	1,983.12	1,932.60	50.52	39.251		
6,000.00	5,451.66	5,517.88	5,425.52	44.81	24.70	158.38	-399.76	567.12	2,031.50	1,980.41	51.09	39.760		
6,100.00	5,537.92	5,604.90	5,512.53	45.81	24.92	158.91	-399.89	566.16	2,080.12	2,028.41	51.71	40.229		
6,200.00	5,624.19	5,691.68	5,599.31	46.81	25.14	159.42	-399.93	565.16	2,128.82	2,076.50	52.32	40.689		
6,300.00	5,710.45	5,780.64	5,688.27	47.81	25.36	159.92	-399.97	564.28	2,177.57	2,124.62	52.95	41.126		
6,400.00	5,796.72	5,868.55	5,776.17	48.81	25.58	160.39	-399.95	563.51	2,226.32	2,172.74	53.57	41.555		
6,500.00	5,882.98	5,956.91	5,864.53	49.81	25.81	160.84	-399.81	562.71	2,275.10	2,220.89	54.20	41.972		
6,600.00	5,969.24	6,040.99	5,948.60	50.82	26.02	161.26	-399.55	561.86	2,323.94	2,269.13	54.81	42.402		
6,700.00	6,055.51	6,125.80	6,033.40	51.82	26.24	161.67	-399.30	560.85	2,372.98	2,317.57	55.42	42.821		
6,800.00	6,141.77	6,215.27	6,122.86	52.82	26.47	162.08	-398.90	559.69	2,422.06	2,366.01	56.06	43.208		
6,900.00	6,228.03	6,306.52	6,214.11	53.83	26.70	162.49	-398.31	558.60	2,471.06	2,414.35	56.71	43.575		
7,000.00	6,314.30	6,393.93	6,301.52	54.83	26.93	162.87	-397.75	557.80	2,519.99	2,462.65	57.34	43.947		
7,100.00	6,400.56	6,476.43	6,384.00	55.83	27.15	163.21	-397.26	556.96	2,569.07	2,511.13	57.95	44.336		
7,200.00	6,486.83	6,562.92	6,470.49	56.84	27.38	163.55	-396.85	556.11	2,618.30	2,559.72	58.58	44.697		
7,300.00	6,573.09	6,657.68	6,565.25	57.84	27.63	163.90	-396.46	555.59	2,667.39	2,608.11	59.27	45.000		
7,400.00	6,659.35	6,740.47	6,648.04	58.84	27.86	164.19	-396.23	555.34	2,716.48	2,656.59	59.90	45.353		
7,500.00	6,745.62	6,824.91	6,732.48	59.85	28.10	164.46	-396.22	555.22	2,765.72	2,705.18	60.54	45.682		
7,600.00	6,831.88	6,906.25	6,813.82	60.85	28.35	164.71	-396.59	555.40	2,815.10	2,753.92	61.18	46.011		
7,700.00	6,918.14	6,992.44	6,900.00	61.86	28.61	164.96	-397.37	555.89	2,864.62	2,802.75	61.87	46.301		
7,800.00	7,004.41	7,075.41	6,982.96	62.86	28.87	165.18	-398.28	556.52	2,914.20	2,851.66	62.54	46.598		
7,900.00	7,090.67	7,154.14	7,061.68	63.87	29.12	165.38	-399.44	557.22	2,963.96	2,900.78	63.18	46.912		
8,000.00	7,176.94	7,235.33	7,142.86	64.87	29.38	165.58	-400.84	557.84	3,014.00	2,950.16	63.84	47.209		
8,027.52	7,200.68	7,259.99	7,167.51	65.15	29.46	165.64	-401.27	558.03	3,027.78	2,963.74	64.04	47.277		
8,050.00	7,220.18	7,280.25	7,187.78	65.37	29.53	161.43	-401.63	558.19	3,038.75	2,974.55	64.21	47.328		
8,100.00	7,264.25	7,325.97	7,233.48	65.85	29.67	151.39	-402.42	558.58	3,061.10	2,996.54	64.57	47.409		
8,150.00	7,308.99	7,372.38	7,279.88	66.28	29.82	140.55	-403.20	558.99	3,080.50	3,015.57	64.93	47.445		
8,200.00	7,354.07	7,421.65	7,329.14	66.67	29.98	129.35	-404.01	559.46	3,096.81	3,031.51	65.30	47.426		
8,250.00	7,399.14	7,472.61	7,380.09	67.02	30.14	118.48	-404.77	559.98	3,109.91	3,044.24	65.67	47.357		
8,300.00	7,443.85	7,538.44	7,445.92	67.32	30.35	108.72	-405.55	560.81	3,119.65	3,053.51	66.14	47.170		
8,350.00	7,487.88	7,590.75	7,498.21	67.56	30.52	100.30	-405.92	561.69	3,125.88	3,059.39	66.49	47.014		
8,400.00	7,530.87	7,619.62	7,527.09	67.75	30.61	93.24	-406.09	562.05	3,129.02	3,062.37	66.65	46.948		
8,450.00	7,572.51	7,647.45	7,554.91	67.90	30.70	87.64	-406.26	562.21	3,129.19	3,062.41	66.79	46.854		
8,500.00	7,612.48	7,672.00	7,579.46	68.00	30.78	83.30	-406.42	562.22	3,126.43	3,059.55	66.88	46.745		
8,550.00	7,650.47	7,703.66	7,611.12	68.05	30.87	80.16	-406.64	562.08	3,120.78	3,053.76	67.02	46.568		
8,600.00	7,686.20	7,731.19	7,638.65	68.06	30.95	77.93	-406.84	561.87	3,112.28	3,045.17	67.11	46.377		
8,650.00	7,719.39	7,756.74	7,664.20	68.03	31.03	76.49	-407.05	561.59	3,101.06	3,033.88	67.18	46.161		
8,700.00	7,749.79	7,788.16	7,695.62	67.97	31.12	75.87	-407.30	561.19	3,087.21	3,019.92	67.29	45.879		
8,750.00	7,777.17	7,821.06	7,728.52	67.87	31.21	75.94	-407.49	560.77	3,070.78	3,003.37	67.42	45.550		
8,800.00	7,801.32	7,849.95	7,757.40	67.74	31.30	76.55	-407.61	560.42	3,051.96	2,984.45	67.51	45.205		
8,850.00	7,822.06	7,877.44	7,784.89	67.59	31.38	77.73	-407.64	560.08	3,030.94	2,963.33	67.61	44.829		
8,900.00	7,839.23	7,900.99	7,808.44	67.41	31.44	79.38	-407.56	559.77	3,007.90	2,940.21	67.69	44.436		
8,950.00	7,852.69	7,918.88	7,826.32	67.22	31.49	81.44	-407.42	559.51	2,983.07	2,915.33	67.74	44.036		
9,000.00	7,862.35	7,931.18	7,838.62	67.00	31.53	83.88	-407.28	559.33	2,956.66	2,888.89	67.77	43.628		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,938.03	7,845.47	66.78	31.55	86.66	-407.20	559.23	2,928.88	2,861.10	67.78	43.213		
9,098.65	7,870.00	7,939.61	7,847.05	66.55	31.55	89.68	-407.17	559.20	2,900.74	2,832.97	67.77	42.803		
9,100.00	7,870.00	7,939.58	7,847.02	66.55	31.55	89.68	-407.18	559.20	2,899.94	2,832.17	67.77	42.791		
9,200.00	7,870.00	7,937.84	7,845.28	66.09	31.55	89.64	-407.20	559.23	2,842.26	2,774.51	67.75	41.952		
9,300.00	7,870.00	7,936.18	7,843.62	65.65	31.54	89.60	-407.22	559.26	2,786.97	2,719.21	67.76	41.128		
9,400.00	7,870.00	7,934.61	7,842.05	65.24	31.54	89.56	-407.24	559.28	2,734.23	2,666.41	67.81	40.320		
9,500.00	7,870.00	7,933.10	7,840.54	64.85	31.53	89.52	-407.26	559.30	2,684.17	2,616.27	67.90	39.529		
9,600.00	7,870.00	7,931.67	7,839.11	64.48	31.53	89.49	-407.28	559.32	2,636.96	2,568.92	68.04	38.757		
9,700.00	7,870.00	7,930.30	7,837.74	64.13	31.53	89.46	-407.29	559.34	2,592.74	2,524.52	68.22	38.006		
9,800.00	7,870.00	7,928.99	7,836.43	63.80	31.52	89.42	-407.31	559.36	2,551.68	2,483.23	68.45	37.279		
9,900.00	7,870.00	7,927.74	7,835.18	63.50	31.52	89.39	-407.32	559.38	2,513.93	2,445.20	68.73	36.579		
10,000.00	7,870.00	7,926.54	7,833.98	63.22	31.52	89.36	-407.34	559.40	2,479.63	2,410.58	69.05	35.908		
10,100.00	7,870.00	7,925.39	7,832.84	62.96	31.51	89.34	-407.35	559.42	2,448.95	2,379.51	69.43	35.271		
10,200.00	7,870.00	7,924.29	7,831.73	62.72	31.51	89.31	-407.36	559.43	2,422.00	2,352.15	69.86	34.672		
10,300.00	7,870.00	7,923.23	7,830.67	62.50	31.51	89.28	-407.37	559.45	2,398.92	2,328.60	70.32	34.113		
10,400.00	7,870.00	7,922.21	7,829.66	62.31	31.50	89.26	-407.38	559.46	2,379.83	2,309.00	70.83	33.599		
10,500.00	7,870.00	7,921.24	7,828.68	62.15	31.50	89.23	-407.39	559.48	2,364.81	2,293.44	71.37	33.135		
10,600.00	7,870.00	7,920.29	7,827.74	62.01	31.50	89.21	-407.40	559.49	2,353.95	2,282.01	71.94	32.722		
10,700.00	7,870.00	7,919.39	7,826.83	61.90	31.50	89.19	-407.41	559.51	2,347.30	2,274.77	72.53	32.364		
10,800.00	7,870.00	7,918.51	7,825.96	61.82	31.49	89.17	-407.42	559.52	2,344.90	2,271.77	73.13	32.064		
10,806.31	7,870.00	7,918.46	7,825.90	61.82	31.49	89.17	-407.42	559.52	2,344.89	2,271.72	73.17	32.047		
10,900.00	7,870.00	7,917.67	7,825.11	61.78	31.49	89.15	-407.43	559.53	2,346.76	2,273.02	73.74	31.824		
11,000.00	7,870.00	7,916.86	7,824.30	61.77	31.49	89.13	-407.43	559.54	2,352.88	2,278.53	74.35	31.645		
11,100.00	7,870.00	7,916.07	7,823.51	61.81	31.49	89.11	-407.44	559.55	2,363.21	2,288.26	74.96	31.528		
11,200.00	7,870.00	7,915.31	7,822.75	61.90	31.48	89.09	-407.45	559.56	2,377.71	2,302.16	75.55	31.473		
11,300.00	7,870.00	7,914.58	7,822.02	62.03	31.48	89.07	-407.46	559.58	2,396.29	2,320.17	76.12	31.480		
11,400.00	7,870.00	7,913.87	7,821.31	62.23	31.48	89.05	-407.46	559.59	2,418.88	2,342.20	76.67	31.548		
11,500.00	7,870.00	7,913.18	7,820.62	62.50	31.48	89.04	-407.47	559.60	2,445.34	2,368.14	77.20	31.676		
11,600.00	7,870.00	7,912.51	7,819.96	62.84	31.48	89.02	-407.47	559.60	2,475.56	2,397.87	77.70	31.861		
11,700.00	7,870.00	7,911.87	7,819.31	63.25	31.47	89.01	-407.48	559.61	2,509.41	2,431.24	78.17	32.103		
11,800.00	7,870.00	7,911.24	7,818.69	63.76	31.47	88.99	-407.48	559.62	2,546.74	2,468.13	78.61	32.399		
11,900.00	7,870.00	7,910.64	7,818.08	64.34	31.47	88.98	-407.49	559.63	2,587.39	2,508.38	79.01	32.747		
12,000.00	7,870.00	7,910.05	7,817.49	65.01	31.47	88.96	-407.49	559.64	2,631.22	2,551.83	79.39	33.143		
12,100.00	7,870.00	7,909.48	7,816.92	65.77	31.47	88.95	-407.50	559.65	2,678.07	2,598.33	79.73	33.587		
12,200.00	7,870.00	7,908.92	7,816.37	66.61	31.47	88.93	-407.50	559.66	2,727.78	2,647.73	80.05	34.075		
12,300.00	7,870.00	7,908.38	7,815.83	67.51	31.46	88.92	-407.51	559.66	2,780.20	2,699.86	80.34	34.605		
12,400.00	7,870.00	7,907.86	7,815.30	68.49	31.46	88.91	-407.51	559.67	2,835.17	2,754.57	80.60	35.175		
12,500.00	7,870.00	7,907.35	7,814.79	69.52	31.46	88.90	-407.51	559.68	2,892.57	2,811.73	80.84	35.782		
12,600.00	7,870.00	7,906.85	7,814.30	70.61	31.46	88.88	-407.52	559.68	2,952.23	2,871.18	81.05	36.424		
12,700.00	7,870.00	7,906.37	7,813.82	71.75	31.46	88.87	-407.52	559.69	3,014.03	2,932.79	81.24	37.099		
12,800.00	7,870.00	7,905.90	7,813.35	72.93	31.46	88.86	-407.52	559.70	3,077.84	2,996.42	81.42	37.804		
12,900.00	7,870.00	7,905.45	7,812.89	74.14	31.46	88.85	-407.53	559.70	3,143.53	3,061.97	81.57	38.538		
13,000.00	7,870.00	7,905.00	7,812.45	75.39	31.45	88.84	-407.53	559.71	3,211.00	3,129.30	81.71	39.300		
13,100.00	7,870.00	7,904.57	7,812.01	76.67	31.45	88.83	-407.53	559.72	3,280.13	3,198.30	81.83	40.086		
13,200.00	7,870.00	7,904.14	7,811.59	77.98	31.45	88.82	-407.54	559.72	3,350.81	3,268.88	81.93	40.896		
13,300.00	7,870.00	7,903.73	7,811.18	79.31	31.45	88.81	-407.54	559.73	3,422.96	3,340.93	82.03	41.729		
13,400.00	7,870.00	7,903.33	7,810.77	80.67	31.45	88.80	-407.54	559.73	3,496.48	3,414.37	82.11	42.582		
13,500.00	7,870.00	7,902.94	7,810.38	82.04	31.45	88.79	-407.54	559.74	3,571.29	3,489.10	82.19	43.454		
13,600.00	7,870.00	7,902.55	7,810.00	83.43	31.45	88.78	-407.55	559.74	3,647.30	3,565.05	82.25	44.344		
13,700.00	7,870.00	7,902.18	7,809.62	84.84	31.45	88.77	-407.55	559.75	3,724.45	3,642.14	82.31	45.252		
13,800.00	7,870.00	7,901.81	7,809.26	86.27	31.45	88.76	-407.55	559.75	3,802.66	3,720.31	82.35	46.175		
13,900.00	7,870.00	7,901.46	7,808.90	87.71	31.44	88.75	-407.55	559.76	3,881.88	3,799.48	82.40	47.112		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,870.00	7,901.11	7,808.55	89.16	31.44	88.74	-407.55	559.76	3,962.03	3,879.60	82.43	48.064		
14,100.00	7,870.00	7,900.77	7,808.21	90.63	31.44	88.73	-407.56	559.77	4,043.07	3,960.60	82.46	49.029		
14,200.00	7,870.00	7,900.44	7,807.88	92.10	31.44	88.73	-407.56	559.77	4,124.94	4,042.45	82.49	50.006		
14,300.00	7,870.00	7,900.11	7,807.56	93.59	31.44	88.72	-407.56	559.78	4,207.59	4,125.08	82.51	50.994		
14,400.00	7,870.00	7,899.79	7,807.24	95.09	31.44	88.71	-407.56	559.78	4,290.98	4,208.45	82.53	51.993		
14,500.00	7,870.00	7,899.48	7,806.93	96.60	31.44	88.70	-407.56	559.79	4,375.07	4,292.52	82.55	53.001		
14,600.00	7,870.00	7,899.18	7,806.62	98.11	31.44	88.70	-407.57	559.79	4,459.81	4,377.25	82.56	54.019		
14,700.00	7,870.00	7,898.88	7,806.32	99.64	31.44	88.69	-407.57	559.80	4,545.18	4,462.61	82.57	55.046		
14,800.00	7,870.00	7,898.58	7,806.03	101.17	31.44	88.68	-407.57	559.80	4,631.13	4,548.55	82.58	56.081		
14,900.00	7,870.00	7,898.30	7,805.74	102.71	31.44	88.67	-407.57	559.80	4,717.63	4,635.05	82.59	57.123		
15,000.00	7,870.00	7,898.02	7,805.46	104.26	31.43	88.67	-407.57	559.81	4,804.66	4,722.07	82.59	58.173		
15,100.00	7,870.00	7,897.74	7,805.19	105.82	31.43	88.66	-407.57	559.81	4,892.19	4,809.59	82.60	59.230		
15,200.00	7,870.00	7,897.48	7,804.92	107.38	31.43	88.65	-407.57	559.81	4,980.18	4,897.58	82.60	60.292		
15,300.00	7,870.00	7,897.21	7,804.66	108.95	31.43	88.65	-407.58	559.82	5,068.62	4,986.02	82.60	61.361		
15,400.00	7,870.00	7,896.95	7,804.40	110.52	31.43	88.64	-407.58	559.82	5,157.48	5,074.87	82.61	62.435		
15,500.00	7,870.00	7,896.70	7,804.15	112.10	31.43	88.64	-407.58	559.82	5,246.74	5,164.14	82.61	63.514		
15,600.00	7,870.00	7,896.45	7,803.90	113.69	31.43	88.63	-407.58	559.83	5,336.39	5,253.78	82.61	64.598		
15,700.00	7,870.00	7,896.21	7,803.65	115.28	31.43	88.62	-407.58	559.83	5,426.39	5,343.78	82.61	65.687		
15,800.00	7,870.00	7,895.97	7,803.41	116.87	31.43	88.62	-407.58	559.83	5,516.74	5,434.13	82.61	66.779		
15,900.00	7,870.00	7,895.73	7,803.18	118.47	31.43	88.61	-407.58	559.84	5,607.42	5,524.81	82.61	67.876		
16,000.00	7,870.00	7,895.50	7,802.95	120.07	31.43	88.61	-407.59	559.84	5,698.41	5,615.79	82.61	68.976		
16,100.00	7,870.00	7,895.28	7,802.72	121.68	31.43	88.60	-407.59	559.84	5,789.69	5,707.08	82.62	70.080		
16,200.00	7,870.00	7,895.06	7,802.50	123.30	31.43	88.59	-407.59	559.85	5,881.26	5,798.65	82.62	71.187		
16,300.00	7,870.00	7,894.84	7,802.28	124.91	31.43	88.59	-407.59	559.85	5,973.10	5,890.48	82.62	72.297		
16,400.00	7,870.00	7,894.62	7,802.07	126.53	31.43	88.58	-407.59	559.85	6,065.20	5,982.58	82.62	73.409		
16,500.00	7,870.00	7,894.41	7,801.86	128.16	31.42	88.58	-407.59	559.86	6,157.55	6,074.92	82.63	74.524		
16,600.00	7,870.00	7,894.21	7,801.65	129.79	31.42	88.57	-407.59	559.86	6,250.13	6,167.50	82.63	75.641		
16,700.00	7,870.00	7,894.00	7,801.45	131.42	31.42	88.57	-407.59	559.86	6,342.93	6,260.30	82.63	76.761		
16,800.00	7,870.00	7,893.81	7,801.25	133.05	31.42	88.56	-407.59	559.86	6,435.95	6,353.32	82.64	77.882		
16,900.00	7,870.00	7,893.61	7,801.06	134.69	31.42	88.56	-407.59	559.87	6,529.18	6,446.54	82.64	79.005		
17,000.00	7,870.00	7,893.42	7,800.86	136.33	31.42	88.55	-407.59	559.87	6,622.60	6,539.96	82.65	80.130		
17,100.00	7,870.00	7,893.23	7,800.67	137.97	31.42	88.55	-407.60	559.87	6,716.22	6,633.56	82.65	81.256		
17,200.00	7,870.00	7,893.04	7,800.49	139.62	31.42	88.55	-407.60	559.87	6,810.01	6,727.35	82.66	82.384		
17,300.00	7,870.00	7,892.86	7,800.31	141.27	31.42	88.54	-407.60	559.88	6,903.98	6,821.31	82.67	83.513		
17,400.00	7,870.00	7,892.68	7,800.13	142.92	31.42	88.54	-407.60	559.88	6,998.12	6,915.44	82.68	84.643		
17,500.00	7,870.00	7,892.50	7,799.95	144.58	31.42	88.53	-407.60	559.88	7,092.42	7,009.73	82.69	85.774		
17,600.00	7,870.00	7,892.33	7,799.77	146.23	31.42	88.53	-407.60	559.88	7,186.87	7,104.17	82.70	86.906		
17,700.00	7,870.00	7,892.16	7,799.60	147.89	31.42	88.52	-407.60	559.89	7,281.47	7,198.76	82.71	88.038		
17,800.00	7,870.00	7,891.99	7,799.43	149.56	31.42	88.52	-407.60	559.89	7,376.21	7,293.49	82.72	89.171		
17,900.00	7,870.00	7,891.82	7,799.27	151.22	31.42	88.52	-407.60	559.89	7,471.09	7,388.36	82.73	90.305		
18,000.00	7,870.00	7,891.66	7,799.10	152.89	31.42	88.51	-407.60	559.89	7,566.10	7,483.36	82.74	91.439		
18,100.00	7,870.00	7,891.50	7,798.94	154.55	31.42	88.51	-407.60	559.89	7,661.24	7,578.48	82.76	92.573		
18,200.00	7,870.00	7,891.34	7,798.79	156.22	31.42	88.50	-407.60	559.90	7,756.50	7,673.73	82.77	93.708		
18,300.00	7,870.00	7,891.18	7,798.63	157.90	31.42	88.50	-407.60	559.90	7,851.88	7,769.09	82.79	94.843		
18,400.00	7,870.00	7,891.03	7,798.48	159.57	31.42	88.50	-407.60	559.90	7,947.37	7,864.57	82.80	95.977		
18,500.00	7,870.00	7,890.88	7,798.33	161.25	31.41	88.49	-407.61	559.90	8,042.97	7,960.15	82.82	97.112		
18,600.00	7,870.00	7,890.73	7,798.18	162.93	31.41	88.49	-407.61	559.91	8,138.68	8,055.84	82.84	98.246		
18,700.00	7,870.00	7,890.58	7,798.03	164.60	31.41	88.49	-407.61	559.91	8,234.49	8,151.63	82.86	99.381		
18,797.52	7,870.00	7,890.44	7,797.89	166.24	31.41	88.48	-407.61	559.91	8,328.02	8,245.14	82.88	100.487		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-25.88	218.21	-105.84	242.73					
100.00	100.00	90.90	90.90	0.13	0.15	-25.99	217.84	-106.21	242.35	242.07	0.28	856.444		
160.84	160.84	152.35	152.34	0.35	0.25	-26.20	217.17	-106.88	242.05	241.45	0.60	402.565 CC		
200.00	200.00	188.04	188.03	0.49	0.40	-26.26	217.20	-107.16	242.20	241.31	0.89	271.146 ES		
300.00	300.00	279.47	279.43	0.85	0.72	-26.08	219.46	-107.41	244.57	242.99	1.58	154.875		
400.00	400.00	370.43	370.16	1.21	1.06	-25.48	225.73	-107.56	250.83	248.57	2.26	110.793		
500.00	500.00	462.08	461.30	1.57	1.39	-24.51	235.39	-107.33	260.29	257.34	2.95	88.124		
600.00	600.00	552.13	550.49	1.93	1.75	-23.49	247.71	-107.68	272.97	269.33	3.64	75.001		
700.00	700.00	640.37	637.38	2.29	2.13	-22.36	263.08	-108.23	289.30	284.98	4.32	67.003		
800.00	800.00	727.46	722.51	2.64	2.53	-21.21	281.42	-109.22	309.32	304.33	4.99	62.006		
900.00	900.00	812.67	805.08	3.00	2.95	-20.08	302.37	-110.51	332.94	327.29	5.65	58.954		
1,000.00	1,000.00	898.65	887.54	3.36	3.41	-18.92	326.69	-111.99	360.24	353.93	6.31	57.093		
1,100.00	1,099.98	993.83	978.46	3.72	3.95	-72.13	354.78	-113.99	388.47	381.46	7.01	55.386		
1,200.00	1,199.84	1,088.91	1,069.35	4.07	4.49	-71.32	382.61	-115.90	415.47	407.73	7.74	53.681		
1,300.00	1,299.45	1,179.47	1,155.53	4.43	5.02	-70.94	410.37	-117.79	442.74	434.29	8.44	52.450		
1,400.00	1,398.70	1,277.26	1,248.55	4.80	5.61	-71.01	440.45	-120.07	469.12	459.91	9.21	50.933		
1,500.00	1,497.47	1,371.89	1,338.58	5.18	6.18	-71.40	469.53	-122.18	494.43	484.45	9.98	49.542		
1,600.00	1,595.62	1,462.84	1,424.82	5.57	6.74	-71.98	498.32	-124.02	519.63	508.88	10.75	48.327		
1,700.00	1,693.06	1,553.89	1,510.84	6.00	7.31	-72.73	528.17	-125.55	544.98	533.42	11.56	47.130		
1,800.00	1,789.64	1,646.28	1,597.87	6.45	7.91	-73.71	559.11	-127.41	570.44	558.01	12.43	45.890		
1,900.00	1,885.27	1,742.09	1,688.13	6.94	8.52	-75.00	591.15	-129.89	595.59	582.22	13.38	44.521		
2,000.00	1,979.82	1,839.25	1,779.85	7.47	9.14	-76.57	623.05	-133.06	620.22	605.82	14.40	43.082		
2,100.00	2,073.17	1,938.57	1,873.87	8.05	9.77	-78.43	654.80	-136.94	644.42	628.92	15.50	41.582		
2,200.00	2,165.21	2,037.73	1,968.23	8.67	10.38	-80.53	684.97	-141.34	667.91	651.25	16.67	40.071		
2,300.00	2,255.84	2,135.10	2,061.15	9.35	10.97	-82.77	713.66	-146.19	691.64	673.74	17.90	38.641		
2,400.00	2,344.94	2,235.93	2,157.64	10.09	11.57	-85.16	742.63	-150.22	715.35	696.12	19.24	37.189		
2,500.00	2,432.39	2,334.54	2,252.27	10.89	12.14	-87.54	770.21	-153.12	739.22	718.59	20.63	35.830		
2,519.29	2,449.07	2,353.25	2,270.26	11.05	12.25	-88.00	775.36	-153.61	743.90	723.00	20.91	35.583		
2,600.00	2,518.69	2,434.41	2,348.38	11.74	12.71	-90.36	797.27	-155.44	763.72	741.63	22.09	34.572		
2,700.00	2,604.95	2,526.83	2,437.50	12.62	13.23	-92.91	821.69	-156.92	788.94	765.44	23.50	33.567		
2,800.00	2,691.22	2,617.89	2,525.30	13.52	13.74	-95.27	845.79	-158.33	815.65	790.75	24.91	32.745		
2,900.00	2,777.48	2,710.36	2,614.53	14.43	14.26	-97.53	870.01	-159.75	843.54	817.21	26.32	32.047		
3,000.00	2,863.75	2,812.12	2,712.84	15.35	14.82	-99.87	896.26	-160.81	872.09	844.28	27.80	31.364		
3,100.00	2,950.01	2,904.81	2,802.34	16.28	15.34	-101.81	920.39	-160.32	900.72	871.52	29.21	30.838		
3,200.00	3,036.27	2,991.85	2,886.40	17.22	15.82	-103.54	942.94	-160.23	930.55	900.00	30.55	30.461		
3,300.00	3,122.54	3,078.77	2,970.34	18.17	16.30	-105.19	965.53	-160.59	961.69	929.81	31.88	30.167		
3,400.00	3,208.80	3,160.23	3,048.59	19.13	16.77	-106.56	988.11	-160.48	994.07	960.92	33.15	29.984		
3,500.00	3,295.07	3,249.86	3,134.23	20.09	17.31	-107.90	1,014.58	-160.46	1,028.05	993.54	34.51	29.792		
3,600.00	3,381.33	3,347.34	3,227.37	21.05	17.89	-109.25	1,043.31	-159.46	1,061.70	1,025.76	35.94	29.544		
3,700.00	3,467.59	3,440.94	3,316.76	22.02	18.45	-110.46	1,071.05	-158.55	1,095.95	1,058.63	37.32	29.365		
3,800.00	3,553.86	3,543.21	3,414.24	22.99	19.07	-111.64	1,101.90	-156.25	1,129.77	1,090.98	38.79	29.125		
3,900.00	3,640.12	3,620.09	3,487.72	23.97	19.53	-112.51	1,124.47	-154.68	1,163.85	1,123.86	39.99	29.102		
4,000.00	3,726.38	3,683.27	3,548.05	24.95	19.90	-113.22	1,143.21	-155.00	1,200.38	1,159.36	41.02	29.263		
4,100.00	3,812.65	3,786.36	3,646.93	25.93	20.51	-114.42	1,172.28	-156.82	1,237.76	1,195.31	42.45	29.159		
4,200.00	3,898.91	3,877.75	3,734.95	26.91	21.03	-115.48	1,196.85	-158.53	1,275.10	1,231.38	43.72	29.165		
4,300.00	3,985.18	3,975.23	3,828.70	27.90	21.59	-116.51	1,223.49	-159.68	1,312.37	1,267.31	45.06	29.127		
4,400.00	4,071.44	4,069.90	3,919.73	28.88	22.13	-117.44	1,249.51	-160.45	1,349.71	1,303.35	46.36	29.113		
4,500.00	4,157.70	4,176.60	4,022.60	29.87	22.73	-118.46	1,277.83	-160.54	1,386.35	1,338.58	47.77	29.019 SF		
4,600.00	4,243.97	4,265.96	4,108.47	30.86	23.24	-119.22	1,302.55	-159.99	1,423.07	1,374.05	49.02	29.033		
4,700.00	4,330.23	4,356.14	4,195.02	31.85	23.77	-119.93	1,327.89	-159.20	1,459.92	1,409.65	50.27	29.042		
4,800.00	4,416.49	4,431.53	4,267.40	32.84	24.21	-120.51	1,348.96	-159.14	1,497.60	1,446.25	51.35	29.162		
4,900.00	4,502.76	4,502.92	4,336.03	33.84	24.62	-121.06	1,368.60	-160.07	1,536.54	1,484.17	52.37	29.340		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,615.69	4,444.45	34.83	25.26	-121.90	1,399.53	-161.80	1,575.93	1,522.09	53.84	29.272		
5,100.00	4,675.29	4,726.92	4,550.95	35.82	25.92	-122.59	1,431.62	-161.11	1,613.94	1,558.62	55.31	29.179		
5,200.00	4,761.55	4,808.65	4,629.02	36.82	26.41	-123.05	1,455.79	-160.32	1,651.94	1,595.46	56.47	29.251		
5,300.00	4,847.81	4,909.95	4,726.21	37.82	27.00	-123.65	1,484.35	-159.53	1,689.89	1,632.06	57.83	29.223		
5,400.00	4,934.08	4,992.46	4,805.77	38.81	27.47	-124.17	1,506.17	-159.34	1,728.00	1,669.06	58.94	29.319		
5,500.00	5,020.34	5,071.83	4,882.57	39.81	27.90	-124.70	1,526.21	-159.83	1,766.73	1,706.75	59.99	29.451		
5,600.00	5,106.60	5,153.21	4,961.48	40.81	28.33	-125.24	1,546.06	-161.01	1,806.16	1,745.12	61.04	29.590		
5,700.00	5,192.87	5,247.43	5,053.12	41.81	28.82	-125.89	1,567.87	-162.87	1,845.95	1,783.76	62.19	29.681		
5,800.00	5,279.13	5,356.24	5,159.80	42.81	29.34	-126.73	1,589.09	-165.21	1,885.35	1,821.94	63.42	29.729		
5,900.00	5,365.40	5,463.13	5,265.36	43.81	29.79	-127.65	1,605.78	-167.32	1,924.08	1,859.56	64.53	29.817		
6,000.00	5,451.66	5,560.64	5,362.14	44.81	30.16	-128.56	1,617.48	-169.30	1,962.54	1,897.06	65.48	29.972		
6,100.00	5,537.92	5,652.78	5,453.84	45.81	30.48	-129.45	1,626.25	-171.30	2,001.10	1,934.76	66.33	30.168		
6,200.00	5,624.19	5,737.96	5,538.78	46.81	30.74	-130.31	1,632.15	-173.49	2,040.02	1,972.94	67.08	30.414		
6,300.00	5,710.45	5,867.08	5,667.77	47.81	31.09	-131.67	1,637.18	-176.24	2,078.65	2,010.65	68.00	30.567		
6,400.00	5,796.72	5,975.82	5,776.49	48.81	31.37	-132.81	1,639.48	-176.72	2,116.03	2,047.26	68.77	30.770		
6,500.00	5,882.98	6,055.23	5,855.88	49.81	31.56	-133.62	1,640.83	-177.02	2,153.89	2,084.52	69.37	31.049		
6,600.00	5,969.24	6,131.94	5,932.59	50.82	31.74	-134.42	1,641.05	-177.80	2,192.65	2,122.72	69.93	31.357		
6,700.00	6,055.51	6,215.92	6,016.56	51.82	31.93	-135.26	1,641.25	-178.87	2,232.12	2,161.62	70.50	31.661		
6,800.00	6,141.77	6,311.88	6,112.51	52.82	32.16	-136.19	1,641.78	-179.86	2,271.89	2,200.76	71.13	31.938		
6,900.00	6,228.03	6,385.93	6,186.55	53.83	32.34	-136.88	1,642.29	-180.70	2,312.19	2,240.53	71.66	32.267		
7,000.00	6,314.30	6,482.76	6,283.37	54.83	32.58	-137.76	1,643.21	-181.78	2,352.91	2,280.61	72.30	32.544		
7,100.00	6,400.56	6,569.11	6,369.72	55.83	32.79	-138.51	1,643.77	-182.51	2,393.77	2,320.90	72.87	32.848		
7,200.00	6,486.83	6,678.80	6,479.40	56.84	33.05	-139.46	1,643.97	-182.98	2,434.66	2,361.11	73.56	33.100		
7,300.00	6,573.09	6,767.57	6,568.18	57.84	33.27	-140.18	1,644.67	-182.86	2,475.42	2,401.27	74.14	33.386		
7,400.00	6,659.35	6,839.57	6,640.17	58.84	33.46	-140.74	1,645.72	-182.91	2,516.69	2,442.04	74.65	33.712		
7,500.00	6,745.62	6,916.97	6,717.55	59.85	33.67	-141.32	1,647.17	-183.37	2,558.72	2,483.52	75.19	34.028		
7,600.00	6,831.88	7,007.93	6,808.49	60.85	33.92	-141.97	1,649.10	-184.06	2,601.17	2,525.35	75.82	34.308		
7,700.00	6,918.14	7,099.52	6,900.05	61.86	34.17	-142.61	1,651.21	-184.43	2,643.57	2,567.13	76.45	34.580		
7,800.00	7,004.41	7,183.63	6,984.14	62.86	34.40	-143.18	1,652.84	-184.78	2,686.25	2,609.23	77.03	34.875		
7,900.00	7,090.67	7,272.08	7,072.58	63.87	34.65	-143.76	1,654.57	-185.22	2,729.25	2,651.62	77.63	35.156		
8,000.00	7,176.94	7,394.33	7,194.76	64.87	35.00	-144.51	1,658.50	-185.25	2,772.07	2,693.60	78.47	35.327		
8,027.52	7,200.68	7,438.16	7,238.55	65.15	35.13	-144.76	1,660.47	-184.77	2,783.59	2,704.82	78.77	35.339		
8,050.00	7,220.18	7,450.36	7,250.74	65.37	35.16	-149.26	1,660.77	-184.64	2,793.02	2,714.17	78.86	35.419		
8,100.00	7,264.25	7,494.12	7,294.50	65.85	35.28	-160.29	1,661.47	-184.05	2,814.11	2,734.97	79.15	35.556		
8,150.00	7,308.99	7,532.62	7,332.99	66.28	35.38	-172.40	1,661.20	-183.51	2,835.26	2,755.88	79.38	35.718		
8,200.00	7,354.07	7,566.23	7,366.59	66.67	35.45	174.89	1,660.58	-183.13	2,856.40	2,776.84	79.57	35.900		
8,250.00	7,399.14	7,599.79	7,400.13	67.02	35.53	162.28	1,659.66	-182.86	2,877.40	2,797.66	79.74	36.085		
8,300.00	7,443.85	7,676.31	7,476.61	67.32	35.70	150.70	1,657.14	-182.07	2,897.86	2,817.76	80.10	36.176		
8,350.00	7,487.88	7,729.99	7,530.25	67.56	35.82	140.45	1,655.55	-181.00	2,917.22	2,836.87	80.36	36.303		
8,400.00	7,530.87	7,767.06	7,567.30	67.75	35.90	131.60	1,654.53	-180.30	2,935.96	2,855.42	80.54	36.455		
8,450.00	7,572.51	7,805.26	7,605.49	67.90	35.99	124.18	1,653.54	-179.68	2,954.00	2,873.29	80.72	36.596		
8,500.00	7,612.48	7,853.36	7,653.57	68.00	36.10	118.12	1,652.28	-178.85	2,971.18	2,890.23	80.95	36.704		
8,550.00	7,650.47	7,904.33	7,704.51	68.05	36.21	113.18	1,650.84	-177.84	2,987.36	2,906.17	81.19	36.793		
8,600.00	7,686.20	7,971.38	7,771.49	68.06	36.36	109.36	1,648.57	-175.98	3,002.35	2,920.85	81.50	36.837		
8,650.00	7,719.39	8,113.59	7,913.31	68.03	36.66	107.38	1,641.67	-168.44	3,015.29	2,933.24	82.05	36.748		
8,700.00	7,749.79	8,157.76	7,957.30	67.97	36.76	104.76	1,639.05	-165.33	3,027.05	2,944.80	82.25	36.804		
8,750.00	7,777.17	8,750.00	7,979.45	67.87	37.98	102.34	1,637.72	-163.74	3,037.97	2,954.39	83.57	36.350		
8,800.00	7,801.32	8,171.00	7,970.48	67.74	36.78	99.84	1,638.24	-164.37	3,048.36	2,965.93	82.43	36.982		
8,850.00	7,822.06	8,200.01	7,999.38	67.59	36.85	98.31	1,636.66	-162.44	3,057.80	2,975.19	82.61	37.016		
8,900.00	7,839.23	8,207.87	8,007.22	67.41	36.87	96.76	1,636.30	-161.99	3,066.69	2,983.97	82.72	37.072		
8,950.00	7,852.69	8,214.10	8,013.44	67.22	36.88	95.47	1,636.04	-161.65	3,074.86	2,992.02	82.84	37.118		
9,000.00	7,862.35	8,218.71	8,018.04	67.00	36.89	94.42	1,635.87	-161.41	3,082.26	2,999.30	82.96	37.153		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	8,221.71	8,021.03	66.78	36.90	93.61	1,635.75	-161.26	3,088.87	3,005.78	83.09	37.177		
9,098.65	7,870.00	8,223.10	8,022.42	66.55	36.90	93.03	1,635.70	-161.19	3,094.51	3,011.30	83.21	37.190		
9,100.00	7,870.00	8,223.12	8,022.44	66.55	36.90	93.03	1,635.70	-161.19	3,094.65	3,011.44	83.21	37.190		
9,200.00	7,870.00	8,224.45	8,023.76	66.09	36.90	93.05	1,635.66	-161.12	3,107.05	3,023.59	83.46	37.227		
9,300.00	7,870.00	8,225.72	8,025.04	65.65	36.91	93.07	1,635.61	-161.06	3,122.60	3,038.89	83.70	37.306		
9,400.00	7,870.00	8,226.95	8,026.26	65.24	36.91	93.10	1,635.57	-161.00	3,141.25	3,057.32	83.93	37.427		
9,500.00	7,870.00	8,228.14	8,027.45	64.85	36.91	93.12	1,635.53	-160.95	3,162.96	3,078.81	84.14	37.590		
9,600.00	7,870.00	8,229.28	8,028.59	64.48	36.92	93.14	1,635.49	-160.90	3,187.65	3,103.31	84.34	37.794		
9,700.00	7,870.00	8,230.39	8,029.69	64.13	36.92	93.16	1,635.46	-160.84	3,215.27	3,130.74	84.53	38.038		
9,800.00	7,870.00	8,231.45	8,030.76	63.80	36.92	93.18	1,635.42	-160.80	3,245.73	3,161.04	84.70	38.322		
9,900.00	7,870.00	8,232.49	8,031.79	63.50	36.92	93.20	1,635.39	-160.75	3,278.96	3,194.11	84.85	38.644		
10,000.00	7,870.00	8,233.48	8,032.78	63.22	36.92	93.22	1,635.36	-160.71	3,314.88	3,229.89	84.99	39.004		
10,100.00	7,870.00	8,234.45	8,033.75	62.96	36.93	93.24	1,635.33	-160.66	3,353.39	3,268.28	85.11	39.400		
10,200.00	7,870.00	8,264.00	8,063.27	62.72	36.99	93.79	1,634.67	-159.58	3,394.79	3,309.48	85.32	39.790		
10,300.00	7,870.00	8,264.00	8,063.27	62.50	36.99	93.79	1,634.67	-159.58	3,438.21	3,352.80	85.41	40.257		
10,400.00	7,870.00	8,264.00	8,063.27	62.31	36.99	93.79	1,634.67	-159.58	3,483.96	3,398.47	85.48	40.756		
10,500.00	7,870.00	8,264.00	8,063.27	62.15	36.99	93.79	1,634.67	-159.58	3,531.94	3,446.40	85.55	41.287		
10,600.00	7,870.00	8,264.00	8,063.27	62.01	36.99	93.79	1,634.67	-159.58	3,582.08	3,496.48	85.60	41.848		
10,700.00	7,870.00	8,264.00	8,063.27	61.90	36.99	93.79	1,634.67	-159.58	3,634.28	3,548.64	85.64	42.437		
10,800.00	7,870.00	8,264.00	8,063.27	61.82	36.99	93.79	1,634.67	-159.58	3,688.45	3,602.78	85.67	43.055		
10,900.00	7,870.00	8,264.00	8,063.27	61.78	36.99	93.79	1,634.67	-159.58	3,744.50	3,658.81	85.69	43.699		
11,000.00	7,870.00	8,264.00	8,063.27	61.77	36.99	93.79	1,634.67	-159.58	3,802.36	3,716.66	85.70	44.368		
11,100.00	7,870.00	8,264.00	8,063.27	61.81	36.99	93.79	1,634.67	-159.58	3,861.95	3,776.24	85.71	45.060		
11,200.00	7,870.00	8,264.00	8,063.27	61.90	36.99	93.79	1,634.67	-159.58	3,923.18	3,837.47	85.70	45.776		
11,300.00	7,870.00	8,264.00	8,063.27	62.03	36.99	93.79	1,634.67	-159.58	3,985.97	3,900.28	85.69	46.514		
11,400.00	7,870.00	8,264.00	8,063.27	62.23	36.99	93.79	1,634.67	-159.58	4,050.26	3,964.59	85.68	47.272		
11,500.00	7,870.00	8,264.00	8,063.27	62.50	36.99	93.79	1,634.67	-159.58	4,115.98	4,030.32	85.66	48.051		
11,600.00	7,870.00	8,264.00	8,063.27	62.84	36.99	93.79	1,634.67	-159.58	4,183.06	4,097.42	85.64	48.847		
11,700.00	7,870.00	8,264.00	8,063.27	63.25	36.99	93.79	1,634.67	-159.58	4,251.43	4,165.82	85.61	49.662		
11,800.00	7,870.00	8,264.00	8,063.27	63.76	36.99	93.79	1,634.67	-159.58	4,321.03	4,235.46	85.58	50.493		
11,900.00	7,870.00	8,264.00	8,063.27	64.34	36.99	93.79	1,634.67	-159.58	4,391.81	4,306.27	85.54	51.341		
12,000.00	7,870.00	8,264.00	8,063.27	65.01	36.99	93.79	1,634.67	-159.58	4,463.70	4,378.20	85.51	52.203		
12,100.00	7,870.00	8,264.00	8,063.27	65.77	36.99	93.79	1,634.67	-159.58	4,536.67	4,451.20	85.47	53.080		
12,200.00	7,870.00	8,264.00	8,063.27	66.61	36.99	93.79	1,634.67	-159.58	4,610.64	4,525.21	85.43	53.971		
12,300.00	7,870.00	8,264.00	8,063.27	67.51	36.99	93.79	1,634.67	-159.58	4,685.58	4,600.19	85.39	54.874		
12,400.00	7,870.00	8,264.00	8,063.27	68.49	36.99	93.79	1,634.67	-159.58	4,761.44	4,676.10	85.35	55.790		
12,500.00	7,870.00	8,264.00	8,063.27	69.52	36.99	93.79	1,634.67	-159.58	4,838.18	4,752.88	85.30	56.717		
12,600.00	7,870.00	8,264.00	8,063.27	70.61	36.99	93.79	1,634.67	-159.58	4,915.76	4,830.50	85.26	57.656		
12,700.00	7,870.00	8,264.00	8,063.27	71.75	36.99	93.79	1,634.67	-159.58	4,994.13	4,908.91	85.22	58.604		
12,800.00	7,870.00	8,264.00	8,063.27	72.93	36.99	93.79	1,634.67	-159.58	5,073.26	4,988.09	85.17	59.563		
12,900.00	7,870.00	8,264.00	8,063.27	74.14	36.99	93.79	1,634.67	-159.58	5,153.12	5,067.99	85.13	60.531		
13,000.00	7,870.00	8,264.00	8,063.27	75.39	36.99	93.79	1,634.67	-159.58	5,233.67	5,148.58	85.09	61.508		
13,100.00	7,870.00	8,264.00	8,063.27	76.67	36.99	93.79	1,634.67	-159.58	5,314.89	5,229.84	85.05	62.493		
13,200.00	7,870.00	8,264.00	8,063.27	77.98	36.99	93.79	1,634.67	-159.58	5,396.73	5,311.72	85.01	63.486		
13,300.00	7,870.00	8,264.00	8,063.27	79.31	36.99	93.79	1,634.67	-159.58	5,479.17	5,394.21	84.97	64.486		
13,400.00	7,870.00	8,264.00	8,063.27	80.67	36.99	93.79	1,634.67	-159.58	5,562.20	5,477.27	84.93	65.494		
13,500.00	7,870.00	8,264.00	8,063.27	82.04	36.99	93.79	1,634.67	-159.58	5,645.77	5,560.88	84.89	66.508		
13,600.00	7,870.00	8,264.00	8,063.27	83.43	36.99	93.79	1,634.67	-159.58	5,729.87	5,645.02	84.85	67.529		
13,700.00	7,870.00	8,264.00	8,063.27	84.84	36.99	93.79	1,634.67	-159.58	5,814.47	5,729.65	84.81	68.556		
13,800.00	7,870.00	8,264.00	8,063.27	86.27	36.99	93.79	1,634.67	-159.58	5,899.55	5,814.77	84.78	69.588		
13,900.00	7,870.00	8,264.00	8,063.27	87.71	36.99	93.79	1,634.67	-159.58	5,985.10	5,900.35	84.74	70.626		
14,000.00	7,870.00	8,264.00	8,063.27	89.16	36.99	93.79	1,634.67	-159.58	6,071.08	5,986.37	84.71	71.668		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
14,100.00	7,870.00	8,264.00	8,063.27	90.63	36.99	93.79	1,634.67	-159.58	6,157.49	6,072.81	84.68	72.716	
14,200.00	7,870.00	8,264.00	8,063.27	92.10	36.99	93.79	1,634.67	-159.58	6,244.31	6,159.66	84.65	73.768	
14,300.00	7,870.00	8,264.00	8,063.27	93.59	36.99	93.79	1,634.67	-159.58	6,331.51	6,246.89	84.62	74.825	
14,400.00	7,870.00	8,264.00	8,063.27	95.09	36.99	93.79	1,634.67	-159.58	6,419.09	6,334.50	84.59	75.885	
14,500.00	7,870.00	8,264.00	8,063.27	96.60	36.99	93.79	1,634.67	-159.58	6,507.03	6,422.46	84.56	76.949	
14,600.00	7,870.00	8,264.00	8,063.27	98.11	36.99	93.79	1,634.67	-159.58	6,595.31	6,510.77	84.54	78.017	
14,700.00	7,870.00	8,264.00	8,063.27	99.64	36.99	93.79	1,634.67	-159.58	6,683.92	6,599.40	84.51	79.088	
14,800.00	7,870.00	8,264.00	8,063.27	101.17	36.99	93.79	1,634.67	-159.58	6,772.84	6,688.35	84.49	80.162	
14,900.00	7,870.00	8,264.00	8,063.27	102.71	36.99	93.79	1,634.67	-159.58	6,862.07	6,777.61	84.47	81.240	
15,000.00	7,870.00	8,264.00	8,063.27	104.26	36.99	93.79	1,634.67	-159.58	6,951.60	6,867.15	84.45	82.320	
15,100.00	7,870.00	8,264.00	8,063.27	105.82	36.99	93.79	1,634.67	-159.58	7,041.41	6,956.98	84.43	83.402	
15,200.00	7,870.00	8,264.00	8,063.27	107.38	36.99	93.79	1,634.67	-159.58	7,131.48	7,047.08	84.41	84.487	
15,300.00	7,870.00	8,264.00	8,063.27	108.95	36.99	93.79	1,634.67	-159.58	7,221.82	7,137.43	84.39	85.575	
15,400.00	7,870.00	8,264.00	8,063.27	110.52	36.99	93.79	1,634.67	-159.58	7,312.41	7,228.04	84.38	86.664	
15,500.00	7,870.00	8,264.00	8,063.27	112.10	36.99	93.79	1,634.67	-159.58	7,403.25	7,318.89	84.36	87.756	
15,600.00	7,870.00	8,264.00	8,063.27	113.69	36.99	93.79	1,634.67	-159.58	7,494.31	7,409.97	84.35	88.849	
15,700.00	7,870.00	8,264.00	8,063.27	115.28	36.99	93.79	1,634.67	-159.58	7,585.61	7,501.27	84.34	89.944	
15,800.00	7,870.00	8,264.00	8,063.27	116.87	36.99	93.79	1,634.67	-159.58	7,677.11	7,592.79	84.33	91.041	
15,900.00	7,870.00	8,264.00	8,063.27	118.47	36.99	93.79	1,634.67	-159.58	7,768.83	7,684.52	84.32	92.139	
16,000.00	7,870.00	8,264.00	8,063.27	120.07	36.99	93.79	1,634.67	-159.58	7,860.75	7,776.44	84.31	93.238	
16,100.00	7,870.00	8,264.00	8,063.27	121.68	36.99	93.79	1,634.67	-159.58	7,952.87	7,868.57	84.30	94.339	
16,200.00	7,870.00	8,264.00	8,063.27	123.30	36.99	93.79	1,634.67	-159.58	8,045.17	7,960.88	84.30	95.441	
16,300.00	7,870.00	8,264.00	8,063.27	124.91	36.99	93.79	1,634.67	-159.58	8,137.66	8,053.36	84.29	96.543	
16,400.00	7,870.00	8,264.00	8,063.27	126.53	36.99	93.79	1,634.67	-159.58	8,230.32	8,146.03	84.29	97.647	
16,500.00	7,870.00	8,264.00	8,063.27	128.16	36.99	93.79	1,634.67	-159.58	8,323.15	8,238.86	84.28	98.751	
16,600.00	7,870.00	8,264.00	8,063.27	129.79	36.99	93.79	1,634.67	-159.58	8,416.14	8,331.86	84.28	99.856	
16,700.00	7,870.00	8,264.00	8,063.27	131.42	36.99	93.79	1,634.67	-159.58	8,509.30	8,425.01	84.28	100.962	
16,800.00	7,870.00	8,264.00	8,063.27	133.05	36.99	93.79	1,634.67	-159.58	8,602.60	8,518.32	84.28	102.068	
16,900.00	7,870.00	8,264.00	8,063.27	134.69	36.99	93.79	1,634.67	-159.58	8,696.06	8,611.77	84.28	103.175	
17,000.00	7,870.00	8,264.00	8,063.27	136.33	36.99	93.79	1,634.67	-159.58	8,789.66	8,705.37	84.29	104.282	
17,100.00	7,870.00	8,264.00	8,063.27	137.97	36.99	93.79	1,634.67	-159.58	8,883.40	8,799.11	84.29	105.389	
17,200.00	7,870.00	8,264.00	8,063.27	139.62	36.99	93.79	1,634.67	-159.58	8,977.27	8,892.98	84.30	106.496	
17,300.00	7,870.00	8,264.00	8,063.27	141.27	36.99	93.79	1,634.67	-159.58	9,071.28	8,986.98	84.30	107.604	
17,400.00	7,870.00	8,264.00	8,063.27	142.92	36.99	93.79	1,634.67	-159.58	9,165.41	9,081.10	84.31	108.712	
17,500.00	7,870.00	8,264.00	8,063.27	144.58	36.99	93.79	1,634.67	-159.58	9,259.67	9,175.35	84.32	109.819	
17,600.00	7,870.00	8,264.00	8,063.27	146.23	36.99	93.79	1,634.67	-159.58	9,354.04	9,269.72	84.33	110.927	
17,700.00	7,870.00	8,264.00	8,063.27	147.89	36.99	93.79	1,634.67	-159.58	9,448.53	9,364.20	84.34	112.034	
17,800.00	7,870.00	8,264.00	8,063.27	149.56	36.99	93.79	1,634.67	-159.58	9,543.14	9,458.79	84.35	113.141	
17,900.00	7,870.00	8,264.00	8,063.27	151.22	36.99	93.79	1,634.67	-159.58	9,637.85	9,553.49	84.36	114.248	
18,000.00	7,870.00	8,264.00	8,063.27	152.89	36.99	93.79	1,634.67	-159.58	9,732.67	9,648.30	84.37	115.354	
18,100.00	7,870.00	8,278.89	8,078.15	154.55	37.03	94.06	1,634.45	-159.16	9,827.57	9,743.16	84.41	116.429	
18,200.00	7,870.00	8,279.71	8,078.97	156.22	37.03	94.08	1,634.44	-159.14	9,922.59	9,838.16	84.42	117.533	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-18.98	218.21	-75.04	230.97				
100.00	100.00	89.67	89.66	0.13	0.14	-19.02	218.21	-75.24	230.82	230.54	0.28	837.092	
200.00	200.00	190.33	190.33	0.49	0.47	-19.16	218.06	-75.78	230.86	229.90	0.96	240.581	
300.00	300.00	293.05	293.04	0.85	0.83	-19.38	217.14	-76.36	230.19	228.51	1.68	136.689	
400.00	400.00	402.10	402.01	1.21	1.22	-19.75	213.18	-76.56	226.83	224.39	2.43	93.158	
500.00	500.00	509.78	509.37	1.57	1.62	-20.59	204.97	-76.99	219.81	216.63	3.18	69.066	
600.00	600.00	617.55	616.38	1.93	2.04	-22.01	192.34	-77.73	209.12	205.19	3.93	53.168	
700.00	700.00	727.00	724.42	2.29	2.50	-23.74	174.91	-76.92	194.15	189.46	4.69	41.398	
800.00	800.00	832.26	827.30	2.64	2.98	-26.32	152.71	-75.54	174.41	168.97	5.44	32.083	
900.00	900.00	932.75	924.73	3.00	3.49	-30.14	128.14	-74.41	152.20	146.00	6.20	24.564	
1,000.00	1,000.00	1,030.37	1,018.83	3.36	4.00	-35.95	102.15	-74.08	129.44	122.44	7.00	18.504	
1,100.00	1,099.98	1,127.42	1,112.08	3.72	4.54	-100.49	75.26	-74.04	108.15	100.27	7.89	13.715	
1,200.00	1,199.84	1,222.49	1,203.02	4.07	5.09	-116.52	47.55	-74.22	91.94	83.00	8.94	10.286	
1,280.20	1,279.75	1,298.49	1,275.61	4.36	5.54	-133.42	25.04	-74.21	87.27	77.43	9.84	8.868 CC, ES	
1,300.00	1,299.45	1,317.25	1,293.51	4.43	5.65	-137.85	19.45	-74.07	87.58	77.53	10.05	8.715 SF	
1,400.00	1,398.70	1,410.32	1,382.18	4.80	6.21	-158.88	-8.81	-72.80	98.95	88.04	10.91	9.070	
1,500.00	1,497.47	1,501.81	1,469.07	5.18	6.77	-174.80	-37.38	-71.21	125.06	113.53	11.53	10.848	
1,600.00	1,595.62	1,591.46	1,554.29	5.57	7.33	175.02	-65.19	-69.63	160.73	148.62	12.11	13.269	
1,700.00	1,693.06	1,681.76	1,639.98	6.00	7.89	168.26	-93.60	-67.79	202.69	189.94	12.76	15.889	
1,800.00	1,789.64	1,772.13	1,726.05	6.45	8.45	163.88	-121.06	-65.41	248.03	234.57	13.46	18.428	
1,900.00	1,885.27	1,860.28	1,810.15	6.94	9.00	160.96	-147.35	-62.65	296.28	282.10	14.18	20.892	
2,000.00	1,979.82	1,950.67	1,896.46	7.47	9.55	158.82	-173.97	-59.34	347.19	332.23	14.96	23.209	
2,100.00	2,073.17	2,041.82	1,984.01	8.05	10.08	157.41	-199.02	-55.60	399.34	383.57	15.77	25.320	
2,200.00	2,165.21	2,126.43	2,065.59	8.67	10.57	156.53	-221.25	-52.30	453.47	436.93	16.54	27.409	
2,300.00	2,255.84	2,207.34	2,143.65	9.35	11.03	155.97	-242.40	-49.86	510.59	493.28	17.30	29.506	
2,400.00	2,344.94	2,288.24	2,221.89	10.09	11.49	155.65	-262.89	-48.09	570.12	552.03	18.08	31.531	
2,500.00	2,432.39	2,357.91	2,289.27	10.89	11.88	155.42	-280.56	-47.50	632.79	614.02	18.77	33.716	
2,519.29	2,449.07	2,371.11	2,302.03	11.05	11.96	155.39	-283.96	-47.51	645.29	626.39	18.90	34.136	
2,600.00	2,518.69	2,427.24	2,356.29	11.74	12.28	155.85	-298.33	-48.07	698.05	678.60	19.45	35.883	
2,700.00	2,604.95	2,500.17	2,426.81	12.62	12.68	156.46	-316.78	-49.94	763.95	743.79	20.16	37.886	
2,800.00	2,691.22	2,578.26	2,502.48	13.52	13.11	157.10	-335.93	-52.62	829.81	808.88	20.93	39.655	
2,900.00	2,777.48	2,660.30	2,581.87	14.43	13.57	157.53	-356.56	-53.86	895.23	873.50	21.73	41.202	
3,000.00	2,863.75	2,737.59	2,656.50	15.35	14.01	157.76	-376.65	-53.59	960.36	937.86	22.51	42.669	
3,100.00	2,950.01	2,801.99	2,718.49	16.28	14.39	157.87	-394.06	-52.85	1,025.81	1,002.64	23.17	44.269	
3,200.00	3,036.27	2,882.88	2,796.07	17.22	14.87	157.92	-416.92	-51.55	1,091.83	1,067.82	24.01	45.475	
3,300.00	3,122.54	2,967.17	2,876.99	18.17	15.38	157.91	-440.37	-48.80	1,156.79	1,131.90	24.89	46.476	
3,400.00	3,208.80	3,036.25	2,943.27	19.13	15.79	157.90	-459.71	-46.56	1,221.89	1,196.27	25.63	47.683	
3,500.00	3,295.07	3,099.49	3,003.78	20.09	16.18	157.88	-477.99	-44.58	1,287.62	1,261.31	26.31	48.945	
3,600.00	3,381.33	3,161.21	3,062.68	21.05	16.56	157.85	-496.35	-42.92	1,354.08	1,327.10	26.97	50.199	
3,700.00	3,467.59	3,229.84	3,128.19	22.02	16.98	157.86	-516.80	-42.11	1,421.22	1,393.50	27.71	51.285	
3,800.00	3,553.86	3,325.53	3,219.85	22.99	17.56	157.92	-544.27	-41.19	1,487.77	1,459.05	28.73	51.791	
3,900.00	3,640.12	3,413.34	3,304.14	23.97	18.09	157.96	-568.80	-39.49	1,553.42	1,523.76	29.66	52.375	
4,000.00	3,726.38	3,485.06	3,372.89	24.95	18.52	157.95	-589.12	-37.50	1,618.94	1,588.50	30.44	53.188	
4,100.00	3,812.65	3,538.06	3,423.56	25.93	18.85	157.94	-604.59	-36.04	1,685.03	1,654.00	31.03	54.306	
4,200.00	3,898.91	3,589.03	3,472.13	26.91	19.17	157.92	-620.01	-35.08	1,752.15	1,720.56	31.59	55.458	
4,300.00	3,985.18	3,644.66	3,525.08	27.90	19.52	157.93	-637.06	-34.80	1,820.13	1,787.92	32.20	56.519	
4,400.00	4,071.44	3,708.02	3,585.42	28.88	19.92	157.98	-656.38	-35.58	1,888.75	1,855.86	32.89	57.423	
4,500.00	4,157.70	3,785.38	3,659.20	29.87	20.40	158.06	-679.60	-37.05	1,957.40	1,923.68	33.72	58.041	
4,600.00	4,243.97	3,871.13	3,741.11	30.86	20.93	158.14	-704.94	-38.58	2,025.71	1,991.06	34.64	58.474	
4,700.00	4,330.23	3,957.71	3,823.88	31.85	21.46	158.21	-730.30	-39.50	2,093.54	2,057.97	35.57	58.853	
4,800.00	4,416.49	4,072.73	3,934.09	32.84	22.15	158.28	-763.22	-39.52	2,160.54	2,123.74	36.80	58.717	
4,900.00	4,502.76	4,183.77	4,041.12	33.84	22.80	158.36	-792.77	-38.50	2,225.69	2,187.73	37.96	58.633	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,242.00	4,097.36	34.83	23.13	158.41	-807.86	-38.30	2,290.83	2,252.24	38.59	59.356		
5,100.00	4,675.29	4,292.76	4,146.32	35.82	23.43	158.47	-821.22	-38.61	2,356.69	2,317.53	39.15	60.195		
5,200.00	4,761.55	4,339.20	4,191.01	36.82	23.70	158.52	-833.83	-39.41	2,423.49	2,383.83	39.66	61.107		
5,300.00	4,847.81	4,419.85	4,268.59	37.82	24.17	158.62	-855.79	-41.23	2,490.61	2,450.10	40.51	61.480		
5,400.00	4,934.08	4,474.55	4,321.21	38.81	24.49	158.69	-870.70	-42.60	2,557.87	2,516.77	41.10	62.235		
5,500.00	5,020.34	4,526.67	4,371.20	39.81	24.80	158.74	-885.33	-44.10	2,625.78	2,584.11	41.66	63.023		
5,600.00	5,106.60	4,601.31	4,442.69	40.81	25.25	158.81	-906.74	-46.06	2,693.95	2,651.48	42.46	63.440		
5,700.00	5,192.87	4,768.05	4,602.59	41.81	26.25	158.88	-953.94	-46.80	2,761.00	2,716.79	44.21	62.445		
5,800.00	5,279.13	4,978.76	4,807.17	42.81	27.40	159.05	-1,004.27	-45.26	2,824.46	2,778.17	46.28	61.025		
5,900.00	5,365.40	5,107.92	4,933.30	43.81	28.06	159.16	-1,031.89	-42.02	2,885.70	2,838.15	47.55	60.689		
6,000.00	5,451.66	5,396.19	5,218.43	44.81	29.27	159.80	-1,073.11	-42.47	2,944.39	2,894.54	49.85	59.069		
6,100.00	5,537.92	5,733.61	5,555.45	45.81	30.20	160.93	-1,084.59	-42.22	2,993.38	2,941.51	51.87	57.707		
6,200.00	5,624.19	5,822.04	5,643.87	46.81	30.39	161.23	-1,084.28	-41.27	3,041.05	2,988.47	52.58	57.836		
6,300.00	5,710.45	5,902.00	5,723.83	47.81	30.56	161.50	-1,083.86	-40.66	3,088.84	3,035.59	53.25	58.010		
6,400.00	5,796.72	5,986.28	5,808.11	48.81	30.74	161.78	-1,083.49	-40.19	3,136.85	3,082.93	53.93	58.167		
6,500.00	5,882.98	6,073.11	5,894.94	49.81	30.92	162.06	-1,083.09	-39.74	3,184.94	3,130.32	54.62	58.312		
6,600.00	5,969.24	6,158.63	5,980.45	50.82	31.10	162.33	-1,082.59	-39.43	3,233.08	3,177.78	55.30	58.464		
6,700.00	6,055.51	6,240.34	6,062.16	51.82	31.28	162.59	-1,082.04	-39.31	3,281.34	3,225.38	55.96	58.637		
6,800.00	6,141.77	6,316.62	6,138.44	52.82	31.44	162.82	-1,081.55	-39.45	3,329.86	3,273.27	56.59	58.839		
6,900.00	6,228.03	6,395.71	6,217.53	53.83	31.61	163.06	-1,081.21	-39.87	3,378.75	3,321.52	57.24	59.031		
7,000.00	6,314.30	6,498.57	6,320.38	54.83	31.84	163.36	-1,080.63	-40.29	3,427.57	3,369.58	57.99	59.106		
7,100.00	6,400.56	6,590.33	6,412.14	55.83	32.04	163.63	-1,079.78	-40.32	3,475.96	3,417.26	58.69	59.223		
7,200.00	6,486.83	6,671.56	6,493.37	56.84	32.22	163.85	-1,079.17	-40.47	3,524.61	3,465.26	59.35	59.390		
7,300.00	6,573.09	6,775.74	6,597.54	57.84	32.45	164.13	-1,078.02	-40.65	3,573.07	3,512.97	60.11	59.446		
7,400.00	6,659.35	6,871.60	6,693.40	58.84	32.67	164.39	-1,076.78	-40.41	3,621.21	3,560.38	60.83	59.529		
7,500.00	6,745.62	6,968.25	6,790.04	59.85	32.89	164.62	-1,075.87	-39.57	3,669.28	3,607.71	61.57	59.594		
7,600.00	6,831.88	7,060.38	6,882.15	60.85	33.11	164.82	-1,075.13	-38.10	3,717.05	3,654.75	62.30	59.664		
7,700.00	6,918.14	7,134.46	6,956.22	61.86	33.29	164.98	-1,074.76	-36.86	3,765.02	3,702.07	62.94	59.817		
7,800.00	7,004.41	7,204.00	7,025.75	62.86	33.47	165.13	-1,074.59	-35.97	3,813.40	3,749.84	63.56	59.995		
7,900.00	7,090.67	7,276.03	7,097.78	63.87	33.65	165.28	-1,074.49	-35.43	3,862.17	3,797.98	64.19	60.168		
8,000.00	7,176.94	7,340.26	7,162.01	64.87	33.81	165.42	-1,074.44	-35.28	3,911.35	3,846.57	64.77	60.384		
8,027.52	7,200.68	7,356.85	7,178.60	65.15	33.85	165.46	-1,074.48	-35.29	3,924.99	3,860.06	64.93	60.450		
8,050.00	7,220.18	7,370.44	7,192.19	65.37	33.89	161.24	-1,074.53	-35.31	3,935.88	3,870.82	65.06	60.500		
8,100.00	7,264.25	7,414.38	7,236.13	65.85	34.01	151.19	-1,074.78	-35.41	3,958.14	3,892.72	65.42	60.508		
8,150.00	7,308.99	7,486.85	7,308.60	66.28	34.21	140.43	-1,075.23	-35.03	3,977.24	3,911.31	65.94	60.319		
8,200.00	7,354.07	7,535.68	7,357.42	66.67	34.34	129.21	-1,075.62	-34.40	3,993.10	3,926.77	66.33	60.196		
8,250.00	7,399.14	7,585.36	7,407.09	67.02	34.48	118.29	-1,076.17	-33.52	4,005.74	3,939.01	66.74	60.024		
8,300.00	7,443.85	7,619.91	7,441.63	67.32	34.58	108.26	-1,076.64	-32.87	4,015.21	3,948.16	67.05	59.884		
8,350.00	7,487.88	7,655.91	7,477.62	67.56	34.68	99.64	-1,077.23	-32.19	4,021.50	3,954.13	67.36	59.699		
8,400.00	7,530.87	7,689.81	7,511.51	67.75	34.78	92.56	-1,077.86	-31.59	4,024.61	3,956.96	67.66	59.486		
8,450.00	7,572.51	7,721.56	7,543.25	67.90	34.88	86.94	-1,078.47	-31.11	4,024.58	3,956.65	67.93	59.248		
8,500.00	7,612.48	7,752.05	7,573.73	68.00	34.97	82.61	-1,079.08	-30.74	4,021.45	3,953.26	68.18	58.981		
8,550.00	7,650.47	7,766.00	7,587.68	68.05	35.01	79.24	-1,079.37	-30.60	4,015.30	3,946.97	68.33	58.764		
8,600.00	7,686.20	7,798.29	7,619.96	68.06	35.10	76.99	-1,080.09	-30.40	4,006.18	3,937.60	68.58	58.418		
8,650.00	7,719.39	7,817.71	7,639.37	68.03	35.16	75.44	-1,080.56	-30.37	3,994.26	3,925.52	68.74	58.104		
8,700.00	7,749.79	7,835.58	7,657.24	67.97	35.22	74.59	-1,081.02	-30.40	3,979.62	3,910.73	68.90	57.763		
8,750.00	7,777.17	7,859.00	7,680.65	67.87	35.29	74.46	-1,081.67	-30.52	3,962.40	3,893.32	69.08	57.358		
8,800.00	7,801.32	7,859.00	7,680.65	67.74	35.29	74.62	-1,081.67	-30.52	3,942.70	3,873.58	69.12	57.042		
8,850.00	7,822.06	7,859.00	7,680.65	67.59	35.29	75.31	-1,081.67	-30.52	3,920.76	3,851.60	69.16	56.694		
8,900.00	7,839.23	7,885.53	7,707.16	67.41	35.37	76.95	-1,082.46	-30.81	3,896.53	3,827.15	69.37	56.167		
8,950.00	7,852.69	7,892.96	7,714.59	67.22	35.39	78.83	-1,082.69	-30.93	3,870.40	3,800.92	69.48	55.709		
9,000.00	7,862.35	7,898.53	7,720.16	67.00	35.41	81.22	-1,082.87	-31.03	3,842.47	3,772.90	69.58	55.227		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,902.20	7,723.83	66.78	35.42	84.10	-1,082.98	-31.10	3,812.95	3,743.27	69.68	54.722		
9,098.65	7,870.00	7,903.92	7,725.54	66.55	35.43	87.38	-1,083.04	-31.13	3,782.87	3,713.09	69.78	54.211		
9,100.00	7,870.00	7,903.94	7,725.56	66.55	35.43	87.38	-1,083.04	-31.13	3,782.02	3,712.23	69.78	54.196		
9,200.00	7,870.00	7,905.56	7,727.18	66.09	35.43	87.41	-1,083.09	-31.16	3,719.80	3,649.79	70.01	53.132		
9,300.00	7,870.00	7,907.20	7,728.82	65.65	35.44	87.44	-1,083.14	-31.20	3,659.25	3,588.98	70.27	52.074		
9,400.00	7,870.00	7,908.86	7,730.47	65.24	35.44	87.47	-1,083.20	-31.23	3,600.45	3,529.89	70.56	51.024		
9,500.00	7,870.00	7,910.52	7,732.14	64.85	35.45	87.50	-1,083.25	-31.27	3,543.51	3,472.61	70.90	49.981		
9,600.00	7,870.00	7,912.20	7,733.81	64.48	35.45	87.54	-1,083.31	-31.30	3,488.50	3,417.23	71.27	48.949		
9,700.00	7,870.00	7,913.89	7,735.50	64.13	35.46	87.57	-1,083.36	-31.34	3,435.52	3,363.84	71.68	47.929		
9,800.00	7,870.00	7,915.59	7,737.21	63.80	35.46	87.60	-1,083.42	-31.38	3,384.66	3,312.53	72.13	46.923		
9,900.00	7,870.00	7,917.31	7,738.92	63.50	35.47	87.64	-1,083.47	-31.42	3,336.02	3,263.40	72.63	45.934		
10,000.00	7,870.00	7,919.04	7,740.65	63.22	35.47	87.67	-1,083.53	-31.46	3,289.71	3,216.55	73.16	44.964		
10,100.00	7,870.00	7,920.79	7,742.40	62.96	35.48	87.70	-1,083.59	-31.50	3,245.81	3,172.07	73.74	44.017		
10,200.00	7,870.00	7,922.55	7,744.16	62.72	35.48	87.74	-1,083.65	-31.55	3,204.43	3,130.08	74.36	43.095		
10,300.00	7,870.00	7,924.32	7,745.93	62.50	35.49	87.77	-1,083.71	-31.59	3,165.67	3,090.66	75.01	42.201		
10,400.00	7,870.00	7,926.11	7,747.72	62.31	35.50	87.81	-1,083.77	-31.64	3,129.63	3,053.92	75.71	41.339		
10,500.00	7,870.00	7,927.92	7,749.52	62.15	35.50	87.84	-1,083.83	-31.68	3,096.39	3,019.96	76.43	40.512		
10,600.00	7,870.00	7,929.73	7,751.33	62.01	35.51	87.88	-1,083.89	-31.73	3,066.05	2,988.86	77.19	39.722		
10,700.00	7,870.00	7,931.57	7,753.17	61.90	35.51	87.91	-1,083.96	-31.78	3,038.70	2,960.73	77.97	38.973		
10,800.00	7,870.00	7,933.42	7,755.01	61.82	35.52	87.95	-1,084.02	-31.83	3,014.42	2,935.65	78.77	38.267		
10,900.00	7,870.00	7,935.28	7,756.87	61.78	35.52	87.99	-1,084.08	-31.88	2,993.28	2,913.69	79.59	37.608		
11,000.00	7,870.00	7,953.00	7,774.58	61.77	35.58	88.33	-1,084.71	-32.43	2,975.44	2,894.86	80.57	36.928		
11,100.00	7,870.00	7,953.00	7,774.58	61.81	35.58	88.33	-1,084.71	-32.43	2,960.76	2,879.37	81.39	36.378		
11,200.00	7,870.00	7,953.00	7,774.58	61.90	35.58	88.33	-1,084.71	-32.43	2,949.40	2,867.20	82.20	35.880		
11,300.00	7,870.00	11,300.00	7,812.47	62.03	46.21	89.07	-1,086.21	-32.95	2,941.16	2,847.28	93.88	31.330		
11,400.00	7,870.00	11,400.00	7,816.43	62.23	46.53	89.15	-1,086.36	-33.01	2,936.49	2,841.47	95.02	30.904		
11,487.38	7,870.00	11,487.38	7,819.89	62.46	46.81	89.22	-1,086.50	-33.06	2,935.19	2,839.19	96.00	30.573		
11,500.00	7,870.00	11,500.00	7,820.39	62.50	46.85	89.23	-1,086.52	-33.06	2,935.22	2,839.08	96.14	30.530		
11,600.00	7,870.00	11,600.00	7,824.34	62.84	47.16	89.30	-1,086.68	-33.12	2,937.35	2,840.11	97.24	30.206		
11,700.00	7,870.00	11,700.00	7,828.30	63.25	47.48	89.38	-1,086.83	-33.17	2,942.87	2,844.56	98.32	29.933		
11,800.00	7,870.00	8,093.10	7,914.54	63.76	36.03	91.06	-1,090.50	-33.26	2,951.80	2,863.79	88.00	33.541		
11,900.00	7,870.00	8,102.80	7,924.22	64.34	36.06	91.25	-1,090.95	-33.12	2,963.91	2,875.19	88.73	33.405		
12,000.00	7,870.00	8,112.77	7,934.18	65.01	36.09	91.45	-1,091.42	-32.96	2,979.32	2,889.91	89.41	33.322		
12,100.00	7,870.00	8,123.03	7,944.43	65.77	36.13	91.65	-1,091.92	-32.78	2,997.98	2,907.93	90.05	33.292		
12,200.00	7,870.00	8,133.60	7,954.98	66.61	36.16	91.85	-1,092.44	-32.58	3,019.81	2,929.16	90.65	33.314		
12,300.00	7,870.00	8,145.84	7,967.21	67.51	36.20	92.09	-1,093.04	-32.31	3,044.75	2,953.55	91.21	33.382		
12,400.00	7,870.00	8,160.63	7,981.98	68.49	36.25	92.38	-1,093.79	-31.96	3,072.73	2,980.99	91.74	33.493		
12,500.00	7,870.00	8,176.14	7,997.46	69.52	36.30	92.68	-1,094.60	-31.54	3,103.65	3,011.42	92.23	33.650		
12,600.00	7,870.00	8,192.42	8,013.70	70.61	36.36	93.00	-1,095.47	-31.05	3,137.43	3,044.75	92.68	33.852		
12,700.00	7,870.00	8,209.52	8,030.77	71.75	36.42	93.33	-1,096.40	-30.47	3,173.97	3,080.89	93.09	34.097		
12,800.00	7,870.00	8,227.50	8,048.72	72.93	36.48	93.68	-1,097.41	-29.80	3,213.19	3,119.73	93.45	34.383		
12,900.00	7,870.00	8,246.45	8,067.61	74.14	36.54	94.05	-1,098.49	-29.03	3,254.97	3,161.18	93.78	34.708		
13,000.00	7,870.00	13,000.00	8,030.97	75.39	52.69	93.34	-1,096.48	-30.30	3,299.18	3,190.00	109.18	30.219		
13,100.00	7,870.00	8,256.49	8,077.63	76.67	36.58	94.25	-1,099.12	-28.65	3,345.90	3,251.76	94.15	35.540		
13,200.00	7,870.00	8,266.29	8,087.39	77.98	36.61	94.44	-1,099.74	-28.26	3,394.85	3,300.54	94.31	35.998		
13,300.00	7,870.00	8,276.77	8,097.85	79.31	36.65	94.64	-1,100.43	-27.84	3,445.98	3,351.54	94.44	36.488		
13,400.00	7,870.00	8,288.03	8,109.07	80.67	36.69	94.86	-1,101.19	-27.39	3,499.21	3,404.66	94.55	37.009		
13,500.00	7,870.00	8,300.15	8,121.15	82.04	36.73	95.10	-1,102.05	-26.91	3,554.43	3,459.79	94.64	37.558		
13,600.00	7,870.00	8,313.23	8,134.19	83.43	36.78	95.35	-1,103.00	-26.39	3,611.55	3,516.84	94.71	38.133		
13,700.00	7,870.00	8,327.39	8,148.30	84.84	36.83	95.62	-1,104.08	-25.83	3,670.48	3,575.72	94.76	38.733		
13,800.00	7,870.00	8,342.78	8,163.62	86.27	36.88	95.92	-1,105.30	-25.21	3,731.13	3,636.33	94.80	39.357		
13,900.00	7,870.00	13,900.00	8,139.30	87.71	56.78	95.45	-1,103.47	-26.19	3,793.47	3,680.78	112.69	33.664		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,000.00	7,870.00	8,341.84	8,162.69	89.16	36.88	95.90	-1,105.19	-25.26	3,857.35	3,762.69	94.66	40.750		
14,100.00	7,870.00	8,346.59	8,167.42	90.63	36.90	96.00	-1,105.55	-25.08	3,922.74	3,828.14	94.60	41.468		
14,200.00	7,870.00	8,351.27	8,172.09	92.10	36.91	96.09	-1,105.90	-24.90	3,989.56	3,895.03	94.52	42.207		
14,300.00	7,870.00	8,355.88	8,176.69	93.59	36.93	96.18	-1,106.24	-24.73	4,057.73	3,963.29	94.44	42.967		
14,400.00	7,870.00	8,360.43	8,181.21	95.09	36.95	96.26	-1,106.58	-24.57	4,127.19	4,032.85	94.35	43.745		
14,500.00	7,870.00	8,364.90	8,185.68	96.60	36.96	96.35	-1,106.91	-24.40	4,197.88	4,103.63	94.25	44.541		
14,600.00	7,870.00	8,369.31	8,190.07	98.11	36.98	96.44	-1,107.23	-24.24	4,269.73	4,175.59	94.14	45.354		
14,700.00	7,870.00	8,373.66	8,194.41	99.64	36.99	96.52	-1,107.54	-24.09	4,342.69	4,248.66	94.03	46.184		
14,800.00	7,870.00	8,377.95	8,198.68	101.17	37.01	96.60	-1,107.85	-23.94	4,416.70	4,322.79	93.92	47.028		
14,900.00	7,870.00	8,382.17	8,202.89	102.71	37.02	96.68	-1,108.15	-23.79	4,491.71	4,397.92	93.80	47.887		
15,000.00	7,870.00	8,386.34	8,207.04	104.26	37.04	96.77	-1,108.44	-23.65	4,567.68	4,474.00	93.68	48.760		
15,100.00	7,870.00	8,390.45	8,211.14	105.82	37.05	96.84	-1,108.73	-23.51	4,644.54	4,550.99	93.55	49.646		
15,200.00	7,870.00	8,394.49	8,215.17	107.38	37.07	96.92	-1,109.01	-23.38	4,722.27	4,628.84	93.43	50.543		
15,300.00	7,870.00	8,398.49	8,219.16	108.95	37.08	97.00	-1,109.29	-23.24	4,800.82	4,707.51	93.31	51.453		
15,400.00	7,870.00	8,402.43	8,223.08	110.52	37.10	97.08	-1,109.56	-23.11	4,880.14	4,786.96	93.18	52.373		
15,500.00	7,870.00	8,420.00	8,240.61	112.10	37.16	97.42	-1,110.75	-22.56	4,960.24	4,867.13	93.12	53.270		
15,600.00	7,870.00	8,420.00	8,240.61	113.69	37.16	97.42	-1,110.75	-22.56	5,041.00	4,948.03	92.97	54.219		
15,700.00	7,870.00	8,420.00	8,240.61	115.28	37.16	97.42	-1,110.75	-22.56	5,122.44	5,029.60	92.84	55.178		
15,800.00	7,870.00	8,420.00	8,240.61	116.87	37.16	97.42	-1,110.75	-22.56	5,204.52	5,111.82	92.70	56.145		
15,900.00	7,870.00	8,420.00	8,240.61	118.47	37.16	97.42	-1,110.75	-22.56	5,287.22	5,194.66	92.56	57.121		
16,000.00	7,870.00	8,420.00	8,240.61	120.07	37.16	97.42	-1,110.75	-22.56	5,370.51	5,278.08	92.43	58.105		
16,100.00	7,870.00	8,420.00	8,240.61	121.68	37.16	97.42	-1,110.75	-22.56	5,454.36	5,362.07	92.30	59.096		
16,200.00	7,870.00	8,420.00	8,240.61	123.30	37.16	97.42	-1,110.75	-22.56	5,538.75	5,446.58	92.17	60.094		
16,300.00	7,870.00	8,420.00	8,240.61	124.91	37.16	97.42	-1,110.75	-22.56	5,623.65	5,531.61	92.04	61.098		
16,400.00	7,870.00	8,420.00	8,240.61	126.53	37.16	97.42	-1,110.75	-22.56	5,709.04	5,617.12	91.92	62.109		
16,500.00	7,870.00	8,441.04	8,261.59	128.16	37.23	97.82	-1,112.11	-21.93	5,794.82	5,702.94	91.88	63.069		
16,600.00	7,870.00	8,444.19	8,264.73	129.79	37.24	97.88	-1,112.31	-21.84	5,881.10	5,789.32	91.77	64.082		
16,700.00	7,870.00	8,447.29	8,267.83	131.42	37.26	97.94	-1,112.51	-21.75	5,967.80	5,876.13	91.67	65.101		
16,800.00	7,870.00	8,450.36	8,270.89	133.05	37.27	98.00	-1,112.70	-21.67	6,054.91	5,963.34	91.57	66.124		
16,900.00	7,870.00	8,453.39	8,273.92	134.69	37.28	98.06	-1,112.89	-21.59	6,142.41	6,050.94	91.47	67.152		
17,000.00	7,870.00	8,456.38	8,276.90	136.33	37.29	98.12	-1,113.07	-21.51	6,230.29	6,138.91	91.37	68.184		
17,100.00	7,870.00	8,459.34	8,279.85	137.97	37.30	98.17	-1,113.26	-21.43	6,318.52	6,227.24	91.28	69.221		
17,200.00	7,870.00	8,462.25	8,282.76	139.62	37.31	98.23	-1,113.43	-21.35	6,407.09	6,315.90	91.19	70.261		
17,300.00	7,870.00	8,465.13	8,285.63	141.27	37.32	98.28	-1,113.61	-21.28	6,496.00	6,404.89	91.10	71.305		
17,400.00	7,870.00	8,467.98	8,288.47	142.92	37.33	98.34	-1,113.78	-21.21	6,585.22	6,494.20	91.02	72.352		
17,500.00	7,870.00	8,470.79	8,291.27	144.58	37.34	98.39	-1,113.95	-21.14	6,674.74	6,583.80	90.93	73.402		
17,600.00	7,870.00	8,473.56	8,294.04	146.23	37.35	98.45	-1,114.11	-21.07	6,764.55	6,673.70	90.85	74.456		
17,700.00	7,870.00	8,476.31	8,296.78	147.89	37.36	98.50	-1,114.28	-21.00	6,854.64	6,763.87	90.78	75.512		
17,800.00	7,870.00	8,479.02	8,299.49	149.56	37.37	98.55	-1,114.43	-20.94	6,945.01	6,854.30	90.70	76.571		
17,900.00	7,870.00	8,481.69	8,302.16	151.22	37.37	98.60	-1,114.59	-20.87	7,035.63	6,945.00	90.63	77.632		
18,000.00	7,870.00	8,484.34	8,304.80	152.89	37.38	98.65	-1,114.75	-20.81	7,126.49	7,035.94	90.56	78.695		
18,100.00	7,870.00	8,486.95	8,307.41	154.55	37.39	98.70	-1,114.90	-20.75	7,217.60	7,127.11	90.49	79.761		
18,200.00	7,870.00	8,489.54	8,309.99	156.22	37.40	98.75	-1,115.04	-20.69	7,308.94	7,218.52	90.43	80.828		
18,300.00	7,870.00	8,492.09	8,312.53	157.90	37.41	98.80	-1,115.19	-20.63	7,400.50	7,310.14	90.36	81.897		
18,400.00	7,870.00	8,514.00	8,334.41	159.57	37.49	99.22	-1,116.41	-20.17	7,492.33	7,401.96	90.37	82.907		
18,500.00	7,870.00	8,514.00	8,334.41	161.25	37.49	99.22	-1,116.41	-20.17	7,584.30	7,494.00	90.30	83.987		
18,600.00	7,870.00	8,514.00	8,334.41	162.93	37.49	99.22	-1,116.41	-20.17	7,676.47	7,586.23	90.24	85.068		
18,700.00	7,870.00	8,514.00	8,334.41	164.60	37.49	99.22	-1,116.41	-20.17	7,768.83	7,678.65	90.18	86.151		
18,797.52	7,870.00	8,514.00	8,334.41	166.24	37.49	99.22	-1,116.41	-20.17	7,859.08	7,768.96	90.12	87.207		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	-14.26	218.21	-55.44	225.36				
100.00	100.00	87.93	87.93	0.13	0.14	-14.21	218.64	-55.38	225.55	225.28	0.28	807.785	
200.00	200.00	189.34	189.33	0.49	0.41	-13.99	219.87	-54.78	226.59	225.69	0.90	252.217	
300.00	300.00	295.15	295.07	0.85	0.78	-13.10	219.71	-51.12	225.64	224.00	1.64	137.917	
400.00	400.00	398.97	398.56	1.21	1.17	-11.20	218.06	-43.18	222.46	220.08	2.38	93.570	
500.00	500.00	499.46	498.25	1.57	1.56	-8.09	216.20	-30.74	218.53	215.40	3.13	69.838	
600.00	600.00	605.93	603.36	1.93	2.01	-3.83	212.65	-14.25	213.55	209.62	3.93	54.280	
700.00	700.00	702.29	697.92	2.29	2.46	1.04	208.31	3.78	208.50	203.76	4.74	44.005	
782.34	782.34	778.64	772.34	2.58	2.84	5.72	205.85	20.63	206.88	201.47	5.41	38.221	
800.00	800.00	793.24	786.53	2.64	2.91	6.68	205.59	24.09	207.03	201.48	5.55	37.284	
900.00	900.00	876.11	866.81	3.00	3.34	12.10	207.52	44.49	213.50	207.17	6.32	33.762	
1,000.00	1,000.00	977.76	965.02	3.36	3.89	18.38	211.73	70.34	224.50	217.30	7.20	31.178	
1,100.00	1,099.98	1,076.21	1,060.11	3.72	4.43	-30.59	213.75	95.75	234.63	226.59	8.03	29.204	
1,200.00	1,199.84	1,172.62	1,152.97	4.07	4.98	-25.69	215.61	121.63	244.06	235.23	8.84	27.624	
1,300.00	1,299.45	1,270.41	1,247.23	4.43	5.53	-21.52	217.91	147.57	252.10	242.48	9.62	26.195	
1,400.00	1,398.70	1,363.27	1,337.07	4.80	6.05	-18.57	221.99	170.65	258.69	248.34	10.35	24.998	
1,500.00	1,497.47	1,459.54	1,429.86	5.18	6.59	-16.11	228.86	195.34	265.23	254.13	11.10	23.898	
1,600.00	1,595.62	1,557.29	1,524.06	5.57	7.15	-13.91	235.84	220.50	268.97	257.13	11.84	22.716	
1,700.00	1,693.06	1,653.07	1,616.08	6.00	7.71	-11.95	243.46	245.99	270.90	258.34	12.57	21.559	
1,800.00	1,789.64	1,754.20	1,713.21	6.45	8.29	-10.31	252.87	272.52	270.42	257.07	13.34	20.265	
1,900.00	1,885.27	1,855.31	1,810.62	6.94	8.87	-8.93	262.09	298.00	265.79	251.67	14.12	18.822	
2,000.00	1,979.82	1,962.91	1,914.63	7.47	9.48	-7.37	270.27	324.32	256.29	241.33	14.96	17.134	
2,100.00	2,073.17	2,061.53	2,010.23	8.05	10.02	-5.69	276.00	347.82	241.84	226.14	15.70	15.402	
2,200.00	2,165.21	2,156.63	2,102.26	8.67	10.56	-3.89	281.90	371.06	224.92	208.51	16.41	13.708	
2,300.00	2,255.84	2,254.26	2,196.58	9.35	11.11	-1.85	288.67	395.32	205.61	188.48	17.13	12.003	
2,400.00	2,344.94	2,355.21	2,294.44	10.09	11.67	0.76	294.90	419.29	181.86	163.99	17.87	10.178	
2,500.00	2,432.39	2,451.29	2,387.83	10.89	12.19	4.07	300.46	441.18	154.15	135.61	18.54	8.315	
2,519.29	2,449.07	2,469.59	2,405.63	11.05	12.29	4.83	301.56	445.30	148.47	129.80	18.67	7.953	
2,600.00	2,518.69	2,545.72	2,479.64	11.74	12.70	8.70	306.23	462.51	124.85	105.66	19.19	6.507	
2,700.00	2,604.95	2,639.62	2,570.61	12.62	13.22	17.05	310.61	485.34	97.86	77.95	19.91	4.915	
2,800.00	2,691.22	2,734.67	2,662.66	13.52	13.76	31.85	313.97	508.78	74.62	53.29	21.33	3.498	
2,900.00	2,777.48	2,829.20	2,754.08	14.43	14.30	54.81	318.01	532.49	60.15	35.43	24.72	2.433	
2,945.48	2,816.71	2,872.11	2,795.55	14.84	14.54	67.77	319.65	543.39	58.32	31.45	26.87	2.171 CC, ES	
3,000.00	2,863.75	2,923.56	2,845.27	15.35	14.84	83.43	321.22	556.53	60.98	31.87	29.11	2.095 SF	
3,100.00	2,950.01	3,018.56	2,937.04	16.28	15.39	106.15	324.05	580.95	76.73	45.62	31.11	2.467	
3,200.00	3,036.27	3,115.15	3,030.22	17.22	15.95	120.09	328.02	606.08	99.35	67.56	31.79	3.125	
3,300.00	3,122.54	3,212.00	3,123.76	18.17	16.51	129.15	333.71	630.48	123.89	91.68	32.21	3.847	
3,400.00	3,208.80	3,307.48	3,216.05	19.13	17.05	135.27	339.83	654.17	149.96	117.33	32.63	4.596	
3,500.00	3,295.07	3,402.26	3,307.89	20.09	17.58	139.83	345.90	676.84	177.43	144.33	33.09	5.361	
3,600.00	3,381.33	3,495.39	3,398.19	21.05	18.10	143.13	351.46	698.93	206.14	172.51	33.63	6.129	
3,700.00	3,467.59	3,587.34	3,487.47	22.02	18.60	145.51	355.42	720.55	236.88	202.62	34.27	6.913	
3,800.00	3,553.86	3,682.35	3,579.61	22.99	19.13	147.24	358.91	743.48	268.24	233.19	35.05	7.653	
3,900.00	3,640.12	3,777.39	3,671.91	23.97	19.65	148.77	362.90	765.75	299.62	263.78	35.84	8.360	
4,000.00	3,726.38	3,872.07	3,763.76	24.95	20.18	149.91	366.66	788.44	331.11	294.42	36.68	9.026	
4,100.00	3,812.65	3,966.83	3,855.75	25.93	20.70	150.91	370.57	810.82	362.72	325.18	37.54	9.663	
4,200.00	3,898.91	4,063.70	3,949.85	26.91	21.23	151.83	374.92	833.40	394.26	355.84	38.42	10.262	
4,300.00	3,985.18	4,158.88	4,042.48	27.90	21.74	152.83	380.58	854.54	425.19	385.97	39.23	10.839	
4,400.00	4,071.44	4,252.85	4,133.93	28.88	22.24	153.61	385.40	875.64	456.78	416.72	40.06	11.403	
4,500.00	4,157.70	4,346.96	4,225.47	29.87	22.74	154.30	390.63	896.84	488.05	447.15	40.90	11.933	
4,600.00	4,243.97	4,437.40	4,313.72	30.86	23.22	155.00	395.41	916.00	520.27	478.59	41.68	12.483	
4,700.00	4,330.23	4,532.18	4,405.94	31.85	23.72	155.44	399.22	937.56	552.78	510.20	42.59	12.980	
4,800.00	4,416.49	4,628.60	4,499.76	32.84	24.24	155.86	403.35	959.42	585.14	541.62	43.52	13.445	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,502.76	4,722.55	4,591.19	33.84	24.75	156.25	407.81	980.57	617.25	572.83	44.42	13.896		
5,000.00	4,589.02	4,805.85	4,672.29	34.83	25.19	156.54	411.03	999.30	650.12	604.92	45.20	14.382		
5,100.00	4,675.29	4,881.48	4,746.19	35.82	25.57	156.77	412.26	1,015.29	685.43	639.55	45.88	14.941		
5,200.00	4,761.55	4,960.79	4,824.14	36.82	25.95	157.12	412.90	1,029.95	722.81	676.28	46.54	15.532		
5,300.00	4,847.81	5,042.25	4,904.57	37.82	26.30	157.59	413.44	1,042.83	761.75	714.59	47.16	16.153		
5,400.00	4,934.08	5,124.81	4,986.34	38.81	26.64	158.12	413.85	1,054.22	801.93	754.17	47.76	16.792		
5,500.00	5,020.34	5,206.15	5,067.07	39.81	26.95	158.69	414.15	1,064.05	843.18	794.87	48.31	17.455		
5,600.00	5,106.60	5,283.54	5,144.07	40.81	27.23	159.26	414.34	1,071.89	885.65	836.88	48.77	18.159		
5,700.00	5,192.87	5,359.03	5,219.34	41.81	27.48	159.89	414.50	1,077.50	929.67	880.50	49.17	18.908		
5,800.00	5,279.13	5,436.49	5,296.69	42.81	27.72	160.58	414.66	1,081.58	974.98	925.42	49.56	19.673		
5,900.00	5,365.40	5,517.66	5,377.80	43.81	27.95	161.29	414.74	1,084.80	1,021.21	971.21	49.99	20.427		
6,000.00	5,451.66	5,603.83	5,463.93	44.81	28.20	162.01	414.86	1,087.61	1,067.94	1,017.44	50.50	21.148		
6,100.00	5,537.92	5,682.30	5,542.37	45.81	28.41	162.65	415.10	1,089.47	1,115.18	1,064.28	50.90	21.908		
6,200.00	5,624.19	5,760.04	5,620.11	46.81	28.61	163.28	415.34	1,090.26	1,163.30	1,112.00	51.29	22.680		
6,300.00	5,710.45	5,842.12	5,702.19	47.81	28.81	163.93	415.53	1,090.33	1,212.12	1,160.39	51.73	23.430		
6,400.00	5,796.72	5,927.39	5,787.46	48.81	29.01	164.58	415.85	1,090.13	1,261.15	1,208.94	52.22	24.152		
6,500.00	5,882.98	6,010.99	5,871.05	49.81	29.21	165.16	416.02	1,089.86	1,310.47	1,257.77	52.69	24.869		
6,600.00	5,969.24	6,096.19	5,956.26	50.82	29.41	165.72	416.23	1,089.40	1,359.99	1,306.79	53.20	25.564		
6,700.00	6,055.51	6,181.16	6,041.22	51.82	29.61	166.24	416.50	1,088.77	1,409.66	1,355.95	53.71	26.244		
6,800.00	6,141.77	6,264.93	6,124.99	52.82	29.80	166.72	416.64	1,088.15	1,459.53	1,405.31	54.23	26.916		
6,900.00	6,228.03	6,346.83	6,206.88	53.83	30.00	167.17	416.67	1,087.40	1,509.65	1,454.93	54.73	27.585		
7,000.00	6,314.30	6,430.97	6,291.02	54.83	30.19	167.61	416.82	1,086.26	1,560.02	1,504.76	55.26	28.231		
7,100.00	6,400.56	6,513.88	6,373.91	55.83	30.38	168.03	417.11	1,084.86	1,610.56	1,554.78	55.78	28.871		
7,200.00	6,486.83	6,593.06	6,453.08	56.84	30.57	168.40	417.14	1,083.48	1,661.38	1,605.10	56.28	29.521		
7,300.00	6,573.09	6,677.95	6,537.95	57.84	30.77	168.77	416.68	1,082.01	1,712.60	1,655.75	56.85	30.124		
7,400.00	6,659.35	6,765.29	6,645.29	58.84	31.03	169.19	416.49	1,080.76	1,763.33	1,705.64	57.69	30.566		
7,500.00	6,745.62	6,892.89	6,752.89	59.85	31.31	169.58	417.14	1,080.82	1,812.84	1,754.29	58.55	30.962		
7,600.00	6,831.88	6,985.63	6,845.62	60.85	31.57	169.87	417.74	1,081.77	1,861.78	1,802.51	59.27	31.412		
7,700.00	6,918.14	7,074.18	6,934.16	61.86	31.83	170.13	418.31	1,082.85	1,910.63	1,850.68	59.95	31.870		
7,800.00	7,004.41	7,166.80	7,026.77	62.86	32.09	170.39	419.09	1,083.98	1,959.39	1,898.71	60.68	32.291		
7,900.00	7,090.67	7,257.84	7,117.80	63.87	32.36	170.62	419.87	1,085.49	2,007.89	1,946.49	61.40	32.702		
8,000.00	7,176.94	7,343.96	7,203.90	64.87	32.61	170.84	420.78	1,086.82	2,056.37	1,994.30	62.07	33.132		
8,027.52	7,200.68	7,367.21	7,227.15	65.15	32.68	170.90	421.12	1,087.06	2,069.73	2,007.49	62.24	33.252		
8,050.00	7,220.18	7,386.28	7,246.22	65.37	32.73	166.66	421.44	1,087.22	2,080.39	2,018.01	62.39	33.348		
8,100.00	7,264.25	7,420.90	7,280.83	65.85	32.83	156.50	422.01	1,087.42	2,102.35	2,039.76	62.60	33.586		
8,150.00	7,308.99	7,454.81	7,314.73	66.28	32.92	145.52	422.42	1,087.49	2,121.86	2,059.09	62.77	33.803		
8,200.00	7,354.07	7,489.94	7,349.87	66.67	33.02	134.17	422.71	1,087.46	2,138.81	2,075.88	62.93	33.985		
8,250.00	7,399.14	7,531.90	7,391.83	67.02	33.14	123.19	422.97	1,087.34	2,153.04	2,089.90	63.14	34.100		
8,300.00	7,443.85	7,573.47	7,433.39	67.32	33.25	113.21	423.19	1,087.16	2,164.44	2,101.12	63.32	34.184		
8,350.00	7,487.88	7,614.19	7,474.11	67.56	33.36	104.66	423.40	1,086.93	2,173.01	2,109.55	63.46	34.240		
8,400.00	7,530.87	7,653.82	7,513.74	67.75	33.46	97.68	423.63	1,086.60	2,178.77	2,115.19	63.58	34.269		
8,450.00	7,572.51	7,693.66	7,553.58	67.90	33.57	92.19	423.87	1,086.20	2,181.75	2,118.07	63.68	34.262		
8,500.00	7,612.48	7,733.29	7,593.20	68.00	33.67	88.03	424.07	1,085.83	2,181.99	2,118.22	63.77	34.218		
8,550.00	7,650.47	7,771.10	7,631.02	68.05	33.77	84.97	424.21	1,085.51	2,179.57	2,115.74	63.83	34.146		
8,600.00	7,686.20	7,807.11	7,667.02	68.06	33.87	82.84	424.32	1,085.23	2,174.62	2,110.74	63.88	34.044		
8,650.00	7,719.39	7,840.58	7,700.49	68.03	33.95	81.49	424.41	1,084.99	2,167.26	2,103.36	63.90	33.915		
8,700.00	7,749.79	7,873.73	7,733.64	67.97	34.04	80.84	424.49	1,084.78	2,157.65	2,093.71	63.94	33.744		
8,750.00	7,777.17	7,906.83	7,766.74	67.87	34.13	80.83	424.62	1,084.63	2,145.89	2,081.89	64.00	33.528		
8,800.00	7,801.32	7,935.90	7,795.81	67.74	34.21	81.29	424.78	1,084.56	2,132.18	2,068.13	64.05	33.290		
8,850.00	7,822.06	7,960.71	7,820.62	67.59	34.28	82.15	424.95	1,084.54	2,116.72	2,052.64	64.08	33.033		
8,900.00	7,839.23	7,980.52	7,840.43	67.41	34.34	83.34	425.10	1,084.55	2,099.72	2,035.62	64.10	32.758		
8,950.00	7,852.69	7,996.03	7,855.93	67.22	34.39	84.81	425.23	1,084.58	2,081.38	2,017.27	64.11	32.465		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	8,006.95	7,866.86	67.00	34.42	86.53	425.33	1,084.61	2,061.88	1,997.76	64.12	32.155		
9,050.00	7,868.14	8,013.24	7,873.15	66.78	34.43	88.44	425.39	1,084.63	2,041.42	1,977.29	64.14	31.830		
9,098.65	7,870.00	8,014.89	7,874.80	66.55	34.44	90.47	425.41	1,084.64	2,020.74	1,956.59	64.15	31.500		
9,100.00	7,870.00	8,014.88	7,874.78	66.55	34.44	90.46	425.41	1,084.64	2,020.15	1,956.00	64.15	31.491		
9,200.00	7,870.00	8,013.75	7,873.66	66.09	34.44	90.43	425.40	1,084.64	1,979.06	1,914.82	64.24	30.806		
9,300.00	7,870.00	8,012.64	7,872.54	65.65	34.43	90.39	425.38	1,084.63	1,942.25	1,877.79	64.46	30.133		
9,400.00	7,870.00	8,011.53	7,871.44	65.24	34.43	90.36	425.37	1,084.63	1,909.97	1,845.17	64.80	29.474		
9,500.00	7,870.00	8,010.44	7,870.34	64.85	34.43	90.33	425.36	1,084.62	1,882.45	1,817.17	65.28	28.836		
9,600.00	7,870.00	8,009.35	7,869.26	64.48	34.42	90.29	425.35	1,084.62	1,859.91	1,794.02	65.90	28.224		
9,700.00	7,870.00	8,008.28	7,868.19	64.13	34.42	90.26	425.34	1,084.62	1,842.53	1,775.89	66.64	27.647		
9,800.00	7,870.00	8,007.22	7,867.12	63.80	34.42	90.22	425.33	1,084.61	1,830.46	1,762.95	67.51	27.114		
9,900.00	7,870.00	8,006.17	7,866.07	63.50	34.41	90.19	425.32	1,084.61	1,823.79	1,755.31	68.48	26.633		
9,971.80	7,870.00	8,005.42	7,865.32	63.29	34.41	90.17	425.32	1,084.61	1,822.38	1,753.14	69.24	26.321		
10,000.00	7,870.00	8,005.12	7,865.03	63.22	34.41	90.16	425.31	1,084.61	1,822.59	1,753.06	69.53	26.212		
10,100.00	7,870.00	8,004.09	7,864.00	62.96	34.41	90.13	425.31	1,084.61	1,826.88	1,756.23	70.65	25.858		
10,200.00	7,870.00	8,003.07	7,862.97	62.72	34.41	90.09	425.30	1,084.60	1,836.61	1,764.80	71.81	25.576		
10,300.00	7,870.00	8,002.05	7,861.96	62.50	34.40	90.06	425.29	1,084.60	1,851.69	1,778.70	72.99	25.370		
10,400.00	7,870.00	8,001.05	7,860.96	62.31	34.40	90.03	425.28	1,084.60	1,872.00	1,797.84	74.16	25.243		
10,500.00	7,870.00	8,000.05	7,859.96	62.15	34.40	90.00	425.27	1,084.59	1,897.37	1,822.06	75.31	25.194		
10,600.00	7,870.00	7,999.07	7,858.98	62.01	34.39	89.97	425.26	1,084.59	1,927.60	1,851.18	76.42	25.223		
10,700.00	7,870.00	7,998.09	7,858.00	61.90	34.39	89.94	425.25	1,084.59	1,962.47	1,884.99	77.48	25.328		
10,800.00	7,870.00	7,997.12	7,857.03	61.82	34.39	89.91	425.24	1,084.59	2,001.73	1,923.24	78.48	25.506		
10,900.00	7,870.00	7,996.17	7,856.07	61.78	34.39	89.88	425.23	1,084.58	2,045.12	1,965.71	79.41	25.753		
11,000.00	7,870.00	7,995.22	7,855.12	61.77	34.38	89.85	425.23	1,084.58	2,092.40	2,012.13	80.28	26.065		
11,100.00	7,870.00	7,994.27	7,854.18	61.81	34.38	89.82	425.22	1,084.58	2,143.31	2,062.24	81.07	26.438		
11,200.00	7,870.00	7,993.34	7,853.25	61.90	34.38	89.79	425.21	1,084.58	2,197.59	2,115.80	81.79	26.869		
11,300.00	7,870.00	7,992.42	7,852.32	62.03	34.37	89.76	425.20	1,084.58	2,255.00	2,172.55	82.44	27.353		
11,400.00	7,870.00	7,991.50	7,851.41	62.23	34.37	89.73	425.19	1,084.57	2,315.30	2,232.27	83.03	27.885		
11,500.00	7,870.00	7,990.59	7,850.50	62.50	34.37	89.70	425.19	1,084.57	2,378.28	2,294.73	83.56	28.463		
11,600.00	7,870.00	7,989.69	7,849.60	62.84	34.37	89.67	425.18	1,084.57	2,443.74	2,359.71	84.03	29.083		
11,700.00	7,870.00	7,988.80	7,848.71	63.25	34.36	89.64	425.17	1,084.57	2,511.47	2,427.02	84.45	29.740		
11,800.00	7,870.00	7,987.92	7,847.82	63.76	34.36	89.62	425.16	1,084.57	2,581.29	2,496.47	84.82	30.433		
11,900.00	7,870.00	7,987.04	7,846.95	64.34	34.36	89.59	425.16	1,084.57	2,653.05	2,567.90	85.15	31.159		
12,000.00	7,870.00	7,986.17	7,846.08	65.01	34.36	89.56	425.15	1,084.56	2,726.59	2,641.15	85.44	31.913		
12,100.00	7,870.00	7,985.31	7,845.22	65.77	34.35	89.54	425.14	1,084.56	2,801.77	2,716.07	85.69	32.696		
12,200.00	7,870.00	7,984.45	7,844.36	66.61	34.35	89.51	425.13	1,084.56	2,878.45	2,792.54	85.92	33.503		
12,300.00	7,870.00	7,983.61	7,843.51	67.51	34.35	89.48	425.13	1,084.56	2,956.53	2,870.42	86.11	34.333		
12,400.00	7,870.00	7,982.77	7,842.67	68.49	34.35	89.46	425.12	1,084.56	3,035.90	2,949.62	86.29	35.184		
12,500.00	7,870.00	7,981.93	7,841.84	69.52	34.34	89.43	425.11	1,084.56	3,116.46	3,030.02	86.44	36.055		
12,600.00	7,870.00	7,981.11	7,841.02	70.61	34.34	89.40	425.11	1,084.56	3,198.11	3,111.54	86.57	36.944		
12,700.00	7,870.00	7,980.29	7,840.20	71.75	34.34	89.38	425.10	1,084.55	3,280.78	3,194.10	86.68	37.849		
12,800.00	7,870.00	7,979.48	7,839.39	72.93	34.34	89.35	425.09	1,084.55	3,364.39	3,277.61	86.78	38.770		
12,900.00	7,870.00	7,978.67	7,838.58	74.14	34.34	89.33	425.09	1,084.55	3,448.87	3,362.00	86.86	39.704		
13,000.00	7,870.00	7,977.88	7,837.78	75.39	34.33	89.30	425.08	1,084.55	3,534.16	3,447.22	86.94	40.652		
13,100.00	7,870.00	7,977.08	7,836.99	76.67	34.33	89.28	425.07	1,084.55	3,620.20	3,533.20	87.00	41.612		
13,200.00	7,870.00	7,976.30	7,836.21	77.98	34.33	89.25	425.07	1,084.55	3,706.95	3,619.89	87.05	42.582		
13,300.00	7,870.00	7,975.52	7,835.43	79.31	34.33	89.23	425.06	1,084.55	3,794.34	3,707.24	87.10	43.563		
13,400.00	7,870.00	7,974.75	7,834.66	80.67	34.32	89.20	425.05	1,084.55	3,882.35	3,795.21	87.14	44.554		
13,500.00	7,870.00	7,973.98	7,833.89	82.04	34.32	89.18	425.05	1,084.55	3,970.92	3,883.75	87.17	45.554		
13,600.00	7,870.00	7,973.22	7,833.13	83.43	34.32	89.16	425.04	1,084.55	4,060.03	3,972.83	87.20	46.561		
13,700.00	7,870.00	7,972.47	7,832.38	84.84	34.32	89.13	425.04	1,084.55	4,149.63	4,062.41	87.22	47.577		
13,800.00	7,870.00	7,971.72	7,831.63	86.27	34.32	89.11	425.03	1,084.54	4,239.69	4,152.45	87.24	48.599		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
13,900.00	7,870.00	7,970.98	7,830.89	87.71	34.31	89.08	425.03	1,084.54	4,330.19	4,242.94	87.25	49.628		
14,000.00	7,870.00	7,970.24	7,830.15	89.16	34.31	89.06	425.02	1,084.54	4,421.10	4,333.84	87.27	50.663		
14,100.00	7,870.00	7,969.51	7,829.42	90.63	34.31	89.04	425.01	1,084.54	4,512.40	4,425.12	87.27	51.703		
14,200.00	7,870.00	7,968.79	7,828.70	92.10	34.31	89.02	425.01	1,084.54	4,604.05	4,516.77	87.28	52.749		
14,300.00	7,870.00	7,968.07	7,827.98	93.59	34.30	88.99	425.00	1,084.54	4,696.05	4,608.76	87.29	53.800		
14,400.00	7,870.00	7,967.36	7,827.27	95.09	34.30	88.97	425.00	1,084.54	4,788.37	4,701.08	87.29	54.856		
14,500.00	7,870.00	7,966.65	7,826.56	96.60	34.30	88.95	424.99	1,084.54	4,880.99	4,793.69	87.29	55.915		
14,600.00	7,870.00	7,965.95	7,825.86	98.11	34.30	88.93	424.99	1,084.54	4,973.89	4,886.60	87.29	56.979		
14,700.00	7,870.00	7,965.25	7,825.16	99.64	34.30	88.90	424.98	1,084.54	5,067.07	4,979.77	87.29	58.046		
14,800.00	7,870.00	7,964.56	7,824.47	101.17	34.29	88.88	424.98	1,084.54	5,160.50	5,073.20	87.29	59.116		
14,900.00	7,870.00	7,963.88	7,823.79	102.71	34.29	88.86	424.97	1,084.54	5,254.17	5,166.88	87.29	60.190		
15,000.00	7,870.00	7,963.20	7,823.11	104.26	34.29	88.84	424.97	1,084.54	5,348.07	5,260.78	87.29	61.266		
15,100.00	7,870.00	7,962.52	7,822.43	105.82	34.29	88.82	424.96	1,084.54	5,442.19	5,354.90	87.29	62.345		
15,200.00	7,870.00	7,961.85	7,821.76	107.38	34.29	88.80	424.96	1,084.54	5,536.52	5,449.23	87.29	63.427		
15,300.00	7,870.00	7,961.19	7,821.10	108.95	34.28	88.78	424.95	1,084.54	5,631.04	5,543.75	87.29	64.510		
15,400.00	7,870.00	7,960.53	7,820.44	110.52	34.28	88.76	424.95	1,084.54	5,725.74	5,638.46	87.29	65.596		
15,500.00	7,870.00	7,959.87	7,819.78	112.10	34.28	88.74	424.94	1,084.54	5,820.63	5,733.34	87.29	66.684		
15,600.00	7,870.00	7,959.22	7,819.13	113.69	34.28	88.72	424.94	1,084.54	5,915.68	5,828.40	87.29	67.774		
15,700.00	7,870.00	7,958.58	7,818.49	115.28	34.28	88.70	424.93	1,084.54	6,010.89	5,923.61	87.29	68.865		
15,800.00	7,870.00	7,957.94	7,817.85	116.87	34.28	88.68	424.93	1,084.54	6,106.26	6,018.97	87.29	69.957		
15,900.00	7,870.00	7,957.30	7,817.21	118.47	34.27	88.66	424.92	1,084.54	6,201.77	6,114.49	87.29	71.051		
16,000.00	7,870.00	7,956.67	7,816.58	120.07	34.27	88.64	424.92	1,084.54	6,297.42	6,210.14	87.29	72.146		
16,100.00	7,870.00	7,956.05	7,815.96	121.68	34.27	88.62	424.91	1,084.54	6,393.21	6,305.92	87.29	73.242		
16,200.00	7,870.00	7,955.43	7,815.33	123.30	34.27	88.60	424.91	1,084.54	6,489.12	6,401.83	87.29	74.339		
16,300.00	7,870.00	7,954.81	7,814.72	124.91	34.27	88.58	424.90	1,084.54	6,585.15	6,497.86	87.29	75.437		
16,400.00	7,870.00	7,954.20	7,814.10	126.53	34.26	88.56	424.90	1,084.54	6,681.30	6,594.00	87.30	76.535		
16,500.00	7,870.00	7,953.59	7,813.50	128.16	34.26	88.54	424.90	1,084.54	6,777.56	6,690.26	87.30	77.635		
16,600.00	7,870.00	7,952.99	7,812.89	129.79	34.26	88.52	424.89	1,084.54	6,873.93	6,786.62	87.31	78.734		
16,700.00	7,870.00	7,952.39	7,812.29	131.42	34.26	88.50	424.89	1,084.54	6,970.40	6,883.09	87.31	79.834		
16,800.00	7,870.00	7,952.00	7,811.91	133.05	34.26	88.49	424.89	1,084.54	7,066.96	6,979.65	87.32	80.934		
16,900.00	7,870.00	7,952.00	7,811.91	134.69	34.26	88.49	424.89	1,084.54	7,163.63	7,076.30	87.32	82.034		
17,000.00	7,870.00	7,950.67	7,810.58	136.33	34.25	88.45	424.88	1,084.54	7,260.38	7,173.05	87.33	83.136		
17,100.00	7,870.00	7,950.11	7,810.02	137.97	34.25	88.43	424.87	1,084.54	7,357.22	7,269.88	87.34	84.236		
17,200.00	7,870.00	7,949.56	7,809.47	139.62	34.25	88.41	424.87	1,084.54	7,454.14	7,366.79	87.35	85.337		
17,300.00	7,870.00	7,949.01	7,808.92	141.27	34.25	88.39	424.86	1,084.54	7,551.14	7,463.78	87.36	86.438		
17,400.00	7,870.00	7,948.47	7,808.38	142.92	34.25	88.38	424.86	1,084.54	7,648.22	7,560.85	87.37	87.538		
17,500.00	7,870.00	7,947.93	7,807.84	144.58	34.25	88.36	424.86	1,084.54	7,745.38	7,657.99	87.38	88.639		
17,600.00	7,870.00	7,947.39	7,807.30	146.23	34.25	88.34	424.85	1,084.54	7,842.60	7,755.21	87.39	89.739		
17,700.00	7,870.00	7,946.86	7,806.77	147.89	34.24	88.33	424.85	1,084.54	7,939.89	7,852.49	87.41	90.839		
17,800.00	7,870.00	7,946.33	7,806.24	149.56	34.24	88.31	424.85	1,084.54	8,037.26	7,949.84	87.42	91.938		
17,900.00	7,870.00	7,945.81	7,805.72	151.22	34.24	88.29	424.84	1,084.54	8,134.68	8,047.25	87.44	93.037		
18,000.00	7,870.00	7,945.29	7,805.20	152.89	34.24	88.28	424.84	1,084.54	8,232.17	8,144.72	87.45	94.135		
18,100.00	7,870.00	7,944.78	7,804.69	154.55	34.24	88.26	424.84	1,084.55	8,329.71	8,242.25	87.47	95.233		
18,200.00	7,870.00	7,944.27	7,804.17	156.22	34.24	88.25	424.83	1,084.55	8,427.32	8,339.83	87.48	96.330		
18,300.00	7,870.00	7,943.76	7,803.67	157.90	34.24	88.23	424.83	1,084.55	8,524.97	8,437.47	87.50	97.427		
18,400.00	7,870.00	7,943.26	7,803.16	159.57	34.23	88.21	424.83	1,084.55	8,622.69	8,535.17	87.52	98.523		
18,500.00	7,870.00	7,942.76	7,802.67	161.25	34.23	88.20	424.82	1,084.55	8,720.45	8,632.91	87.54	99.618		
18,600.00	7,870.00	7,942.26	7,802.17	162.93	34.23	88.18	424.82	1,084.55	8,818.27	8,730.71	87.56	100.712		
18,700.00	7,870.00	7,941.77	7,801.68	164.60	34.23	88.17	424.82	1,084.55	8,916.13	8,828.55	87.58	101.806		
18,797.52	7,870.00	7,941.30	7,801.20	166.24	34.23	88.15	424.81	1,084.55	9,011.61	8,924.01	87.60	102.871		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	68.36	1,834.81	4,623.64	9,370.79					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.36	1,834.81	4,623.64	9,286.19	9,197.73	88.46	104.972		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.36	1,834.81	4,623.64	9,201.90	9,113.03	88.88	103.536		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.36	1,834.81	4,623.64	9,117.94	9,028.61	89.32	102.080		
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.36	1,834.81	4,623.64	9,034.29	8,944.50	89.80	100.608		
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.36	1,834.81	4,623.64	8,950.99	8,860.68	90.30	99.122		
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.36	1,834.81	4,623.64	8,868.02	8,777.19	90.84	97.625		
700.00	700.00	15,353.00	7,799.48	2.29	138.96	68.36	1,834.81	4,623.64	8,785.42	8,694.02	91.40	96.121		
800.00	800.00	15,353.00	7,799.48	2.64	138.96	68.36	1,834.81	4,623.64	8,703.18	8,611.19	91.99	94.613		
900.00	900.00	15,353.00	7,799.48	3.00	138.96	68.36	1,834.81	4,623.64	8,621.31	8,528.71	92.60	93.104		
1,000.00	1,000.00	15,353.00	7,799.48	3.36	138.96	68.36	1,834.81	4,623.64	8,539.83	8,446.60	93.23	91.598		
1,100.00	1,099.98	15,353.00	7,799.48	3.72	138.96	14.43	1,834.81	4,623.64	8,457.77	8,363.88	93.89	90.085		
1,200.00	1,199.84	15,353.00	7,799.48	4.07	138.96	15.21	1,834.81	4,623.64	8,374.18	8,279.64	94.54	88.574		
1,300.00	1,299.45	15,353.00	7,799.48	4.43	138.96	16.08	1,834.81	4,623.64	8,289.13	8,193.94	95.19	87.080		
1,400.00	1,398.70	15,353.00	7,799.48	4.80	138.96	17.07	1,834.81	4,623.64	8,202.67	8,106.85	95.82	85.602		
1,500.00	1,497.47	15,353.00	7,799.48	5.18	138.96	18.18	1,834.81	4,623.64	8,114.87	8,018.43	96.44	84.143		
1,600.00	1,595.62	15,353.00	7,799.48	5.57	138.96	19.44	1,834.81	4,623.64	8,025.79	7,928.75	97.04	82.703		
1,700.00	1,693.06	15,353.00	7,799.48	6.00	138.96	20.89	1,834.81	4,623.64	7,935.50	7,837.87	97.63	81.282		
1,800.00	1,789.64	15,353.00	7,799.48	6.45	138.96	22.56	1,834.81	4,623.64	7,844.07	7,745.87	98.20	79.881		
1,900.00	1,885.27	15,353.00	7,799.48	6.94	138.96	24.51	1,834.81	4,623.64	7,751.57	7,652.82	98.75	78.499		
2,000.00	1,979.82	15,353.00	7,799.48	7.47	138.96	26.79	1,834.81	4,623.64	7,658.08	7,558.80	99.28	77.138		
2,100.00	2,073.17	15,353.00	7,799.48	8.05	138.96	29.49	1,834.81	4,623.64	7,563.67	7,463.88	99.79	75.798		
2,200.00	2,165.21	15,353.00	7,799.48	8.67	138.96	32.71	1,834.81	4,623.64	7,468.43	7,368.16	100.28	74.479		
2,300.00	2,255.84	15,353.00	7,799.48	9.35	138.96	36.60	1,834.81	4,623.64	7,372.45	7,271.71	100.74	73.180		
2,400.00	2,344.94	15,353.00	7,799.48	10.09	138.96	41.33	1,834.81	4,623.64	7,275.82	7,174.63	101.19	71.904		
2,500.00	2,432.39	15,353.00	7,799.48	10.89	138.96	47.09	1,834.81	4,623.64	7,178.62	7,077.01	101.61	70.649		
2,519.29	2,449.07	15,353.00	7,799.48	11.05	138.96	48.34	1,834.81	4,623.64	7,159.81	7,058.12	101.69	70.408		
2,600.00	2,518.69	15,353.00	7,799.48	11.74	138.96	48.34	1,834.81	4,623.64	7,081.12	6,979.10	102.02	69.410		
2,700.00	2,604.95	15,353.00	7,799.48	12.62	138.96	48.34	1,834.81	4,623.64	6,983.68	6,881.24	102.44	68.175		
2,800.00	2,691.22	15,353.00	7,799.48	13.52	138.96	48.34	1,834.81	4,623.64	6,886.31	6,783.44	102.87	66.940		
2,900.00	2,777.48	15,353.00	7,799.48	14.43	138.96	48.34	1,834.81	4,623.64	6,789.02	6,685.70	103.33	65.705		
3,000.00	2,863.75	15,353.00	7,799.48	15.35	138.96	48.34	1,834.81	4,623.64	6,691.81	6,588.02	103.79	64.472		
3,100.00	2,950.01	15,353.00	7,799.48	16.28	138.96	48.34	1,834.81	4,623.64	6,594.68	6,490.40	104.28	63.241		
3,200.00	3,036.27	15,353.00	7,799.48	17.22	138.96	48.34	1,834.81	4,623.64	6,497.64	6,392.86	104.78	62.011		
3,300.00	3,122.54	15,353.00	7,799.48	18.17	138.96	48.34	1,834.81	4,623.64	6,400.69	6,295.39	105.30	60.784		
3,400.00	3,208.80	15,353.00	7,799.48	19.13	138.96	48.34	1,834.81	4,623.64	6,303.84	6,198.00	105.84	59.560		
3,500.00	3,295.07	15,353.00	7,799.48	20.09	138.96	48.34	1,834.81	4,623.64	6,207.09	6,100.69	106.40	58.339		
3,600.00	3,381.33	15,353.00	7,799.48	21.05	138.96	48.34	1,834.81	4,623.64	6,110.44	6,003.46	106.97	57.121		
3,700.00	3,467.59	15,353.00	7,799.48	22.02	138.96	48.34	1,834.81	4,623.64	6,013.90	5,906.33	107.57	55.906		
3,800.00	3,553.86	15,353.00	7,799.48	22.99	138.96	48.34	1,834.81	4,623.64	5,917.47	5,809.28	108.19	54.696		
3,900.00	3,640.12	15,353.00	7,799.48	23.97	138.96	48.34	1,834.81	4,623.64	5,821.17	5,712.34	108.83	53.490		
4,000.00	3,726.38	15,353.00	7,799.48	24.95	138.96	48.34	1,834.81	4,623.64	5,724.99	5,615.50	109.49	52.289		
4,100.00	3,812.65	15,353.00	7,799.48	25.93	138.96	48.34	1,834.81	4,623.64	5,628.94	5,518.77	110.17	51.092		
4,200.00	3,898.91	15,353.00	7,799.48	26.91	138.96	48.34	1,834.81	4,623.64	5,533.04	5,422.16	110.88	49.901		
4,300.00	3,985.18	15,353.00	7,799.48	27.90	138.96	48.34	1,834.81	4,623.64	5,437.28	5,325.67	111.61	48.716		
4,400.00	4,071.44	15,353.00	7,799.48	28.88	138.96	48.34	1,834.81	4,623.64	5,341.68	5,229.31	112.37	47.536		
4,500.00	4,157.70	15,353.00	7,799.48	29.87	138.96	48.34	1,834.81	4,623.64	5,246.24	5,133.09	113.16	46.362		
4,600.00	4,243.97	15,353.00	7,799.48	30.86	138.96	48.34	1,834.81	4,623.64	5,150.98	5,037.01	113.97	45.195		
4,700.00	4,330.23	15,353.00	7,799.48	31.85	138.96	48.34	1,834.81	4,623.64	5,055.90	4,941.08	114.81	44.035		
4,800.00	4,416.49	15,353.00	7,799.48	32.84	138.96	48.34	1,834.81	4,623.64	4,961.01	4,845.32	115.69	42.883		
4,900.00	4,502.76	15,353.00	7,799.48	33.84	138.96	48.34	1,834.81	4,623.64	4,866.33	4,749.73	116.59	41.737		
5,000.00	4,589.02	15,353.00	7,799.48	34.83	138.96	48.34	1,834.81	4,623.64	4,771.86	4,654.33	117.53	40.600		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	15,353.00	7,799.48	35.82	138.96	48.34	1,834.81	4,623.64	4,677.62	4,559.12	118.51	39.471		
5,200.00	4,761.55	15,353.00	7,799.48	36.82	138.96	48.34	1,834.81	4,623.64	4,583.63	4,464.11	119.52	38.350		
5,300.00	4,847.81	15,353.00	7,799.48	37.82	138.96	48.34	1,834.81	4,623.64	4,489.90	4,369.33	120.57	37.239		
5,400.00	4,934.08	15,353.00	7,799.48	38.81	138.96	48.34	1,834.81	4,623.64	4,396.44	4,274.78	121.66	36.137		
5,500.00	5,020.34	15,353.00	7,799.48	39.81	138.96	48.34	1,834.81	4,623.64	4,303.28	4,180.49	122.79	35.045		
5,600.00	5,106.60	15,353.00	7,799.48	40.81	138.96	48.34	1,834.81	4,623.64	4,210.43	4,086.46	123.97	33.963		
5,700.00	5,192.87	15,353.00	7,799.48	41.81	138.96	48.34	1,834.81	4,623.64	4,117.92	3,992.72	125.20	32.891		
5,800.00	5,279.13	15,353.00	7,799.48	42.81	138.96	48.34	1,834.81	4,623.64	4,025.77	3,899.29	126.47	31.831		
5,900.00	5,365.40	15,353.00	7,799.48	43.81	138.96	48.34	1,834.81	4,623.64	3,933.99	3,806.19	127.80	30.783		
6,000.00	5,451.66	15,353.00	7,799.48	44.81	138.96	48.34	1,834.81	4,623.64	3,842.63	3,713.45	129.18	29.747		
6,100.00	5,537.92	15,353.00	7,799.48	45.81	138.96	48.34	1,834.81	4,623.64	3,751.71	3,621.09	130.62	28.723		
6,200.00	5,624.19	15,353.00	7,799.48	46.81	138.96	48.34	1,834.81	4,623.64	3,661.26	3,529.15	132.11	27.713		
6,300.00	5,710.45	15,353.00	7,799.48	47.81	138.96	48.34	1,834.81	4,623.64	3,571.33	3,437.65	133.68	26.716		
6,400.00	5,796.72	15,353.00	7,799.48	48.81	138.96	48.34	1,834.81	4,623.64	3,481.94	3,346.63	135.30	25.734		
6,500.00	5,882.98	15,353.00	7,799.48	49.81	138.96	48.34	1,834.81	4,623.64	3,393.14	3,256.14	137.00	24.768		
6,600.00	5,969.24	15,353.00	7,799.48	50.82	138.96	48.34	1,834.81	4,623.64	3,304.98	3,166.22	138.77	23.817		
6,700.00	6,055.51	15,353.00	7,799.48	51.82	138.96	48.34	1,834.81	4,623.64	3,217.52	3,076.91	140.61	22.883		
6,800.00	6,141.77	15,353.00	7,799.48	52.82	138.96	48.34	1,834.81	4,623.64	3,130.81	2,988.27	142.53	21.966		
6,900.00	6,228.03	15,353.00	7,799.48	53.83	138.96	48.34	1,834.81	4,623.64	3,044.91	2,900.37	144.54	21.067		
7,000.00	6,314.30	15,353.00	7,799.48	54.83	138.96	48.34	1,834.81	4,623.64	2,959.89	2,813.27	146.62	20.187		
7,100.00	6,400.56	15,353.00	7,799.48	55.83	138.96	48.34	1,834.81	4,623.64	2,875.85	2,727.05	148.80	19.327		
7,200.00	6,486.83	15,353.00	7,799.48	56.84	138.96	48.34	1,834.81	4,623.64	2,792.85	2,641.79	151.06	18.488		
7,300.00	6,573.09	15,353.00	7,799.48	57.84	138.96	48.34	1,834.81	4,623.64	2,711.00	2,557.59	153.41	17.671		
7,400.00	6,659.35	15,353.00	7,799.48	58.84	138.96	48.34	1,834.81	4,623.64	2,630.41	2,474.56	155.85	16.878		
7,500.00	6,745.62	15,353.00	7,799.48	59.85	138.96	48.34	1,834.81	4,623.64	2,551.19	2,392.81	158.38	16.108		
7,600.00	6,831.88	15,353.00	7,799.48	60.85	138.96	48.34	1,834.81	4,623.64	2,473.47	2,312.48	160.99	15.364		
7,700.00	6,918.14	15,353.00	7,799.48	61.86	138.96	48.34	1,834.81	4,623.64	2,397.41	2,233.73	163.69	14.646		
7,800.00	7,004.41	15,353.00	7,799.48	62.86	138.96	48.34	1,834.81	4,623.64	2,323.17	2,156.72	166.45	13.957		
7,900.00	7,090.67	15,357.33	7,799.44	63.87	139.03	48.48	1,830.48	4,623.71	2,250.91	2,081.49	169.42	13.286		
8,000.00	7,176.94	15,327.95	7,799.70	64.87	138.52	47.51	1,859.85	4,623.23	2,180.71	2,009.41	171.31	12.730		
8,027.52	7,200.68	15,319.86	7,799.78	65.15	138.38	47.24	1,867.94	4,623.09	2,161.73	1,989.91	171.82	12.581		
8,050.00	7,220.18	15,313.68	7,799.83	65.37	138.27	41.57	1,874.12	4,622.99	2,146.27	1,974.01	172.25	12.460		
8,100.00	7,264.25	15,303.00	7,799.93	65.85	138.09	27.99	1,884.80	4,622.81	2,111.77	1,938.54	173.23	12.190		
8,150.00	7,308.99	15,299.39	7,799.99	66.28	138.02	13.38	1,891.18	4,622.71	2,077.40	1,903.12	174.28	11.920		
8,200.00	7,354.07	15,301.43	7,800.01	66.67	138.06	-1.68	1,893.22	4,622.67	2,043.48	1,868.12	175.36	11.653		
8,250.00	7,399.14	15,299.11	7,799.99	67.02	138.02	-16.37	1,890.90	4,622.71	2,010.31	1,834.01	176.30	11.403		
8,300.00	7,443.85	15,303.55	7,799.93	67.32	138.10	-29.90	1,884.25	4,622.82	1,978.17	1,800.90	177.27	11.159		
8,350.00	7,487.88	15,314.50	7,799.83	67.56	138.29	-41.80	1,873.30	4,623.00	1,947.32	1,769.05	178.26	10.924		
8,400.00	7,530.87	15,329.66	7,799.69	67.75	138.55	-51.92	1,858.14	4,623.26	1,917.98	1,738.75	179.23	10.701		
8,450.00	7,572.51	15,348.91	7,799.51	67.90	138.88	-60.33	1,838.89	4,623.57	1,890.36	1,710.19	180.17	10.492		
8,500.00	7,612.48	15,353.00	7,799.48	68.00	138.96	-67.79	1,834.81	4,623.64	1,864.72	1,684.36	180.36	10.339		
8,550.00	7,650.47	15,353.00	7,799.48	68.05	138.96	-74.10	1,834.81	4,623.64	1,841.47	1,661.28	180.19	10.220		
8,600.00	7,686.20	15,353.00	7,799.48	68.06	138.96	-79.30	1,834.81	4,623.64	1,820.90	1,641.09	179.81	10.127		
8,650.00	7,719.39	15,353.00	7,799.48	68.03	138.96	-83.55	1,834.81	4,623.64	1,803.25	1,624.02	179.23	10.061		
8,700.00	7,749.79	15,353.00	7,799.48	67.97	138.96	-86.97	1,834.81	4,623.64	1,788.75	1,610.29	178.46	10.023		
8,750.00	7,777.17	15,353.00	7,799.48	67.87	138.96	-89.66	1,834.81	4,623.64	1,777.59	1,600.07	177.52	10.014 SF		
8,800.00	7,801.32	15,353.00	7,799.48	67.74	138.96	-91.69	1,834.81	4,623.64	1,769.90	1,593.49	176.41	10.033		
8,850.00	7,822.06	15,353.00	7,799.48	67.59	138.96	-93.12	1,834.81	4,623.64	1,765.81	1,590.63	175.18	10.080 ES		
8,881.17	7,833.19	15,353.00	7,799.48	67.48	138.96	-93.73	1,834.81	4,623.64	1,765.10	1,590.73	174.36	10.123 CC		
8,900.00	7,839.23	15,353.00	7,799.48	67.41	138.96	-94.00	1,834.81	4,623.64	1,765.36	1,591.51	173.85	10.154		
8,950.00	7,852.69	15,353.00	7,799.48	67.22	138.96	-94.35	1,834.81	4,623.64	1,768.56	1,596.10	172.46	10.255		
9,000.00	7,862.35	15,353.00	7,799.48	67.00	138.96	-94.19	1,834.81	4,623.64	1,775.36	1,604.34	171.02	10.381		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	15,353.00	7,799.48	66.78	138.96	-93.52	1,834.81	4,623.64	1,785.68	1,616.10	169.58	10.530		
9,098.65	7,870.00	15,353.00	7,799.48	66.55	138.96	-92.39	1,834.81	4,623.64	1,798.96	1,630.77	168.19	10.696		
9,100.00	7,870.00	15,353.00	7,799.48	66.55	138.96	-92.39	1,834.81	4,623.64	1,799.38	1,631.22	168.15	10.701		
9,200.00	7,870.00	15,353.00	7,799.48	66.09	138.96	-92.39	1,834.81	4,623.64	1,832.40	1,666.93	165.47	11.074		
9,300.00	7,870.00	15,353.00	7,799.48	65.65	138.96	-92.39	1,834.81	4,623.64	1,870.19	1,707.13	163.06	11.469		
9,400.00	7,870.00	15,353.00	7,799.48	65.24	138.96	-92.39	1,834.81	4,623.64	1,912.47	1,751.54	160.93	11.884		
9,500.00	7,870.00	15,353.00	7,799.48	64.85	138.96	-92.39	1,834.81	4,623.64	1,958.94	1,799.91	159.03	12.318		
9,600.00	7,870.00	15,353.00	7,799.48	64.48	138.96	-92.39	1,834.81	4,623.64	2,009.32	1,851.99	157.34	12.771		
9,700.00	7,870.00	15,353.00	7,799.48	64.13	138.96	-92.39	1,834.81	4,623.64	2,063.32	1,907.53	155.80	13.244		
9,800.00	7,870.00	15,353.00	7,799.48	63.80	138.96	-92.39	1,834.81	4,623.64	2,120.67	1,966.30	154.37	13.738		
9,900.00	7,870.00	15,353.00	7,799.48	63.50	138.96	-92.39	1,834.81	4,623.64	2,181.09	2,028.06	153.03	14.253		
10,000.00	7,870.00	15,353.00	7,799.48	63.22	138.96	-92.39	1,834.81	4,623.64	2,244.35	2,092.59	151.76	14.789		
10,100.00	7,870.00	15,353.00	7,799.48	62.96	138.96	-92.39	1,834.81	4,623.64	2,310.20	2,159.67	150.53	15.347		
10,200.00	7,870.00	15,353.00	7,799.48	62.72	138.96	-92.39	1,834.81	4,623.64	2,378.43	2,229.08	149.35	15.925		
10,300.00	7,870.00	15,353.00	7,799.48	62.50	138.96	-92.39	1,834.81	4,623.64	2,448.85	2,300.65	148.20	16.524		
10,400.00	7,870.00	15,353.00	7,799.48	62.31	138.96	-92.39	1,834.81	4,623.64	2,521.27	2,374.18	147.08	17.142		
10,500.00	7,870.00	15,353.00	7,799.48	62.15	138.96	-92.39	1,834.81	4,623.64	2,595.52	2,449.52	146.00	17.778		
10,600.00	7,870.00	15,353.00	7,799.48	62.01	138.96	-92.39	1,834.81	4,623.64	2,671.45	2,526.51	144.94	18.432		
10,700.00	7,870.00	15,353.00	7,799.48	61.90	138.96	-92.39	1,834.81	4,623.64	2,748.92	2,605.02	143.91	19.102		
10,800.00	7,870.00	15,353.00	7,799.48	61.82	138.96	-92.39	1,834.81	4,623.64	2,827.81	2,684.91	142.90	19.788		
10,900.00	7,870.00	15,353.00	7,799.48	61.78	138.96	-92.39	1,834.81	4,623.64	2,907.99	2,766.06	141.93	20.489		
11,000.00	7,870.00	15,353.00	7,799.48	61.77	138.96	-92.39	1,834.81	4,623.64	2,989.37	2,848.39	140.99	21.203		
11,100.00	7,870.00	15,353.00	7,799.48	61.81	138.96	-92.39	1,834.81	4,623.64	3,071.85	2,931.78	140.07	21.931		
11,200.00	7,870.00	15,353.00	7,799.48	61.90	138.96	-92.39	1,834.81	4,623.64	3,155.35	3,016.16	139.19	22.670		
11,300.00	7,870.00	15,353.00	7,799.48	62.03	138.96	-92.39	1,834.81	4,623.64	3,239.77	3,101.44	138.33	23.421		
11,400.00	7,870.00	15,353.00	7,799.48	62.23	138.96	-92.39	1,834.81	4,623.64	3,325.06	3,187.56	137.50	24.182		
11,500.00	7,870.00	15,353.00	7,799.48	62.50	138.96	-92.39	1,834.81	4,623.64	3,411.16	3,274.45	136.71	24.953		
11,600.00	7,870.00	15,353.00	7,799.48	62.84	138.96	-92.39	1,834.81	4,623.64	3,497.99	3,362.05	135.94	25.733		
11,700.00	7,870.00	15,353.00	7,799.48	63.25	138.96	-92.39	1,834.81	4,623.64	3,585.50	3,450.31	135.19	26.521		
11,800.00	7,870.00	15,353.00	7,799.48	63.76	138.96	-92.39	1,834.81	4,623.64	3,673.66	3,539.18	134.48	27.318		
11,900.00	7,870.00	15,353.00	7,799.48	64.34	138.96	-92.39	1,834.81	4,623.64	3,762.40	3,628.61	133.79	28.122		
12,000.00	7,870.00	15,353.00	7,799.48	65.01	138.96	-92.39	1,834.81	4,623.64	3,851.70	3,718.58	133.13	28.932		
12,100.00	7,870.00	15,353.00	7,799.48	65.77	138.96	-92.39	1,834.81	4,623.64	3,941.52	3,809.03	132.49	29.750		
12,200.00	7,870.00	15,353.00	7,799.48	66.61	138.96	-92.39	1,834.81	4,623.64	4,031.81	3,899.93	131.88	30.573		
12,300.00	7,870.00	15,353.00	7,799.48	67.51	138.96	-92.39	1,834.81	4,623.64	4,122.55	3,991.26	131.29	31.401		
12,400.00	7,870.00	15,353.00	7,799.48	68.49	138.96	-92.39	1,834.81	4,623.64	4,213.71	4,082.99	130.72	32.235		
12,500.00	7,870.00	15,353.00	7,799.48	69.52	138.96	-92.39	1,834.81	4,623.64	4,305.26	4,175.09	130.17	33.074		
12,600.00	7,870.00	15,353.00	7,799.48	70.61	138.96	-92.39	1,834.81	4,623.64	4,397.18	4,267.53	129.65	33.917		
12,700.00	7,870.00	15,353.00	7,799.48	71.75	138.96	-92.39	1,834.81	4,623.64	4,489.44	4,360.30	129.14	34.764		
12,800.00	7,870.00	15,353.00	7,799.48	72.93	138.96	-92.39	1,834.81	4,623.64	4,582.03	4,453.38	128.66	35.615		
12,900.00	7,870.00	15,353.00	7,799.48	74.14	138.96	-92.39	1,834.81	4,623.64	4,674.93	4,546.74	128.19	36.469		
13,000.00	7,870.00	15,353.00	7,799.48	75.39	138.96	-92.39	1,834.81	4,623.64	4,768.11	4,640.37	127.74	37.327		
13,100.00	7,870.00	15,353.00	7,799.48	76.67	138.96	-92.39	1,834.81	4,623.64	4,861.56	4,734.26	127.31	38.188		
13,200.00	7,870.00	15,353.00	7,799.48	77.98	138.96	-92.39	1,834.81	4,623.64	4,955.27	4,828.38	126.89	39.051		
13,300.00	7,870.00	15,353.00	7,799.48	79.31	138.96	-92.39	1,834.81	4,623.64	5,049.22	4,922.73	126.49	39.917		
13,400.00	7,870.00	15,353.00	7,799.48	80.67	138.96	-92.39	1,834.81	4,623.64	5,143.40	5,017.29	126.11	40.786		
13,500.00	7,870.00	15,353.00	7,799.48	82.04	138.96	-92.39	1,834.81	4,623.64	5,237.80	5,112.06	125.74	41.657		
13,600.00	7,870.00	15,353.00	7,799.48	83.43	138.96	-92.39	1,834.81	4,623.64	5,332.39	5,207.01	125.38	42.529		
13,700.00	7,870.00	15,353.00	7,799.48	84.84	138.96	-92.39	1,834.81	4,623.64	5,427.19	5,302.15	125.04	43.404		
13,800.00	7,870.00	15,353.00	7,799.48	86.27	138.96	-92.39	1,834.81	4,623.64	5,522.16	5,397.45	124.71	44.280		
13,900.00	7,870.00	15,353.00	7,799.48	87.71	138.96	-92.39	1,834.81	4,623.64	5,617.31	5,492.92	124.39	45.158		
14,000.00	7,870.00	15,353.00	7,799.48	89.16	138.96	-92.39	1,834.81	4,623.64	5,712.63	5,588.54	124.09	46.037		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	15,353.00	7,799.48	90.63	138.96	-92.39	1,834.81	4,623.64	5,808.10	5,684.31	123.80	46.917		
14,200.00	7,870.00	15,353.00	7,799.48	92.10	138.96	-92.39	1,834.81	4,623.64	5,903.73	5,780.21	123.51	47.799		
14,300.00	7,870.00	15,353.00	7,799.48	93.59	138.96	-92.39	1,834.81	4,623.64	5,999.49	5,876.25	123.24	48.681		
14,400.00	7,870.00	15,353.00	7,799.48	95.09	138.96	-92.39	1,834.81	4,623.64	6,095.40	5,972.42	122.98	49.565		
14,500.00	7,870.00	15,353.00	7,799.48	96.60	138.96	-92.39	1,834.81	4,623.64	6,191.43	6,068.70	122.73	50.449		
14,600.00	7,870.00	15,353.00	7,799.48	98.11	138.96	-92.39	1,834.81	4,623.64	6,287.58	6,165.10	122.48	51.334		
14,700.00	7,870.00	15,353.00	7,799.48	99.64	138.96	-92.39	1,834.81	4,623.64	6,383.86	6,261.61	122.25	52.219		
14,800.00	7,870.00	15,353.00	7,799.48	101.17	138.96	-92.39	1,834.81	4,623.64	6,480.24	6,358.22	122.03	53.106		
14,900.00	7,870.00	15,353.00	7,799.48	102.71	138.96	-92.39	1,834.81	4,623.64	6,576.74	6,454.93	121.81	53.992		
15,000.00	7,870.00	15,353.00	7,799.48	104.26	138.96	-92.39	1,834.81	4,623.64	6,673.34	6,551.74	121.60	54.879		
15,100.00	7,870.00	15,353.00	7,799.48	105.82	138.96	-92.39	1,834.81	4,623.64	6,770.03	6,648.63	121.40	55.767		
15,200.00	7,870.00	15,353.00	7,799.48	107.38	138.96	-92.39	1,834.81	4,623.64	6,866.82	6,745.62	121.21	56.654		
15,300.00	7,870.00	15,353.00	7,799.48	108.95	138.96	-92.39	1,834.81	4,623.64	6,963.70	6,842.69	121.02	57.542		
15,400.00	7,870.00	15,353.00	7,799.48	110.52	138.96	-92.39	1,834.81	4,623.64	7,060.67	6,939.83	120.84	58.430		
15,500.00	7,870.00	15,353.00	7,799.48	112.10	138.96	-92.39	1,834.81	4,623.64	7,157.73	7,037.06	120.67	59.318		
15,600.00	7,870.00	15,353.00	7,799.48	113.69	138.96	-92.39	1,834.81	4,623.64	7,254.86	7,134.36	120.50	60.206		
15,700.00	7,870.00	15,353.00	7,799.48	115.28	138.96	-92.39	1,834.81	4,623.64	7,352.07	7,231.73	120.34	61.094		
15,800.00	7,870.00	15,353.00	7,799.48	116.87	138.96	-92.39	1,834.81	4,623.64	7,449.35	7,329.16	120.18	61.982		
15,900.00	7,870.00	15,353.00	7,799.48	118.47	138.96	-92.39	1,834.81	4,623.64	7,546.70	7,426.67	120.04	62.870		
16,000.00	7,870.00	15,353.00	7,799.48	120.07	138.96	-92.39	1,834.81	4,623.64	7,644.13	7,524.23	119.89	63.758		
16,100.00	7,870.00	15,353.00	7,799.48	121.68	138.96	-92.39	1,834.81	4,623.64	7,741.61	7,621.86	119.75	64.645		
16,200.00	7,870.00	15,353.00	7,799.48	123.30	138.96	-92.39	1,834.81	4,623.64	7,839.17	7,719.54	119.62	65.533		
16,300.00	7,870.00	15,353.00	7,799.48	124.91	138.96	-92.39	1,834.81	4,623.64	7,936.78	7,817.28	119.49	66.420		
16,400.00	7,870.00	15,353.00	7,799.48	126.53	138.96	-92.39	1,834.81	4,623.64	8,034.45	7,915.08	119.37	67.306		
16,500.00	7,870.00	15,353.00	7,799.48	128.16	138.96	-92.39	1,834.81	4,623.64	8,132.18	8,012.92	119.25	68.193		
16,600.00	7,870.00	15,353.00	7,799.48	129.79	138.96	-92.39	1,834.81	4,623.64	8,229.96	8,110.82	119.14	69.079		
16,700.00	7,870.00	15,353.00	7,799.48	131.42	138.96	-92.39	1,834.81	4,623.64	8,327.79	8,208.76	119.03	69.964		
16,800.00	7,870.00	15,353.00	7,799.48	133.05	138.96	-92.39	1,834.81	4,623.64	8,425.68	8,306.76	118.92	70.850		
16,900.00	7,870.00	15,353.00	7,799.48	134.69	138.96	-92.39	1,834.81	4,623.64	8,523.61	8,404.79	118.82	71.734		
17,000.00	7,870.00	15,353.00	7,799.48	136.33	138.96	-92.39	1,834.81	4,623.64	8,621.60	8,502.87	118.72	72.619		
17,100.00	7,870.00	15,353.00	7,799.48	137.97	138.96	-92.39	1,834.81	4,623.64	8,719.62	8,600.99	118.63	73.502		
17,200.00	7,870.00	15,353.00	7,799.48	139.62	138.96	-92.39	1,834.81	4,623.64	8,817.70	8,699.16	118.54	74.386		
17,300.00	7,870.00	15,353.00	7,799.48	141.27	138.96	-92.39	1,834.81	4,623.64	8,915.81	8,797.36	118.45	75.268		
17,400.00	7,870.00	15,353.00	7,799.48	142.92	138.96	-92.39	1,834.81	4,623.64	9,013.97	8,895.60	118.37	76.150		
17,500.00	7,870.00	15,353.00	7,799.48	144.58	138.96	-92.39	1,834.81	4,623.64	9,112.17	8,993.87	118.29	77.032		
17,600.00	7,870.00	15,353.00	7,799.48	146.23	138.96	-92.39	1,834.81	4,623.64	9,210.40	9,092.19	118.21	77.913		
17,700.00	7,870.00	15,353.00	7,799.48	147.89	138.96	-92.39	1,834.81	4,623.64	9,308.67	9,190.53	118.14	78.793		
17,800.00	7,870.00	15,353.00	7,799.48	149.56	138.96	-92.39	1,834.81	4,623.64	9,406.98	9,288.91	118.07	79.673		
17,900.00	7,870.00	15,353.00	7,799.48	151.22	138.96	-92.39	1,834.81	4,623.64	9,505.33	9,387.33	118.00	80.552		
18,000.00	7,870.00	15,353.00	7,799.48	152.89	138.96	-92.39	1,834.81	4,623.64	9,603.71	9,485.77	117.94	81.430		
18,100.00	7,870.00	15,353.00	7,799.48	154.55	138.96	-92.39	1,834.81	4,623.64	9,702.12	9,584.24	117.88	82.308		
18,200.00	7,870.00	15,353.00	7,799.48	156.22	138.96	-92.39	1,834.81	4,623.64	9,800.56	9,682.75	117.82	83.185		
18,300.00	7,870.00	15,353.00	7,799.48	157.90	138.96	-92.39	1,834.81	4,623.64	9,899.04	9,781.28	117.76	84.061		
18,400.00	7,870.00	15,353.00	7,799.48	159.57	138.96	-92.39	1,834.81	4,623.64	9,997.54	9,879.84	117.71	84.937		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	69.60	1,844.23	4,959.33	9,433.86					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.60	1,844.23	4,959.33	9,351.24	9,259.98	91.26	102.473		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.60	1,844.23	4,959.33	9,268.96	9,177.26	91.70	101.077		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.60	1,844.23	4,959.33	9,187.03	9,094.85	92.18	99.662		
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.60	1,844.23	4,959.33	9,105.47	9,012.77	92.70	98.230		
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.60	1,844.23	4,959.33	9,024.27	8,931.03	93.24	96.784		
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.60	1,844.23	4,959.33	8,943.45	8,849.64	93.82	95.329		
700.00	700.00	15,243.00	7,668.35	2.29	138.66	69.60	1,844.23	4,959.33	8,863.03	8,768.61	94.42	93.867		
800.00	800.00	15,243.00	7,668.35	2.64	138.66	69.60	1,844.23	4,959.33	8,783.01	8,687.96	95.05	92.402		
900.00	900.00	15,243.00	7,668.35	3.00	138.66	69.60	1,844.23	4,959.33	8,703.40	8,607.69	95.71	90.939		
1,000.00	1,000.00	15,243.00	7,668.35	3.36	138.66	69.60	1,844.23	4,959.33	8,624.21	8,527.83	96.38	89.478		
1,100.00	1,099.98	15,243.00	7,668.35	3.72	138.66	15.68	1,844.23	4,959.33	8,544.44	8,447.36	97.08	88.014		
1,200.00	1,199.84	15,243.00	7,668.35	4.07	138.66	16.45	1,844.23	4,959.33	8,463.08	8,365.30	97.78	86.550		
1,300.00	1,299.45	15,243.00	7,668.35	4.43	138.66	17.31	1,844.23	4,959.33	8,380.20	8,281.73	98.47	85.102		
1,400.00	1,398.70	15,243.00	7,668.35	4.80	138.66	18.27	1,844.23	4,959.33	8,295.85	8,196.71	99.15	83.671		
1,500.00	1,497.47	15,243.00	7,668.35	5.18	138.66	19.35	1,844.23	4,959.33	8,210.10	8,110.29	99.81	82.256		
1,600.00	1,595.62	15,243.00	7,668.35	5.57	138.66	20.56	1,844.23	4,959.33	8,122.99	8,022.53	100.46	80.859		
1,700.00	1,693.06	15,243.00	7,668.35	6.00	138.66	21.93	1,844.23	4,959.33	8,034.60	7,933.51	101.09	79.480		
1,800.00	1,789.64	15,243.00	7,668.35	6.45	138.66	23.49	1,844.23	4,959.33	7,945.00	7,843.29	101.70	78.118		
1,900.00	1,885.27	15,243.00	7,668.35	6.94	138.66	25.27	1,844.23	4,959.33	7,854.24	7,751.94	102.30	76.775		
2,000.00	1,979.82	15,243.00	7,668.35	7.47	138.66	27.33	1,844.23	4,959.33	7,762.41	7,659.53	102.88	75.450		
2,100.00	2,073.17	15,243.00	7,668.35	8.05	138.66	29.71	1,844.23	4,959.33	7,669.58	7,566.14	103.44	74.143		
2,200.00	2,165.21	15,243.00	7,668.35	8.67	138.66	32.50	1,844.23	4,959.33	7,575.83	7,471.85	103.98	72.856		
2,300.00	2,255.84	15,243.00	7,668.35	9.35	138.66	35.77	1,844.23	4,959.33	7,481.24	7,376.73	104.51	71.587		
2,400.00	2,344.94	15,243.00	7,668.35	10.09	138.66	39.64	1,844.23	4,959.33	7,385.89	7,280.89	105.01	70.337		
2,500.00	2,432.39	15,243.00	7,668.35	10.89	138.66	44.23	1,844.23	4,959.33	7,289.88	7,184.39	105.49	69.106		
2,519.29	2,449.07	15,243.00	7,668.35	11.05	138.66	45.21	1,844.23	4,959.33	7,271.29	7,165.71	105.58	68.870		
2,600.00	2,518.69	15,243.00	7,668.35	11.74	138.66	45.21	1,844.23	4,959.33	7,193.50	7,087.54	105.96	67.890		
2,700.00	2,604.95	15,243.00	7,668.35	12.62	138.66	45.21	1,844.23	4,959.33	7,097.21	6,990.77	106.44	66.678		
2,800.00	2,691.22	15,243.00	7,668.35	13.52	138.66	45.21	1,844.23	4,959.33	7,001.02	6,894.08	106.94	65.467		
2,900.00	2,777.48	15,243.00	7,668.35	14.43	138.66	45.21	1,844.23	4,959.33	6,904.94	6,797.48	107.46	64.257		
3,000.00	2,863.75	15,243.00	7,668.35	15.35	138.66	45.21	1,844.23	4,959.33	6,808.97	6,700.97	107.99	63.049		
3,100.00	2,950.01	15,243.00	7,668.35	16.28	138.66	45.21	1,844.23	4,959.33	6,713.12	6,604.57	108.55	61.844		
3,200.00	3,036.27	15,243.00	7,668.35	17.22	138.66	45.21	1,844.23	4,959.33	6,617.39	6,508.26	109.12	60.641		
3,300.00	3,122.54	15,243.00	7,668.35	18.17	138.66	45.21	1,844.23	4,959.33	6,521.79	6,412.07	109.72	59.441		
3,400.00	3,208.80	15,243.00	7,668.35	19.13	138.66	45.21	1,844.23	4,959.33	6,426.32	6,315.99	110.33	58.246		
3,500.00	3,295.07	15,243.00	7,668.35	20.09	138.66	45.21	1,844.23	4,959.33	6,331.00	6,220.03	110.97	57.054		
3,600.00	3,381.33	15,243.00	7,668.35	21.05	138.66	45.21	1,844.23	4,959.33	6,235.82	6,124.20	111.62	55.866		
3,700.00	3,467.59	15,243.00	7,668.35	22.02	138.66	45.21	1,844.23	4,959.33	6,140.79	6,028.49	112.30	54.683		
3,800.00	3,553.86	15,243.00	7,668.35	22.99	138.66	45.21	1,844.23	4,959.33	6,045.93	5,932.93	113.00	53.505		
3,900.00	3,640.12	15,243.00	7,668.35	23.97	138.66	45.21	1,844.23	4,959.33	5,951.23	5,837.51	113.72	52.333		
4,000.00	3,726.38	15,243.00	7,668.35	24.95	138.66	45.21	1,844.23	4,959.33	5,856.71	5,742.24	114.47	51.166		
4,100.00	3,812.65	15,243.00	7,668.35	25.93	138.66	45.21	1,844.23	4,959.33	5,762.37	5,647.13	115.24	50.005		
4,200.00	3,898.91	15,243.00	7,668.35	26.91	138.66	45.21	1,844.23	4,959.33	5,668.23	5,552.20	116.03	48.851		
4,300.00	3,985.18	15,243.00	7,668.35	27.90	138.66	45.21	1,844.23	4,959.33	5,574.29	5,457.44	116.85	47.703		
4,400.00	4,071.44	15,243.00	7,668.35	28.88	138.66	45.21	1,844.23	4,959.33	5,480.57	5,362.86	117.70	46.563		
4,500.00	4,157.70	15,243.00	7,668.35	29.87	138.66	45.21	1,844.23	4,959.33	5,387.07	5,268.49	118.58	45.430		
4,600.00	4,243.97	15,243.00	7,668.35	30.86	138.66	45.21	1,844.23	4,959.33	5,293.81	5,174.32	119.49	44.305		
4,700.00	4,330.23	15,243.00	7,668.35	31.85	138.66	45.21	1,844.23	4,959.33	5,200.80	5,080.37	120.42	43.188		
4,800.00	4,416.49	15,243.00	7,668.35	32.84	138.66	45.21	1,844.23	4,959.33	5,108.05	4,986.66	121.39	42.079		
4,900.00	4,502.76	15,243.00	7,668.35	33.84	138.66	45.21	1,844.23	4,959.33	5,015.58	4,893.19	122.39	40.980		
5,000.00	4,589.02	15,243.00	7,668.35	34.83	138.66	45.21	1,844.23	4,959.33	4,923.41	4,799.99	123.43	39.889		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	15,243.00	7,668.35	35.82	138.66	45.21	1,844.23	4,959.33	4,831.55	4,707.05	124.50	38.809		
5,200.00	4,761.55	15,243.00	7,668.35	36.82	138.66	45.21	1,844.23	4,959.33	4,740.02	4,614.42	125.60	37.738		
5,300.00	4,847.81	15,243.00	7,668.35	37.82	138.66	45.21	1,844.23	4,959.33	4,648.84	4,522.09	126.75	36.678		
5,400.00	4,934.08	15,243.00	7,668.35	38.81	138.66	45.21	1,844.23	4,959.33	4,558.02	4,430.09	127.93	35.628		
5,500.00	5,020.34	15,243.00	7,668.35	39.81	138.66	45.21	1,844.23	4,959.33	4,467.60	4,338.44	129.16	34.590		
5,600.00	5,106.60	15,243.00	7,668.35	40.81	138.66	45.21	1,844.23	4,959.33	4,377.60	4,247.17	130.43	33.564		
5,700.00	5,192.87	15,243.00	7,668.35	41.81	138.66	45.21	1,844.23	4,959.33	4,288.04	4,156.30	131.74	32.549		
5,800.00	5,279.13	15,243.00	7,668.35	42.81	138.66	45.21	1,844.23	4,959.33	4,198.95	4,065.85	133.10	31.548		
5,900.00	5,365.40	15,243.00	7,668.35	43.81	138.66	45.21	1,844.23	4,959.33	4,110.36	3,975.86	134.51	30.559		
6,000.00	5,451.66	15,243.00	7,668.35	44.81	138.66	45.21	1,844.23	4,959.33	4,022.31	3,886.35	135.96	29.584		
6,100.00	5,537.92	15,243.00	7,668.35	45.81	138.66	45.21	1,844.23	4,959.33	3,934.83	3,797.36	137.47	28.623		
6,200.00	5,624.19	15,243.00	7,668.35	46.81	138.66	45.21	1,844.23	4,959.33	3,847.95	3,708.92	139.03	27.677		
6,300.00	5,710.45	15,243.00	7,668.35	47.81	138.66	45.21	1,844.23	4,959.33	3,761.74	3,621.09	140.65	26.746		
6,400.00	5,796.72	15,243.00	7,668.35	48.81	138.66	45.21	1,844.23	4,959.33	3,676.21	3,533.89	142.32	25.831		
6,500.00	5,882.98	15,243.00	7,668.35	49.81	138.66	45.21	1,844.23	4,959.33	3,591.44	3,447.39	144.05	24.932		
6,600.00	5,969.24	15,243.00	7,668.35	50.82	138.66	45.21	1,844.23	4,959.33	3,507.47	3,361.63	145.84	24.050		
6,700.00	6,055.51	15,243.00	7,668.35	51.82	138.66	45.21	1,844.23	4,959.33	3,424.36	3,276.67	147.69	23.186		
6,800.00	6,141.77	15,243.00	7,668.35	52.82	138.66	45.21	1,844.23	4,959.33	3,342.18	3,192.58	149.60	22.341		
6,900.00	6,228.03	15,243.00	7,668.35	53.83	138.66	45.21	1,844.23	4,959.33	3,260.99	3,109.42	151.57	21.515		
7,000.00	6,314.30	15,243.00	7,668.35	54.83	138.66	45.21	1,844.23	4,959.33	3,180.87	3,027.27	153.60	20.709		
7,100.00	6,400.56	15,243.00	7,668.35	55.83	138.66	45.21	1,844.23	4,959.33	3,101.91	2,946.22	155.69	19.923		
7,200.00	6,486.83	15,243.00	7,668.35	56.84	138.66	45.21	1,844.23	4,959.33	3,024.19	2,866.35	157.84	19.159		
7,300.00	6,573.09	15,243.00	7,668.35	57.84	138.66	45.21	1,844.23	4,959.33	2,947.82	2,787.77	160.05	18.418		
7,400.00	6,659.35	15,243.00	7,668.35	58.84	138.66	45.21	1,844.23	4,959.33	2,872.90	2,710.59	162.31	17.700		
7,500.00	6,745.62	15,243.00	7,668.35	59.85	138.66	45.21	1,844.23	4,959.33	2,799.54	2,634.93	164.61	17.007		
7,600.00	6,831.88	15,243.00	7,668.35	60.85	138.66	45.21	1,844.23	4,959.33	2,727.88	2,560.92	166.96	16.339		
7,700.00	6,918.14	15,243.00	7,668.35	61.86	138.66	45.21	1,844.23	4,959.33	2,658.05	2,488.71	169.34	15.697		
7,800.00	7,004.41	15,243.00	7,668.35	62.86	138.66	45.21	1,844.23	4,959.33	2,590.20	2,418.46	171.73	15.083		
7,900.00	7,090.67	15,223.58	7,668.20	63.87	138.32	44.67	1,863.65	4,958.90	2,524.41	2,350.85	173.56	14.545		
8,000.00	7,176.94	15,195.89	7,667.99	64.87	137.84	43.90	1,891.33	4,958.27	2,460.63	2,285.51	175.12	14.052		
8,027.52	7,200.68	15,188.27	7,667.93	65.15	137.71	43.68	1,898.95	4,958.10	2,443.45	2,267.91	175.54	13.920		
8,050.00	7,220.18	15,188.00	7,667.93	65.37	137.70	38.53	1,899.22	4,958.10	2,429.48	2,253.42	176.05	13.800		
8,100.00	7,264.25	15,177.24	7,667.86	65.85	137.51	25.78	1,909.98	4,957.86	2,398.41	2,221.60	176.81	13.565		
8,150.00	7,308.99	15,173.25	7,667.84	66.28	137.44	12.08	1,913.96	4,957.78	2,367.62	2,189.97	177.65	13.327		
8,200.00	7,354.07	15,172.30	7,667.83	66.67	137.43	-2.11	1,914.91	4,957.76	2,337.36	2,158.91	178.45	13.098		
8,250.00	7,399.14	15,174.47	7,667.84	67.02	137.47	-16.03	1,912.74	4,957.80	2,307.90	2,128.70	179.20	12.879		
8,300.00	7,443.85	15,179.82	7,667.87	67.32	137.56	-28.92	1,907.40	4,957.92	2,279.48	2,099.58	179.90	12.671		
8,350.00	7,487.88	15,188.53	7,667.93	67.56	137.71	-40.30	1,898.68	4,958.11	2,252.34	2,071.79	180.55	12.475		
8,400.00	7,530.87	15,204.53	7,668.06	67.75	137.99	-49.90	1,882.69	4,958.47	2,226.66	2,045.38	181.28	12.283		
8,450.00	7,572.51	15,224.59	7,668.21	67.90	138.34	-57.89	1,862.63	4,958.92	2,202.60	2,020.62	181.98	12.104		
8,500.00	7,612.48	15,243.00	7,668.35	68.00	138.66	-64.60	1,844.23	4,959.33	2,180.29	1,997.81	182.47	11.949		
8,550.00	7,650.47	15,243.00	7,668.35	68.05	138.66	-70.57	1,844.23	4,959.33	2,160.06	1,977.85	182.21	11.855		
8,600.00	7,686.20	15,243.00	7,668.35	68.06	138.66	-75.50	1,844.23	4,959.33	2,142.22	1,960.43	181.79	11.784		
8,650.00	7,719.39	15,243.00	7,668.35	68.03	138.66	-79.54	1,844.23	4,959.33	2,126.95	1,945.73	181.22	11.737		
8,700.00	7,749.79	15,243.00	7,668.35	67.97	138.66	-82.80	1,844.23	4,959.33	2,114.44	1,933.93	180.52	11.713 SF		
8,750.00	7,777.17	15,243.00	7,668.35	67.87	138.66	-85.38	1,844.23	4,959.33	2,104.83	1,925.14	179.69	11.714		
8,800.00	7,801.32	15,243.00	7,668.35	67.74	138.66	-87.34	1,844.23	4,959.33	2,098.22	1,919.47	178.76	11.738		
8,850.00	7,822.06	15,243.00	7,668.35	67.59	138.66	-88.73	1,844.23	4,959.33	2,094.71	1,916.97	177.74	11.785 ES		
8,881.12	7,833.18	15,243.00	7,668.35	67.48	138.66	-89.34	1,844.23	4,959.33	2,094.10	1,917.02	177.08	11.826 CC		
8,900.00	7,839.23	15,243.00	7,668.35	67.41	138.66	-89.61	1,844.23	4,959.33	2,094.32	1,917.66	176.66	11.855		
8,950.00	7,852.69	15,243.00	7,668.35	67.22	138.66	-89.99	1,844.23	4,959.33	2,097.07	1,921.53	175.55	11.946		
9,000.00	7,862.35	15,243.00	7,668.35	67.00	138.66	-89.89	1,844.23	4,959.33	2,102.93	1,928.51	174.41	12.057		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	15,243.00	7,668.35	66.78	138.66	-89.33	1,844.23	4,959.33	2,111.82	1,938.53	173.28	12.187		
9,098.65	7,870.00	15,243.00	7,668.35	66.55	138.66	-88.33	1,844.23	4,959.33	2,123.27	1,951.07	172.20	12.330		
9,100.00	7,870.00	15,243.00	7,668.35	66.55	138.66	-88.33	1,844.23	4,959.33	2,123.63	1,951.45	172.18	12.334		
9,200.00	7,870.00	15,243.00	7,668.35	66.09	138.66	-88.33	1,844.23	4,959.33	2,152.17	1,982.09	170.08	12.654		
9,300.00	7,870.00	15,243.00	7,668.35	65.65	138.66	-88.33	1,844.23	4,959.33	2,184.92	2,016.72	168.20	12.990		
9,400.00	7,870.00	15,243.00	7,668.35	65.24	138.66	-88.33	1,844.23	4,959.33	2,221.69	2,055.17	166.52	13.342		
9,500.00	7,870.00	15,243.00	7,668.35	64.85	138.66	-88.33	1,844.23	4,959.33	2,262.29	2,097.25	165.04	13.707		
9,600.00	7,870.00	15,243.00	7,668.35	64.48	138.66	-88.33	1,844.23	4,959.33	2,306.51	2,142.78	163.73	14.087		
9,700.00	7,870.00	15,243.00	7,668.35	64.13	138.66	-88.33	1,844.23	4,959.33	2,354.15	2,191.58	162.57	14.481		
9,800.00	7,870.00	15,243.00	7,668.35	63.80	138.66	-88.33	1,844.23	4,959.33	2,405.01	2,243.50	161.51	14.890		
9,900.00	7,870.00	15,243.00	7,668.35	63.50	138.66	-88.33	1,844.23	4,959.33	2,458.88	2,298.34	160.54	15.316		
10,000.00	7,870.00	15,243.00	7,668.35	63.22	138.66	-88.33	1,844.23	4,959.33	2,515.58	2,355.95	159.63	15.758		
10,100.00	7,870.00	15,243.00	7,668.35	62.96	138.66	-88.33	1,844.23	4,959.33	2,574.91	2,416.15	158.77	16.218		
10,200.00	7,870.00	15,243.00	7,668.35	62.72	138.66	-88.33	1,844.23	4,959.33	2,636.71	2,478.78	157.93	16.695		
10,300.00	7,870.00	15,243.00	7,668.35	62.50	138.66	-88.33	1,844.23	4,959.33	2,700.79	2,543.68	157.11	17.190		
10,400.00	7,870.00	15,243.00	7,668.35	62.31	138.66	-88.33	1,844.23	4,959.33	2,767.00	2,610.69	156.31	17.702		
10,500.00	7,870.00	15,243.00	7,668.35	62.15	138.66	-88.33	1,844.23	4,959.33	2,835.20	2,679.68	155.51	18.231		
10,600.00	7,870.00	15,243.00	7,668.35	62.01	138.66	-88.33	1,844.23	4,959.33	2,905.23	2,750.50	154.73	18.776		
10,700.00	7,870.00	15,243.00	7,668.35	61.90	138.66	-88.33	1,844.23	4,959.33	2,976.98	2,823.03	153.95	19.337		
10,800.00	7,870.00	15,243.00	7,668.35	61.82	138.66	-88.33	1,844.23	4,959.33	3,050.32	2,897.14	153.18	19.914		
10,900.00	7,870.00	15,243.00	7,668.35	61.78	138.66	-88.33	1,844.23	4,959.33	3,125.14	2,972.72	152.41	20.504		
11,000.00	7,870.00	15,243.00	7,668.35	61.77	138.66	-88.33	1,844.23	4,959.33	3,201.33	3,049.67	151.66	21.109		
11,100.00	7,870.00	15,243.00	7,668.35	61.81	138.66	-88.33	1,844.23	4,959.33	3,278.81	3,127.89	150.91	21.726		
11,200.00	7,870.00	15,243.00	7,668.35	61.90	138.66	-88.33	1,844.23	4,959.33	3,357.47	3,207.29	150.18	22.356		
11,300.00	7,870.00	15,243.00	7,668.35	62.03	138.66	-88.33	1,844.23	4,959.33	3,437.24	3,287.79	149.46	22.998		
11,400.00	7,870.00	15,243.00	7,668.35	62.23	138.66	-88.33	1,844.23	4,959.33	3,518.05	3,369.31	148.74	23.652		
11,500.00	7,870.00	15,243.00	7,668.35	62.50	138.66	-88.33	1,844.23	4,959.33	3,599.82	3,451.78	148.05	24.315		
11,600.00	7,870.00	15,243.00	7,668.35	62.84	138.66	-88.33	1,844.23	4,959.33	3,682.49	3,535.13	147.36	24.989		
11,700.00	7,870.00	15,243.00	7,668.35	63.25	138.66	-88.33	1,844.23	4,959.33	3,766.00	3,619.31	146.69	25.673		
11,800.00	7,870.00	15,243.00	7,668.35	63.76	138.66	-88.33	1,844.23	4,959.33	3,850.30	3,704.26	146.04	26.365		
11,900.00	7,870.00	15,243.00	7,668.35	64.34	138.66	-88.33	1,844.23	4,959.33	3,935.34	3,789.94	145.40	27.065		
12,000.00	7,870.00	15,243.00	7,668.35	65.01	138.66	-88.33	1,844.23	4,959.33	4,021.06	3,876.28	144.78	27.774		
12,100.00	7,870.00	15,243.00	7,668.35	65.77	138.66	-88.33	1,844.23	4,959.33	4,107.43	3,963.26	144.17	28.490		
12,200.00	7,870.00	15,243.00	7,668.35	66.61	138.66	-88.33	1,844.23	4,959.33	4,194.40	4,050.82	143.58	29.213		
12,300.00	7,870.00	15,243.00	7,668.35	67.51	138.66	-88.33	1,844.23	4,959.33	4,281.94	4,138.94	143.00	29.943		
12,400.00	7,870.00	15,243.00	7,668.35	68.49	138.66	-88.33	1,844.23	4,959.33	4,370.02	4,227.58	142.44	30.679		
12,500.00	7,870.00	15,243.00	7,668.35	69.52	138.66	-88.33	1,844.23	4,959.33	4,458.60	4,316.70	141.90	31.422		
12,600.00	7,870.00	15,243.00	7,668.35	70.61	138.66	-88.33	1,844.23	4,959.33	4,547.65	4,406.29	141.37	32.169		
12,700.00	7,870.00	15,243.00	7,668.35	71.75	138.66	-88.33	1,844.23	4,959.33	4,637.15	4,496.30	140.85	32.922		
12,800.00	7,870.00	15,243.00	7,668.35	72.93	138.66	-88.33	1,844.23	4,959.33	4,727.07	4,586.72	140.35	33.680		
12,900.00	7,870.00	15,243.00	7,668.35	74.14	138.66	-88.33	1,844.23	4,959.33	4,817.39	4,677.52	139.87	34.443		
13,000.00	7,870.00	15,243.00	7,668.35	75.39	138.66	-88.33	1,844.23	4,959.33	4,908.08	4,768.69	139.39	35.210		
13,100.00	7,870.00	15,243.00	7,668.35	76.67	138.66	-88.33	1,844.23	4,959.33	4,999.13	4,860.20	138.94	35.981		
13,200.00	7,870.00	15,243.00	7,668.35	77.98	138.66	-88.33	1,844.23	4,959.33	5,090.52	4,952.02	138.49	36.756		
13,300.00	7,870.00	15,243.00	7,668.35	79.31	138.66	-88.33	1,844.23	4,959.33	5,182.22	5,044.16	138.06	37.535		
13,400.00	7,870.00	15,243.00	7,668.35	80.67	138.66	-88.33	1,844.23	4,959.33	5,274.22	5,136.58	137.64	38.318		
13,500.00	7,870.00	15,243.00	7,668.35	82.04	138.66	-88.33	1,844.23	4,959.33	5,366.51	5,229.28	137.24	39.103		
13,600.00	7,870.00	15,243.00	7,668.35	83.43	138.66	-88.33	1,844.23	4,959.33	5,459.08	5,322.23	136.85	39.892		
13,700.00	7,870.00	15,243.00	7,668.35	84.84	138.66	-88.33	1,844.23	4,959.33	5,551.90	5,415.43	136.47	40.684		
13,800.00	7,870.00	15,243.00	7,668.35	86.27	138.66	-88.33	1,844.23	4,959.33	5,644.96	5,508.87	136.10	41.478		
13,900.00	7,870.00	15,243.00	7,668.35	87.71	138.66	-88.33	1,844.23	4,959.33	5,738.26	5,602.52	135.74	42.275		
14,000.00	7,870.00	15,243.00	7,668.35	89.16	138.66	-88.33	1,844.23	4,959.33	5,831.78	5,696.39	135.39	43.074		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	15,243.00	7,668.35	90.63	138.66	-88.33	1,844.23	4,959.33	5,925.51	5,790.46	135.05	43.876		
14,200.00	7,870.00	15,243.00	7,668.35	92.10	138.66	-88.33	1,844.23	4,959.33	6,019.45	5,884.72	134.73	44.679		
14,300.00	7,870.00	15,243.00	7,668.35	93.59	138.66	-88.33	1,844.23	4,959.33	6,113.57	5,979.16	134.41	45.485		
14,400.00	7,870.00	15,243.00	7,668.35	95.09	138.66	-88.33	1,844.23	4,959.33	6,207.88	6,073.78	134.10	46.292		
14,500.00	7,870.00	15,243.00	7,668.35	96.60	138.66	-88.33	1,844.23	4,959.33	6,302.37	6,168.57	133.80	47.102		
14,600.00	7,870.00	15,243.00	7,668.35	98.11	138.66	-88.33	1,844.23	4,959.33	6,397.02	6,263.51	133.51	47.913		
14,700.00	7,870.00	15,243.00	7,668.35	99.64	138.66	-88.33	1,844.23	4,959.33	6,491.84	6,358.60	133.23	48.725		
14,800.00	7,870.00	15,243.00	7,668.35	101.17	138.66	-88.33	1,844.23	4,959.33	6,586.80	6,453.84	132.96	49.539		
14,900.00	7,870.00	15,243.00	7,668.35	102.71	138.66	-88.33	1,844.23	4,959.33	6,681.92	6,549.22	132.70	50.354		
15,000.00	7,870.00	15,243.00	7,668.35	104.26	138.66	-88.33	1,844.23	4,959.33	6,777.17	6,644.73	132.44	51.170		
15,100.00	7,870.00	15,243.00	7,668.35	105.82	138.66	-88.33	1,844.23	4,959.33	6,872.56	6,740.37	132.20	51.988		
15,200.00	7,870.00	15,243.00	7,668.35	107.38	138.66	-88.33	1,844.23	4,959.33	6,968.08	6,836.12	131.95	52.807		
15,300.00	7,870.00	15,243.00	7,668.35	108.95	138.66	-88.33	1,844.23	4,959.33	7,063.72	6,932.00	131.72	53.626		
15,400.00	7,870.00	15,243.00	7,668.35	110.52	138.66	-88.33	1,844.23	4,959.33	7,159.48	7,027.99	131.50	54.447		
15,500.00	7,870.00	15,243.00	7,668.35	112.10	138.66	-88.33	1,844.23	4,959.33	7,255.36	7,124.08	131.28	55.268		
15,600.00	7,870.00	15,243.00	7,668.35	113.69	138.66	-88.33	1,844.23	4,959.33	7,351.35	7,220.28	131.06	56.090		
15,700.00	7,870.00	15,243.00	7,668.35	115.28	138.66	-88.33	1,844.23	4,959.33	7,447.44	7,316.58	130.86	56.913		
15,800.00	7,870.00	15,243.00	7,668.35	116.87	138.66	-88.33	1,844.23	4,959.33	7,543.63	7,412.97	130.66	57.737		
15,900.00	7,870.00	15,243.00	7,668.35	118.47	138.66	-88.33	1,844.23	4,959.33	7,639.92	7,509.46	130.46	58.561		
16,000.00	7,870.00	15,243.00	7,668.35	120.07	138.66	-88.33	1,844.23	4,959.33	7,736.31	7,606.03	130.27	59.385		
16,100.00	7,870.00	15,243.00	7,668.35	121.68	138.66	-88.33	1,844.23	4,959.33	7,832.78	7,702.69	130.09	60.211		
16,200.00	7,870.00	15,243.00	7,668.35	123.30	138.66	-88.33	1,844.23	4,959.33	7,929.34	7,799.43	129.91	61.036		
16,300.00	7,870.00	15,243.00	7,668.35	124.91	138.66	-88.33	1,844.23	4,959.33	8,025.99	7,896.25	129.74	61.862		
16,400.00	7,870.00	15,243.00	7,668.35	126.53	138.66	-88.33	1,844.23	4,959.33	8,122.72	7,993.15	129.57	62.688		
16,500.00	7,870.00	15,243.00	7,668.35	128.16	138.66	-88.33	1,844.23	4,959.33	8,219.53	8,090.12	129.41	63.515		
16,600.00	7,870.00	15,243.00	7,668.35	129.79	138.66	-88.33	1,844.23	4,959.33	8,316.41	8,187.16	129.25	64.342		
16,700.00	7,870.00	15,243.00	7,668.35	131.42	138.66	-88.33	1,844.23	4,959.33	8,413.36	8,284.26	129.10	65.169		
16,800.00	7,870.00	15,243.00	7,668.35	133.05	138.66	-88.33	1,844.23	4,959.33	8,510.39	8,381.44	128.95	65.996		
16,900.00	7,870.00	15,243.00	7,668.35	134.69	138.66	-88.33	1,844.23	4,959.33	8,607.48	8,478.67	128.81	66.823		
17,000.00	7,870.00	15,243.00	7,668.35	136.33	138.66	-88.33	1,844.23	4,959.33	8,704.64	8,575.97	128.67	67.650		
17,100.00	7,870.00	15,243.00	7,668.35	137.97	138.66	-88.33	1,844.23	4,959.33	8,801.87	8,673.33	128.54	68.478		
17,200.00	7,870.00	15,243.00	7,668.35	139.62	138.66	-88.33	1,844.23	4,959.33	8,899.15	8,770.75	128.41	69.305		
17,300.00	7,870.00	15,243.00	7,668.35	141.27	138.66	-88.33	1,844.23	4,959.33	8,996.50	8,868.22	128.28	70.133		
17,400.00	7,870.00	15,243.00	7,668.35	142.92	138.66	-88.33	1,844.23	4,959.33	9,093.90	8,965.74	128.16	70.960		
17,500.00	7,870.00	15,243.00	7,668.35	144.58	138.66	-88.33	1,844.23	4,959.33	9,191.35	9,063.32	128.04	71.787		
17,600.00	7,870.00	15,243.00	7,668.35	146.23	138.66	-88.33	1,844.23	4,959.33	9,288.87	9,160.95	127.92	72.615		
17,700.00	7,870.00	15,243.00	7,668.35	147.89	138.66	-88.33	1,844.23	4,959.33	9,386.43	9,258.62	127.81	73.442		
17,800.00	7,870.00	15,243.00	7,668.35	149.56	138.66	-88.33	1,844.23	4,959.33	9,484.05	9,356.35	127.70	74.269		
17,900.00	7,870.00	15,243.00	7,668.35	151.22	138.66	-88.33	1,844.23	4,959.33	9,581.71	9,454.12	127.59	75.095		
18,000.00	7,870.00	15,243.00	7,668.35	152.89	138.66	-88.33	1,844.23	4,959.33	9,679.42	9,551.93	127.49	75.922		
18,100.00	7,870.00	15,243.00	7,668.35	154.55	138.66	-88.33	1,844.23	4,959.33	9,777.18	9,649.79	127.39	76.748		
18,200.00	7,870.00	15,243.00	7,668.35	156.22	138.66	-88.33	1,844.23	4,959.33	9,874.98	9,747.69	127.30	77.574		
18,300.00	7,870.00	15,243.00	7,668.35	157.90	138.66	-88.33	1,844.23	4,959.33	9,972.83	9,845.62	127.20	78.400		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	65.76	1,823.68	4,051.07	8,897.14					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.76	1,823.68	4,051.07	8,810.64	8,724.81	85.83	102.652		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.76	1,823.68	4,051.07	8,724.43	8,638.22	86.21	101.204		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.76	1,823.68	4,051.07	8,638.52	8,551.90	86.61	99.738		
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.76	1,823.68	4,051.07	8,552.91	8,465.86	87.05	98.256		
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.76	1,823.68	4,051.07	8,467.62	8,380.11	87.51	96.761		
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.76	1,823.68	4,051.07	8,382.65	8,294.65	88.00	95.255		
700.00	700.00	15,134.00	7,566.57	2.29	139.08	65.76	1,823.68	4,051.07	8,298.02	8,209.50	88.52	93.742		
800.00	800.00	15,134.00	7,566.57	2.64	139.08	65.76	1,823.68	4,051.07	8,213.73	8,124.67	89.06	92.224		
900.00	900.00	15,134.00	7,566.57	3.00	139.08	65.76	1,823.68	4,051.07	8,129.80	8,040.17	89.63	90.705		
1,000.00	1,000.00	15,134.00	7,566.57	3.36	139.08	65.76	1,823.68	4,051.07	8,046.24	7,956.02	90.22	89.186		
1,100.00	1,099.98	15,134.00	7,566.57	3.72	139.08	11.76	1,823.68	4,051.07	7,962.12	7,871.29	90.83	87.661		
1,200.00	1,199.84	15,134.00	7,566.57	4.07	139.08	12.45	1,823.68	4,051.07	7,876.54	7,785.09	91.44	86.136		
1,300.00	1,299.45	15,134.00	7,566.57	4.43	139.08	13.24	1,823.68	4,051.07	7,789.56	7,697.52	92.05	84.627		
1,400.00	1,398.70	15,134.00	7,566.57	4.80	139.08	14.13	1,823.68	4,051.07	7,701.25	7,608.61	92.63	83.136		
1,500.00	1,497.47	15,134.00	7,566.57	5.18	139.08	15.15	1,823.68	4,051.07	7,611.66	7,518.45	93.21	81.662		
1,600.00	1,595.62	15,134.00	7,566.57	5.57	139.08	16.32	1,823.68	4,051.07	7,520.86	7,427.09	93.77	80.208		
1,700.00	1,693.06	15,134.00	7,566.57	6.00	139.08	17.69	1,823.68	4,051.07	7,428.92	7,334.61	94.31	78.773		
1,800.00	1,789.64	15,134.00	7,566.57	6.45	139.08	19.30	1,823.68	4,051.07	7,335.91	7,241.08	94.83	77.358		
1,900.00	1,885.27	15,134.00	7,566.57	6.94	139.08	21.21	1,823.68	4,051.07	7,241.90	7,146.57	95.33	75.963		
2,000.00	1,979.82	15,134.00	7,566.57	7.47	139.08	23.50	1,823.68	4,051.07	7,146.98	7,051.16	95.82	74.590		
2,100.00	2,073.17	15,134.00	7,566.57	8.05	139.08	26.30	1,823.68	4,051.07	7,051.22	6,954.94	96.28	73.238		
2,200.00	2,165.21	15,134.00	7,566.57	8.67	139.08	29.77	1,823.68	4,051.07	6,954.71	6,857.99	96.72	71.908		
2,300.00	2,255.84	15,134.00	7,566.57	9.35	139.08	34.13	1,823.68	4,051.07	6,857.53	6,760.40	97.13	70.600		
2,400.00	2,344.94	15,134.00	7,566.57	10.09	139.08	39.69	1,823.68	4,051.07	6,759.79	6,662.26	97.52	69.316		
2,500.00	2,432.39	15,134.00	7,566.57	10.89	139.08	46.86	1,823.68	4,051.07	6,661.56	6,563.68	97.88	68.055		
2,519.29	2,449.07	15,134.00	7,566.57	11.05	139.08	48.47	1,823.68	4,051.07	6,642.56	6,544.61	97.95	67.813		
2,600.00	2,518.69	15,134.00	7,566.57	11.74	139.08	48.47	1,823.68	4,051.07	6,563.08	6,464.85	98.23	66.811		
2,700.00	2,604.95	15,134.00	7,566.57	12.62	139.08	48.47	1,823.68	4,051.07	6,464.65	6,366.06	98.59	65.570		
2,800.00	2,691.22	15,134.00	7,566.57	13.52	139.08	48.47	1,823.68	4,051.07	6,366.26	6,267.29	98.96	64.329		
2,900.00	2,777.48	15,134.00	7,566.57	14.43	139.08	48.47	1,823.68	4,051.07	6,267.92	6,168.57	99.35	63.090		
3,000.00	2,863.75	15,134.00	7,566.57	15.35	139.08	48.47	1,823.68	4,051.07	6,169.63	6,069.88	99.75	61.851		
3,100.00	2,950.01	15,134.00	7,566.57	16.28	139.08	48.47	1,823.68	4,051.07	6,071.41	5,971.24	100.17	60.613		
3,200.00	3,036.27	15,134.00	7,566.57	17.22	139.08	48.47	1,823.68	4,051.07	5,973.24	5,872.64	100.60	59.377		
3,300.00	3,122.54	15,134.00	7,566.57	18.17	139.08	48.47	1,823.68	4,051.07	5,875.13	5,774.08	101.05	58.143		
3,400.00	3,208.80	15,134.00	7,566.57	19.13	139.08	48.47	1,823.68	4,051.07	5,777.08	5,675.57	101.51	56.911		
3,500.00	3,295.07	15,134.00	7,566.57	20.09	139.08	48.47	1,823.68	4,051.07	5,679.11	5,577.12	101.99	55.681		
3,600.00	3,381.33	15,134.00	7,566.57	21.05	139.08	48.47	1,823.68	4,051.07	5,581.21	5,478.71	102.49	54.454		
3,700.00	3,467.59	15,134.00	7,566.57	22.02	139.08	48.47	1,823.68	4,051.07	5,483.38	5,380.37	103.01	53.230		
3,800.00	3,553.86	15,134.00	7,566.57	22.99	139.08	48.47	1,823.68	4,051.07	5,385.63	5,282.08	103.55	52.009		
3,900.00	3,640.12	15,134.00	7,566.57	23.97	139.08	48.47	1,823.68	4,051.07	5,287.97	5,183.86	104.11	50.792		
4,000.00	3,726.38	15,134.00	7,566.57	24.95	139.08	48.47	1,823.68	4,051.07	5,190.39	5,085.70	104.69	49.578		
4,100.00	3,812.65	15,134.00	7,566.57	25.93	139.08	48.47	1,823.68	4,051.07	5,092.91	4,987.62	105.29	48.368		
4,200.00	3,898.91	15,134.00	7,566.57	26.91	139.08	48.47	1,823.68	4,051.07	4,995.53	4,889.61	105.92	47.163		
4,300.00	3,985.18	15,134.00	7,566.57	27.90	139.08	48.47	1,823.68	4,051.07	4,898.25	4,791.68	106.57	45.962		
4,400.00	4,071.44	15,134.00	7,566.57	28.88	139.08	48.47	1,823.68	4,051.07	4,801.09	4,693.84	107.25	44.765		
4,500.00	4,157.70	15,134.00	7,566.57	29.87	139.08	48.47	1,823.68	4,051.07	4,704.05	4,596.09	107.95	43.574		
4,600.00	4,243.97	15,134.00	7,566.57	30.86	139.08	48.47	1,823.68	4,051.07	4,607.13	4,498.44	108.69	42.388		
4,700.00	4,330.23	15,134.00	7,566.57	31.85	139.08	48.47	1,823.68	4,051.07	4,510.34	4,400.89	109.45	41.208		
4,800.00	4,416.49	15,134.00	7,566.57	32.84	139.08	48.47	1,823.68	4,051.07	4,413.70	4,303.46	110.25	40.034		
4,900.00	4,502.76	15,134.00	7,566.57	33.84	139.08	48.47	1,823.68	4,051.07	4,317.22	4,206.14	111.08	38.867		
5,000.00	4,589.02	15,134.00	7,566.57	34.83	139.08	48.47	1,823.68	4,051.07	4,220.89	4,108.95	111.94	37.706		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	15,134.00	7,566.57	35.82	139.08	48.47	1,823.68	4,051.07	4,124.74	4,011.90	112.85	36.552		
5,200.00	4,761.55	15,134.00	7,566.57	36.82	139.08	48.47	1,823.68	4,051.07	4,028.78	3,914.99	113.79	35.405		
5,300.00	4,847.81	15,134.00	7,566.57	37.82	139.08	48.47	1,823.68	4,051.07	3,933.02	3,818.25	114.78	34.266		
5,400.00	4,934.08	15,134.00	7,566.57	38.81	139.08	48.47	1,823.68	4,051.07	3,837.48	3,721.67	115.81	33.136		
5,500.00	5,020.34	15,134.00	7,566.57	39.81	139.08	48.47	1,823.68	4,051.07	3,742.17	3,625.28	116.89	32.014		
5,600.00	5,106.60	15,134.00	7,566.57	40.81	139.08	48.47	1,823.68	4,051.07	3,647.11	3,529.08	118.03	30.901		
5,700.00	5,192.87	15,134.00	7,566.57	41.81	139.08	48.47	1,823.68	4,051.07	3,552.32	3,433.11	119.21	29.798		
5,800.00	5,279.13	15,134.00	7,566.57	42.81	139.08	48.47	1,823.68	4,051.07	3,457.83	3,337.36	120.46	28.705		
5,900.00	5,365.40	15,134.00	7,566.57	43.81	139.08	48.47	1,823.68	4,051.07	3,363.65	3,241.88	121.77	27.622		
6,000.00	5,451.66	15,134.00	7,566.57	44.81	139.08	48.47	1,823.68	4,051.07	3,269.82	3,146.67	123.15	26.551		
6,100.00	5,537.92	15,134.00	7,566.57	45.81	139.08	48.47	1,823.68	4,051.07	3,176.36	3,051.76	124.60	25.492		
6,200.00	5,624.19	15,134.00	7,566.57	46.81	139.08	48.47	1,823.68	4,051.07	3,083.32	2,957.19	126.13	24.445		
6,300.00	5,710.45	15,134.00	7,566.57	47.81	139.08	48.47	1,823.68	4,051.07	2,990.73	2,862.98	127.75	23.412		
6,400.00	5,796.72	15,134.00	7,566.57	48.81	139.08	48.47	1,823.68	4,051.07	2,898.63	2,769.18	129.45	22.392		
6,500.00	5,882.98	15,134.00	7,566.57	49.81	139.08	48.47	1,823.68	4,051.07	2,807.06	2,675.82	131.24	21.388		
6,600.00	5,969.24	15,134.00	7,566.57	50.82	139.08	48.47	1,823.68	4,051.07	2,716.10	2,582.95	133.14	20.400		
6,700.00	6,055.51	15,134.00	7,566.57	51.82	139.08	48.47	1,823.68	4,051.07	2,625.79	2,490.63	135.15	19.428		
6,800.00	6,141.77	15,134.00	7,566.57	52.82	139.08	48.47	1,823.68	4,051.07	2,536.21	2,398.93	137.28	18.475		
6,900.00	6,228.03	15,134.00	7,566.57	53.83	139.08	48.47	1,823.68	4,051.07	2,447.43	2,307.90	139.53	17.541		
7,000.00	6,314.30	15,134.00	7,566.57	54.83	139.08	48.47	1,823.68	4,051.07	2,359.55	2,217.64	141.91	16.627		
7,100.00	6,400.56	15,134.00	7,566.57	55.83	139.08	48.47	1,823.68	4,051.07	2,272.68	2,128.24	144.44	15.735		
7,200.00	6,486.83	15,134.00	7,566.57	56.84	139.08	48.47	1,823.68	4,051.07	2,186.93	2,039.82	147.11	14.866		
7,300.00	6,573.09	15,134.00	7,566.57	57.84	139.08	48.47	1,823.68	4,051.07	2,102.43	1,952.50	149.93	14.023		
7,400.00	6,659.35	15,134.00	7,566.57	58.84	139.08	48.47	1,823.68	4,051.07	2,019.36	1,866.45	152.91	13.206		
7,500.00	6,745.62	15,134.00	7,566.57	59.85	139.08	48.47	1,823.68	4,051.07	1,937.88	1,781.83	156.05	12.418		
7,600.00	6,831.88	15,134.00	7,566.57	60.85	139.08	48.47	1,823.68	4,051.07	1,858.21	1,698.87	159.35	11.661		
7,700.00	6,918.14	15,134.00	7,566.57	61.86	139.08	48.47	1,823.68	4,051.07	1,780.60	1,617.80	162.80	10.938		
7,800.00	7,004.41	15,134.00	7,566.57	62.86	139.08	48.47	1,823.68	4,051.07	1,705.32	1,538.94	166.38	10.250		
7,900.00	7,090.67	15,117.14	7,566.20	63.87	138.79	47.69	1,840.54	4,050.81	1,632.61	1,463.25	169.35	9.640		
8,000.00	7,176.94	15,090.41	7,565.61	64.87	138.32	46.45	1,867.26	4,050.40	1,562.49	1,390.55	171.94	9.087		
8,027.52	7,200.68	15,083.05	7,565.44	65.15	138.19	46.10	1,874.61	4,050.29	1,543.69	1,371.03	172.65	8.941		
8,050.00	7,220.18	15,080.53	7,565.32	65.37	138.15	40.41	1,880.19	4,050.20	1,528.42	1,355.14	173.29	8.820		
8,100.00	7,264.25	15,069.55	7,565.15	65.85	137.96	26.98	1,888.11	4,050.08	1,494.62	1,320.00	174.62	8.559		
8,150.00	7,308.99	15,065.13	7,565.06	66.28	137.88	12.63	1,892.53	4,050.02	1,461.29	1,285.31	175.98	8.304		
8,200.00	7,354.07	15,064.48	7,565.04	66.67	137.87	-2.05	1,893.18	4,050.01	1,428.78	1,251.48	177.30	8.059		
8,250.00	7,399.14	15,067.65	7,565.11	67.02	137.92	-16.26	1,890.01	4,050.05	1,397.40	1,218.84	178.56	7.826		
8,300.00	7,443.85	15,074.69	7,565.26	67.32	138.05	-29.23	1,882.97	4,050.16	1,367.44	1,187.70	179.74	7.608		
8,350.00	7,487.88	15,086.49	7,565.52	67.56	138.25	-40.47	1,871.17	4,050.34	1,339.18	1,158.30	180.88	7.404		
8,400.00	7,530.87	15,102.97	7,565.89	67.75	138.54	-49.85	1,854.70	4,050.59	1,312.81	1,130.86	181.95	7.215		
8,450.00	7,572.51	15,123.49	7,566.34	67.90	138.90	-57.49	1,834.19	4,050.91	1,288.50	1,105.57	182.93	7.044		
8,500.00	7,612.48	15,134.00	7,566.57	68.00	139.08	-64.18	1,823.68	4,051.07	1,266.45	1,083.35	183.10	6.917		
8,550.00	7,650.47	15,134.00	7,566.57	68.05	139.08	-70.04	1,823.68	4,051.07	1,247.19	1,064.80	182.39	6.838		
8,600.00	7,686.20	15,134.00	7,566.57	68.06	139.08	-74.79	1,823.68	4,051.07	1,231.06	1,049.73	181.33	6.789		
8,650.00	7,719.39	15,134.00	7,566.57	68.03	139.08	-78.58	1,823.68	4,051.07	1,218.30	1,038.38	179.92	6.771 SF		
8,700.00	7,749.79	15,134.00	7,566.57	67.97	139.08	-81.52	1,823.68	4,051.07	1,209.12	1,030.91	178.21	6.785		
8,750.00	7,777.17	15,134.00	7,566.57	67.87	139.08	-83.71	1,823.68	4,051.07	1,203.67	1,027.44	176.22	6.830 ES		
8,796.14	7,799.58	15,134.00	7,566.57	67.75	139.08	-85.12	1,823.68	4,051.07	1,202.03	1,027.82	174.21	6.900 CC		
8,800.00	7,801.32	15,134.00	7,566.57	67.74	139.08	-85.22	1,823.68	4,051.07	1,202.04	1,028.00	174.03	6.907		
8,850.00	7,822.06	15,134.00	7,566.57	67.59	139.08	-86.09	1,823.68	4,051.07	1,204.26	1,032.56	171.70	7.014		
8,900.00	7,839.23	15,134.00	7,566.57	67.41	139.08	-86.38	1,823.68	4,051.07	1,210.30	1,041.00	169.29	7.149		
8,950.00	7,852.69	15,134.00	7,566.57	67.22	139.08	-86.08	1,823.68	4,051.07	1,220.04	1,053.16	166.88	7.311		
9,000.00	7,862.35	15,134.00	7,566.57	67.00	139.08	-85.24	1,823.68	4,051.07	1,233.34	1,068.81	164.52	7.496		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	15,134.00	7,566.57	66.78	139.08	-83.83	1,823.68	4,051.07	1,249.97	1,087.71	162.26	7.703		
9,098.65	7,870.00	15,134.00	7,566.57	66.55	139.08	-81.94	1,823.68	4,051.07	1,269.11	1,108.93	160.18	7.923		
9,100.00	7,870.00	15,134.00	7,566.57	66.55	139.08	-81.94	1,823.68	4,051.07	1,269.68	1,109.56	160.13	7.929		
9,200.00	7,870.00	15,134.00	7,566.57	66.09	139.08	-81.94	1,823.68	4,051.07	1,315.07	1,158.86	156.21	8.418		
9,300.00	7,870.00	15,134.00	7,566.57	65.65	139.08	-81.94	1,823.68	4,051.07	1,366.28	1,213.58	152.70	8.948		
9,400.00	7,870.00	15,134.00	7,566.57	65.24	139.08	-81.94	1,823.68	4,051.07	1,422.69	1,273.16	149.52	9.515		
9,500.00	7,870.00	15,134.00	7,566.57	64.85	139.08	-81.94	1,823.68	4,051.07	1,483.70	1,337.07	146.63	10.119		
9,600.00	7,870.00	15,134.00	7,566.57	64.48	139.08	-81.94	1,823.68	4,051.07	1,548.76	1,404.81	143.96	10.759		
9,700.00	7,870.00	15,134.00	7,566.57	64.13	139.08	-81.94	1,823.68	4,051.07	1,617.40	1,475.92	141.48	11.432		
9,800.00	7,870.00	15,134.00	7,566.57	63.80	139.08	-81.94	1,823.68	4,051.07	1,689.17	1,550.01	139.17	12.138		
9,900.00	7,870.00	15,134.00	7,566.57	63.50	139.08	-81.94	1,823.68	4,051.07	1,763.69	1,626.69	137.00	12.873		
10,000.00	7,870.00	15,134.00	7,566.57	63.22	139.08	-81.94	1,823.68	4,051.07	1,840.63	1,705.66	134.98	13.637		
10,100.00	7,870.00	15,134.00	7,566.57	62.96	139.08	-81.94	1,823.68	4,051.07	1,919.70	1,786.62	133.08	14.425		
10,200.00	7,870.00	15,134.00	7,566.57	62.72	139.08	-81.94	1,823.68	4,051.07	2,000.64	1,869.34	131.30	15.237		
10,300.00	7,870.00	15,134.00	7,566.57	62.50	139.08	-81.94	1,823.68	4,051.07	2,083.24	1,953.60	129.64	16.070		
10,400.00	7,870.00	15,134.00	7,566.57	62.31	139.08	-81.94	1,823.68	4,051.07	2,167.30	2,039.22	128.08	16.922		
10,500.00	7,870.00	15,134.00	7,566.57	62.15	139.08	-81.94	1,823.68	4,051.07	2,252.67	2,126.05	126.62	17.791		
10,600.00	7,870.00	15,134.00	7,566.57	62.01	139.08	-81.94	1,823.68	4,051.07	2,339.19	2,213.94	125.25	18.676		
10,700.00	7,870.00	15,134.00	7,566.57	61.90	139.08	-81.94	1,823.68	4,051.07	2,426.75	2,302.78	123.98	19.574		
10,800.00	7,870.00	15,134.00	7,566.57	61.82	139.08	-81.94	1,823.68	4,051.07	2,515.24	2,392.46	122.78	20.486		
10,900.00	7,870.00	15,134.00	7,566.57	61.78	139.08	-81.94	1,823.68	4,051.07	2,604.57	2,482.90	121.66	21.408		
11,000.00	7,870.00	15,134.00	7,566.57	61.77	139.08	-81.94	1,823.68	4,051.07	2,694.64	2,574.02	120.62	22.340		
11,100.00	7,870.00	15,134.00	7,566.57	61.81	139.08	-81.94	1,823.68	4,051.07	2,785.39	2,665.75	119.64	23.281		
11,200.00	7,870.00	15,134.00	7,566.57	61.90	139.08	-81.94	1,823.68	4,051.07	2,876.75	2,758.03	118.72	24.230		
11,300.00	7,870.00	15,134.00	7,566.57	62.03	139.08	-81.94	1,823.68	4,051.07	2,968.67	2,850.81	117.87	25.186		
11,400.00	7,870.00	15,134.00	7,566.57	62.23	139.08	-81.94	1,823.68	4,051.07	3,061.10	2,944.04	117.07	26.148		
11,500.00	7,870.00	15,134.00	7,566.57	62.50	139.08	-81.94	1,823.68	4,051.07	3,153.99	3,037.68	116.32	27.116		
11,600.00	7,870.00	15,134.00	7,566.57	62.84	139.08	-81.94	1,823.68	4,051.07	3,247.30	3,131.69	115.61	28.088		
11,700.00	7,870.00	15,134.00	7,566.57	63.25	139.08	-81.94	1,823.68	4,051.07	3,341.00	3,226.05	114.95	29.064		
11,800.00	7,870.00	15,134.00	7,566.57	63.76	139.08	-81.94	1,823.68	4,051.07	3,435.06	3,320.72	114.33	30.044		
11,900.00	7,870.00	15,134.00	7,566.57	64.34	139.08	-81.94	1,823.68	4,051.07	3,529.44	3,415.68	113.76	31.027		
12,000.00	7,870.00	15,134.00	7,566.57	65.01	139.08	-81.94	1,823.68	4,051.07	3,624.12	3,510.91	113.21	32.012		
12,100.00	7,870.00	15,134.00	7,566.57	65.77	139.08	-81.94	1,823.68	4,051.07	3,719.08	3,606.38	112.70	32.999		
12,200.00	7,870.00	15,134.00	7,566.57	66.61	139.08	-81.94	1,823.68	4,051.07	3,814.30	3,702.08	112.22	33.989		
12,300.00	7,870.00	15,134.00	7,566.57	67.51	139.08	-81.94	1,823.68	4,051.07	3,909.75	3,797.98	111.77	34.979		
12,400.00	7,870.00	15,134.00	7,566.57	68.49	139.08	-81.94	1,823.68	4,051.07	4,005.43	3,894.08	111.35	35.971		
12,500.00	7,870.00	15,134.00	7,566.57	69.52	139.08	-81.94	1,823.68	4,051.07	4,101.32	3,990.36	110.95	36.964		
12,600.00	7,870.00	15,134.00	7,566.57	70.61	139.08	-81.94	1,823.68	4,051.07	4,197.40	4,086.81	110.58	37.958		
12,700.00	7,870.00	15,134.00	7,566.57	71.75	139.08	-81.94	1,823.68	4,051.07	4,293.65	4,183.42	110.23	38.951		
12,800.00	7,870.00	15,134.00	7,566.57	72.93	139.08	-81.94	1,823.68	4,051.07	4,390.08	4,280.17	109.90	39.945		
12,900.00	7,870.00	15,134.00	7,566.57	74.14	139.08	-81.94	1,823.68	4,051.07	4,486.66	4,377.06	109.59	40.940		
13,000.00	7,870.00	15,134.00	7,566.57	75.39	139.08	-81.94	1,823.68	4,051.07	4,583.38	4,474.08	109.30	41.934		
13,100.00	7,870.00	15,134.00	7,566.57	76.67	139.08	-81.94	1,823.68	4,051.07	4,680.25	4,571.22	109.03	42.927		
13,200.00	7,870.00	15,134.00	7,566.57	77.98	139.08	-81.94	1,823.68	4,051.07	4,777.24	4,668.47	108.77	43.921		
13,300.00	7,870.00	15,134.00	7,566.57	79.31	139.08	-81.94	1,823.68	4,051.07	4,874.35	4,765.83	108.53	44.914		
13,400.00	7,870.00	15,134.00	7,566.57	80.67	139.08	-81.94	1,823.68	4,051.07	4,971.58	4,863.29	108.30	45.906		
13,500.00	7,870.00	15,134.00	7,566.57	82.04	139.08	-81.94	1,823.68	4,051.07	5,068.92	4,960.84	108.08	46.898		
13,600.00	7,870.00	15,134.00	7,566.57	83.43	139.08	-81.94	1,823.68	4,051.07	5,166.36	5,058.48	107.88	47.888		
13,700.00	7,870.00	15,134.00	7,566.57	84.84	139.08	-81.94	1,823.68	4,051.07	5,263.90	5,156.20	107.69	48.878		
13,800.00	7,870.00	15,134.00	7,566.57	86.27	139.08	-81.94	1,823.68	4,051.07	5,361.52	5,254.01	107.52	49.868		
13,900.00	7,870.00	15,134.00	7,566.57	87.71	139.08	-81.94	1,823.68	4,051.07	5,459.23	5,351.89	107.35	50.856		
14,000.00	7,870.00	15,134.00	7,566.57	89.16	139.08	-81.94	1,823.68	4,051.07	5,557.03	5,449.84	107.19	51.843		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,870.00	15,134.00	7,566.57	90.63	139.08	-81.94	1,823.68	4,051.07	5,654.90	5,547.86	107.04	52.829		
14,200.00	7,870.00	15,134.00	7,566.57	92.10	139.08	-81.94	1,823.68	4,051.07	5,752.84	5,645.94	106.90	53.814		
14,300.00	7,870.00	15,134.00	7,566.57	93.59	139.08	-81.94	1,823.68	4,051.07	5,850.85	5,744.08	106.77	54.798		
14,400.00	7,870.00	15,134.00	7,566.57	95.09	139.08	-81.94	1,823.68	4,051.07	5,948.93	5,842.28	106.65	55.781		
14,500.00	7,870.00	15,134.00	7,566.57	96.60	139.08	-81.94	1,823.68	4,051.07	6,047.08	5,940.54	106.53	56.762		
14,600.00	7,870.00	15,134.00	7,566.57	98.11	139.08	-81.94	1,823.68	4,051.07	6,145.28	6,038.85	106.43	57.743		
14,700.00	7,870.00	15,134.00	7,566.57	99.64	139.08	-81.94	1,823.68	4,051.07	6,243.54	6,137.21	106.32	58.722		
14,800.00	7,870.00	15,134.00	7,566.57	101.17	139.08	-81.94	1,823.68	4,051.07	6,341.85	6,235.62	106.23	59.700		
14,900.00	7,870.00	15,134.00	7,566.57	102.71	139.08	-81.94	1,823.68	4,051.07	6,440.22	6,334.08	106.14	60.676		
15,000.00	7,870.00	15,134.00	7,566.57	104.26	139.08	-81.94	1,823.68	4,051.07	6,538.63	6,432.57	106.06	61.652		
15,100.00	7,870.00	15,134.00	7,566.57	105.82	139.08	-81.94	1,823.68	4,051.07	6,637.09	6,531.11	105.98	62.626		
15,200.00	7,870.00	15,134.00	7,566.57	107.38	139.08	-81.94	1,823.68	4,051.07	6,735.60	6,629.69	105.91	63.599		
15,300.00	7,870.00	15,134.00	7,566.57	108.95	139.08	-81.94	1,823.68	4,051.07	6,834.15	6,728.31	105.84	64.570		
15,400.00	7,870.00	15,134.00	7,566.57	110.52	139.08	-81.94	1,823.68	4,051.07	6,932.75	6,826.97	105.78	65.541		
15,500.00	7,870.00	15,134.00	7,566.57	112.10	139.08	-81.94	1,823.68	4,051.07	7,031.38	6,925.66	105.72	66.510		
15,600.00	7,870.00	15,134.00	7,566.57	113.69	139.08	-81.94	1,823.68	4,051.07	7,130.05	7,024.38	105.67	67.477		
15,700.00	7,870.00	15,134.00	7,566.57	115.28	139.08	-81.94	1,823.68	4,051.07	7,228.76	7,123.14	105.62	68.444		
15,800.00	7,870.00	15,134.00	7,566.57	116.87	139.08	-81.94	1,823.68	4,051.07	7,327.50	7,221.93	105.57	69.409		
15,900.00	7,870.00	15,134.00	7,566.57	118.47	139.08	-81.94	1,823.68	4,051.07	7,426.27	7,320.75	105.53	70.373		
16,000.00	7,870.00	15,134.00	7,566.57	120.07	139.08	-81.94	1,823.68	4,051.07	7,525.08	7,419.59	105.49	71.335		
16,100.00	7,870.00	15,134.00	7,566.57	121.68	139.08	-81.94	1,823.68	4,051.07	7,623.92	7,518.47	105.45	72.296		
16,200.00	7,870.00	15,134.00	7,566.57	123.30	139.08	-81.94	1,823.68	4,051.07	7,722.79	7,617.37	105.42	73.256		
16,300.00	7,870.00	15,134.00	7,566.57	124.91	139.08	-81.94	1,823.68	4,051.07	7,821.69	7,716.29	105.39	74.215		
16,400.00	7,870.00	15,134.00	7,566.57	126.53	139.08	-81.94	1,823.68	4,051.07	7,920.61	7,815.25	105.37	75.172		
16,500.00	7,870.00	15,134.00	7,566.57	128.16	139.08	-81.94	1,823.68	4,051.07	8,019.57	7,914.22	105.34	76.128		
16,600.00	7,870.00	15,134.00	7,566.57	129.79	139.08	-81.94	1,823.68	4,051.07	8,118.54	8,013.22	105.32	77.083		
16,700.00	7,870.00	15,134.00	7,566.57	131.42	139.08	-81.94	1,823.68	4,051.07	8,217.55	8,112.24	105.30	78.036		
16,800.00	7,870.00	15,134.00	7,566.57	133.05	139.08	-81.94	1,823.68	4,051.07	8,316.57	8,211.28	105.29	78.989		
16,900.00	7,870.00	15,134.00	7,566.57	134.69	139.08	-81.94	1,823.68	4,051.07	8,415.62	8,310.35	105.27	79.939		
17,000.00	7,870.00	15,134.00	7,566.57	136.33	139.08	-81.94	1,823.68	4,051.07	8,514.69	8,409.43	105.26	80.889		
17,100.00	7,870.00	15,134.00	7,566.57	137.97	139.08	-81.94	1,823.68	4,051.07	8,613.79	8,508.53	105.25	81.837		
17,200.00	7,870.00	15,134.00	7,566.57	139.62	139.08	-81.94	1,823.68	4,051.07	8,712.90	8,607.65	105.25	82.784		
17,300.00	7,870.00	15,134.00	7,566.57	141.27	139.08	-81.94	1,823.68	4,051.07	8,812.03	8,706.79	105.24	83.730		
17,400.00	7,870.00	15,134.00	7,566.57	142.92	139.08	-81.94	1,823.68	4,051.07	8,911.19	8,805.95	105.24	84.675		
17,500.00	7,870.00	15,134.00	7,566.57	144.58	139.08	-81.94	1,823.68	4,051.07	9,010.36	8,905.12	105.24	85.618		
17,600.00	7,870.00	15,134.00	7,566.57	146.23	139.08	-81.94	1,823.68	4,051.07	9,109.55	9,004.31	105.24	86.560		
17,700.00	7,870.00	15,134.00	7,566.57	147.89	139.08	-81.94	1,823.68	4,051.07	9,208.76	9,103.52	105.24	87.501		
17,800.00	7,870.00	15,134.00	7,566.57	149.56	139.08	-81.94	1,823.68	4,051.07	9,307.98	9,202.74	105.25	88.440		
17,900.00	7,870.00	15,134.00	7,566.57	151.22	139.08	-81.94	1,823.68	4,051.07	9,407.22	9,301.97	105.25	89.379		
18,000.00	7,870.00	15,134.00	7,566.57	152.89	139.08	-81.94	1,823.68	4,051.07	9,506.48	9,401.22	105.26	90.316		
18,100.00	7,870.00	15,134.00	7,566.57	154.55	139.08	-81.94	1,823.68	4,051.07	9,605.75	9,500.49	105.27	91.251		
18,200.00	7,870.00	15,134.00	7,566.57	156.22	139.08	-81.94	1,823.68	4,051.07	9,705.04	9,599.76	105.28	92.186		
18,300.00	7,870.00	15,134.00	7,566.57	157.90	139.08	-81.94	1,823.68	4,051.07	9,804.34	9,699.05	105.29	93.119		
18,400.00	7,870.00	15,134.00	7,566.57	159.57	139.08	-81.94	1,823.68	4,051.07	9,903.66	9,798.36	105.30	94.051		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	71.45	1,855.54	5,529.89	9,863.74					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.45	1,855.54	5,529.89	9,783.28	9,688.87	94.41	103.621		
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.45	1,855.54	5,529.89	9,703.18	9,608.32	94.86	102.292		
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.45	1,855.54	5,529.89	9,623.45	9,528.12	95.34	100.942		
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.45	1,855.54	5,529.89	9,544.11	9,448.26	95.85	99.572		
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.45	1,855.54	5,529.89	9,465.15	9,368.76	96.40	98.189		
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.45	1,855.54	5,529.89	9,386.60	9,289.63	96.97	96.794		
700.00	700.00	15,352.00	7,829.29	2.29	138.31	71.45	1,855.54	5,529.89	9,308.46	9,210.88	97.58	95.394		
800.00	800.00	15,352.00	7,829.29	2.64	138.31	71.45	1,855.54	5,529.89	9,230.74	9,132.53	98.21	93.991		
900.00	900.00	15,352.00	7,829.29	3.00	138.31	71.45	1,855.54	5,529.89	9,153.45	9,054.59	98.86	92.589		
1,000.00	1,000.00	15,352.00	7,829.29	3.36	138.31	71.45	1,855.54	5,529.89	9,076.61	8,977.07	99.53	91.190		
1,100.00	1,099.98	15,352.00	7,829.29	3.72	138.31	17.55	1,855.54	5,529.89	8,999.15	8,898.93	100.23	89.787		
1,200.00	1,199.84	15,352.00	7,829.29	4.07	138.31	18.35	1,855.54	5,529.89	8,920.06	8,819.13	100.93	88.382		
1,300.00	1,299.45	15,352.00	7,829.29	4.43	138.31	19.23	1,855.54	5,529.89	8,839.38	8,737.76	101.61	86.989		
1,400.00	1,398.70	15,352.00	7,829.29	4.80	138.31	20.20	1,855.54	5,529.89	8,757.16	8,654.87	102.29	85.610		
1,500.00	1,497.47	15,352.00	7,829.29	5.18	138.31	21.29	1,855.54	5,529.89	8,673.48	8,570.52	102.96	84.244		
1,600.00	1,595.62	15,352.00	7,829.29	5.57	138.31	22.50	1,855.54	5,529.89	8,588.38	8,484.77	103.61	82.893		
1,700.00	1,693.06	15,352.00	7,829.29	6.00	138.31	23.85	1,855.54	5,529.89	8,501.93	8,397.68	104.25	81.555		
1,800.00	1,789.64	15,352.00	7,829.29	6.45	138.31	25.37	1,855.54	5,529.89	8,414.20	8,309.32	104.87	80.232		
1,900.00	1,885.27	15,352.00	7,829.29	6.94	138.31	27.09	1,855.54	5,529.89	8,325.25	8,219.76	105.48	78.924		
2,000.00	1,979.82	15,352.00	7,829.29	7.47	138.31	29.05	1,855.54	5,529.89	8,235.15	8,129.07	106.08	77.630		
2,100.00	2,073.17	15,352.00	7,829.29	8.05	138.31	31.28	1,855.54	5,529.89	8,143.99	8,037.32	106.66	76.351		
2,200.00	2,165.21	15,352.00	7,829.29	8.67	138.31	33.83	1,855.54	5,529.89	8,051.82	7,944.59	107.23	75.087		
2,300.00	2,255.84	15,352.00	7,829.29	9.35	138.31	36.78	1,855.54	5,529.89	7,958.75	7,850.96	107.79	73.838		
2,400.00	2,344.94	15,352.00	7,829.29	10.09	138.31	40.18	1,855.54	5,529.89	7,864.83	7,756.51	108.32	72.605		
2,500.00	2,432.39	15,352.00	7,829.29	10.89	138.31	44.12	1,855.54	5,529.89	7,770.18	7,661.33	108.85	71.386		
2,519.29	2,449.07	15,352.00	7,829.29	11.05	138.31	44.94	1,855.54	5,529.89	7,751.84	7,642.89	108.95	71.151		
2,600.00	2,518.69	15,352.00	7,829.29	11.74	138.31	44.94	1,855.54	5,529.89	7,675.10	7,565.74	109.36	70.179		
2,700.00	2,604.95	15,352.00	7,829.29	12.62	138.31	44.94	1,855.54	5,529.89	7,580.14	7,470.25	109.89	68.976		
2,800.00	2,691.22	15,352.00	7,829.29	13.52	138.31	44.94	1,855.54	5,529.89	7,485.31	7,374.87	110.44	67.775		
2,900.00	2,777.48	15,352.00	7,829.29	14.43	138.31	44.94	1,855.54	5,529.89	7,390.62	7,279.61	111.01	66.575		
3,000.00	2,863.75	15,352.00	7,829.29	15.35	138.31	44.94	1,855.54	5,529.89	7,296.07	7,184.47	111.60	65.378		
3,100.00	2,950.01	15,352.00	7,829.29	16.28	138.31	44.94	1,855.54	5,529.89	7,201.66	7,089.46	112.20	64.183		
3,200.00	3,036.27	15,352.00	7,829.29	17.22	138.31	44.94	1,855.54	5,529.89	7,107.41	6,994.58	112.83	62.992		
3,300.00	3,122.54	15,352.00	7,829.29	18.17	138.31	44.94	1,855.54	5,529.89	7,013.32	6,899.84	113.48	61.805		
3,400.00	3,208.80	15,352.00	7,829.29	19.13	138.31	44.94	1,855.54	5,529.89	6,919.39	6,805.25	114.14	60.622		
3,500.00	3,295.07	15,352.00	7,829.29	20.09	138.31	44.94	1,855.54	5,529.89	6,825.63	6,710.81	114.83	59.443		
3,600.00	3,381.33	15,352.00	7,829.29	21.05	138.31	44.94	1,855.54	5,529.89	6,732.06	6,616.53	115.53	58.269		
3,700.00	3,467.59	15,352.00	7,829.29	22.02	138.31	44.94	1,855.54	5,529.89	6,638.67	6,522.41	116.26	57.101		
3,800.00	3,553.86	15,352.00	7,829.29	22.99	138.31	44.94	1,855.54	5,529.89	6,545.48	6,428.47	117.01	55.939		
3,900.00	3,640.12	15,352.00	7,829.29	23.97	138.31	44.94	1,855.54	5,529.89	6,452.49	6,334.71	117.78	54.783		
4,000.00	3,726.38	15,352.00	7,829.29	24.95	138.31	44.94	1,855.54	5,529.89	6,359.72	6,241.14	118.58	53.633		
4,100.00	3,812.65	15,352.00	7,829.29	25.93	138.31	44.94	1,855.54	5,529.89	6,267.16	6,147.77	119.40	52.491		
4,200.00	3,898.91	15,352.00	7,829.29	26.91	138.31	44.94	1,855.54	5,529.89	6,174.84	6,054.60	120.24	51.355		
4,300.00	3,985.18	15,352.00	7,829.29	27.90	138.31	44.94	1,855.54	5,529.89	6,082.76	5,961.66	121.10	50.228		
4,400.00	4,071.44	15,352.00	7,829.29	28.88	138.31	44.94	1,855.54	5,529.89	5,990.94	5,868.94	122.00	49.108		
4,500.00	4,157.70	15,352.00	7,829.29	29.87	138.31	44.94	1,855.54	5,529.89	5,899.38	5,776.47	122.91	47.996		
4,600.00	4,243.97	15,352.00	7,829.29	30.86	138.31	44.94	1,855.54	5,529.89	5,808.10	5,684.24	123.86	46.893		
4,700.00	4,330.23	15,352.00	7,829.29	31.85	138.31	44.94	1,855.54	5,529.89	5,717.11	5,592.28	124.83	45.799		
4,800.00	4,416.49	15,352.00	7,829.29	32.84	138.31	44.94	1,855.54	5,529.89	5,626.43	5,500.60	125.83	44.714		
4,900.00	4,502.76	15,352.00	7,829.29	33.84	138.31	44.94	1,855.54	5,529.89	5,536.07	5,409.21	126.86	43.639		
5,000.00	4,589.02	15,352.00	7,829.29	34.83	138.31	44.94	1,855.54	5,529.89	5,446.04	5,318.12	127.92	42.574		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	15,352.00	7,829.29	35.82	138.31	44.94	1,855.54	5,529.89	5,356.37	5,227.36	129.01	41.519		
5,200.00	4,761.55	15,352.00	7,829.29	36.82	138.31	44.94	1,855.54	5,529.89	5,267.07	5,136.94	130.13	40.475		
5,300.00	4,847.81	15,352.00	7,829.29	37.82	138.31	44.94	1,855.54	5,529.89	5,178.17	5,046.88	131.29	39.441		
5,400.00	4,934.08	15,352.00	7,829.29	38.81	138.31	44.94	1,855.54	5,529.89	5,089.67	4,957.19	132.48	38.419		
5,500.00	5,020.34	15,352.00	7,829.29	39.81	138.31	44.94	1,855.54	5,529.89	5,001.61	4,867.91	133.70	37.409		
5,600.00	5,106.60	15,352.00	7,829.29	40.81	138.31	44.94	1,855.54	5,529.89	4,914.00	4,779.05	134.96	36.411		
5,700.00	5,192.87	15,352.00	7,829.29	41.81	138.31	44.94	1,855.54	5,529.89	4,826.88	4,690.63	136.25	35.426		
5,800.00	5,279.13	15,352.00	7,829.29	42.81	138.31	44.94	1,855.54	5,529.89	4,740.27	4,602.68	137.59	34.453		
5,900.00	5,365.40	15,352.00	7,829.29	43.81	138.31	44.94	1,855.54	5,529.89	4,654.19	4,515.23	138.96	33.493		
6,000.00	5,451.66	15,352.00	7,829.29	44.81	138.31	44.94	1,855.54	5,529.89	4,568.68	4,428.31	140.37	32.548		
6,100.00	5,537.92	15,352.00	7,829.29	45.81	138.31	44.94	1,855.54	5,529.89	4,483.76	4,341.94	141.82	31.616		
6,200.00	5,624.19	15,352.00	7,829.29	46.81	138.31	44.94	1,855.54	5,529.89	4,399.49	4,256.17	143.31	30.699		
6,300.00	5,710.45	15,352.00	7,829.29	47.81	138.31	44.94	1,855.54	5,529.89	4,315.88	4,171.03	144.85	29.796		
6,400.00	5,796.72	15,352.00	7,829.29	48.81	138.31	44.94	1,855.54	5,529.89	4,232.98	4,086.56	146.42	28.910		
6,500.00	5,882.98	15,352.00	7,829.29	49.81	138.31	44.94	1,855.54	5,529.89	4,150.84	4,002.80	148.04	28.039		
6,600.00	5,969.24	15,352.00	7,829.29	50.82	138.31	44.94	1,855.54	5,529.89	4,069.50	3,919.80	149.70	27.184		
6,700.00	6,055.51	15,352.00	7,829.29	51.82	138.31	44.94	1,855.54	5,529.89	3,989.01	3,837.60	151.40	26.347		
6,800.00	6,141.77	15,352.00	7,829.29	52.82	138.31	44.94	1,855.54	5,529.89	3,909.41	3,756.26	153.15	25.526		
6,900.00	6,228.03	15,352.00	7,829.29	53.83	138.31	44.94	1,855.54	5,529.89	3,830.78	3,675.84	154.94	24.724		
7,000.00	6,314.30	15,352.00	7,829.29	54.83	138.31	44.94	1,855.54	5,529.89	3,753.16	3,596.39	156.77	23.940		
7,100.00	6,400.56	15,352.00	7,829.29	55.83	138.31	44.94	1,855.54	5,529.89	3,676.62	3,517.98	158.64	23.176		
7,200.00	6,486.83	15,352.00	7,829.29	56.84	138.31	44.94	1,855.54	5,529.89	3,601.23	3,440.68	160.55	22.430		
7,300.00	6,573.09	15,352.00	7,829.29	57.84	138.31	44.94	1,855.54	5,529.89	3,527.07	3,364.57	162.50	21.705		
7,400.00	6,659.35	15,352.00	7,829.29	58.84	138.31	44.94	1,855.54	5,529.89	3,454.21	3,289.73	164.48	21.001		
7,500.00	6,745.62	15,352.00	7,829.29	59.85	138.31	44.94	1,855.54	5,529.89	3,382.74	3,216.25	166.49	20.319		
7,600.00	6,831.88	15,352.00	7,829.29	60.85	138.31	44.94	1,855.54	5,529.89	3,312.74	3,144.22	168.52	19.658		
7,700.00	6,918.14	15,352.00	7,829.29	61.86	138.31	44.94	1,855.54	5,529.89	3,244.32	3,073.74	170.57	19.020		
7,800.00	7,004.41	15,352.00	7,829.29	62.86	138.31	44.94	1,855.54	5,529.89	3,177.57	3,004.93	172.64	18.406		
7,900.00	7,090.67	15,352.00	7,829.29	63.87	138.31	44.94	1,855.54	5,529.89	3,112.60	2,937.89	174.71	17.816		
8,000.00	7,176.94	15,352.00	7,829.29	64.87	138.31	44.94	1,855.54	5,529.89	3,049.53	2,872.75	176.78	17.251		
8,027.52	7,200.68	15,351.74	7,829.29	65.15	138.30	44.94	1,855.80	5,529.89	3,032.51	2,855.18	177.34	17.100		
8,050.00	7,220.18	15,346.01	7,829.16	65.37	138.20	39.69	1,861.53	5,529.89	3,018.65	2,841.03	177.62	16.995		
8,100.00	7,264.25	15,336.35	7,828.94	65.85	138.04	27.06	1,871.19	5,529.90	2,987.71	2,809.44	178.27	16.760		
8,150.00	7,308.99	15,330.99	7,828.83	66.28	137.94	13.34	1,876.55	5,529.90	2,956.82	2,777.90	178.92	16.526		
8,200.00	7,354.07	15,329.99	7,828.80	66.67	137.92	-0.91	1,877.55	5,529.90	2,926.26	2,746.67	179.58	16.295		
8,250.00	7,399.14	15,333.34	7,828.88	67.02	137.98	-14.91	1,874.20	5,529.90	2,896.27	2,716.03	180.24	16.069		
8,300.00	7,443.85	15,341.03	7,829.05	67.32	138.12	-27.92	1,866.51	5,529.89	2,867.09	2,686.21	180.89	15.850		
8,350.00	7,487.88	15,352.99	7,829.31	67.56	138.32	-39.46	1,854.55	5,529.89	2,838.94	2,657.42	181.53	15.639		
8,400.00	7,530.87	15,352.00	7,829.29	67.75	138.31	-49.71	1,855.54	5,529.89	2,812.07	2,630.44	181.63	15.483		
8,450.00	7,572.51	15,352.00	7,829.29	67.90	138.31	-58.42	1,855.54	5,529.89	2,786.73	2,605.12	181.61	15.344		
8,500.00	7,612.48	15,352.00	7,829.29	68.00	138.31	-65.74	1,855.54	5,529.89	2,763.17	2,581.71	181.45	15.228		
8,550.00	7,650.47	15,352.00	7,829.29	68.05	138.31	-71.86	1,855.54	5,529.89	2,741.61	2,560.45	181.16	15.134		
8,600.00	7,686.20	15,352.00	7,829.29	68.06	138.31	-76.95	1,855.54	5,529.89	2,722.27	2,541.54	180.72	15.063		
8,650.00	7,719.39	15,352.00	7,829.29	68.03	138.31	-81.15	1,855.54	5,529.89	2,705.34	2,525.17	180.16	15.016		
8,700.00	7,749.79	15,352.00	7,829.29	67.97	138.31	-84.58	1,855.54	5,529.89	2,691.00	2,511.51	179.48	14.993 SF		
8,750.00	7,777.17	15,352.00	7,829.29	67.87	138.31	-87.33	1,855.54	5,529.89	2,679.39	2,500.69	178.70	14.994		
8,800.00	7,801.32	15,352.00	7,829.29	67.74	138.31	-89.48	1,855.54	5,529.89	2,670.66	2,492.82	177.83	15.018		
8,850.00	7,822.06	15,352.00	7,829.29	67.59	138.31	-91.07	1,855.54	5,529.89	2,664.88	2,487.99	176.89	15.065		
8,900.00	7,839.23	15,352.00	7,829.29	67.41	138.31	-92.15	1,855.54	5,529.89	2,662.13	2,486.23	175.90	15.135 ES		
8,920.11	7,845.10	15,352.00	7,829.29	67.33	138.31	-92.45	1,855.54	5,529.89	2,661.88	2,486.39	175.49	15.169 CC		
8,950.00	7,852.69	15,352.00	7,829.29	67.22	138.31	-92.75	1,855.54	5,529.89	2,662.43	2,487.56	174.86	15.226		
9,000.00	7,862.35	15,352.00	7,829.29	67.00	138.31	-92.89	1,855.54	5,529.89	2,665.78	2,491.97	173.81	15.337		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	15,352.00	7,829.29	66.78	138.31	-92.58	1,855.54	5,529.89	2,672.14	2,499.39	172.75	15.468		
9,098.65	7,870.00	15,352.00	7,829.29	66.55	138.31	-91.84	1,855.54	5,529.89	2,681.15	2,509.42	171.73	15.613		
9,100.00	7,870.00	15,352.00	7,829.29	66.55	138.31	-91.84	1,855.54	5,529.89	2,681.44	2,509.74	171.70	15.617		
9,200.00	7,870.00	15,352.00	7,829.29	66.09	138.31	-91.84	1,855.54	5,529.89	2,704.59	2,534.88	169.71	15.937		
9,300.00	7,870.00	15,352.00	7,829.29	65.65	138.31	-91.84	1,855.54	5,529.89	2,731.21	2,563.31	167.89	16.267		
9,400.00	7,870.00	15,352.00	7,829.29	65.24	138.31	-91.84	1,855.54	5,529.89	2,761.19	2,594.92	166.27	16.606		
9,500.00	7,870.00	15,352.00	7,829.29	64.85	138.31	-91.84	1,855.54	5,529.89	2,794.44	2,629.59	164.85	16.952		
9,600.00	7,870.00	15,352.00	7,829.29	64.48	138.31	-91.84	1,855.54	5,529.89	2,830.82	2,667.22	163.61	17.303		
9,700.00	7,870.00	15,352.00	7,829.29	64.13	138.31	-91.84	1,855.54	5,529.89	2,870.23	2,707.71	162.53	17.660		
9,800.00	7,870.00	15,352.00	7,829.29	63.80	138.31	-91.84	1,855.54	5,529.89	2,912.55	2,750.95	161.59	18.024		
9,900.00	7,870.00	15,352.00	7,829.29	63.50	138.31	-91.84	1,855.54	5,529.89	2,957.64	2,796.86	160.78	18.396		
10,000.00	7,870.00	15,352.00	7,829.29	63.22	138.31	-91.84	1,855.54	5,529.89	3,005.38	2,845.32	160.05	18.777		
10,100.00	7,870.00	15,352.00	7,829.29	62.96	138.31	-91.84	1,855.54	5,529.89	3,055.65	2,896.24	159.40	19.169		
10,200.00	7,870.00	15,352.00	7,829.29	62.72	138.31	-91.84	1,855.54	5,529.89	3,108.32	2,949.52	158.81	19.573		
10,300.00	7,870.00	15,352.00	7,829.29	62.50	138.31	-91.84	1,855.54	5,529.89	3,163.28	3,005.03	158.25	19.989		
10,400.00	7,870.00	15,352.00	7,829.29	62.31	138.31	-91.84	1,855.54	5,529.89	3,220.41	3,062.69	157.72	20.419		
10,500.00	7,870.00	15,352.00	7,829.29	62.15	138.31	-91.84	1,855.54	5,529.89	3,279.59	3,122.39	157.21	20.862		
10,600.00	7,870.00	15,352.00	7,829.29	62.01	138.31	-91.84	1,855.54	5,529.89	3,340.72	3,184.02	156.70	21.319		
10,700.00	7,870.00	15,352.00	7,829.29	61.90	138.31	-91.84	1,855.54	5,529.89	3,403.69	3,247.48	156.21	21.790		
10,800.00	7,870.00	15,352.00	7,829.29	61.82	138.31	-91.84	1,855.54	5,529.89	3,468.40	3,312.69	155.71	22.275		
10,900.00	7,870.00	15,352.00	7,829.29	61.78	138.31	-91.84	1,855.54	5,529.89	3,534.75	3,379.54	155.21	22.773		
11,000.00	7,870.00	15,352.00	7,829.29	61.77	138.31	-91.84	1,855.54	5,529.89	3,602.66	3,447.94	154.72	23.285		
11,100.00	7,870.00	15,352.00	7,829.29	61.81	138.31	-91.84	1,855.54	5,529.89	3,672.03	3,517.82	154.22	23.811		
11,200.00	7,870.00	15,352.00	7,829.29	61.90	138.31	-91.84	1,855.54	5,529.89	3,742.80	3,589.08	153.72	24.349		
11,300.00	7,870.00	15,352.00	7,829.29	62.03	138.31	-91.84	1,855.54	5,529.89	3,814.87	3,661.65	153.21	24.899		
11,400.00	7,870.00	15,352.00	7,829.29	62.23	138.31	-91.84	1,855.54	5,529.89	3,888.17	3,735.46	152.71	25.461		
11,500.00	7,870.00	15,352.00	7,829.29	62.50	138.31	-91.84	1,855.54	5,529.89	3,962.65	3,810.44	152.20	26.035		
11,600.00	7,870.00	15,352.00	7,829.29	62.84	138.31	-91.84	1,855.54	5,529.89	4,038.22	3,886.53	151.70	26.620		
11,700.00	7,870.00	15,352.00	7,829.29	63.25	138.31	-91.84	1,855.54	5,529.89	4,114.84	3,963.65	151.20	27.215		
11,800.00	7,870.00	15,352.00	7,829.29	63.76	138.31	-91.84	1,855.54	5,529.89	4,192.45	4,041.75	150.70	27.821		
11,900.00	7,870.00	15,352.00	7,829.29	64.34	138.31	-91.84	1,855.54	5,529.89	4,270.99	4,120.79	150.20	28.436		
12,000.00	7,870.00	15,352.00	7,829.29	65.01	138.31	-91.84	1,855.54	5,529.89	4,350.40	4,200.70	149.70	29.060		
12,100.00	7,870.00	15,352.00	7,829.29	65.77	138.31	-91.84	1,855.54	5,529.89	4,430.65	4,281.44	149.21	29.693		
12,200.00	7,870.00	15,352.00	7,829.29	66.61	138.31	-91.84	1,855.54	5,529.89	4,511.69	4,362.96	148.73	30.335		
12,300.00	7,870.00	15,352.00	7,829.29	67.51	138.31	-91.84	1,855.54	5,529.89	4,593.48	4,445.23	148.25	30.985		
12,400.00	7,870.00	15,352.00	7,829.29	68.49	138.31	-91.84	1,855.54	5,529.89	4,675.98	4,528.20	147.78	31.642		
12,500.00	7,870.00	15,352.00	7,829.29	69.52	138.31	-91.84	1,855.54	5,529.89	4,759.14	4,611.83	147.31	32.306		
12,600.00	7,870.00	15,352.00	7,829.29	70.61	138.31	-91.84	1,855.54	5,529.89	4,842.94	4,696.09	146.85	32.978		
12,700.00	7,870.00	15,352.00	7,829.29	71.75	138.31	-91.84	1,855.54	5,529.89	4,927.35	4,780.95	146.40	33.656		
12,800.00	7,870.00	15,352.00	7,829.29	72.93	138.31	-91.84	1,855.54	5,529.89	5,012.33	4,866.37	145.96	34.341		
12,900.00	7,870.00	15,352.00	7,829.29	74.14	138.31	-91.84	1,855.54	5,529.89	5,097.86	4,952.34	145.52	35.031		
13,000.00	7,870.00	15,352.00	7,829.29	75.39	138.31	-91.84	1,855.54	5,529.89	5,183.90	5,038.81	145.10	35.727		
13,100.00	7,870.00	15,352.00	7,829.29	76.67	138.31	-91.84	1,855.54	5,529.89	5,270.44	5,125.76	144.68	36.429		
13,200.00	7,870.00	15,352.00	7,829.29	77.98	138.31	-91.84	1,855.54	5,529.89	5,357.45	5,213.18	144.27	37.135		
13,300.00	7,870.00	15,352.00	7,829.29	79.31	138.31	-91.84	1,855.54	5,529.89	5,444.90	5,301.03	143.87	37.847		
13,400.00	7,870.00	15,352.00	7,829.29	80.67	138.31	-91.84	1,855.54	5,529.89	5,532.77	5,389.30	143.47	38.563		
13,500.00	7,870.00	15,352.00	7,829.29	82.04	138.31	-91.84	1,855.54	5,529.89	5,621.06	5,477.97	143.09	39.283		
13,600.00	7,870.00	15,352.00	7,829.29	83.43	138.31	-91.84	1,855.54	5,529.89	5,709.73	5,567.01	142.71	40.008		
13,700.00	7,870.00	15,352.00	7,829.29	84.84	138.31	-91.84	1,855.54	5,529.89	5,798.76	5,656.42	142.35	40.737		
13,800.00	7,870.00	15,352.00	7,829.29	86.27	138.31	-91.84	1,855.54	5,529.89	5,888.15	5,746.16	141.99	41.469		
13,900.00	7,870.00	15,352.00	7,829.29	87.71	138.31	-91.84	1,855.54	5,529.89	5,977.88	5,836.24	141.64	42.205		
14,000.00	7,870.00	15,352.00	7,829.29	89.16	138.31	-91.84	1,855.54	5,529.89	6,067.92	5,926.63	141.30	42.945		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	15,352.00	7,829.29	90.63	138.31	-91.84	1,855.54	5,529.89	6,158.28	6,017.32	140.96	43.687		
14,200.00	7,870.00	15,352.00	7,829.29	92.10	138.31	-91.84	1,855.54	5,529.89	6,248.93	6,108.29	140.64	44.433		
14,300.00	7,870.00	15,352.00	7,829.29	93.59	138.31	-91.84	1,855.54	5,529.89	6,339.86	6,199.54	140.32	45.182		
14,400.00	7,870.00	15,352.00	7,829.29	95.09	138.31	-91.84	1,855.54	5,529.89	6,431.05	6,291.04	140.01	45.933		
14,500.00	7,870.00	15,352.00	7,829.29	96.60	138.31	-91.84	1,855.54	5,529.89	6,522.51	6,382.80	139.71	46.687		
14,600.00	7,870.00	15,352.00	7,829.29	98.11	138.31	-91.84	1,855.54	5,529.89	6,614.21	6,474.80	139.41	47.443		
14,700.00	7,870.00	15,352.00	7,829.29	99.64	138.31	-91.84	1,855.54	5,529.89	6,706.15	6,567.03	139.13	48.202		
14,800.00	7,870.00	15,352.00	7,829.29	101.17	138.31	-91.84	1,855.54	5,529.89	6,798.32	6,659.47	138.85	48.962		
14,900.00	7,870.00	15,352.00	7,829.29	102.71	138.31	-91.84	1,855.54	5,529.89	6,890.71	6,752.13	138.58	49.725		
15,000.00	7,870.00	15,352.00	7,829.29	104.26	138.31	-91.84	1,855.54	5,529.89	6,983.31	6,844.99	138.31	50.490		
15,100.00	7,870.00	15,352.00	7,829.29	105.82	138.31	-91.84	1,855.54	5,529.89	7,076.10	6,938.05	138.05	51.256		
15,200.00	7,870.00	15,352.00	7,829.29	107.38	138.31	-91.84	1,855.54	5,529.89	7,169.10	7,031.29	137.80	52.024		
15,300.00	7,870.00	15,352.00	7,829.29	108.95	138.31	-91.84	1,855.54	5,529.89	7,262.27	7,124.72	137.56	52.794		
15,400.00	7,870.00	15,352.00	7,829.29	110.52	138.31	-91.84	1,855.54	5,529.89	7,355.63	7,218.31	137.32	53.565		
15,500.00	7,870.00	15,352.00	7,829.29	112.10	138.31	-91.84	1,855.54	5,529.89	7,449.16	7,312.07	137.09	54.338		
15,600.00	7,870.00	15,352.00	7,829.29	113.69	138.31	-91.84	1,855.54	5,529.89	7,542.86	7,405.99	136.86	55.112		
15,700.00	7,870.00	15,352.00	7,829.29	115.28	138.31	-91.84	1,855.54	5,529.89	7,636.71	7,500.07	136.64	55.887		
15,800.00	7,870.00	15,352.00	7,829.29	116.87	138.31	-91.84	1,855.54	5,529.89	7,730.72	7,594.29	136.43	56.664		
15,900.00	7,870.00	15,352.00	7,829.29	118.47	138.31	-91.84	1,855.54	5,529.89	7,824.88	7,688.65	136.22	57.441		
16,000.00	7,870.00	15,352.00	7,829.29	120.07	138.31	-91.84	1,855.54	5,529.89	7,919.18	7,783.16	136.02	58.220		
16,100.00	7,870.00	15,352.00	7,829.29	121.68	138.31	-91.84	1,855.54	5,529.89	8,013.62	7,877.79	135.83	58.999		
16,200.00	7,870.00	15,352.00	7,829.29	123.30	138.31	-91.84	1,855.54	5,529.89	8,108.19	7,972.56	135.64	59.779		
16,300.00	7,870.00	15,352.00	7,829.29	124.91	138.31	-91.84	1,855.54	5,529.89	8,202.89	8,067.44	135.45	60.560		
16,400.00	7,870.00	15,352.00	7,829.29	126.53	138.31	-91.84	1,855.54	5,529.89	8,297.72	8,162.45	135.27	61.342		
16,500.00	7,870.00	15,352.00	7,829.29	128.16	138.31	-91.84	1,855.54	5,529.89	8,392.67	8,257.57	135.09	62.124		
16,600.00	7,870.00	15,352.00	7,829.29	129.79	138.31	-91.84	1,855.54	5,529.89	8,487.73	8,352.80	134.92	62.908		
16,700.00	7,870.00	15,352.00	7,829.29	131.42	138.31	-91.84	1,855.54	5,529.89	8,582.90	8,448.14	134.76	63.691		
16,800.00	7,870.00	15,352.00	7,829.29	133.05	138.31	-91.84	1,855.54	5,529.89	8,678.19	8,543.59	134.60	64.475		
16,900.00	7,870.00	15,352.00	7,829.29	134.69	138.31	-91.84	1,855.54	5,529.89	8,773.57	8,639.13	134.44	65.260		
17,000.00	7,870.00	15,352.00	7,829.29	136.33	138.31	-91.84	1,855.54	5,529.89	8,869.06	8,734.77	134.29	66.045		
17,100.00	7,870.00	15,352.00	7,829.29	137.97	138.31	-91.84	1,855.54	5,529.89	8,964.65	8,830.51	134.14	66.830		
17,200.00	7,870.00	15,352.00	7,829.29	139.62	138.31	-91.84	1,855.54	5,529.89	9,060.33	8,926.34	134.00	67.615		
17,300.00	7,870.00	15,352.00	7,829.29	141.27	138.31	-91.84	1,855.54	5,529.89	9,156.11	9,022.25	133.86	68.401		
17,400.00	7,870.00	15,352.00	7,829.29	142.92	138.31	-91.84	1,855.54	5,529.89	9,251.97	9,118.25	133.72	69.187		
17,500.00	7,870.00	15,352.00	7,829.29	144.58	138.31	-91.84	1,855.54	5,529.89	9,347.92	9,214.33	133.59	69.973		
17,600.00	7,870.00	15,352.00	7,829.29	146.23	138.31	-91.84	1,855.54	5,529.89	9,443.96	9,310.49	133.47	70.760		
17,700.00	7,870.00	15,352.00	7,829.29	147.89	138.31	-91.84	1,855.54	5,529.89	9,540.08	9,406.74	133.34	71.546		
17,800.00	7,870.00	15,352.00	7,829.29	149.56	138.31	-91.84	1,855.54	5,529.89	9,636.27	9,503.05	133.22	72.333		
17,900.00	7,870.00	15,352.00	7,829.29	151.22	138.31	-91.84	1,855.54	5,529.89	9,732.55	9,599.44	133.11	73.119		
18,000.00	7,870.00	15,352.00	7,829.29	152.89	138.31	-91.84	1,855.54	5,529.89	9,828.89	9,695.90	132.99	73.906		
18,100.00	7,870.00	15,352.00	7,829.29	154.55	138.31	-91.84	1,855.54	5,529.89	9,925.31	9,792.43	132.88	74.692		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	0.00	0.00	0.00	58.66	2,113.85	3,471.18	4,064.35					
100.00	100.00	50.49	50.49	0.13	0.09	58.66	2,113.85	3,471.21	4,064.21	4,063.98	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.66	2,113.86	3,471.76	4,064.83	4,063.98	0.85	4,769.766		
300.00	300.00	202.47	202.46	0.85	0.64	58.67	2,114.16	3,472.69	4,066.04	4,064.55	1.49	2,732.935		
400.00	400.00	304.75	304.73	1.21	1.00	58.67	2,114.99	3,473.96	4,067.52	4,065.31	2.21	1,839.146		
500.00	500.00	442.04	442.01	1.57	1.49	58.68	2,114.87	3,475.49	4,068.42	4,065.37	3.06	1,330.495		
600.00	600.00	537.09	537.06	1.93	1.83	58.69	2,114.18	3,476.49	4,068.95	4,065.19	3.75	1,083.994		
700.00	700.00	633.73	633.69	2.29	2.17	58.70	2,114.04	3,477.33	4,069.62	4,065.16	4.46	913.263		
800.00	800.00	778.00	777.96	2.64	2.67	58.69	2,114.74	3,477.05	4,069.68	4,064.37	5.31	766.713		
900.00	900.00	912.13	912.08	3.00	3.12	58.69	2,114.01	3,476.20	4,068.86	4,062.74	6.12	664.966		
1,000.00	1,000.00	995.74	995.69	3.36	3.40	58.69	2,113.51	3,475.40	4,067.74	4,060.98	6.76	601.520		
1,100.00	1,099.98	1,091.54	1,091.48	3.72	3.73	4.07	2,113.70	3,474.48	4,065.28	4,057.84	7.45	545.996		
1,200.00	1,199.84	1,210.63	1,210.56	4.07	4.14	4.07	2,113.73	3,473.14	4,059.12	4,050.91	8.21	494.418		
1,300.00	1,299.45	1,347.16	1,347.07	4.43	4.62	4.09	2,113.60	3,471.03	4,049.18	4,040.15	9.04	447.977		
1,400.00	1,398.70	1,419.51	1,419.40	4.80	4.87	4.10	2,113.68	3,469.18	4,035.00	4,025.35	9.65	418.244		
1,500.00	1,497.47	1,516.46	1,516.34	5.18	5.21	4.15	2,113.05	3,468.53	4,018.49	4,008.15	10.34	388.518		
1,600.00	1,595.62	1,838.90	1,837.49	5.57	6.36	4.58	2,086.16	3,467.16	3,993.86	3,982.04	11.82	337.850		
1,700.00	1,693.06	1,922.58	1,920.28	6.00	6.67	4.81	2,073.99	3,467.81	3,964.81	3,952.32	12.49	317.563		
1,800.00	1,789.64	2,034.72	2,030.76	6.45	7.10	5.18	2,054.97	3,470.05	3,932.29	3,919.03	13.26	296.521		
1,900.00	1,885.27	2,103.51	2,098.30	6.94	7.37	5.47	2,042.07	3,472.28	3,896.73	3,882.84	13.89	280.530		
2,000.00	1,979.82	2,166.81	2,160.34	7.47	7.63	5.78	2,029.84	3,475.02	3,858.62	3,844.11	14.51	265.986		
2,100.00	2,073.17	2,234.42	2,226.63	8.05	7.91	6.12	2,016.97	3,478.36	3,818.02	3,802.87	15.15	252.040		
2,200.00	2,165.21	2,333.30	2,323.71	8.67	8.32	6.60	1,998.82	3,483.23	3,774.71	3,758.79	15.92	237.154		
2,300.00	2,255.84	2,435.70	2,424.25	9.35	8.75	7.13	1,979.82	3,487.31	3,727.55	3,710.85	16.70	223.145		
2,400.00	2,344.94	2,400.00	2,533.13	10.09	8.59	7.75	1,959.48	3,491.24	3,677.28	3,660.37	16.91	217.462		
2,500.00	2,432.39	2,633.11	2,618.05	10.89	9.61	8.33	1,942.88	3,493.93	3,623.52	3,605.25	18.27	198.307		
2,519.29	2,449.07	2,643.05	2,627.81	11.05	9.65	8.42	1,941.00	3,494.27	3,612.89	3,594.49	18.39	196.418		
2,600.00	2,518.69	2,685.22	2,669.22	11.74	9.83	8.62	1,933.16	3,495.82	3,568.50	3,549.61	18.89	188.951		
2,700.00	2,604.95	2,738.69	2,721.78	12.62	10.07	8.88	1,923.62	3,498.00	3,514.19	3,494.68	19.51	180.128		
2,800.00	2,691.22	2,844.80	2,826.07	13.52	10.54	9.41	1,904.67	3,502.63	3,460.28	3,439.93	20.35	170.078		
2,900.00	2,777.48	2,925.44	2,905.26	14.43	10.90	9.84	1,889.78	3,505.86	3,405.95	3,384.85	21.10	161.447		
3,000.00	2,863.75	3,024.36	3,002.41	15.35	11.34	10.37	1,871.53	3,509.62	3,351.65	3,329.72	21.93	152.846		
3,100.00	2,950.01	3,086.86	3,063.63	16.28	11.63	10.74	1,859.20	3,512.30	3,297.38	3,274.74	22.64	145.651		
3,200.00	3,036.27	3,160.46	3,135.88	17.22	11.96	11.17	1,845.59	3,515.58	3,243.83	3,220.43	23.40	138.618		
3,300.00	3,122.54	3,259.50	3,233.11	18.17	12.41	11.76	1,827.11	3,519.39	3,189.93	3,165.66	24.26	131.471		
3,400.00	3,208.80	3,327.88	3,300.41	19.13	12.72	12.16	1,815.30	3,521.71	3,136.39	3,111.37	25.02	125.347		
3,500.00	3,295.07	3,432.42	3,403.31	20.09	13.20	12.79	1,797.11	3,525.07	3,082.86	3,056.94	25.91	118.965		
3,600.00	3,381.33	3,528.13	3,497.25	21.05	13.64	13.42	1,779.08	3,528.02	3,028.91	3,002.12	26.79	113.050		
3,700.00	3,467.59	3,599.20	3,567.17	22.02	13.96	13.89	1,766.48	3,529.86	2,975.19	2,947.60	27.59	107.817		
3,800.00	3,553.86	3,656.64	3,623.80	22.99	14.22	14.26	1,756.94	3,531.40	2,922.11	2,893.75	28.36	103.037		
3,900.00	3,640.12	3,721.62	3,687.81	23.97	14.51	14.70	1,746.06	3,533.77	2,869.89	2,840.73	29.16	98.407		
4,000.00	3,726.38	3,802.93	3,767.85	24.95	14.88	15.28	1,732.11	3,536.99	2,818.01	2,787.98	30.04	93.817		
4,100.00	3,812.65	3,870.01	3,833.80	25.93	15.19	15.78	1,720.22	3,540.02	2,766.63	2,735.74	30.88	89.581		
4,200.00	3,898.91	4,009.52	3,970.69	26.91	15.84	16.90	1,693.91	3,545.39	2,714.52	2,682.53	31.99	84.861		
4,300.00	3,985.18	4,068.32	4,028.65	27.90	16.11	17.35	1,684.10	3,546.89	2,662.50	2,629.67	32.83	81.091		
4,400.00	4,071.44	4,129.40	4,089.02	28.88	16.38	17.81	1,674.97	3,548.58	2,611.40	2,577.71	33.69	77.511		
4,500.00	4,157.70	4,275.32	4,232.92	29.87	17.03	19.02	1,651.22	3,552.91	2,560.73	2,525.92	34.81	73.559		
4,600.00	4,243.97	4,350.95	4,307.29	30.86	17.39	19.70	1,637.56	3,554.39	2,508.72	2,472.95	35.77	70.138		
4,700.00	4,330.23	4,420.99	4,376.06	31.85	17.72	20.36	1,624.38	3,556.00	2,457.14	2,420.40	36.74	66.884		
4,800.00	4,416.49	4,499.32	4,452.80	32.84	18.09	21.16	1,608.86	3,558.35	2,406.22	2,368.46	37.76	63.719		
4,900.00	4,502.76	4,594.47	4,546.01	33.84	18.55	22.17	1,589.89	3,560.95	2,355.52	2,316.65	38.87	60.601		
5,000.00	4,589.02	4,673.74	4,623.65	34.83	18.93	23.04	1,573.99	3,562.60	2,304.75	2,264.80	39.95	57.689		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,675.29	4,735.00	4,683.76	35.82	19.22	23.72		1,562.33	3,564.16	2,255.02	2,214.02	41.00	54.999	
5,200.00	4,761.55	4,805.38	4,752.99	36.82	19.55	24.50		1,549.81	3,566.19	2,206.31	2,164.22	42.09	52.416	
5,300.00	4,847.81	4,877.94	4,824.47	37.82	19.88	25.32		1,537.56	3,568.39	2,158.40	2,115.19	43.21	49.948	
5,400.00	4,934.08	4,957.60	4,902.89	38.81	20.25	26.26		1,523.80	3,571.17	2,111.30	2,066.91	44.39	47.563	
5,500.00	5,020.34	5,046.00	4,989.99	39.81	20.66	27.34		1,508.93	3,573.90	2,064.52	2,018.90	45.62	45.254	
5,600.00	5,106.60	5,124.56	5,067.56	40.81	21.01	28.30		1,496.70	3,576.06	2,018.25	1,971.41	46.84	43.085	
5,700.00	5,192.87	5,191.76	5,133.94	41.81	21.31	29.14		1,486.45	3,578.21	1,972.99	1,924.92	48.06	41.049	
5,800.00	5,279.13	5,260.69	5,201.98	42.81	21.62	30.05		1,475.78	3,580.94	1,928.95	1,879.62	49.33	39.104	
5,900.00	5,365.40	5,341.49	5,281.70	43.81	21.98	31.15		1,463.15	3,584.61	1,886.05	1,835.37	50.68	37.218	
6,000.00	5,451.66	5,436.60	5,375.53	44.81	22.41	32.50		1,448.08	3,588.50	1,843.50	1,791.38	52.11	35.374	
6,100.00	5,537.92	5,535.66	5,473.51	45.81	22.85	33.93		1,433.82	3,591.64	1,801.11	1,747.53	53.59	33.611	
6,200.00	5,624.19	5,620.63	5,557.53	46.81	23.22	35.22		1,421.32	3,593.66	1,758.84	1,703.78	55.06	31.942	
6,300.00	5,710.45	5,690.48	5,626.58	47.81	23.53	36.31		1,410.97	3,595.69	1,717.88	1,661.33	56.54	30.382	
6,400.00	5,796.72	5,763.01	5,698.24	48.81	23.85	37.50		1,400.11	3,598.25	1,678.37	1,620.29	58.08	28.898	
6,500.00	5,882.98	5,852.35	5,786.44	49.81	24.26	39.03		1,386.21	3,601.53	1,640.00	1,580.26	59.74	27.452	
6,600.00	5,969.24	5,935.83	5,868.88	50.82	24.63	40.51		1,373.38	3,604.31	1,602.45	1,541.03	61.42	26.088	
6,700.00	6,055.51	6,017.97	5,950.18	51.82	24.99	41.97		1,362.05	3,607.09	1,566.04	1,502.91	63.13	24.806	
6,800.00	6,141.77	6,096.55	6,027.87	52.82	25.33	43.44		1,350.57	3,609.79	1,530.95	1,466.06	64.88	23.596	
6,900.00	6,228.03	6,178.33	6,108.68	53.83	25.69	45.04		1,338.39	3,612.83	1,497.43	1,430.73	66.70	22.450	
7,000.00	6,314.30	6,269.81	6,199.30	54.83	26.09	46.83		1,326.34	3,616.01	1,464.90	1,396.32	68.58	21.360	
7,100.00	6,400.56	6,352.43	6,281.17	55.83	26.44	48.50		1,315.51	3,618.72	1,433.65	1,363.19	70.46	20.347	
7,200.00	6,486.83	6,437.06	6,365.03	56.84	26.80	50.27		1,304.53	3,621.49	1,403.89	1,331.50	72.39	19.393	
7,300.00	6,573.09	6,531.18	6,458.53	57.84	27.19	52.23		1,294.14	3,624.58	1,375.34	1,300.98	74.36	18.496	
7,400.00	6,659.35	6,628.51	6,555.39	58.84	27.57	54.28		1,284.97	3,627.30	1,347.62	1,271.29	76.34	17.654	
7,500.00	6,745.62	6,729.68	6,656.12	59.85	27.97	56.49		1,275.78	3,629.04	1,320.56	1,242.21	78.35	16.854	
7,600.00	6,831.88	6,824.57	6,750.71	60.85	28.33	58.60		1,268.37	3,630.05	1,294.34	1,213.99	80.35	16.109	
7,700.00	6,918.14	6,919.69	6,845.68	61.86	28.67	60.71		1,263.09	3,631.03	1,269.12	1,186.81	82.31	15.419	
7,800.00	7,004.41	7,010.56	6,936.49	62.86	28.97	62.71		1,259.90	3,632.16	1,245.07	1,160.84	84.23	14.782	
7,900.00	7,090.67	7,102.43	7,028.33	63.87	29.27	64.75		1,258.00	3,633.42	1,222.27	1,136.14	86.13	14.191	
8,000.00	7,176.94	7,190.02	7,115.91	64.87	29.55	66.71		1,257.19	3,634.88	1,200.92	1,112.93	87.99	13.648	
8,027.52	7,200.68	7,219.72	7,145.59	65.15	29.63	67.38		1,257.14	3,635.40	1,195.27	1,106.77	88.50	13.506	
8,050.00	7,220.18	7,244.10	7,169.98	65.37	29.71	64.11		1,257.20	3,635.75	1,190.41	1,101.50	88.90	13.390	
8,100.00	7,264.25	7,303.09	7,228.96	65.85	29.87	55.70		1,257.77	3,636.36	1,177.74	1,088.03	89.71	13.128	
8,150.00	7,308.99	8,238.42	7,893.77	66.28	30.49	25.45		1,775.41	3,620.61	1,161.98	1,096.44	65.54	17.730	
8,200.00	7,354.07	8,256.94	7,895.90	66.67	30.50	5.95		1,793.80	3,620.81	1,120.12	1,054.05	66.07	16.954	
8,250.00	7,399.14	8,262.33	7,896.44	67.02	30.51	-12.33		1,799.16	3,620.88	1,078.62	1,011.73	66.89	16.125	
8,300.00	7,443.85	8,258.42	7,896.05	67.32	30.51	-28.56		1,795.28	3,620.83	1,037.93	970.06	67.88	15.292	
8,350.00	7,487.88	8,247.74	7,894.90	67.56	30.50	-42.37		1,784.66	3,620.71	998.44	929.50	68.94	14.483	
8,400.00	7,530.87	8,232.02	7,892.94	67.75	30.49	-53.75		1,769.06	3,620.55	960.49	890.48	70.01	13.719	
8,450.00	7,572.51	8,214.96	7,890.48	67.90	30.48	-63.14		1,752.18	3,620.44	924.42	853.48	70.94	13.030	
8,500.00	7,612.48	8,195.76	7,887.31	68.00	30.48	-70.68		1,733.24	3,620.41	890.59	818.84	71.75	12.413	
8,550.00	7,650.47	8,175.02	7,883.40	68.05	30.47	-76.68		1,712.88	3,620.51	859.31	786.93	72.38	11.872	
8,600.00	7,686.20	8,155.16	7,879.10	68.06	30.47	-81.52		1,693.49	3,620.82	830.97	758.25	72.72	11.427	
8,650.00	7,719.39	8,134.60	7,874.05	68.03	30.47	-85.27		1,673.57	3,621.40	805.91	733.08	72.83	11.066	
8,700.00	7,749.79	8,094.02	7,862.21	67.97	30.47	-86.87		1,634.79	3,622.80	784.14	710.46	73.68	10.642	
8,750.00	7,777.17	8,062.02	7,851.14	67.87	30.48	-88.28		1,604.79	3,623.88	765.66	691.82	73.85	10.368	
8,800.00	7,801.32	8,032.37	7,839.60	67.74	30.50	-89.17		1,577.50	3,625.04	750.90	677.25	73.64	10.196	
8,850.00	7,822.06	8,004.59	7,827.56	67.59	30.51	-89.56		1,552.50	3,626.32	740.05	666.91	73.14	10.119	
8,900.00	7,839.23	7,970.87	7,811.26	67.41	30.53	-89.03		1,523.04	3,628.09	733.16	660.44	72.72	10.082 SF	
8,950.00	7,852.69	7,932.85	7,790.43	67.22	30.55	-87.70		1,491.30	3,629.80	729.87	657.54	72.33	10.091	
8,971.95	7,857.41	7,916.34	7,780.53	67.12	30.55	-86.96		1,478.10	3,630.40	729.53	657.44	72.10	10.119 CC, ES	
9,000.00	7,862.35	7,896.40	7,767.89	67.00	30.56	-85.94		1,462.70	3,630.99	730.09	658.35	71.73	10.178	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,863.51	7,745.47	66.78	30.57	-83.88	1,438.65	3,631.62	733.80	662.83	70.97	10.340		
9,098.65	7,870.00	7,837.43	7,726.41	66.55	30.58	-81.75	1,420.85	3,631.87	740.73	670.62	70.11	10.566		
9,100.00	7,870.00	7,836.80	7,725.94	66.55	30.58	-81.72	1,420.43	3,631.88	740.97	670.89	70.08	10.573		
9,200.00	7,870.00	7,794.94	7,693.48	66.09	30.58	-79.22	1,394.03	3,632.40	763.30	694.64	68.66	11.116		
9,300.00	7,870.00	7,755.00	7,660.55	65.65	30.57	-76.73	1,371.46	3,633.20	794.89	726.66	68.23	11.649		
9,400.00	7,870.00	7,733.98	7,642.55	65.24	30.56	-75.40	1,360.61	3,633.77	835.22	766.53	68.68	12.160		
9,500.00	7,870.00	7,710.00	7,621.56	64.85	30.55	-73.88	1,349.06	3,634.57	883.63	813.69	69.94	12.635		
9,600.00	7,870.00	7,684.86	7,599.10	64.48	30.53	-72.27	1,337.81	3,635.49	939.01	867.40	71.61	13.113		
9,700.00	7,870.00	7,661.00	7,577.41	64.13	30.52	-70.75	1,327.91	3,636.35	1,000.34	926.88	73.45	13.619		
9,800.00	7,870.00	7,637.57	7,555.81	63.80	30.50	-69.27	1,318.85	3,637.05	1,066.64	991.35	75.29	14.166		
9,900.00	7,870.00	7,614.00	7,533.83	63.50	30.47	-67.78	1,310.35	3,637.44	1,137.07	1,060.03	77.04	14.759		
10,000.00	7,870.00	7,597.32	7,518.14	63.22	30.45	-66.73	1,304.71	3,637.57	1,211.09	1,132.39	78.70	15.389		
10,100.00	7,870.00	7,582.15	7,503.75	62.96	30.44	-65.79	1,299.88	3,637.62	1,288.21	1,207.99	80.22	16.059		
10,200.00	7,870.00	7,567.00	7,489.30	62.72	30.42	-64.85	1,295.33	3,637.60	1,367.97	1,286.39	81.58	16.768		
10,300.00	7,870.00	7,567.00	7,489.30	62.50	30.42	-64.85	1,295.33	3,637.60	1,450.07	1,367.18	82.89	17.494		
10,400.00	7,870.00	7,547.14	7,470.23	62.31	30.39	-63.63	1,289.80	3,637.55	1,533.95	1,450.00	83.94	18.274		
10,500.00	7,870.00	7,537.84	7,461.26	62.15	30.38	-63.06	1,287.37	3,637.54	1,619.57	1,534.63	84.94	19.068		
10,600.00	7,870.00	7,520.00	7,443.95	62.01	30.35	-61.99	1,283.01	3,637.52	1,706.70	1,620.92	85.78	19.896		
10,700.00	7,870.00	7,520.00	7,443.95	61.90	30.35	-61.99	1,283.01	3,637.52	1,794.92	1,708.29	86.62	20.721		
10,800.00	7,870.00	7,520.00	7,443.95	61.82	30.35	-61.99	1,283.01	3,637.52	1,884.31	1,796.94	87.37	21.566		
10,900.00	7,870.00	7,520.00	7,443.95	61.78	30.35	-61.99	1,283.01	3,637.52	1,974.72	1,886.67	88.05	22.428		
11,000.00	7,870.00	7,501.42	7,425.84	61.77	30.32	-60.89	1,278.88	3,637.55	2,065.72	1,977.14	88.58	23.319		
11,100.00	7,870.00	7,495.64	7,420.18	61.81	30.31	-60.55	1,277.69	3,637.57	2,157.58	2,068.47	89.12	24.211		
11,200.00	7,870.00	7,490.23	7,414.89	61.90	30.30	-60.24	1,276.60	3,637.59	2,250.09	2,160.49	89.60	25.112		
11,300.00	7,870.00	7,473.00	7,397.96	62.03	30.27	-59.25	1,273.38	3,637.71	2,343.29	2,253.28	90.01	26.035		
11,400.00	7,870.00	7,473.00	7,397.96	62.23	30.27	-59.25	1,273.38	3,637.71	2,436.79	2,346.37	90.43	26.948		
11,500.00	7,870.00	7,473.00	7,397.96	62.50	30.27	-59.25	1,273.38	3,637.71	2,530.80	2,439.99	90.81	27.869		
11,600.00	7,870.00	7,473.00	7,397.96	62.84	30.27	-59.25	1,273.38	3,637.71	2,625.25	2,534.08	91.16	28.797		
11,700.00	7,870.00	7,473.00	7,397.96	63.25	30.27	-59.25	1,273.38	3,637.71	2,720.09	2,628.60	91.49	29.731		
11,800.00	7,870.00	7,473.00	7,397.96	63.76	30.27	-59.25	1,273.38	3,637.71	2,815.29	2,723.50	91.79	30.671		
11,900.00	7,870.00	7,456.93	7,382.12	64.34	30.24	-58.34	1,270.68	3,637.80	2,910.65	2,818.62	92.03	31.627		
12,000.00	7,870.00	7,452.65	7,377.89	65.01	30.23	-58.10	1,270.00	3,637.80	3,006.37	2,914.09	92.28	32.579		
12,100.00	7,870.00	7,448.59	7,373.89	65.77	30.22	-57.87	1,269.38	3,637.81	3,102.34	3,009.83	92.51	33.534		
12,200.00	7,870.00	7,444.75	7,370.08	66.61	30.21	-57.66	1,268.80	3,637.80	3,198.53	3,105.80	92.73	34.493		
12,300.00	7,870.00	7,426.00	7,351.51	67.51	30.18	-56.63	1,266.21	3,637.72	3,295.08	3,202.17	92.90	35.467		
12,400.00	7,870.00	7,426.00	7,351.51	68.49	30.18	-56.63	1,266.21	3,637.72	3,391.62	3,298.52	93.10	36.428		
12,500.00	7,870.00	7,426.00	7,351.51	69.52	30.18	-56.63	1,266.21	3,637.72	3,488.36	3,395.07	93.29	37.392		
12,600.00	7,870.00	7,426.00	7,351.51	70.61	30.18	-56.63	1,266.21	3,637.72	3,585.27	3,491.80	93.47	38.358		
12,700.00	7,870.00	7,426.00	7,351.51	71.75	30.18	-56.63	1,266.21	3,637.72	3,682.35	3,588.72	93.63	39.327		
12,800.00	7,870.00	7,426.00	7,351.51	72.93	30.18	-56.63	1,266.21	3,637.72	3,779.58	3,685.79	93.79	40.298		
12,900.00	7,870.00	7,426.00	7,351.51	74.14	30.18	-56.63	1,266.21	3,637.72	3,876.96	3,783.02	93.94	41.271		
13,000.00	7,870.00	7,426.00	7,351.51	75.39	30.18	-56.63	1,266.21	3,637.72	3,974.46	3,880.38	94.08	42.246		
13,100.00	7,870.00	7,426.00	7,351.51	76.67	30.18	-56.63	1,266.21	3,637.72	4,072.09	3,977.87	94.21	43.222		
13,200.00	7,870.00	7,426.00	7,351.51	77.98	30.18	-56.63	1,266.21	3,637.72	4,169.82	4,075.48	94.34	44.200		
13,300.00	7,870.00	7,426.00	7,351.51	79.31	30.18	-56.63	1,266.21	3,637.72	4,267.66	4,173.20	94.46	45.179		
13,400.00	7,870.00	7,426.00	7,351.51	80.67	30.18	-56.63	1,266.21	3,637.72	4,365.60	4,271.03	94.58	46.160		
13,500.00	7,870.00	7,426.00	7,351.51	82.04	30.18	-56.63	1,266.21	3,637.72	4,463.64	4,368.95	94.69	47.141		
13,600.00	7,870.00	7,426.00	7,351.51	83.43	30.18	-56.63	1,266.21	3,637.72	4,561.75	4,466.96	94.79	48.123		
13,700.00	7,870.00	7,426.00	7,351.51	84.84	30.18	-56.63	1,266.21	3,637.72	4,659.95	4,565.05	94.89	49.106		
13,800.00	7,870.00	7,405.35	7,331.00	86.27	30.13	-55.51	1,263.80	3,637.53	4,757.93	4,662.97	94.97	50.102		
13,900.00	7,870.00	7,403.74	7,329.40	87.71	30.13	-55.42	1,263.63	3,637.52	4,856.23	4,761.17	95.06	51.087		
14,000.00	7,870.00	7,402.19	7,327.86	89.16	30.12	-55.34	1,263.47	3,637.50	4,954.59	4,859.45	95.15	52.073		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,870.00	7,400.69	7,326.37	90.63	30.12	-55.26	1,263.32	3,637.49	5,053.02	4,957.78	95.23	53.059		
14,200.00	7,870.00	7,399.24	7,324.93	92.10	30.12	-55.18	1,263.18	3,637.47	5,151.50	5,056.18	95.32	54.046		
14,300.00	7,870.00	7,379.00	7,304.77	93.59	30.07	-54.12	1,261.44	3,637.23	5,250.27	5,154.89	95.37	55.049		
14,400.00	7,870.00	7,379.00	7,304.77	95.09	30.07	-54.12	1,261.44	3,637.23	5,348.82	5,253.37	95.45	56.035		
14,500.00	7,870.00	7,379.00	7,304.77	96.60	30.07	-54.12	1,261.44	3,637.23	5,447.43	5,351.90	95.53	57.022		
14,600.00	7,870.00	7,379.00	7,304.77	98.11	30.07	-54.12	1,261.44	3,637.23	5,546.09	5,450.48	95.61	58.008		
14,700.00	7,870.00	7,379.00	7,304.77	99.64	30.07	-54.12	1,261.44	3,637.23	5,644.79	5,549.11	95.68	58.995		
14,800.00	7,870.00	7,379.00	7,304.77	101.17	30.07	-54.12	1,261.44	3,637.23	5,743.54	5,647.79	95.75	59.982		
14,900.00	7,870.00	7,379.00	7,304.77	102.71	30.07	-54.12	1,261.44	3,637.23	5,842.33	5,746.51	95.82	60.969		
15,000.00	7,870.00	7,379.00	7,304.77	104.26	30.07	-54.12	1,261.44	3,637.23	5,941.16	5,845.27	95.89	61.956		
15,100.00	7,870.00	7,379.00	7,304.77	105.82	30.07	-54.12	1,261.44	3,637.23	6,040.03	5,944.08	95.96	62.944		
15,200.00	7,870.00	7,379.00	7,304.77	107.38	30.07	-54.12	1,261.44	3,637.23	6,138.94	6,042.92	96.02	63.931		
15,300.00	7,870.00	7,379.00	7,304.77	108.95	30.07	-54.12	1,261.44	3,637.23	6,237.88	6,141.80	96.09	64.918		
15,400.00	7,870.00	7,379.00	7,304.77	110.52	30.07	-54.12	1,261.44	3,637.23	6,336.86	6,240.71	96.15	65.905		
15,500.00	7,870.00	7,379.00	7,304.77	112.10	30.07	-54.12	1,261.44	3,637.23	6,435.87	6,339.65	96.21	66.892		
15,600.00	7,870.00	7,379.00	7,304.77	113.69	30.07	-54.12	1,261.44	3,637.23	6,534.90	6,438.63	96.27	67.879		
15,700.00	7,870.00	7,379.00	7,304.77	115.28	30.07	-54.12	1,261.44	3,637.23	6,633.97	6,537.64	96.33	68.866		
15,800.00	7,870.00	7,379.00	7,304.77	116.87	30.07	-54.12	1,261.44	3,637.23	6,733.06	6,636.67	96.39	69.852		
15,900.00	7,870.00	7,379.00	7,304.77	118.47	30.07	-54.12	1,261.44	3,637.23	6,832.18	6,735.73	96.45	70.838		
16,000.00	7,870.00	7,379.00	7,304.77	120.07	30.07	-54.12	1,261.44	3,637.23	6,931.33	6,834.82	96.50	71.824		
16,100.00	7,870.00	7,379.00	7,304.77	121.68	30.07	-54.12	1,261.44	3,637.23	7,030.50	6,933.94	96.56	72.809		
16,200.00	7,870.00	7,379.00	7,304.77	123.30	30.07	-54.12	1,261.44	3,637.23	7,129.69	7,033.07	96.62	73.795		
16,300.00	7,870.00	7,379.00	7,304.77	124.91	30.07	-54.12	1,261.44	3,637.23	7,228.90	7,132.24	96.67	74.779		
16,400.00	7,870.00	7,379.00	7,304.77	126.53	30.07	-54.12	1,261.44	3,637.23	7,328.14	7,231.42	96.72	75.764		
16,500.00	7,870.00	7,379.00	7,304.77	128.16	30.07	-54.12	1,261.44	3,637.23	7,427.40	7,330.62	96.78	76.748		
16,600.00	7,870.00	7,379.00	7,304.77	129.79	30.07	-54.12	1,261.44	3,637.23	7,526.67	7,429.85	96.83	77.732		
16,700.00	7,870.00	7,379.00	7,304.77	131.42	30.07	-54.12	1,261.44	3,637.23	7,625.97	7,529.09	96.88	78.715		
16,800.00	7,870.00	7,379.00	7,304.77	133.05	30.07	-54.12	1,261.44	3,637.23	7,725.28	7,628.35	96.93	79.697		
16,900.00	7,870.00	7,379.00	7,304.77	134.69	30.07	-54.12	1,261.44	3,637.23	7,824.61	7,727.63	96.98	80.679		
17,000.00	7,870.00	7,379.00	7,304.77	136.33	30.07	-54.12	1,261.44	3,637.23	7,923.96	7,826.93	97.03	81.661		
17,100.00	7,870.00	7,379.00	7,304.77	137.97	30.07	-54.12	1,261.44	3,637.23	8,023.33	7,926.24	97.09	82.642		
17,200.00	7,870.00	7,379.00	7,304.77	139.62	30.07	-54.12	1,261.44	3,637.23	8,122.71	8,025.57	97.14	83.623		
17,300.00	7,870.00	7,379.00	7,304.77	141.27	30.07	-54.12	1,261.44	3,637.23	8,222.10	8,124.92	97.18	84.603		
17,400.00	7,870.00	7,379.00	7,304.77	142.92	30.07	-54.12	1,261.44	3,637.23	8,321.51	8,224.28	97.23	85.582		
17,500.00	7,870.00	7,379.00	7,304.77	144.58	30.07	-54.12	1,261.44	3,637.23	8,420.93	8,323.65	97.28	86.561		
17,600.00	7,870.00	7,379.00	7,304.77	146.23	30.07	-54.12	1,261.44	3,637.23	8,520.37	8,423.04	97.33	87.539		
17,700.00	7,870.00	7,379.00	7,304.77	147.89	30.07	-54.12	1,261.44	3,637.23	8,619.82	8,522.44	97.38	88.516		
17,800.00	7,870.00	7,379.00	7,304.77	149.56	30.07	-54.12	1,261.44	3,637.23	8,719.28	8,621.85	97.43	89.493		
17,900.00	7,870.00	7,379.00	7,304.77	151.22	30.07	-54.12	1,261.44	3,637.23	8,818.76	8,721.28	97.48	90.469		
18,000.00	7,870.00	7,379.00	7,304.77	152.89	30.07	-54.12	1,261.44	3,637.23	8,918.24	8,820.72	97.53	91.444		
18,100.00	7,870.00	7,379.00	7,304.77	154.55	30.07	-54.12	1,261.44	3,637.23	9,017.74	8,920.17	97.57	92.419		
18,200.00	7,870.00	7,379.00	7,304.77	156.22	30.07	-54.12	1,261.44	3,637.23	9,117.25	9,019.63	97.62	93.393		
18,300.00	7,870.00	7,379.00	7,304.77	157.90	30.07	-54.12	1,261.44	3,637.23	9,216.77	9,119.10	97.67	94.366		
18,400.00	7,870.00	7,379.00	7,304.77	159.57	30.07	-54.12	1,261.44	3,637.23	9,316.30	9,218.58	97.72	95.338		
18,500.00	7,870.00	7,379.00	7,304.77	161.25	30.07	-54.12	1,261.44	3,637.23	9,415.84	9,318.07	97.77	96.310		
18,600.00	7,870.00	7,379.00	7,304.77	162.93	30.07	-54.12	1,261.44	3,637.23	9,515.39	9,417.57	97.81	97.281		
18,700.00	7,870.00	7,379.00	7,304.77	164.60	30.07	-54.12	1,261.44	3,637.23	9,614.94	9,517.08	97.86	98.251		
18,797.52	7,870.00	7,379.00	7,304.77	166.24	30.07	-54.12	1,261.44	3,637.23	9,712.04	9,614.13	97.91	99.196		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	58.23	2,112.74	3,411.54	4,012.96					
100.00	100.00	51.59	51.59	0.13	0.10	58.23	2,112.74	3,411.58	4,012.81	4,012.58	0.23	N/A		
200.00	200.00	125.57	125.57	0.49	0.36	58.24	2,112.65	3,412.13	4,013.37	4,012.52	0.85	4,697.932		
300.00	300.00	221.99	221.98	0.85	0.71	58.24	2,112.77	3,413.10	4,014.30	4,012.74	1.56	2,578.157		
400.00	400.00	309.93	309.92	1.21	1.02	58.24	2,113.24	3,413.97	4,015.42	4,013.19	2.23	1,801.005		
500.00	500.00	447.91	447.89	1.57	1.51	58.24	2,113.86	3,414.78	4,016.13	4,013.05	3.08	1,305.495		
600.00	600.00	532.87	532.84	1.93	1.81	58.23	2,114.61	3,414.87	4,016.68	4,012.95	3.73	1,075.866		
700.00	700.00	663.04	663.00	2.29	2.26	58.21	2,116.17	3,414.34	4,016.95	4,012.41	4.55	883.772		
800.00	800.00	775.05	775.01	2.64	2.65	58.20	2,116.76	3,413.68	4,016.72	4,011.43	5.29	759.249		
900.00	900.00	884.62	884.58	3.00	3.03	58.19	2,116.98	3,412.96	4,016.27	4,010.24	6.03	666.403		
1,000.00	1,000.00	982.61	982.56	3.36	3.36	58.18	2,117.00	3,412.22	4,015.65	4,008.92	6.72	597.375		
1,100.00	1,099.98	1,069.48	1,069.43	3.72	3.66	3.57	2,116.60	3,412.06	4,013.51	4,006.14	7.38	544.053		
1,200.00	1,199.84	1,995.64	1,986.28	4.07	7.11	3.85	2,049.37	3,331.34	3,990.57	3,979.72	10.85	367.840		
1,300.00	1,299.45	2,147.22	2,133.95	4.43	7.78	4.08	2,023.13	3,309.47	3,960.74	3,949.00	11.73	337.566		
1,400.00	1,398.70	2,201.00	2,186.29	4.80	8.03	4.20	2,013.53	3,301.66	3,927.37	3,915.07	12.29	319.455		
1,500.00	1,497.47	2,266.39	2,250.05	5.18	8.32	4.34	2,002.18	3,292.63	3,891.53	3,878.64	12.89	301.800		
1,600.00	1,595.62	2,376.23	2,357.28	5.57	8.83	4.57	1,983.46	3,278.01	3,853.05	3,839.41	13.64	282.412		
1,700.00	1,693.06	1,700.00	2,533.84	6.00	5.68	4.94	1,950.67	3,250.71	3,809.23	3,798.01	11.22	339.641		
1,800.00	1,789.64	2,622.29	2,596.34	6.45	10.02	5.15	1,938.86	3,240.48	3,761.89	3,746.66	15.23	247.000		
1,900.00	1,885.27	2,666.79	2,639.64	6.94	10.23	5.33	1,931.24	3,233.68	3,712.49	3,696.73	15.76	235.517		
2,000.00	1,979.82	2,711.00	2,682.80	7.47	10.45	5.51	1,924.16	3,227.20	3,661.07	3,644.78	16.30	224.667		
2,100.00	2,073.17	2,761.00	2,731.75	8.05	10.69	5.72	1,916.75	3,220.19	3,607.67	3,590.82	16.85	214.139		
2,200.00	2,165.21	2,813.91	2,783.64	8.67	10.94	5.96	1,909.14	3,213.16	3,552.11	3,534.70	17.41	204.039		
2,300.00	2,255.84	2,916.62	2,884.35	9.35	11.42	6.35	1,893.65	3,200.27	3,494.06	3,475.93	18.13	192.739		
2,400.00	2,344.94	3,007.81	2,973.52	10.09	11.86	6.78	1,878.57	3,188.54	3,432.34	3,413.52	18.81	182.455		
2,500.00	2,432.39	3,182.39	3,143.61	10.89	12.73	7.58	1,847.16	3,165.00	3,367.12	3,347.38	19.74	170.565		
2,519.29	2,449.07	3,202.54	3,163.18	11.05	12.83	7.70	1,843.44	3,161.95	3,353.98	3,334.10	19.88	168.689		
2,600.00	2,518.69	3,274.84	3,233.33	11.74	13.21	7.96	1,830.00	3,150.77	3,298.62	3,278.21	20.42	161.575		
2,700.00	2,604.95	3,390.88	3,345.78	12.62	13.82	8.41	1,808.36	3,132.03	3,229.70	3,208.55	21.15	152.715		
2,800.00	2,691.22	3,451.07	3,403.98	13.52	14.13	8.64	1,797.05	3,121.62	3,160.00	3,138.26	21.74	145.373		
2,900.00	2,777.48	3,488.32	3,440.10	14.43	14.33	8.79	1,790.35	3,115.46	3,091.06	3,068.79	22.28	138.745		
3,000.00	2,863.75	3,563.34	3,513.00	15.35	14.72	9.10	1,777.16	3,103.64	3,022.84	2,999.91	22.92	131.865		
3,100.00	2,950.01	3,639.36	3,586.64	16.28	15.12	9.45	1,762.69	3,091.51	2,953.97	2,930.39	23.58	125.280		
3,200.00	3,036.27	3,681.62	3,627.66	17.22	15.35	9.64	1,754.91	3,085.01	2,885.76	2,861.60	24.17	119.403		
3,300.00	3,122.54	3,749.51	3,693.72	18.17	15.70	9.97	1,742.88	3,074.93	2,818.21	2,793.38	24.82	113.529		
3,400.00	3,208.80	3,823.72	3,765.81	19.13	16.09	10.35	1,729.23	3,063.88	2,750.44	2,724.94	25.50	107.857		
3,500.00	3,295.07	3,877.16	3,817.78	20.09	16.36	10.64	1,719.31	3,056.26	2,683.12	2,656.97	26.15	102.609		
3,600.00	3,381.33	3,932.68	3,871.83	21.05	16.65	10.96	1,709.18	3,048.69	2,616.37	2,589.56	26.81	97.580		
3,700.00	3,467.59	3,990.05	3,927.81	22.02	16.94	11.28	1,699.23	3,040.99	2,550.18	2,522.69	27.49	92.765		
3,800.00	3,553.86	4,058.69	3,994.87	22.99	17.29	11.68	1,687.87	3,031.81	2,484.37	2,456.17	28.19	88.115		
3,900.00	3,640.12	4,128.58	4,063.23	23.97	17.64	12.08	1,676.85	3,022.33	2,418.78	2,389.88	28.91	83.674		
4,000.00	3,726.38	4,248.30	4,180.33	24.95	18.24	12.78	1,658.91	3,005.01	2,353.13	2,323.46	29.67	79.298		
4,100.00	3,812.65	4,338.28	4,267.98	25.93	18.70	13.34	1,644.83	2,990.35	2,285.89	2,255.48	30.41	75.168		
4,200.00	3,898.91	4,436.44	4,363.47	26.91	19.22	14.00	1,629.23	2,973.83	2,218.36	2,187.21	31.15	71.210		
4,300.00	3,985.18	4,563.67	4,486.54	27.90	19.91	14.98	1,606.92	2,950.54	2,149.33	2,117.43	31.90	67.375		
4,400.00	4,071.44	4,615.96	4,537.00	28.88	20.20	15.42	1,597.29	2,940.76	2,079.94	2,047.28	32.66	63.684		
4,500.00	4,157.70	4,680.16	4,599.08	29.87	20.56	15.99	1,585.84	2,929.10	2,011.21	1,977.77	33.44	60.147		
4,600.00	4,243.97	4,742.00	4,658.81	30.86	20.90	16.59	1,574.36	2,917.95	1,942.53	1,908.29	34.24	56.729		
4,700.00	4,330.23	4,796.13	4,711.17	31.85	21.20	17.15	1,564.32	2,908.57	1,874.54	1,839.46	35.08	53.439		
4,800.00	4,416.49	4,852.34	4,765.76	32.84	21.50	17.76	1,554.42	2,899.55	1,807.74	1,771.80	35.94	50.297		
4,900.00	4,502.76	4,983.31	4,892.43	33.84	22.23	19.33	1,529.96	2,877.01	1,740.16	1,703.40	36.76	47.339		
5,000.00	4,589.02	5,061.43	4,967.40	34.83	22.68	20.42	1,513.76	2,862.21	1,671.02	1,633.35	37.67	44.359		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	5,118.00	5,021.80	35.82	23.01	21.26	1,502.25	2,851.80	1,602.68	1,564.02	38.66	41.458		
5,200.00	4,761.55	5,167.01	5,069.03	36.82	23.29	22.04	1,492.31	2,843.31	1,535.40	1,495.69	39.71	38.662		
5,300.00	4,847.81	5,222.61	5,122.70	37.82	23.60	23.01	1,480.74	2,834.48	1,469.36	1,428.54	40.83	35.992		
5,400.00	4,934.08	5,304.78	5,201.90	38.81	24.06	24.58	1,463.07	2,821.59	1,403.79	1,361.82	41.97	33.444		
5,500.00	5,020.34	5,359.17	5,254.35	39.81	24.37	25.70	1,451.40	2,813.13	1,338.88	1,295.64	43.25	30.959		
5,600.00	5,106.60	5,420.98	5,314.19	40.81	24.71	27.04	1,438.81	2,804.09	1,275.46	1,230.87	44.59	28.603		
5,700.00	5,192.87	5,507.06	5,397.38	41.81	25.19	29.09	1,420.85	2,791.20	1,212.42	1,166.42	46.00	26.356		
5,800.00	5,279.13	5,571.83	5,459.97	42.81	25.55	30.78	1,407.45	2,781.33	1,150.08	1,102.51	47.57	24.176		
5,900.00	5,365.40	5,638.12	5,524.14	43.81	25.92	32.62	1,394.13	2,771.37	1,088.96	1,039.69	49.27	22.102		
6,000.00	5,451.66	5,705.96	5,589.87	44.81	26.29	34.68	1,380.56	2,761.50	1,029.32	978.19	51.13	20.133		
6,100.00	5,537.92	5,778.23	5,659.98	45.81	26.68	37.05	1,366.48	2,751.00	971.09	917.94	53.15	18.271		
6,200.00	5,624.19	5,861.57	5,740.86	46.81	27.13	40.01	1,350.94	2,738.31	913.96	858.63	55.33	16.518		
6,300.00	5,710.45	5,931.36	5,808.65	47.81	27.51	42.71	1,338.61	2,727.21	858.18	800.43	57.75	14.859		
6,400.00	5,796.72	6,000.06	5,875.51	48.81	27.88	45.58	1,326.90	2,716.60	804.83	744.41	60.42	13.320		
6,500.00	5,882.98	6,068.32	5,941.79	49.81	28.25	48.78	1,314.21	2,706.34	754.37	690.97	63.41	11.898		
6,600.00	5,969.24	6,129.04	6,000.89	50.82	28.56	51.83	1,303.10	2,697.95	707.94	641.31	66.64	10.624		
6,700.00	6,055.51	6,193.14	6,063.66	51.82	28.88	55.18	1,292.63	2,690.28	666.34	596.33	70.01	9.518		
6,800.00	6,141.77	6,261.01	6,130.49	52.82	29.20	58.85	1,282.89	2,683.54	630.02	556.57	73.44	8.578		
6,900.00	6,228.03	6,338.43	6,206.94	53.83	29.55	63.23	1,272.80	2,676.68	598.76	521.86	76.90	7.786		
7,000.00	6,314.30	6,425.72	6,293.25	54.83	29.93	68.42	1,262.52	2,668.76	572.13	491.83	80.30	7.125		
7,100.00	6,400.56	6,504.58	6,371.41	55.83	30.26	73.29	1,254.79	2,661.57	550.40	466.99	83.41	6.599		
7,200.00	6,486.83	6,583.20	6,449.59	56.84	30.57	78.15	1,248.84	2,655.91	534.88	448.82	86.07	6.215		
7,300.00	6,573.09	6,665.98	6,532.06	57.84	30.87	83.29	1,243.54	2,651.07	525.66	437.47	88.19	5.961		
7,400.00	6,659.35	6,752.65	6,618.49	58.84	31.18	88.68	1,239.18	2,646.27	521.94	432.22	89.71	5.818		
7,415.98	6,673.14	6,766.12	6,631.92	59.00	31.23	89.52	1,238.59	2,645.55	521.86	431.97	89.90	5.805		
7,500.00	6,745.62	6,837.88	6,703.52	59.85	31.48	93.93	1,235.68	2,641.85	523.88	433.29	90.59	5.783		
7,600.00	6,831.88	6,926.34	6,791.88	60.85	31.77	99.19	1,233.30	2,638.04	531.02	440.15	90.88	5.843		
7,700.00	6,918.14	7,012.99	6,878.46	61.86	32.04	104.11	1,231.93	2,635.05	542.99	452.33	90.66	5.989		
7,800.00	7,004.41	7,097.66	6,963.09	62.86	32.30	108.70	1,230.90	2,632.43	559.66	469.62	90.04	6.216		
7,900.00	7,090.67	7,178.11	7,043.50	63.87	32.55	112.82	1,229.74	2,630.39	581.03	491.90	89.13	6.519		
8,000.00	7,176.94	7,266.97	7,132.34	64.87	32.81	116.99	1,228.42	2,629.33	606.44	518.29	88.15	6.880		
8,027.52	7,200.68	7,292.49	7,157.86	65.15	32.88	118.11	1,228.21	2,629.29	613.88	525.99	87.88	6.985		
8,050.00	7,220.18	7,314.13	7,179.50	65.37	32.94	115.67	1,228.12	2,629.28	619.63	531.96	87.67	7.068		
8,100.00	7,264.25	7,363.09	7,228.46	65.85	33.08	109.19	1,228.17	2,629.16	629.63	542.47	87.17	7.223		
8,150.00	7,308.99	7,407.46	7,299.42	66.28	32.57	171.17	1,809.39	2,615.09	631.48	595.52	35.96	17.560		
8,200.00	7,354.07	7,457.88	7,359.44	66.67	32.55	171.42	1,821.77	2,615.30	588.22	551.81	36.41	16.154		
8,250.00	7,399.14	7,503.74	7,399.66	67.02	32.54	169.69	1,824.62	2,615.36	545.70	508.38	37.31	14.625		
8,300.00	7,443.85	7,555.54	7,449.26	67.32	32.55	166.31	1,819.44	2,615.26	504.54	465.87	38.67	13.048		
8,350.00	7,487.88	7,603.00	7,495.73	67.56	32.56	157.77	1,785.30	2,615.11	465.24	424.42	40.82	11.397		
8,400.00	7,530.87	7,648.88	7,545.76	67.75	32.63	155.68	1,782.95	2,614.88	428.56	385.66	42.91	9.988		
8,450.00	7,572.51	7,693.00	7,589.71	67.90	32.73	147.01	1,741.53	2,615.91	394.27	348.37	45.90	8.590		
8,500.00	7,612.48	7,731.15	7,639.66	68.00	32.83	138.01	1,696.85	2,617.96	362.32	312.75	49.57	7.310		
8,550.00	7,650.47	7,771.24	7,679.01	68.05	32.90	132.07	1,668.25	2,619.14	333.50	280.22	53.28	6.260		
8,600.00	7,686.20	7,813.33	7,715.53	68.06	32.96	126.48	1,642.01	2,619.91	308.77	251.58	57.19	5.399		
8,650.00	7,719.39	7,854.74	7,750.98	68.03	33.01	120.84	1,616.53	2,620.55	288.88	227.72	61.15	4.724		
8,700.00	7,749.79	7,889.91	7,781.91	67.97	33.07	115.18	1,592.40	2,621.13	274.51	209.52	64.99	4.224		
8,750.00	7,777.17	7,921.33	7,807.57	67.87	33.13	109.10	1,567.44	2,621.80	266.00	197.61	68.39	3.890		
8,799.46	7,801.08	7,946.60	7,834.50	67.74	33.18	102.88	1,543.00	2,622.42	263.28	192.07	71.21	3.697 CC		
8,800.00	7,801.32	7,946.30	7,814.35	67.74	33.19	102.82	1,542.73	2,622.42	263.28	192.04	71.24	3.696 ES		
8,850.00	7,822.06	7,967.34	7,799.79	67.59	33.24	96.29	1,517.71	2,622.97	265.88	192.45	73.44	3.621 SF		
8,900.00	7,839.23	7,984.02	7,784.02	67.41	33.30	89.79	1,493.20	2,623.43	273.02	197.86	75.16	3.633		
8,950.00	7,852.69	7,996.04	7,767.15	67.22	33.35	83.48	1,469.44	2,623.83	283.79	207.21	76.58	3.706		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	7,862.35	7,947.47	7,749.60	67.00	33.40	77.60	1,446.90	2,624.18	297.29	219.36	77.93	3.815		
9,050.00	7,868.14	7,921.05	7,732.32	66.78	33.44	72.43	1,426.92	2,624.41	312.85	233.30	79.55	3.933		
9,098.65	7,870.00	7,895.72	7,714.76	66.55	33.47	67.87	1,408.67	2,624.52	329.40	248.27	81.13	4.060		
9,100.00	7,870.00	7,895.02	7,714.25	66.55	33.47	67.78	1,408.18	2,624.52	329.87	248.70	81.17	4.064		
9,200.00	7,870.00	7,846.39	7,677.76	66.09	33.52	61.76	1,376.08	2,624.93	372.53	288.50	84.03	4.433		
9,300.00	7,870.00	7,800.96	7,641.26	65.65	33.55	56.25	1,349.07	2,626.15	427.51	341.69	85.81	4.982		
9,400.00	7,870.00	7,764.00	7,610.33	65.24	33.57	52.01	1,328.89	2,627.50	492.01	404.69	87.32	5.635		
9,500.00	7,870.00	7,732.07	7,582.85	64.85	33.57	48.59	1,312.67	2,628.64	563.71	475.31	88.40	6.377		
9,600.00	7,870.00	7,705.25	7,559.26	64.48	33.57	45.90	1,299.93	2,629.49	640.77	551.54	89.23	7.181		
9,700.00	7,870.00	7,682.48	7,538.88	64.13	33.56	43.77	1,289.82	2,630.06	721.91	632.04	89.86	8.033		
9,800.00	7,870.00	7,670.00	7,527.57	63.80	33.56	42.66	1,284.55	2,630.32	806.22	715.61	90.61	8.898		
9,900.00	7,870.00	7,646.75	7,506.22	63.50	33.55	40.68	1,275.33	2,630.66	892.85	802.12	90.73	9.841		
10,000.00	7,870.00	7,622.00	7,483.15	63.22	33.53	38.73	1,266.41	2,630.83	981.63	890.91	90.72	10.820		
10,100.00	7,870.00	7,622.00	7,483.15	62.96	33.53	38.73	1,266.41	2,630.83	1,071.68	980.42	91.27	11.742		
10,200.00	7,870.00	7,622.00	7,483.15	62.72	33.53	38.73	1,266.41	2,630.83	1,163.36	1,071.73	91.63	12.697		
10,300.00	7,870.00	7,599.27	7,461.62	62.50	33.51	37.06	1,259.10	2,630.86	1,255.62	1,164.14	91.49	13.724		
10,400.00	7,870.00	7,590.63	7,453.36	62.31	33.50	36.45	1,256.56	2,630.85	1,348.99	1,257.42	91.57	14.731		
10,500.00	7,870.00	7,575.00	7,438.33	62.15	33.49	35.39	1,252.30	2,630.81	1,443.16	1,351.63	91.53	15.768		
10,600.00	7,870.00	7,575.00	7,438.33	62.01	33.49	35.39	1,252.30	2,630.81	1,537.79	1,446.13	91.66	16.777		
10,700.00	7,870.00	7,575.00	7,438.33	61.90	33.49	35.39	1,252.30	2,630.81	1,633.05	1,541.30	91.75	17.799		
10,800.00	7,870.00	7,575.00	7,438.33	61.82	33.49	35.39	1,252.30	2,630.81	1,728.86	1,637.04	91.81	18.830		
10,900.00	7,870.00	7,556.18	7,420.08	61.78	33.46	34.18	1,247.72	2,630.70	1,824.72	1,733.03	91.69	19.901		
11,000.00	7,870.00	7,550.63	7,414.67	61.77	33.46	33.84	1,246.47	2,630.65	1,921.11	1,829.42	91.69	20.953		
11,100.00	7,870.00	7,545.48	7,409.64	61.81	33.45	33.53	1,245.36	2,630.59	2,017.79	1,926.11	91.68	22.010		
11,200.00	7,870.00	7,528.00	7,392.51	61.90	33.43	32.50	1,241.88	2,630.35	2,114.89	2,023.31	91.58	23.093		
11,300.00	7,870.00	7,528.00	7,392.51	62.03	33.43	32.50	1,241.88	2,630.35	2,211.96	2,120.36	91.60	24.148		
11,400.00	7,870.00	7,528.00	7,392.51	62.23	33.43	32.50	1,241.88	2,630.35	2,309.28	2,217.67	91.61	25.208		
11,500.00	7,870.00	7,528.00	7,392.51	62.50	33.43	32.50	1,241.88	2,630.35	2,406.81	2,315.20	91.61	26.272		
11,600.00	7,870.00	7,528.00	7,392.51	62.84	33.43	32.50	1,241.88	2,630.35	2,504.55	2,412.94	91.61	27.339		
11,700.00	7,870.00	7,528.00	7,392.51	63.25	33.43	32.50	1,241.88	2,630.35	2,602.45	2,510.85	91.60	28.410		
11,800.00	7,870.00	7,528.00	7,392.51	63.76	33.43	32.50	1,241.88	2,630.35	2,700.51	2,608.91	91.60	29.483		
11,900.00	7,870.00	7,528.00	7,392.51	64.34	33.43	32.50	1,241.88	2,630.35	2,798.70	2,707.12	91.58	30.559		
12,000.00	7,870.00	7,507.66	7,372.48	65.01	33.39	31.39	1,238.37	2,630.01	2,896.70	2,805.20	91.50	31.657		
12,100.00	7,870.00	7,504.19	7,369.05	65.77	33.39	31.20	1,237.82	2,629.94	2,995.01	2,903.53	91.48	32.738		
12,200.00	7,870.00	7,500.89	7,365.79	66.61	33.38	31.03	1,237.31	2,629.89	3,093.42	3,001.95	91.46	33.821		
12,300.00	7,870.00	7,481.00	7,346.11	67.51	33.35	30.02	1,234.52	2,629.51	3,192.12	3,100.72	91.40	34.925		
12,400.00	7,870.00	7,481.00	7,346.11	68.49	33.35	30.02	1,234.52	2,629.51	3,290.62	3,199.22	91.39	36.005		
12,500.00	7,870.00	7,481.00	7,346.11	69.52	33.35	30.02	1,234.52	2,629.51	3,389.20	3,297.81	91.39	37.086		
12,600.00	7,870.00	7,481.00	7,346.11	70.61	33.35	30.02	1,234.52	2,629.51	3,487.87	3,396.49	91.38	38.169		
12,700.00	7,870.00	7,481.00	7,346.11	71.75	33.35	30.02	1,234.52	2,629.51	3,586.60	3,495.23	91.37	39.252		
12,800.00	7,870.00	7,481.00	7,346.11	72.93	33.35	30.02	1,234.52	2,629.51	3,685.41	3,594.04	91.37	40.337		
12,900.00	7,870.00	7,481.00	7,346.11	74.14	33.35	30.02	1,234.52	2,629.51	3,784.28	3,692.92	91.36	41.422		
13,000.00	7,870.00	7,481.00	7,346.11	75.39	33.35	30.02	1,234.52	2,629.51	3,883.21	3,791.85	91.35	42.508		
13,100.00	7,870.00	7,481.00	7,346.11	76.67	33.35	30.02	1,234.52	2,629.51	3,982.19	3,890.84	91.35	43.594		
13,200.00	7,870.00	7,481.00	7,346.11	77.98	33.35	30.02	1,234.52	2,629.51	4,081.22	3,989.88	91.34	44.681		
13,300.00	7,870.00	7,481.00	7,346.11	79.31	33.35	30.02	1,234.52	2,629.51	4,180.29	4,088.96	91.34	45.768		
13,400.00	7,870.00	7,481.00	7,346.11	80.67	33.35	30.02	1,234.52	2,629.51	4,279.41	4,188.08	91.33	46.856		
13,500.00	7,870.00	7,481.00	7,346.11	82.04	33.35	30.02	1,234.52	2,629.51	4,378.57	4,287.25	91.33	47.944		
13,600.00	7,870.00	7,481.00	7,346.11	83.43	33.35	30.02	1,234.52	2,629.51	4,477.77	4,386.45	91.32	49.032		
13,700.00	7,870.00	7,481.00	7,346.11	84.84	33.35	30.02	1,234.52	2,629.51	4,577.00	4,485.68	91.32	50.120		
13,800.00	7,870.00	7,481.00	7,346.11	86.27	33.35	30.02	1,234.52	2,629.51	4,676.27	4,584.95	91.32	51.208		
13,900.00	7,870.00	7,481.00	7,346.11	87.71	33.35	30.02	1,234.52	2,629.51	4,775.56	4,684.24	91.32	52.296		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,870.00	7,481.00	7,346.11	89.16	33.35	30.02	1,234.52	2,629.51	4,874.89	4,783.57	91.32	53.384		
14,100.00	7,870.00	7,481.00	7,346.11	90.63	33.35	30.02	1,234.52	2,629.51	4,974.24	4,882.92	91.32	54.473		
14,200.00	7,870.00	7,481.00	7,346.11	92.10	33.35	30.02	1,234.52	2,629.51	5,073.61	4,982.30	91.32	55.560		
14,300.00	7,870.00	7,459.65	7,324.89	93.59	33.31	29.00	1,232.09	2,629.18	5,172.65	5,081.36	91.29	56.660		
14,400.00	7,870.00	7,458.47	7,323.73	95.09	33.30	28.94	1,231.97	2,629.16	5,272.03	5,180.74	91.29	57.748		
14,500.00	7,870.00	7,457.34	7,322.60	96.60	33.30	28.89	1,231.86	2,629.15	5,371.44	5,280.14	91.30	58.835		
14,600.00	7,870.00	7,456.24	7,321.50	98.11	33.30	28.84	1,231.76	2,629.14	5,470.86	5,379.56	91.30	59.922		
14,700.00	7,870.00	7,455.17	7,320.44	99.64	33.30	28.79	1,231.66	2,629.13	5,570.30	5,479.00	91.30	61.009		
14,800.00	7,870.00	7,454.15	7,319.42	101.17	33.29	28.74	1,231.57	2,629.12	5,669.76	5,578.46	91.31	62.095		
14,900.00	7,870.00	7,433.00	7,298.33	102.71	33.25	27.79	1,229.96	2,628.98	5,769.56	5,678.27	91.29	63.197		
15,000.00	7,870.00	7,433.00	7,298.33	104.26	33.25	27.79	1,229.96	2,628.98	5,869.03	5,777.72	91.30	64.281		
15,100.00	7,870.00	7,433.00	7,298.33	105.82	33.25	27.79	1,229.96	2,628.98	5,968.51	5,877.20	91.31	65.365		
15,200.00	7,870.00	7,433.00	7,298.33	107.38	33.25	27.79	1,229.96	2,628.98	6,068.00	5,976.68	91.32	66.448		
15,300.00	7,870.00	7,433.00	7,298.33	108.95	33.25	27.79	1,229.96	2,628.98	6,167.52	6,076.19	91.33	67.531		
15,400.00	7,870.00	7,433.00	7,298.33	110.52	33.25	27.79	1,229.96	2,628.98	6,267.05	6,175.71	91.34	68.613		
15,500.00	7,870.00	7,433.00	7,298.33	112.10	33.25	27.79	1,229.96	2,628.98	6,366.59	6,275.24	91.35	69.694		
15,600.00	7,870.00	7,433.00	7,298.33	113.69	33.25	27.79	1,229.96	2,628.98	6,466.15	6,374.79	91.36	70.775		
15,700.00	7,870.00	7,433.00	7,298.33	115.28	33.25	27.79	1,229.96	2,628.98	6,565.72	6,474.35	91.37	71.855		
15,800.00	7,870.00	7,433.00	7,298.33	116.87	33.25	27.79	1,229.96	2,628.98	6,665.31	6,573.92	91.39	72.935		
15,900.00	7,870.00	7,433.00	7,298.33	118.47	33.25	27.79	1,229.96	2,628.98	6,764.91	6,673.51	91.40	74.014		
16,000.00	7,870.00	7,433.00	7,298.33	120.07	33.25	27.79	1,229.96	2,628.98	6,864.52	6,773.10	91.41	75.092		
16,100.00	7,870.00	7,433.00	7,298.33	121.68	33.25	27.79	1,229.96	2,628.98	6,964.14	6,872.71	91.43	76.170		
16,200.00	7,870.00	7,433.00	7,298.33	123.30	33.25	27.79	1,229.96	2,628.98	7,063.77	6,972.32	91.44	77.247		
16,300.00	7,870.00	7,433.00	7,298.33	124.91	33.25	27.79	1,229.96	2,628.98	7,163.41	7,071.95	91.46	78.323		
16,400.00	7,870.00	7,433.00	7,298.33	126.53	33.25	27.79	1,229.96	2,628.98	7,263.06	7,171.58	91.48	79.398		
16,500.00	7,870.00	7,433.00	7,298.33	128.16	33.25	27.79	1,229.96	2,628.98	7,362.72	7,271.23	91.49	80.473		
16,600.00	7,870.00	7,433.00	7,298.33	129.79	33.25	27.79	1,229.96	2,628.98	7,462.39	7,370.88	91.51	81.546		
16,700.00	7,870.00	7,433.00	7,298.33	131.42	33.25	27.79	1,229.96	2,628.98	7,562.07	7,470.54	91.53	82.619		
16,800.00	7,870.00	7,433.00	7,298.33	133.05	33.25	27.79	1,229.96	2,628.98	7,661.75	7,570.21	91.55	83.691		
16,900.00	7,870.00	7,433.00	7,298.33	134.69	33.25	27.79	1,229.96	2,628.98	7,761.45	7,669.88	91.57	84.762		
17,000.00	7,870.00	7,433.00	7,298.33	136.33	33.25	27.79	1,229.96	2,628.98	7,861.15	7,769.56	91.59	85.832		
17,100.00	7,870.00	7,433.00	7,298.33	137.97	33.25	27.79	1,229.96	2,628.98	7,960.86	7,869.25	91.61	86.901		
17,200.00	7,870.00	7,433.00	7,298.33	139.62	33.25	27.79	1,229.96	2,628.98	8,060.58	7,968.95	91.63	87.969		
17,300.00	7,870.00	7,433.00	7,298.33	141.27	33.25	27.79	1,229.96	2,628.98	8,160.30	8,068.65	91.65	89.037		
17,400.00	7,870.00	7,433.00	7,298.33	142.92	33.25	27.79	1,229.96	2,628.98	8,260.03	8,168.36	91.67	90.103		
17,500.00	7,870.00	7,433.00	7,298.33	144.58	33.25	27.79	1,229.96	2,628.98	8,359.77	8,268.07	91.70	91.168		
17,600.00	7,870.00	7,433.00	7,298.33	146.23	33.25	27.79	1,229.96	2,628.98	8,459.51	8,367.79	91.72	92.232		
17,700.00	7,870.00	7,433.00	7,298.33	147.89	33.25	27.79	1,229.96	2,628.98	8,559.26	8,467.52	91.74	93.295		
17,800.00	7,870.00	7,433.00	7,298.33	149.56	33.25	27.79	1,229.96	2,628.98	8,659.02	8,567.25	91.77	94.358		
17,900.00	7,870.00	7,433.00	7,298.33	151.22	33.25	27.79	1,229.96	2,628.98	8,758.78	8,666.98	91.79	95.419		
18,000.00	7,870.00	7,433.00	7,298.33	152.89	33.25	27.79	1,229.96	2,628.98	8,858.54	8,766.73	91.82	96.478		
18,100.00	7,870.00	7,433.00	7,298.33	154.55	33.25	27.79	1,229.96	2,628.98	8,958.32	8,866.47	91.85	97.537		
18,200.00	7,870.00	7,433.00	7,298.33	156.22	33.25	27.79	1,229.96	2,628.98	9,058.09	8,966.22	91.87	98.595		
18,300.00	7,870.00	7,433.00	7,298.33	157.90	33.25	27.79	1,229.96	2,628.98	9,157.87	9,065.97	91.90	99.651		
18,400.00	7,870.00	7,433.00	7,298.33	159.57	33.25	27.79	1,229.96	2,628.98	9,257.66	9,165.73	91.93	100.707		
18,500.00	7,870.00	7,433.00	7,298.33	161.25	33.25	27.79	1,229.96	2,628.98	9,357.45	9,265.49	91.96	101.761		
18,600.00	7,870.00	7,433.00	7,298.33	162.93	33.25	27.79	1,229.96	2,628.98	9,457.24	9,365.26	91.98	102.814		
18,700.00	7,870.00	7,433.00	7,298.33	164.60	33.25	27.79	1,229.96	2,628.98	9,557.04	9,465.03	92.01	103.866		
18,797.52	7,870.00	7,433.00	7,298.33	166.24	33.25	27.79	1,229.96	2,628.98	9,654.37	9,562.33	92.04	104.890		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	58.46	2,112.75	3,442.06	4,038.94					
100.00	100.00	50.55	50.55	0.13	0.09	58.46	2,112.75	3,442.10	4,038.79	4,038.57	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.46	2,112.81	3,442.61	4,039.41	4,038.56	0.85	4,740.070		
300.00	300.00	193.93	193.92	0.85	0.61	58.46	2,113.09	3,443.52	4,040.73	4,039.27	1.46	2,771.159		
400.00	400.00	288.31	288.28	1.21	0.94	58.47	2,113.92	3,445.07	4,042.58	4,040.42	2.15	1,876.564		
500.00	500.00	442.67	442.63	1.57	1.50	58.47	2,114.63	3,446.85	4,043.85	4,040.79	3.06	1,320.452		
600.00	600.00	567.78	567.74	1.93	1.92	58.47	2,114.44	3,447.00	4,043.85	4,040.00	3.85	1,050.449		
700.00	700.00	679.31	679.27	2.29	2.30	58.47	2,114.68	3,446.57	4,043.64	4,039.05	4.59	881.876		
800.00	800.00	803.77	803.72	2.64	2.72	58.46	2,114.68	3,445.43	4,042.86	4,037.49	5.37	753.136		
900.00	900.00	883.07	883.02	3.00	3.00	58.46	2,114.54	3,444.67	4,041.96	4,035.96	6.00	673.609		
1,000.00	1,000.00	978.42	978.37	3.36	3.33	58.45	2,114.86	3,444.14	4,041.66	4,034.97	6.69	604.045		
1,100.00	1,099.98	1,114.06	1,113.99	3.72	3.81	3.82	2,115.30	3,442.50	4,039.06	4,031.55	7.52	537.136		
1,200.00	1,199.84	1,852.99	1,848.68	4.07	6.49	4.00	2,075.83	3,394.43	4,031.00	4,020.62	10.38	388.192		
1,300.00	1,299.45	1,970.45	1,963.82	4.43	6.96	4.20	2,056.00	3,382.31	4,004.78	3,993.62	11.15	359.077		
1,400.00	1,398.70	2,099.68	2,090.09	4.80	7.50	4.50	2,030.92	3,371.18	3,975.54	3,963.57	11.97	332.176		
1,500.00	1,497.47	2,171.88	2,160.41	5.18	7.81	4.73	2,015.68	3,365.14	3,942.25	3,929.65	12.60	312.966		
1,600.00	1,595.62	2,260.77	2,247.11	5.57	8.20	5.00	1,997.47	3,357.95	3,906.25	3,892.97	13.29	294.023		
1,700.00	1,693.06	2,341.93	2,326.24	6.00	8.57	5.29	1,980.59	3,351.44	3,867.01	3,853.06	13.95	277.184		
1,800.00	1,789.64	2,387.00	2,370.25	6.45	8.77	5.49	1,971.59	3,347.82	3,825.19	3,810.70	14.49	263.963		
1,900.00	1,885.27	2,463.12	2,444.74	6.94	9.11	5.78	1,957.09	3,341.93	3,780.83	3,765.69	15.14	249.675		
2,000.00	1,979.82	2,519.26	2,499.80	7.47	9.36	6.04	1,946.94	3,337.90	3,734.24	3,718.51	15.73	237.466		
2,100.00	2,073.17	2,573.00	2,552.61	8.05	9.60	6.31	1,937.64	3,334.29	3,685.37	3,669.07	16.30	226.082		
2,200.00	2,165.21	2,627.92	2,606.67	8.67	9.84	6.59	1,928.62	3,330.84	3,634.27	3,617.38	16.88	215.281		
2,300.00	2,255.84	2,680.53	2,658.56	9.35	10.07	6.90	1,920.52	3,327.76	3,580.98	3,563.53	17.46	205.137		
2,400.00	2,344.94	2,732.61	2,710.03	10.09	10.29	7.21	1,913.00	3,324.93	3,525.55	3,507.51	18.03	195.509		
2,500.00	2,432.39	2,831.65	2,808.02	10.89	10.71	7.70	1,899.81	3,319.42	3,467.73	3,448.96	18.76	184.818		
2,519.29	2,449.07	2,862.51	2,838.56	11.05	10.85	7.84	1,895.85	3,317.33	3,456.13	3,437.18	18.94	182.433		
2,600.00	2,518.69	2,972.21	2,946.97	11.74	11.32	8.18	1,881.40	3,308.82	3,406.64	3,387.02	19.62	173.668		
2,700.00	2,604.95	3,048.52	3,022.24	12.62	11.66	8.45	1,870.27	3,303.02	3,345.02	3,324.75	20.27	165.028		
2,800.00	2,691.22	3,106.82	3,079.74	13.52	11.91	8.67	1,861.53	3,298.98	3,283.75	3,262.87	20.88	157.266		
2,900.00	2,777.48	3,158.71	3,130.97	14.43	12.14	8.87	1,853.96	3,295.63	3,223.04	3,201.56	21.48	150.039		
3,000.00	2,863.75	3,206.85	3,178.58	15.35	12.35	9.05	1,847.51	3,292.73	3,163.13	3,141.04	22.08	143.250		
3,100.00	2,950.01	3,431.56	3,400.47	16.28	13.34	9.90	1,817.44	3,274.22	3,101.58	3,078.42	23.16	133.929		
3,200.00	3,036.27	3,489.78	3,457.83	17.22	13.60	10.13	1,809.60	3,268.17	3,038.73	3,014.94	23.79	127.708		
3,300.00	3,122.54	3,607.54	3,573.85	18.17	14.13	10.60	1,793.62	3,255.79	2,975.89	2,951.32	24.57	121.095		
3,400.00	3,208.80	3,681.41	3,646.52	19.13	14.46	10.92	1,783.25	3,247.52	2,912.39	2,887.13	25.26	115.290		
3,500.00	3,295.07	3,805.18	3,768.01	20.09	15.04	11.51	1,764.36	3,233.45	2,848.45	2,822.39	26.06	109.310		
3,600.00	3,381.33	3,868.05	3,829.58	21.05	15.34	11.85	1,753.69	3,226.46	2,784.09	2,757.34	26.75	104.083		
3,700.00	3,467.59	3,920.18	3,880.62	22.02	15.59	12.16	1,744.63	3,220.99	2,720.13	2,692.70	27.43	99.165		
3,800.00	3,553.86	3,966.98	3,926.54	22.99	15.81	12.44	1,736.77	3,216.48	2,657.06	2,628.94	28.12	94.505		
3,900.00	3,640.12	4,038.22	3,996.49	23.97	16.15	12.88	1,724.86	3,210.20	2,594.67	2,565.81	28.86	89.901		
4,000.00	3,726.38	4,098.06	4,055.18	24.95	16.43	13.29	1,714.27	3,205.25	2,532.49	2,502.88	29.60	85.550		
4,100.00	3,812.65	4,141.54	4,097.89	25.93	16.64	13.60	1,706.72	3,202.15	2,471.34	2,441.01	30.33	81.480		
4,200.00	3,898.91	4,215.43	4,170.62	26.91	16.98	14.13	1,694.49	3,197.53	2,411.20	2,380.07	31.13	77.467		
4,300.00	3,985.18	4,399.73	4,351.62	27.90	17.85	15.50	1,664.45	3,180.44	2,349.11	2,317.04	32.07	73.256		
4,400.00	4,071.44	4,479.46	4,429.53	28.88	18.24	16.16	1,650.05	3,171.52	2,285.35	2,252.46	32.89	69.494		
4,500.00	4,157.70	4,539.40	4,488.16	29.87	18.53	16.68	1,639.48	3,164.95	2,222.08	2,188.38	33.70	65.930		
4,600.00	4,243.97	4,641.88	4,588.27	30.86	19.04	17.64	1,620.64	3,153.79	2,158.85	2,124.27	34.58	62.430		
4,700.00	4,330.23	4,694.37	4,639.48	31.85	19.30	18.18	1,610.61	3,148.14	2,095.70	2,060.25	35.45	59.121		
4,800.00	4,416.49	4,756.97	4,700.74	32.84	19.61	18.82	1,599.43	3,141.72	2,033.48	1,997.13	36.34	55.953		
4,900.00	4,502.76	4,843.63	4,785.66	33.84	20.03	19.72	1,585.02	3,132.24	1,971.41	1,934.14	37.26	52.907		
5,000.00	4,589.02	4,929.51	4,869.60	34.83	20.45	20.72	1,569.53	3,122.78	1,909.16	1,870.94	38.22	49.955		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,675.29	4,998.41	4,936.79	35.82	20.80	21.60	1,556.16	3,115.46	1,847.15	1,807.93	39.22	47.094		
5,200.00	4,761.55	5,063.08	4,999.87	36.82	21.13	22.49	1,543.50	3,108.84	1,785.77	1,745.50	40.27	44.346		
5,300.00	4,847.81	5,126.47	5,061.74	37.82	21.45	23.40	1,531.15	3,102.76	1,725.28	1,683.92	41.36	41.711		
5,400.00	4,934.08	5,191.42	5,125.23	38.81	21.77	24.38	1,518.77	3,096.84	1,665.71	1,623.21	42.50	39.191		
5,500.00	5,020.34	5,253.93	5,186.42	39.81	22.08	25.37	1,507.15	3,091.49	1,607.15	1,563.46	43.69	36.782		
5,600.00	5,106.60	5,316.23	5,247.46	40.81	22.38	26.40	1,495.68	3,086.67	1,549.81	1,504.86	44.94	34.484		
5,700.00	5,192.87	5,379.22	5,309.22	41.81	22.68	27.51	1,484.04	3,082.37	1,493.76	1,447.50	46.26	32.290		
5,800.00	5,279.13	5,466.39	5,394.67	42.81	23.10	29.16	1,467.77	3,076.69	1,438.64	1,390.97	47.67	30.177		
5,900.00	5,365.40	5,535.30	5,462.19	43.81	23.44	30.54	1,454.89	3,071.83	1,383.94	1,334.78	49.16	28.154		
6,000.00	5,451.66	5,601.03	5,526.69	44.81	23.75	31.93	1,442.93	3,067.82	1,330.89	1,280.17	50.72	26.242		
6,100.00	5,537.92	5,680.32	5,604.60	45.81	24.12	33.68	1,428.97	3,063.07	1,279.00	1,226.63	52.38	24.420		
6,200.00	5,624.19	5,759.98	5,682.95	46.81	24.50	35.54	1,415.49	3,058.08	1,228.07	1,173.94	54.13	22.687		
6,300.00	5,710.45	5,841.04	5,801.86	47.81	25.08	38.62	1,394.97	3,048.34	1,177.04	1,121.03	56.02	21.012		
6,400.00	5,796.72	5,963.97	5,883.03	48.81	25.49	40.95	1,380.26	3,039.89	1,125.68	1,067.64	58.04	19.394		
6,500.00	5,882.98	6,025.14	5,942.96	49.81	25.78	42.78	1,369.62	3,033.76	1,076.03	1,015.84	60.19	17.877		
6,600.00	5,969.24	6,088.94	6,005.64	50.82	26.08	44.76	1,359.18	3,028.12	1,029.07	966.62	62.45	16.478		
6,700.00	6,055.51	6,156.81	6,072.52	51.82	26.41	46.94	1,348.82	3,022.97	984.96	920.14	64.82	15.195		
6,800.00	6,141.77	6,249.74	6,164.12	52.82	26.83	50.11	1,335.10	3,015.52	942.69	875.34	67.34	13.999		
6,900.00	6,228.03	6,319.14	6,232.46	53.83	27.16	52.66	1,324.51	3,009.68	902.64	832.66	69.98	12.899		
7,000.00	6,314.30	6,388.13	6,300.41	54.83	27.47	55.34	1,313.81	3,004.39	866.07	793.35	72.71	11.911		
7,100.00	6,400.56	6,458.54	6,369.96	55.83	27.79	58.14	1,303.81	2,999.96	833.42	757.95	75.47	11.043		
7,200.00	6,486.83	6,531.15	6,441.86	56.84	28.10	61.10	1,294.33	2,996.36	804.87	726.65	78.21	10.291		
7,300.00	6,573.09	6,608.35	6,518.47	57.84	28.42	64.30	1,285.31	2,993.50	780.40	699.50	80.89	9.647		
7,400.00	6,659.35	6,684.81	6,594.51	58.84	28.72	67.49	1,277.45	2,991.64	760.07	676.63	83.44	9.109		
7,500.00	6,745.62	6,766.92	6,676.27	59.85	29.03	70.95	1,269.93	2,990.69	744.00	658.15	85.85	8.666		
7,600.00	6,831.88	6,866.55	6,775.62	60.85	29.39	75.16	1,262.65	2,989.82	731.19	643.04	88.15	8.295		
7,700.00	6,918.14	6,964.58	6,873.55	61.86	29.72	79.30	1,258.54	2,987.96	719.83	629.67	90.17	7.983		
7,800.00	7,004.41	7,054.22	6,963.16	62.86	30.01	83.04	1,256.80	2,986.90	711.47	619.58	91.89	7.742		
7,900.00	7,090.67	7,146.12	7,055.05	63.87	30.30	86.88	1,255.90	2,985.90	706.32	612.97	93.35	7.566		
8,000.00	7,176.94	7,451.59	7,353.17	64.87	30.85	97.53	1,309.71	2,983.54	694.23	603.67	90.56	7.666		
8,027.52	7,200.68	7,592.30	7,477.36	65.15	30.89	100.90	1,375.37	2,984.20	685.44	600.01	85.43	8.023		
8,050.00	7,220.18	7,730.13	7,583.58	65.37	30.83	99.60	1,462.72	2,981.87	673.88	595.84	78.03	8.636		
8,100.00	7,264.25	7,845.86	7,656.25	65.85	30.73	90.04	1,552.64	2,983.42	639.39	567.04	72.35	8.837		
8,150.00	7,308.99	7,913.16	7,692.36	66.28	30.66	77.09	1,609.40	2,984.70	599.29	529.73	69.57	8.615		
8,200.00	7,354.07	8,040.47	7,743.82	66.67	30.56	51.90	1,725.46	2,988.71	554.88	494.63	60.25	9.209		
8,250.00	7,399.14	8,068.22	7,751.30	67.02	30.54	21.88	1,752.16	2,989.66	506.84	447.55	59.29	8.548		
8,300.00	7,443.85	8,079.54	7,753.99	67.32	30.54	-12.24	1,763.15	2,990.10	458.22	398.74	59.48	7.703		
8,350.00	7,487.88	8,079.93	7,754.08	67.56	30.54	-40.89	1,763.53	2,990.11	409.70	349.21	60.50	6.772		
8,400.00	7,530.87	8,073.15	7,752.50	67.75	30.54	-60.48	1,756.94	2,989.84	361.82	299.69	62.13	5.824		
8,450.00	7,572.51	8,061.43	7,749.59	67.90	30.55	-72.97	1,745.60	2,989.41	315.06	250.78	64.28	4.901		
8,500.00	7,612.48	8,047.41	7,745.80	68.00	30.56	-81.01	1,732.11	2,988.92	270.01	203.32	66.69	4.049		
8,550.00	7,650.47	8,027.14	7,739.77	68.05	30.57	-84.05	1,712.77	2,988.32	227.51	157.24	70.27	3.238		
8,600.00	7,686.20	8,006.21	7,732.72	68.06	30.59	-84.54	1,693.07	2,987.73	188.73	114.84	73.89	2.554		
8,650.00	7,719.39	7,984.56	7,724.56	68.03	30.60	-82.54	1,673.03	2,987.13	155.95	79.20	76.76	2.032		
8,700.00	7,749.79	7,961.97	7,715.20	67.97	30.62	-77.98	1,652.49	2,986.41	132.85	55.99	76.86	1.729 SF		
8,750.00	7,777.17	7,939.47	7,705.07	67.87	30.64	-71.36	1,632.41	2,985.56	123.96	52.35	71.61	1.731 ES		
8,751.94	7,778.17	7,938.63	7,704.67	67.87	30.64	-71.07	1,631.67	2,985.53	123.95	52.64	71.31	1.738 CC		
8,800.00	7,801.32	7,917.11	7,694.32	67.74	30.66	-63.11	1,612.82	2,984.81	131.29	67.64	63.65	2.063		
8,850.00	7,822.06	7,893.64	7,682.37	67.59	30.68	-53.61	1,592.63	2,984.22	151.46	92.81	58.66	2.582		
8,900.00	7,839.23	7,868.49	7,668.91	67.41	30.71	-43.89	1,571.40	2,983.74	179.10	121.75	57.34	3.123		
8,950.00	7,852.69	7,842.33	7,654.23	67.22	30.73	-35.17	1,549.74	2,983.37	210.28	152.20	58.07	3.621		
9,000.00	7,862.35	7,815.12	7,638.26	67.00	30.75	-27.87	1,527.72	2,982.96	242.75	183.14	59.61	4.072		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,787.95	7,621.61	66.78	30.78	-22.05	1,506.26	2,982.50	275.29	213.77	61.53	4.475		
9,098.65	7,870.00	7,761.61	7,604.75	66.55	30.80	-17.54	1,486.03	2,982.09	306.47	242.97	63.50	4.826		
9,100.00	7,870.00	7,760.88	7,604.27	66.55	30.81	-17.50	1,485.47	2,982.08	307.33	243.77	63.56	4.836		
9,200.00	7,870.00	7,715.84	7,573.56	66.09	30.84	-15.53	1,452.54	2,981.99	374.09	306.04	68.05	5.497		
9,300.00	7,870.00	7,677.05	7,545.05	65.65	30.86	-14.20	1,426.26	2,982.71	446.76	374.98	71.77	6.225		
9,400.00	7,870.00	7,641.13	7,517.10	65.24	30.88	-13.10	1,403.72	2,983.35	523.87	449.26	74.61	7.021		
9,500.00	7,870.00	7,614.00	7,495.26	64.85	30.89	-12.36	1,387.64	2,983.84	604.22	527.01	77.21	7.826		
9,600.00	7,870.00	7,578.46	7,465.75	64.48	30.89	-11.49	1,367.84	2,984.39	687.02	608.34	78.68	8.732		
9,700.00	7,870.00	7,552.82	7,443.86	64.13	30.89	-10.89	1,354.50	2,984.63	772.04	691.79	80.25	9.621		
9,800.00	7,870.00	7,530.26	7,424.19	63.80	30.89	-10.37	1,343.45	2,984.56	858.88	777.30	81.58	10.529		
9,900.00	7,870.00	7,519.00	7,414.24	63.50	30.88	-10.12	1,338.19	2,984.43	947.34	864.37	82.97	11.418		
10,000.00	7,870.00	7,489.79	7,388.06	63.22	30.87	-9.48	1,325.23	2,984.00	1,036.82	953.24	83.58	12.405		
10,100.00	7,870.00	7,472.00	7,371.90	62.96	30.87	-9.13	1,317.80	2,983.76	1,127.45	1,043.08	84.36	13.364		
10,200.00	7,870.00	7,455.08	7,356.38	62.72	30.85	-8.81	1,311.06	2,983.57	1,218.96	1,133.94	85.02	14.338		
10,300.00	7,870.00	7,439.59	7,342.06	62.50	30.84	-8.55	1,305.15	2,983.46	1,311.23	1,225.65	85.59	15.321		
10,400.00	7,870.00	7,425.00	7,328.49	62.31	30.84	-8.32	1,299.82	2,983.40	1,404.17	1,318.09	86.08	16.312		
10,500.00	7,870.00	7,425.00	7,328.49	62.15	30.84	-8.32	1,299.82	2,983.40	1,497.83	1,411.13	86.71	17.275		
10,600.00	7,870.00	7,404.16	7,308.91	62.01	30.82	-8.01	1,292.67	2,983.40	1,591.81	1,504.85	86.96	18.305		
10,700.00	7,870.00	7,394.86	7,300.11	61.90	30.81	-7.88	1,289.68	2,983.43	1,686.40	1,599.08	87.32	19.312		
10,800.00	7,870.00	7,378.00	7,284.04	61.82	30.79	-7.67	1,284.56	2,983.51	1,781.49	1,693.94	87.55	20.348		
10,900.00	7,870.00	7,378.00	7,284.04	61.78	30.79	-7.67	1,284.56	2,983.51	1,876.83	1,788.91	87.92	21.347		
11,000.00	7,870.00	7,378.00	7,284.04	61.77	30.79	-7.67	1,284.56	2,983.51	1,972.63	1,884.39	88.24	22.356		
11,100.00	7,870.00	7,378.00	7,284.04	61.81	30.79	-7.67	1,284.56	2,983.51	2,068.82	1,980.31	88.51	23.373		
11,200.00	7,870.00	7,355.94	7,262.84	61.90	30.76	-7.40	1,278.45	2,983.66	2,164.93	2,076.33	88.59	24.437		
11,300.00	7,870.00	7,349.42	7,256.55	62.03	30.75	-7.32	1,276.76	2,983.70	2,261.48	2,172.70	88.77	25.475		
11,400.00	7,870.00	7,331.00	7,238.68	62.23	30.73	-7.12	1,272.30	2,983.83	2,358.38	2,269.52	88.86	26.540		
11,500.00	7,870.00	7,331.00	7,238.68	62.50	30.73	-7.12	1,272.30	2,983.83	2,455.26	2,366.21	89.05	27.572		
11,600.00	7,870.00	7,331.00	7,238.68	62.84	30.73	-7.12	1,272.30	2,983.83	2,552.37	2,463.15	89.22	28.608		
11,700.00	7,870.00	7,331.00	7,238.68	63.25	30.73	-7.12	1,272.30	2,983.83	2,649.70	2,560.33	89.37	29.648		
11,800.00	7,870.00	7,331.00	7,238.68	63.76	30.73	-7.12	1,272.30	2,983.83	2,747.22	2,657.72	89.51	30.693		
11,900.00	7,870.00	7,331.00	7,238.68	64.34	30.73	-7.12	1,272.30	2,983.83	2,844.92	2,755.29	89.63	31.740		
12,000.00	7,870.00	7,331.00	7,238.68	65.01	30.73	-7.12	1,272.30	2,983.83	2,942.77	2,853.02	89.74	32.791		
12,100.00	7,870.00	7,331.00	7,238.68	65.77	30.73	-7.12	1,272.30	2,983.83	3,040.75	2,950.91	89.85	33.844		
12,200.00	7,870.00	7,310.60	7,218.75	66.61	30.69	-6.91	1,267.95	2,984.01	3,138.44	3,048.57	89.87	34.923		
12,300.00	7,870.00	7,307.68	7,215.89	67.51	30.69	-6.88	1,267.39	2,984.05	3,236.54	3,146.59	89.95	35.982		
12,400.00	7,870.00	7,304.91	7,213.17	68.49	30.69	-6.85	1,266.87	2,984.08	3,334.74	3,244.71	90.03	37.042		
12,500.00	7,870.00	7,284.00	7,192.55	69.52	30.65	-6.66	1,263.37	2,984.34	3,433.37	3,343.32	90.04	38.130		
12,600.00	7,870.00	7,284.00	7,192.55	70.61	30.65	-6.66	1,263.37	2,984.34	3,531.65	3,441.53	90.12	39.188		
12,700.00	7,870.00	7,284.00	7,192.55	71.75	30.65	-6.66	1,263.37	2,984.34	3,630.02	3,539.83	90.19	40.247		
12,800.00	7,870.00	7,284.00	7,192.55	72.93	30.65	-6.66	1,263.37	2,984.34	3,728.48	3,638.22	90.26	41.308		
12,900.00	7,870.00	7,284.00	7,192.55	74.14	30.65	-6.66	1,263.37	2,984.34	3,827.03	3,736.70	90.33	42.369		
13,000.00	7,870.00	7,284.00	7,192.55	75.39	30.65	-6.66	1,263.37	2,984.34	3,925.64	3,835.26	90.39	43.432		
13,100.00	7,870.00	7,284.00	7,192.55	76.67	30.65	-6.66	1,263.37	2,984.34	4,024.33	3,933.88	90.44	44.496		
13,200.00	7,870.00	7,284.00	7,192.55	77.98	30.65	-6.66	1,263.37	2,984.34	4,123.07	4,032.58	90.50	45.561		
13,300.00	7,870.00	7,284.00	7,192.55	79.31	30.65	-6.66	1,263.37	2,984.34	4,221.88	4,131.33	90.55	46.626		
13,400.00	7,870.00	7,284.00	7,192.55	80.67	30.65	-6.66	1,263.37	2,984.34	4,320.74	4,230.14	90.60	47.692		
13,500.00	7,870.00	7,284.00	7,192.55	82.04	30.65	-6.66	1,263.37	2,984.34	4,419.65	4,329.01	90.64	48.758		
13,600.00	7,870.00	7,284.00	7,192.55	83.43	30.65	-6.66	1,263.37	2,984.34	4,518.61	4,427.92	90.69	49.825		
13,700.00	7,870.00	7,284.00	7,192.55	84.84	30.65	-6.66	1,263.37	2,984.34	4,617.62	4,526.88	90.73	50.892		
13,800.00	7,870.00	7,284.00	7,192.55	86.27	30.65	-6.66	1,263.37	2,984.34	4,716.66	4,625.89	90.77	51.960		
13,900.00	7,870.00	7,284.00	7,192.55	87.71	30.65	-6.66	1,263.37	2,984.34	4,815.75	4,724.93	90.82	53.028		
14,000.00	7,870.00	7,284.00	7,192.55	89.16	30.65	-6.66	1,263.37	2,984.34	4,914.87	4,824.02	90.86	54.096		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,100.00	7,870.00	7,284.00	7,192.55	90.63	30.65	-6.66	1,263.37	2,984.34	5,014.03	4,923.14	90.89	55.164		
14,200.00	7,870.00	7,284.00	7,192.55	92.10	30.65	-6.66	1,263.37	2,984.34	5,113.22	5,022.29	90.93	56.232		
14,300.00	7,870.00	7,284.00	7,192.55	93.59	30.65	-6.66	1,263.37	2,984.34	5,212.44	5,121.48	90.97	57.300		
14,400.00	7,870.00	7,284.00	7,192.55	95.09	30.65	-6.66	1,263.37	2,984.34	5,311.70	5,220.69	91.00	58.368		
14,500.00	7,870.00	7,284.00	7,192.55	96.60	30.65	-6.66	1,263.37	2,984.34	5,410.97	5,319.94	91.04	59.436		
14,600.00	7,870.00	7,284.00	7,192.55	98.11	30.65	-6.66	1,263.37	2,984.34	5,510.28	5,419.21	91.07	60.504		
14,700.00	7,870.00	7,284.00	7,192.55	99.64	30.65	-6.66	1,263.37	2,984.34	5,609.61	5,518.50	91.11	61.572		
14,800.00	7,870.00	7,284.00	7,192.55	101.17	30.65	-6.66	1,263.37	2,984.34	5,708.96	5,617.82	91.14	62.639		
14,900.00	7,870.00	7,284.00	7,192.55	102.71	30.65	-6.66	1,263.37	2,984.34	5,808.34	5,717.16	91.17	63.706		
15,000.00	7,870.00	7,284.00	7,192.55	104.26	30.65	-6.66	1,263.37	2,984.34	5,907.73	5,816.53	91.21	64.773		
15,100.00	7,870.00	7,284.00	7,192.55	105.82	30.65	-6.66	1,263.37	2,984.34	6,007.15	5,915.91	91.24	65.840		
15,200.00	7,870.00	7,284.00	7,192.55	107.38	30.65	-6.66	1,263.37	2,984.34	6,106.58	6,015.31	91.27	66.906		
15,300.00	7,870.00	7,284.00	7,192.55	108.95	30.65	-6.66	1,263.37	2,984.34	6,206.04	6,114.73	91.30	67.971		
15,400.00	7,870.00	7,284.00	7,192.55	110.52	30.65	-6.66	1,263.37	2,984.34	6,305.51	6,214.17	91.34	69.037		
15,500.00	7,870.00	7,284.00	7,192.55	112.10	30.65	-6.66	1,263.37	2,984.34	6,404.99	6,313.63	91.37	70.102		
15,600.00	7,870.00	7,284.00	7,192.55	113.69	30.65	-6.66	1,263.37	2,984.34	6,504.50	6,413.10	91.40	71.166		
15,700.00	7,870.00	7,284.00	7,192.55	115.28	30.65	-6.66	1,263.37	2,984.34	6,604.02	6,512.59	91.43	72.230		
15,800.00	7,870.00	7,284.00	7,192.55	116.87	30.65	-6.66	1,263.37	2,984.34	6,703.55	6,612.09	91.46	73.293		
15,900.00	7,870.00	7,284.00	7,192.55	118.47	30.65	-6.66	1,263.37	2,984.34	6,803.09	6,711.60	91.49	74.356		
16,000.00	7,870.00	7,284.00	7,192.55	120.07	30.65	-6.66	1,263.37	2,984.34	6,902.65	6,811.13	91.53	75.418		
16,100.00	7,870.00	7,284.00	7,192.55	121.68	30.65	-6.66	1,263.37	2,984.34	7,002.22	6,910.67	91.56	76.479		
16,200.00	7,870.00	7,284.00	7,192.55	123.30	30.65	-6.66	1,263.37	2,984.34	7,101.81	7,010.22	91.59	77.540		
16,300.00	7,870.00	7,284.00	7,192.55	124.91	30.65	-6.66	1,263.37	2,984.34	7,201.40	7,109.78	91.62	78.600		
16,400.00	7,870.00	7,284.00	7,192.55	126.53	30.65	-6.66	1,263.37	2,984.34	7,301.01	7,209.36	91.65	79.660		
16,500.00	7,870.00	7,284.00	7,192.55	128.16	30.65	-6.66	1,263.37	2,984.34	7,400.63	7,308.94	91.68	80.718		
16,600.00	7,870.00	7,284.00	7,192.55	129.79	30.65	-6.66	1,263.37	2,984.34	7,500.25	7,408.54	91.72	81.776		
16,700.00	7,870.00	7,284.00	7,192.55	131.42	30.65	-6.66	1,263.37	2,984.34	7,599.89	7,508.14	91.75	82.834		
16,800.00	7,870.00	7,284.00	7,192.55	133.05	30.65	-6.66	1,263.37	2,984.34	7,699.54	7,607.76	91.78	83.890		
16,900.00	7,870.00	7,284.00	7,192.55	134.69	30.65	-6.66	1,263.37	2,984.34	7,799.19	7,707.38	91.81	84.946		
17,000.00	7,870.00	7,284.00	7,192.55	136.33	30.65	-6.66	1,263.37	2,984.34	7,898.86	7,807.01	91.85	86.001		
17,100.00	7,870.00	7,284.00	7,192.55	137.97	30.65	-6.66	1,263.37	2,984.34	7,998.53	7,906.65	91.88	87.055		
17,200.00	7,870.00	7,284.00	7,192.55	139.62	30.65	-6.66	1,263.37	2,984.34	8,098.21	8,006.30	91.91	88.108		
17,300.00	7,870.00	7,240.16	7,149.03	141.27	30.55	-6.29	1,258.26	2,984.92	8,196.33	8,104.41	91.91	89.176		
17,400.00	7,870.00	7,239.55	7,148.41	142.92	30.54	-6.28	1,258.21	2,984.93	8,295.98	8,204.03	91.95	90.227		
17,500.00	7,870.00	7,238.95	7,147.82	144.58	30.54	-6.28	1,258.16	2,984.94	8,395.64	8,303.66	91.98	91.278		
17,600.00	7,870.00	7,238.36	7,147.23	146.23	30.54	-6.27	1,258.12	2,984.95	8,495.31	8,403.29	92.01	92.327		
17,700.00	7,870.00	7,237.79	7,146.66	147.89	30.54	-6.27	1,258.07	2,984.95	8,594.98	8,502.94	92.05	93.376		
17,800.00	7,870.00	7,237.23	7,146.10	149.56	30.54	-6.26	1,258.03	2,984.96	8,694.66	8,602.58	92.08	94.423		
17,900.00	7,870.00	7,236.68	7,145.55	151.22	30.54	-6.26	1,257.98	2,984.97	8,794.35	8,702.24	92.12	95.470		
18,000.00	7,870.00	7,236.14	7,145.01	152.89	30.54	-6.25	1,257.94	2,984.97	8,894.05	8,801.90	92.15	96.516		
18,100.00	7,870.00	7,235.61	7,144.49	154.55	30.53	-6.25	1,257.90	2,984.98	8,993.75	8,901.56	92.19	97.560		
18,200.00	7,870.00	7,235.09	7,143.97	156.22	30.53	-6.25	1,257.86	2,984.99	9,093.46	9,001.24	92.22	98.604		
18,300.00	7,870.00	7,234.58	7,143.47	157.90	30.53	-6.24	1,257.82	2,984.99	9,193.17	9,100.91	92.26	99.646		
18,400.00	7,870.00	7,234.09	7,142.97	159.57	30.53	-6.24	1,257.79	2,985.00	9,292.89	9,200.60	92.29	100.688		
18,500.00	7,870.00	7,233.60	7,142.48	161.25	30.53	-6.23	1,257.75	2,985.00	9,392.62	9,300.29	92.33	101.728		
18,600.00	7,870.00	7,233.13	7,142.01	162.93	30.53	-6.23	1,257.71	2,985.01	9,492.35	9,399.98	92.37	102.768		
18,700.00	7,870.00	7,189.00	7,097.93	164.60	30.42	-5.89	1,255.98	2,985.48	9,593.63	9,501.25	92.37	103.857		
18,797.52	7,870.00	7,189.00	7,097.93	166.24	30.42	-5.89	1,255.98	2,985.48	9,690.86	9,598.45	92.41	104.867		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	174.93	-4,018.46	356.22	4,034.25					
100.00	100.00	52.50	52.50	0.13	0.09	174.93	-4,018.65	356.46	4,034.55	4,034.33	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	174.92	-4,019.43	357.46	4,035.80	4,035.11	0.69	5,875.213		
300.00	300.00	291.62	291.58	0.85	0.81	174.88	-4,020.79	360.29	4,036.91	4,035.25	1.66	2,434.327		
400.00	400.00	409.28	409.23	1.21	1.22	174.86	-4,020.11	361.32	4,036.39	4,033.96	2.43	1,659.277		
500.00	500.00	510.26	510.17	1.57	1.59	174.83	-4,019.33	363.53	4,035.83	4,032.67	3.15	1,280.287		
600.00	600.00	790.31	788.82	1.93	2.64	174.47	-4,009.57	388.07	4,033.51	4,028.95	4.56	884.353		
700.00	700.00	979.17	974.72	2.29	3.43	174.03	-3,995.03	417.87	4,027.33	4,021.62	5.70	706.219		
800.00	800.00	1,078.68	1,072.04	2.64	3.88	173.75	-3,985.77	436.45	4,019.93	4,013.43	6.50	618.096		
900.00	900.00	1,156.80	1,148.30	3.00	4.24	173.52	-3,978.81	451.87	4,013.10	4,005.88	7.22	555.563		
1,000.00	1,000.00	1,297.46	1,285.95	3.36	4.91	173.13	-3,965.93	477.75	4,005.99	3,997.76	8.23	486.694		
1,100.00	1,099.98	1,371.00	1,358.02	3.72	5.25	118.44	-3,959.16	490.78	3,999.69	3,990.76	8.93	448.048		
1,200.00	1,199.84	1,493.62	1,477.85	4.07	5.85	118.25	-3,947.76	514.13	3,995.20	3,985.34	9.86	404.999		
1,300.00	1,299.45	1,623.87	1,604.67	4.43	6.50	118.05	-3,934.28	540.58	3,991.47	3,980.61	10.87	367.367		
1,400.00	1,398.70	1,745.19	1,722.50	4.80	7.13	117.89	-3,920.94	566.19	3,988.91	3,977.07	11.84	336.846		
1,500.00	1,497.47	1,837.61	1,812.54	5.18	7.60	117.82	-3,910.74	584.35	3,987.79	3,975.11	12.68	314.505		
1,510.98	1,508.28	1,847.69	1,822.38	5.22	7.65	117.81	-3,909.64	586.28	3,987.78	3,975.01	12.77	312.205		
1,600.00	1,595.62	1,916.82	1,889.79	5.57	8.00	117.76	-3,902.29	599.74	3,988.65	3,975.19	13.47	296.133		
1,700.00	1,693.06	2,013.63	1,984.15	6.00	8.50	117.69	-3,892.29	618.90	3,991.51	3,977.15	14.37	277.851		
1,800.00	1,789.64	2,116.53	2,084.38	6.45	9.03	117.64	-3,881.56	639.55	3,995.94	3,980.61	15.32	260.780		
1,900.00	1,885.27	2,218.31	2,183.17	6.94	9.57	117.58	-3,870.70	661.49	4,001.91	3,985.60	16.32	245.229		
2,000.00	1,979.82	2,329.46	2,290.98	7.47	10.16	117.55	-3,858.67	685.73	4,009.39	3,991.99	17.40	230.409		
2,100.00	2,073.17	2,458.49	2,416.19	8.05	10.85	117.57	-3,843.92	713.18	4,017.79	3,999.19	18.61	215.929		
2,200.00	2,165.21	2,541.48	2,496.75	8.67	11.30	117.55	-3,834.28	730.64	4,027.68	4,008.06	19.62	205.285		
2,300.00	2,255.84	2,600.00	2,616.24	9.35	9.98	117.61	-3,820.01	757.78	4,039.39	4,020.43	18.96	213.046		
2,400.00	2,344.94	2,787.00	2,734.74	10.09	12.63	117.72	-3,804.34	782.93	4,051.20	4,029.02	22.18	182.628		
2,500.00	2,432.39	2,840.69	2,786.89	10.89	12.91	117.63	-3,797.79	793.82	4,065.58	4,042.41	23.17	175.443		
2,519.29	2,449.07	2,848.95	2,794.93	11.05	12.95	117.60	-3,796.85	795.52	4,068.71	4,045.35	23.36	174.184		
2,600.00	2,518.69	2,891.29	2,836.09	11.74	13.18	117.75	-3,792.36	804.36	4,082.46	4,058.28	24.18	168.828		
2,700.00	2,604.95	3,023.13	2,964.07	12.62	13.89	118.19	-3,777.83	832.47	4,099.25	4,073.62	25.64	159.907		
2,800.00	2,691.22	3,093.89	3,032.64	13.52	14.28	118.42	-3,769.91	848.08	4,116.20	4,089.41	26.79	153.668		
2,900.00	2,777.48	3,144.13	3,081.35	14.43	14.55	118.58	-3,764.80	859.27	4,134.21	4,106.37	27.84	148.524		
3,000.00	2,863.75	3,303.88	3,236.01	15.35	15.43	119.08	-3,748.18	895.62	4,152.17	4,122.67	29.50	140.770		
3,100.00	2,950.01	3,395.64	3,324.83	16.28	15.94	119.36	-3,737.96	916.29	4,169.50	4,138.71	30.79	135.419		
3,200.00	3,036.27	3,498.96	3,424.86	17.22	16.51	119.68	-3,726.50	939.46	4,187.00	4,154.85	32.15	130.245		
3,300.00	3,122.54	3,588.89	3,511.98	18.17	17.01	119.96	-3,716.34	959.32	4,204.39	4,170.96	33.43	125.766		
3,400.00	3,208.80	3,666.16	3,586.94	19.13	17.43	120.20	-3,707.99	976.13	4,222.34	4,187.70	34.64	121.886		
3,500.00	3,295.07	3,749.72	3,668.06	20.09	17.88	120.46	-3,699.19	994.08	4,240.68	4,204.79	35.88	118.182		
3,600.00	3,381.33	3,817.16	3,733.66	21.05	18.24	120.68	-3,692.46	1,008.22	4,259.63	4,222.60	37.03	115.035		
3,700.00	3,467.59	3,889.52	3,804.24	22.02	18.61	120.92	-3,685.70	1,022.70	4,279.29	4,241.10	38.19	112.062		
3,800.00	3,553.86	3,961.51	3,874.70	22.99	18.97	121.17	-3,679.38	1,036.02	4,299.58	4,260.25	39.32	109.336		
3,900.00	3,640.12	4,016.00	3,928.22	23.97	19.24	121.37	-3,674.88	1,045.23	4,320.57	4,280.21	40.36	107.059		
4,000.00	3,726.38	4,078.41	3,989.70	24.95	19.52	121.61	-3,670.26	1,054.84	4,342.48	4,301.08	41.40	104.885		
4,100.00	3,812.65	4,132.38	4,043.05	25.93	19.75	121.83	-3,666.87	1,062.35	4,365.51	4,323.12	42.39	102.983		
4,200.00	3,898.91	4,192.72	4,102.85	26.91	20.00	122.09	-3,663.56	1,069.62	4,389.47	4,346.09	43.39	101.173		
4,300.00	3,985.18	4,287.73	4,197.32	27.90	20.36	122.53	-3,658.73	1,078.53	4,414.03	4,369.53	44.50	99.193		
4,400.00	4,071.44	4,346.39	4,255.77	28.88	20.57	122.81	-3,655.85	1,082.59	4,439.01	4,393.58	45.43	97.712		
4,500.00	4,157.70	4,394.00	4,303.26	29.87	20.73	123.05	-3,653.89	1,085.19	4,465.03	4,418.73	46.30	96.434		
4,600.00	4,243.97	4,437.18	4,346.38	30.86	20.87	123.27	-3,652.53	1,087.05	4,492.22	4,445.09	47.13	95.315		
4,700.00	4,330.23	4,488.00	4,397.16	31.85	21.02	123.54	-3,651.58	1,088.65	4,520.74	4,472.76	47.98	94.231		
4,800.00	4,416.49	4,541.38	4,450.53	32.84	21.18	123.82	-3,651.00	1,089.88	4,550.28	4,501.47	48.81	93.225		
4,900.00	4,502.76	4,627.80	4,536.92	33.84	21.43	124.28	-3,650.17	1,091.45	4,580.37	4,530.61	49.76	92.050		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,589.02	4,718.43	4,627.54	34.83	21.69	124.75	-3,649.19	1,093.22	4,610.67	4,559.95	50.72	90.902		
5,100.00	4,675.29	4,803.97	4,713.05	35.82	21.94	125.19	-3,648.31	1,095.11	4,641.32	4,589.65	51.66	89.840		
5,200.00	4,761.55	4,896.64	4,805.69	36.82	22.22	125.66	-3,647.35	1,097.44	4,672.24	4,619.61	52.63	88.775		
5,300.00	4,847.81	4,990.56	4,899.56	37.82	22.50	126.12	-3,646.22	1,099.94	4,703.30	4,649.70	53.60	87.747		
5,400.00	4,934.08	5,078.98	4,987.95	38.81	22.77	126.56	-3,645.14	1,102.20	4,734.64	4,680.10	54.54	86.803		
5,500.00	5,020.34	5,178.84	5,087.78	39.81	23.07	127.05	-3,643.70	1,104.39	4,766.09	4,710.57	55.53	85.836		
5,600.00	5,106.60	5,266.80	5,175.72	40.81	23.33	127.48	-3,642.23	1,105.61	4,797.70	4,741.25	56.45	84.997		
5,700.00	5,192.87	5,338.00	5,246.90	41.81	23.54	127.84	-3,641.09	1,106.12	4,829.73	4,772.44	57.29	84.308		
5,800.00	5,279.13	5,404.29	5,313.19	42.81	23.73	128.17	-3,640.24	1,106.18	4,862.38	4,804.28	58.09	83.700		
5,900.00	5,365.40	5,468.01	5,376.91	43.81	23.90	128.49	-3,639.69	1,105.85	4,895.74	4,836.87	58.87	83.156		
6,000.00	5,451.66	5,534.68	5,443.57	44.81	24.08	128.82	-3,639.40	1,105.34	4,929.78	4,870.13	59.66	82.638		
6,100.00	5,537.92	5,624.92	5,533.81	45.81	24.32	129.27	-3,639.12	1,104.61	4,964.22	4,903.71	60.52	82.030		
6,200.00	5,624.19	5,710.01	5,618.89	46.81	24.54	129.68	-3,638.81	1,103.78	4,998.93	4,937.57	61.36	81.475		
6,300.00	5,710.45	5,804.92	5,713.80	47.81	24.80	130.15	-3,638.35	1,102.63	5,033.84	4,971.62	62.23	80.897		
6,400.00	5,796.72	5,883.27	5,792.14	48.81	25.01	130.52	-3,637.93	1,101.57	5,069.01	5,005.98	63.03	80.426		
6,500.00	5,882.98	5,974.51	5,883.37	49.81	25.25	130.96	-3,637.48	1,100.22	5,104.51	5,040.63	63.87	79.916		
6,600.00	5,969.24	6,062.51	6,001.35	50.82	25.58	131.52	-3,636.53	1,098.79	5,139.97	5,075.14	64.83	79.286		
6,700.00	6,055.51	6,178.86	6,087.69	51.82	25.83	131.91	-3,635.61	1,098.27	5,175.38	5,109.71	65.67	78.814		
6,800.00	6,141.77	6,287.66	6,196.49	52.82	26.15	132.40	-3,634.32	1,098.02	5,210.86	5,144.26	66.60	78.240		
6,900.00	6,228.03	6,396.73	6,305.55	53.83	26.47	132.88	-3,632.49	1,097.61	5,246.20	5,178.67	67.53	77.685		
7,000.00	6,314.30	6,476.89	6,385.68	54.83	26.71	133.24	-3,630.97	1,096.86	5,281.68	5,213.35	68.33	77.295		
7,100.00	6,400.56	6,560.29	6,469.07	55.83	26.95	133.61	-3,629.38	1,095.84	5,317.44	5,248.31	69.14	76.912		
7,200.00	6,486.83	6,652.91	6,561.66	56.84	27.23	134.01	-3,627.61	1,094.85	5,353.42	5,283.44	69.98	76.500		
7,300.00	6,573.09	6,702.04	6,610.78	57.84	27.37	134.22	-3,626.81	1,094.44	5,389.83	5,319.20	70.63	76.306		
7,400.00	6,659.35	6,756.00	6,664.74	58.84	27.53	134.45	-3,626.40	1,093.92	5,427.16	5,355.86	71.30	76.116		
7,500.00	6,745.62	6,835.69	6,744.42	59.85	27.76	134.78	-3,626.08	1,093.10	5,465.05	5,392.98	72.07	75.828		
7,600.00	6,831.88	6,923.28	6,832.01	60.85	28.01	135.15	-3,625.61	1,092.30	5,503.03	5,430.16	72.88	75.511		
7,700.00	6,918.14	7,027.93	6,936.66	61.86	28.33	135.57	-3,625.06	1,091.90	5,541.13	5,467.36	73.77	75.118		
7,800.00	7,004.41	7,099.41	7,008.14	62.86	28.54	135.85	-3,624.66	1,091.89	5,579.32	5,504.81	74.51	74.882		
7,900.00	7,090.67	7,194.29	7,103.02	63.87	28.84	136.22	-3,624.36	1,091.93	5,617.89	5,542.53	75.36	74.548		
8,000.00	7,176.94	7,288.57	7,197.29	64.87	29.13	136.59	-3,623.74	1,091.95	5,656.35	5,580.15	76.20	74.227		
8,027.52	7,200.68	7,311.37	7,220.09	65.15	29.20	136.67	-3,623.59	1,091.92	5,666.97	5,590.55	76.42	74.156		
8,050.00	7,220.18	7,331.75	7,240.47	65.37	29.26	133.13	-3,623.45	1,091.90	5,675.26	5,598.66	76.61	74.084		
8,100.00	7,264.25	7,383.99	7,292.71	65.85	29.43	124.40	-3,623.06	1,091.90	5,690.83	5,613.77	77.06	73.853		
8,150.00	7,308.99	7,432.09	7,340.81	66.28	29.58	114.62	-3,622.68	1,092.00	5,702.33	5,624.84	77.49	73.585		
8,200.00	7,354.07	7,472.19	7,380.90	66.67	29.70	104.23	-3,622.36	1,092.07	5,709.78	5,631.89	77.89	73.303		
8,250.00	7,399.14	7,512.53	7,421.24	67.02	29.83	93.97	-3,622.07	1,092.09	5,713.14	5,634.86	78.29	72.975		
8,300.00	7,443.85	7,563.08	7,471.79	67.32	29.99	84.59	-3,621.71	1,092.14	5,712.37	5,633.64	78.73	72.560		
8,350.00	7,487.88	7,613.77	7,522.48	67.56	30.15	76.51	-3,621.32	1,092.30	5,707.43	5,628.28	79.16	72.104		
8,400.00	7,530.87	7,668.45	7,577.16	67.75	30.32	69.91	-3,620.83	1,092.54	5,698.35	5,618.76	79.59	71.594		
8,450.00	7,572.51	7,712.71	7,621.41	67.90	30.47	64.65	-3,620.36	1,092.77	5,685.21	5,605.25	79.97	71.095		
8,500.00	7,612.48	7,743.89	7,652.60	68.00	30.57	60.57	-3,620.07	1,092.95	5,668.23	5,587.96	80.26	70.620		
8,550.00	7,650.47	7,773.58	7,682.28	68.05	30.66	57.55	-3,619.84	1,093.13	5,647.55	5,567.01	80.54	70.121		
8,600.00	7,686.20	7,802.34	7,711.04	68.06	30.75	55.47	-3,619.67	1,093.31	5,623.33	5,542.53	80.80	69.595		
8,650.00	7,719.39	7,831.05	7,739.76	68.03	30.84	54.24	-3,619.52	1,093.50	5,595.73	5,514.69	81.05	69.042		
8,700.00	7,749.79	7,857.38	7,766.08	67.97	30.93	53.78	-3,619.40	1,093.67	5,564.96	5,483.68	81.27	68.471		
8,750.00	7,777.17	7,881.10	7,789.80	67.87	31.00	54.10	-3,619.32	1,093.82	5,531.22	5,449.74	81.48	67.886		
8,800.00	7,801.32	7,904.26	7,812.96	67.74	31.08	55.26	-3,619.24	1,093.97	5,494.77	5,413.10	81.67	67.280		
8,850.00	7,822.06	7,925.07	7,833.77	67.59	31.14	57.36	-3,619.18	1,094.11	5,455.86	5,374.02	81.85	66.660		
8,900.00	7,839.23	7,942.29	7,850.99	67.41	31.20	60.56	-3,619.13	1,094.23	5,414.78	5,332.78	82.00	66.035		
8,950.00	7,852.69	7,955.78	7,864.48	67.22	31.24	65.13	-3,619.10	1,094.34	5,371.83	5,289.70	82.13	65.406		
9,000.00	7,862.35	7,965.42	7,874.12	67.00	31.27	71.48	-3,619.07	1,094.41	5,327.33	5,245.09	82.24	64.776		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
9,050.00	7,868.14	7,971.14	7,879.84	66.78	31.29	80.05	-3,619.06	1,094.46	5,281.59	5,199.26	82.34	64.147		
9,098.65	7,870.00	7,972.90	7,881.60	66.55	31.30	90.88	-3,619.05	1,094.47	5,236.23	5,153.82	82.41	63.540		
9,100.00	7,870.00	7,972.90	7,881.60	66.55	31.30	90.88	-3,619.05	1,094.47	5,234.96	5,152.55	82.41	63.522		
9,200.00	7,870.00	7,972.63	7,881.33	66.09	31.29	90.87	-3,619.05	1,094.47	5,141.16	5,058.61	82.55	62.281		
9,300.00	7,870.00	7,972.36	7,881.06	65.65	31.29	90.86	-3,619.05	1,094.47	5,047.61	4,964.91	82.69	61.040		
9,400.00	7,870.00	7,972.10	7,880.80	65.24	31.29	90.85	-3,619.05	1,094.46	4,954.30	4,871.45	82.85	59.800		
9,500.00	7,870.00	7,971.83	7,880.53	64.85	31.29	90.84	-3,619.05	1,094.46	4,861.26	4,778.25	83.01	58.561		
9,600.00	7,870.00	7,971.56	7,880.26	64.48	31.29	90.84	-3,619.05	1,094.46	4,768.51	4,685.32	83.19	57.322		
9,700.00	7,870.00	7,971.29	7,879.99	64.13	31.29	90.83	-3,619.05	1,094.46	4,676.05	4,592.68	83.37	56.086		
9,800.00	7,870.00	7,971.03	7,879.72	63.80	31.29	90.82	-3,619.06	1,094.46	4,583.91	4,500.34	83.57	54.850		
9,900.00	7,870.00	7,970.76	7,879.45	63.50	31.29	90.81	-3,619.06	1,094.45	4,492.10	4,408.32	83.78	53.617		
10,000.00	7,870.00	7,970.49	7,879.19	63.22	31.29	90.80	-3,619.06	1,094.45	4,400.66	4,316.65	84.01	52.385		
10,100.00	7,870.00	7,970.22	7,878.92	62.96	31.29	90.79	-3,619.06	1,094.45	4,309.59	4,225.34	84.24	51.156		
10,200.00	7,870.00	7,969.95	7,878.65	62.72	31.29	90.78	-3,619.06	1,094.45	4,218.92	4,134.43	84.50	49.929		
10,300.00	7,870.00	7,969.68	7,878.38	62.50	31.28	90.78	-3,619.06	1,094.45	4,128.69	4,043.92	84.77	48.706		
10,400.00	7,870.00	7,969.41	7,878.11	62.31	31.28	90.77	-3,619.06	1,094.44	4,038.92	3,953.86	85.06	47.486		
10,500.00	7,870.00	7,969.14	7,877.83	62.15	31.28	90.76	-3,619.06	1,094.44	3,949.64	3,864.28	85.36	46.269		
10,600.00	7,870.00	7,968.87	7,877.56	62.01	31.28	90.75	-3,619.06	1,094.44	3,860.88	3,775.20	85.69	45.057		
10,700.00	7,870.00	7,968.59	7,877.29	61.90	31.28	90.74	-3,619.06	1,094.44	3,772.69	3,686.65	86.04	43.850		
10,800.00	7,870.00	7,968.32	7,877.02	61.82	31.28	90.73	-3,619.06	1,094.43	3,685.10	3,598.69	86.41	42.648		
10,900.00	7,870.00	7,968.05	7,876.75	61.78	31.28	90.72	-3,619.06	1,094.43	3,598.16	3,511.36	86.80	41.453		
11,000.00	7,870.00	7,967.78	7,876.47	61.77	31.28	90.72	-3,619.06	1,094.43	3,511.91	3,424.69	87.22	40.264		
11,100.00	7,870.00	7,967.50	7,876.20	61.81	31.28	90.71	-3,619.06	1,094.43	3,426.41	3,338.74	87.67	39.083		
11,200.00	7,870.00	7,967.23	7,875.93	61.90	31.28	90.70	-3,619.07	1,094.43	3,341.72	3,253.57	88.15	37.910		
11,300.00	7,870.00	7,966.96	7,875.65	62.03	31.28	90.69	-3,619.07	1,094.42	3,257.89	3,169.23	88.66	36.747		
11,400.00	7,870.00	7,966.68	7,875.38	62.23	31.28	90.68	-3,619.07	1,094.42	3,175.00	3,085.80	89.20	35.594		
11,500.00	7,870.00	7,966.41	7,875.11	62.50	31.27	90.67	-3,619.07	1,094.42	3,093.12	3,003.34	89.78	34.453		
11,600.00	7,870.00	7,966.13	7,874.83	62.84	31.27	90.66	-3,619.07	1,094.42	3,012.34	2,921.94	90.39	33.326		
11,700.00	7,870.00	7,965.86	7,874.56	63.25	31.27	90.65	-3,619.07	1,094.41	2,932.74	2,841.69	91.04	32.212		
11,800.00	7,870.00	7,965.58	7,874.28	63.76	31.27	90.65	-3,619.07	1,094.41	2,854.42	2,762.68	91.74	31.115		
11,900.00	7,870.00	7,965.31	7,874.00	64.34	31.27	90.64	-3,619.07	1,094.41	2,777.50	2,685.02	92.48	30.035		
12,000.00	7,870.00	7,965.03	7,873.73	65.01	31.27	90.63	-3,619.07	1,094.41	2,702.08	2,608.83	93.26	28.975		
12,100.00	7,870.00	7,964.75	7,873.45	65.77	31.27	90.62	-3,619.07	1,094.41	2,628.31	2,534.23	94.08	27.936		
12,200.00	7,870.00	7,964.48	7,873.17	66.61	31.27	90.61	-3,619.07	1,094.40	2,556.33	2,461.37	94.95	26.922		
12,300.00	7,870.00	7,964.20	7,872.90	67.51	31.27	90.60	-3,619.07	1,094.40	2,486.28	2,390.41	95.87	25.934		
12,400.00	7,870.00	7,963.92	7,872.62	68.49	31.27	90.59	-3,619.07	1,094.40	2,418.34	2,321.50	96.83	24.974		
12,500.00	7,870.00	7,963.64	7,872.34	69.52	31.27	90.58	-3,619.07	1,094.40	2,352.68	2,254.85	97.84	24.046		
12,600.00	7,870.00	7,963.36	7,872.06	70.61	31.26	90.58	-3,619.08	1,094.39	2,289.52	2,190.63	98.89	23.153		
12,700.00	7,870.00	7,963.09	7,871.78	71.75	31.26	90.57	-3,619.08	1,094.39	2,229.05	2,129.08	99.97	22.297		
12,800.00	7,870.00	7,962.81	7,871.50	72.93	31.26	90.56	-3,619.08	1,094.39	2,171.51	2,070.42	101.09	21.482		
12,900.00	7,870.00	7,962.53	7,871.23	74.14	31.26	90.55	-3,619.08	1,094.39	2,117.12	2,014.90	102.23	20.710		
13,000.00	7,870.00	7,962.25	7,870.95	75.39	31.26	90.54	-3,619.08	1,094.39	2,066.15	1,962.77	103.38	19.986		
13,100.00	7,870.00	7,961.97	7,870.66	76.67	31.26	90.53	-3,619.08	1,094.38	2,018.85	1,914.32	104.54	19.313		
13,200.00	7,870.00	7,961.69	7,870.38	77.98	31.26	90.52	-3,619.08	1,094.38	1,975.48	1,869.80	105.68	18.693		
13,300.00	7,870.00	7,961.40	7,870.10	79.31	31.26	90.51	-3,619.08	1,094.38	1,936.31	1,829.51	106.80	18.131		
13,400.00	7,870.00	7,961.12	7,869.82	80.67	31.26	90.50	-3,619.08	1,094.38	1,901.60	1,793.73	107.87	17.629		
13,500.00	7,870.00	7,960.84	7,869.54	82.04	31.26	90.49	-3,619.08	1,094.37	1,871.59	1,762.71	108.88	17.190		
13,600.00	7,870.00	7,960.56	7,869.26	83.43	31.26	90.49	-3,619.08	1,094.37	1,846.51	1,736.71	109.80	16.816		
13,700.00	7,870.00	7,960.28	7,868.98	84.84	31.26	90.48	-3,619.08	1,094.37	1,826.58	1,715.95	110.63	16.511		
13,800.00	7,870.00	7,959.99	7,868.69	86.27	31.25	90.47	-3,619.08	1,094.37	1,811.95	1,700.62	111.33	16.276		
13,900.00	7,870.00	7,959.71	7,868.41	87.71	31.25	90.46	-3,619.09	1,094.37	1,802.76	1,690.86	111.90	16.111		
14,000.00	7,870.00	7,959.43	7,868.13	89.16	31.25	90.45	-3,619.09	1,094.36	1,799.08	1,686.77	112.31	16.018		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,016.15	7,870.00	7,959.38	7,868.08	89.40	31.25	90.45	-3,619.09	1,094.36	1,799.01	1,686.64	112.37	16.010	CC, ES	
14,100.00	7,870.00	7,959.14	7,867.84	90.63	31.25	90.44	-3,619.09	1,094.36	1,800.96	1,688.39	112.58	15.997	SF	
14,200.00	7,870.00	7,958.86	7,867.56	92.10	31.25	90.43	-3,619.09	1,094.36	1,808.38	1,695.70	112.68	16.048		
14,300.00	7,870.00	7,958.57	7,867.27	93.59	31.25	90.42	-3,619.09	1,094.36	1,821.27	1,708.64	112.63	16.170		
14,400.00	7,870.00	7,958.29	7,866.99	95.09	31.25	90.41	-3,619.09	1,094.35	1,839.51	1,727.08	112.43	16.362		
14,500.00	7,870.00	7,958.00	7,866.70	96.60	31.25	90.40	-3,619.09	1,094.35	1,862.94	1,750.86	112.08	16.621		
14,600.00	7,870.00	7,957.72	7,866.42	98.11	31.25	90.40	-3,619.09	1,094.35	1,891.38	1,779.77	111.61	16.946		
14,700.00	7,870.00	7,957.43	7,866.13	99.64	31.25	90.39	-3,619.09	1,094.35	1,924.60	1,813.57	111.03	17.334		
14,800.00	7,870.00	7,957.14	7,865.84	101.17	31.25	90.38	-3,619.09	1,094.35	1,962.36	1,852.00	110.36	17.782		
14,900.00	7,870.00	7,956.86	7,865.56	102.71	31.24	90.37	-3,619.09	1,094.34	2,004.40	1,894.79	109.61	18.287		
15,000.00	7,870.00	7,956.57	7,865.27	104.26	31.24	90.36	-3,619.09	1,094.34	2,050.46	1,941.66	108.80	18.846		
15,100.00	7,870.00	7,956.28	7,864.98	105.82	31.24	90.35	-3,619.09	1,094.34	2,100.28	1,992.33	107.95	19.457		
15,200.00	7,870.00	7,955.99	7,864.69	107.38	31.24	90.34	-3,619.10	1,094.34	2,153.59	2,046.52	107.07	20.115		
15,300.00	7,870.00	7,955.70	7,864.40	108.95	31.24	90.33	-3,619.10	1,094.33	2,210.14	2,103.97	106.17	20.817		
15,400.00	7,870.00	7,955.42	7,864.11	110.52	31.24	90.32	-3,619.10	1,094.33	2,269.68	2,164.42	105.27	21.561		
15,500.00	7,870.00	7,955.13	7,863.82	112.10	31.24	90.31	-3,619.10	1,094.33	2,332.00	2,227.63	104.37	22.343		
15,600.00	7,870.00	7,954.84	7,863.53	113.69	31.24	90.30	-3,619.10	1,094.33	2,396.87	2,293.38	103.49	23.160		
15,700.00	7,870.00	7,954.55	7,863.24	115.28	31.24	90.29	-3,619.10	1,094.33	2,464.10	2,361.47	102.63	24.011		
15,800.00	7,870.00	7,954.26	7,862.95	116.87	31.24	90.29	-3,619.10	1,094.32	2,533.48	2,431.70	101.78	24.891		
15,900.00	7,870.00	7,953.96	7,862.66	118.47	31.23	90.28	-3,619.10	1,094.32	2,604.86	2,503.89	100.97	25.798		
16,000.00	7,870.00	7,953.67	7,862.37	120.07	31.23	90.27	-3,619.10	1,094.32	2,678.07	2,577.89	100.18	26.731		
16,100.00	7,870.00	7,953.38	7,862.08	121.68	31.23	90.26	-3,619.10	1,094.32	2,752.97	2,653.54	99.43	27.687		
16,200.00	7,870.00	7,953.09	7,861.79	123.30	31.23	90.25	-3,619.10	1,094.31	2,829.42	2,730.71	98.71	28.664		
16,300.00	7,870.00	7,952.80	7,861.49	124.91	31.23	90.24	-3,619.10	1,094.31	2,907.30	2,809.28	98.02	29.661		
16,400.00	7,870.00	7,952.50	7,861.20	126.53	31.23	90.23	-3,619.11	1,094.31	2,986.49	2,889.13	97.36	30.674		
16,500.00	7,870.00	7,952.21	7,860.91	128.16	31.23	90.22	-3,619.11	1,094.31	3,066.91	2,970.17	96.74	31.704		
16,600.00	7,870.00	7,951.92	7,860.61	129.79	31.23	90.21	-3,619.11	1,094.31	3,148.44	3,052.30	96.14	32.748		
16,700.00	7,870.00	7,951.62	7,860.32	131.42	31.23	90.20	-3,619.11	1,094.30	3,231.01	3,135.44	95.58	33.805		
16,800.00	7,870.00	7,951.33	7,860.03	133.05	31.23	90.19	-3,619.11	1,094.30	3,314.54	3,219.50	95.04	34.875		
16,900.00	7,870.00	7,951.03	7,859.73	134.69	31.23	90.18	-3,619.11	1,094.30	3,398.97	3,304.43	94.53	35.955		
17,000.00	7,870.00	7,950.74	7,859.44	136.33	31.22	90.17	-3,619.11	1,094.30	3,484.21	3,390.16	94.05	37.045		
17,100.00	7,870.00	7,950.44	7,859.14	137.97	31.22	90.16	-3,619.11	1,094.29	3,570.22	3,476.62	93.60	38.143		
17,200.00	7,870.00	7,950.15	7,858.84	139.62	31.22	90.15	-3,619.11	1,094.29	3,656.95	3,563.78	93.17	39.250		
17,300.00	7,870.00	7,949.85	7,858.55	141.27	31.22	90.14	-3,619.11	1,094.29	3,744.33	3,651.57	92.76	40.364		
17,400.00	7,870.00	7,949.55	7,858.25	142.92	31.22	90.14	-3,619.11	1,094.29	3,832.34	3,739.96	92.38	41.484		
17,500.00	7,870.00	7,949.25	7,857.95	144.58	31.22	90.13	-3,619.11	1,094.29	3,920.91	3,828.90	92.02	42.610		
17,600.00	7,870.00	7,948.96	7,857.66	146.23	31.22	90.12	-3,619.11	1,094.28	4,010.03	3,918.35	91.68	43.742		
17,700.00	7,870.00	7,948.66	7,857.36	147.89	31.22	90.11	-3,619.12	1,094.28	4,099.65	4,008.29	91.35	44.878		
17,800.00	7,870.00	7,948.36	7,857.06	149.56	31.22	90.10	-3,619.12	1,094.28	4,189.73	4,098.69	91.05	46.018		
17,900.00	7,870.00	7,948.06	7,856.76	151.22	31.22	90.09	-3,619.12	1,094.28	4,280.26	4,189.50	90.76	47.162		
18,000.00	7,870.00	7,947.76	7,856.46	152.89	31.22	90.08	-3,619.12	1,094.27	4,371.20	4,280.72	90.48	48.309		
18,100.00	7,870.00	7,947.46	7,856.16	154.55	31.21	90.07	-3,619.12	1,094.27	4,462.53	4,372.30	90.23	49.459		
18,200.00	7,870.00	7,947.16	7,855.86	156.22	31.21	90.06	-3,619.12	1,094.27	4,554.22	4,464.24	89.98	50.612		
18,300.00	7,870.00	7,946.86	7,855.56	157.90	31.21	90.05	-3,619.12	1,094.27	4,646.25	4,556.50	89.75	51.767		
18,400.00	7,870.00	7,946.56	7,855.26	159.57	31.21	90.04	-3,619.12	1,094.26	4,738.61	4,649.07	89.54	52.923		
18,500.00	7,870.00	7,946.26	7,854.96	161.25	31.21	90.03	-3,619.12	1,094.26	4,831.27	4,741.94	89.33	54.082		
18,600.00	7,870.00	7,945.96	7,854.66	162.93	31.21	90.02	-3,619.12	1,094.26	4,924.22	4,835.08	89.14	55.242		
18,700.00	7,870.00	7,945.65	7,854.35	164.60	31.21	90.01	-3,619.12	1,094.26	5,017.44	4,928.48	88.96	56.403		
18,797.52	7,870.00	7,945.36	7,854.06	166.24	31.21	90.00	-3,619.12	1,094.26	5,108.59	5,019.80	88.79	57.536		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	174.95	-4,029.39	356.22	4,045.13				
100.00	100.00	96.52	96.52	0.13	0.16	174.94	-4,029.23	356.44	4,044.98	4,044.69	0.29	N/A	
200.00	200.00	246.15	246.12	0.49	0.70	174.91	-4,027.67	358.43	4,044.06	4,042.87	1.19	3,397.397	
300.00	300.00	305.00	304.94	0.85	0.91	174.89	-4,026.48	359.92	4,042.59	4,040.83	1.76	2,297.977	
320.94	320.94	305.00	304.94	0.93	0.91	174.89	-4,026.48	359.92	4,042.54	4,040.70	1.83	2,203.694	
400.00	400.00	305.00	304.94	1.21	0.91	174.89	-4,026.48	359.92	4,043.31	4,041.19	2.12	1,906.715	
429.23	429.23	386.30	386.18	1.31	1.21	174.85	-4,025.66	362.91	4,042.08	4,039.56	2.52	1,604.584	
500.00	500.00	416.58	416.42	1.57	1.32	174.83	-4,025.89	364.36	4,042.91	4,040.02	2.88	1,402.095	
600.00	600.00	459.32	459.09	1.93	1.47	174.80	-4,026.69	366.72	4,045.29	4,041.89	3.40	1,190.367	
700.00	700.00	501.98	501.64	2.29	1.63	174.76	-4,028.07	369.44	4,049.08	4,045.17	3.91	1,034.951	
800.00	800.00	544.55	544.06	2.64	1.79	174.72	-4,030.01	372.51	4,054.29	4,049.87	4.42	916.298	
900.00	900.00	639.00	637.94	3.00	2.13	174.61	-4,036.34	380.60	4,061.70	4,056.58	5.12	792.972	
1,000.00	1,000.00	639.00	637.94	3.36	2.13	174.61	-4,036.34	380.60	4,068.98	4,063.51	5.48	742.960	
1,100.00	1,099.98	674.88	673.52	3.72	2.27	119.78	-4,039.44	384.06	4,079.23	4,073.27	5.96	684.074	
1,200.00	1,199.84	731.00	729.08	4.07	2.50	119.51	-4,044.99	389.69	4,092.55	4,086.03	6.52	627.490	
1,300.00	1,299.45	758.68	756.42	4.43	2.61	119.22	-4,048.10	392.62	4,108.87	4,101.89	6.98	588.901	
1,400.00	1,398.70	793.47	790.72	4.80	2.76	118.87	-4,052.45	396.59	4,128.40	4,120.94	7.46	553.144	
1,500.00	1,497.47	825.00	821.70	5.18	2.89	118.48	-4,056.83	400.44	4,151.08	4,143.14	7.94	522.634	
1,600.00	1,595.62	865.05	860.93	5.57	3.07	118.04	-4,062.94	405.67	4,176.79	4,168.32	8.47	492.951	
1,700.00	1,693.06	920.00	914.53	6.00	3.32	117.57	-4,072.27	413.40	4,205.57	4,196.49	9.08	463.158	
1,800.00	1,789.64	920.00	914.53	6.45	3.32	116.98	-4,072.27	413.40	4,237.11	4,227.65	9.47	447.495	
1,900.00	1,885.27	971.82	964.83	6.94	3.58	116.42	-4,082.08	421.08	4,271.40	4,261.29	10.11	422.534	
2,000.00	1,979.82	1,014.00	1,005.60	7.47	3.78	115.81	-4,090.83	427.46	4,308.55	4,297.82	10.73	401.538	
2,100.00	2,073.17	1,048.34	1,038.68	8.05	3.97	115.13	-4,098.35	432.73	4,348.26	4,336.91	11.35	383.164	
2,200.00	2,165.21	1,108.00	1,096.00	8.67	4.28	114.49	-4,112.02	442.09	4,390.39	4,378.27	12.12	362.331	
2,300.00	2,255.84	1,171.00	1,156.48	9.35	4.63	113.84	-4,126.84	451.69	4,434.47	4,421.53	12.94	342.694	
2,400.00	2,344.94	1,309.78	1,290.15	10.09	5.39	113.52	-4,158.08	472.06	4,478.89	4,464.70	14.19	315.650	
2,500.00	2,432.39	1,369.00	1,347.05	10.89	5.72	112.83	-4,171.57	481.40	4,525.18	4,510.09	15.09	299.940	
2,519.29	2,449.07	1,369.00	1,347.05	11.05	5.72	112.64	-4,171.57	481.40	4,534.31	4,519.11	15.21	298.191	
2,600.00	2,518.69	1,475.47	1,449.16	11.74	6.34	113.15	-4,195.77	499.36	4,572.63	4,556.35	16.28	280.912	
2,700.00	2,604.95	1,547.68	1,518.41	12.62	6.76	113.48	-4,211.91	511.91	4,619.92	4,602.62	17.31	266.924	
2,800.00	2,691.22	1,614.05	1,582.01	13.52	7.16	113.78	-4,226.87	523.60	4,667.58	4,649.26	18.32	254.771	
2,900.00	2,777.48	1,684.03	1,648.95	14.43	7.58	114.08	-4,242.89	536.21	4,715.71	4,696.34	19.36	243.523	
3,000.00	2,863.75	1,788.86	1,749.25	15.35	8.22	114.53	-4,266.95	554.93	4,764.08	4,743.46	20.62	231.013	
3,100.00	2,950.01	1,889.43	1,845.56	16.28	8.82	114.94	-4,289.19	573.54	4,811.84	4,789.97	21.87	220.043	
3,200.00	3,036.27	1,966.57	1,919.54	17.22	9.29	115.27	-4,306.48	586.85	4,859.98	4,837.01	22.98	211.522	
3,300.00	3,122.54	2,072.31	2,021.14	18.17	9.92	115.71	-4,329.85	604.53	4,908.00	4,883.75	24.26	202.350	
3,400.00	3,208.80	2,125.00	2,071.77	19.13	10.23	115.93	-4,341.38	613.47	4,956.10	4,930.88	25.22	196.513	
3,500.00	3,295.07	2,181.53	2,125.97	20.09	10.58	116.15	-4,354.06	623.35	5,004.82	4,978.60	26.21	190.930	
3,600.00	3,381.33	2,224.15	2,166.67	21.05	10.84	116.32	-4,364.06	631.08	5,054.45	5,027.33	27.12	186.404	
3,700.00	3,467.59	2,333.65	2,271.31	22.02	11.52	116.74	-4,389.83	650.47	5,104.28	5,075.83	28.45	179.439	
3,800.00	3,553.86	2,487.88	2,418.95	22.99	12.46	117.31	-4,425.05	677.80	5,153.79	5,123.73	30.07	171.420	
3,900.00	3,640.12	2,543.38	2,472.19	23.97	12.81	117.51	-4,437.30	687.61	5,202.66	5,171.61	31.06	167.528	
4,000.00	3,726.38	2,595.00	2,521.54	24.95	13.12	117.70	-4,449.12	697.08	5,252.29	5,220.27	32.02	164.045	
4,100.00	3,812.65	2,738.35	2,658.69	25.93	14.01	118.19	-4,481.49	723.33	5,301.83	5,268.24	33.59	157.835	
4,200.00	3,898.91	2,841.13	2,757.30	26.91	14.64	118.54	-4,503.81	741.82	5,350.68	5,315.79	34.89	153.351	
4,300.00	3,985.18	2,908.92	2,822.41	27.90	15.05	118.78	-4,518.50	753.68	5,399.63	5,363.68	35.96	150.165	
4,400.00	4,071.44	2,971.00	2,881.96	28.88	15.43	118.99	-4,532.28	764.57	5,449.12	5,412.14	36.98	147.341	
4,500.00	4,157.70	3,054.48	2,961.99	29.87	15.94	119.26	-4,550.98	779.17	5,498.90	5,460.75	38.15	144.134	
4,600.00	4,243.97	3,123.14	3,027.83	30.86	16.36	119.49	-4,566.34	791.19	5,548.77	5,509.55	39.22	141.485	
4,700.00	4,330.23	3,194.18	3,095.85	31.85	16.80	119.72	-4,582.47	803.82	5,599.00	5,558.70	40.30	138.931	
4,800.00	4,416.49	3,300.59	3,197.74	32.84	17.45	120.05	-4,606.62	822.74	5,649.37	5,607.74	41.63	135.702	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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	4,502.76	3,408.80	3,301.49	33.84	18.12	120.38	-4,630.43	842.21	5,699.15	5,656.17	42.98	132.610		
5,000.00	4,589.02	3,482.77	3,372.31	34.83	18.58	120.60	-4,646.74	855.96	5,749.08	5,704.99	44.08	130.412		
5,100.00	4,675.29	3,542.00	3,429.01	35.82	18.94	120.77	-4,659.90	866.90	5,799.27	5,754.19	45.08	128.634		
5,200.00	4,761.55	3,604.58	3,488.90	36.82	19.33	120.95	-4,674.04	878.29	5,849.87	5,803.77	46.10	126.891		
5,300.00	4,847.81	3,718.45	3,597.89	37.82	20.04	121.28	-4,700.04	898.58	5,900.81	5,853.33	47.49	124.255		
5,400.00	4,934.08	3,853.37	3,727.50	38.81	20.86	121.67	-4,729.24	922.08	5,950.64	5,901.62	49.02	121.389		
5,500.00	5,020.34	3,899.78	3,772.09	39.81	21.14	121.80	-4,739.35	930.08	6,000.82	5,950.91	49.91	120.227		
5,600.00	5,106.60	3,941.51	3,812.12	40.81	21.39	121.92	-4,748.69	937.25	6,051.61	6,000.85	50.76	119.214		
5,700.00	5,192.87	3,979.71	3,848.74	41.81	21.63	122.03	-4,757.50	943.60	6,103.09	6,051.51	51.58	118.326		
5,800.00	5,279.13	5,800.00	5,256.71	42.81	28.93	126.73	-4,933.05	1,083.83	6,150.05	6,089.07	60.98	100.853		
5,900.00	5,365.40	5,533.43	5,376.13	43.81	28.25	127.19	-4,932.82	1,084.96	6,182.99	6,122.01	60.97	101.406		
6,000.00	5,451.66	5,617.93	5,460.63	44.81	28.46	127.52	-4,932.54	1,085.55	6,216.09	6,154.14	61.94	100.354		
6,100.00	5,537.92	5,716.21	5,558.90	45.81	28.69	127.90	-4,932.12	1,086.20	6,249.34	6,186.39	62.95	99.280		
6,200.00	5,624.19	5,801.99	5,644.68	46.81	28.90	128.23	-4,931.69	1,086.81	6,282.73	6,218.82	63.91	98.307		
6,300.00	5,710.45	5,900.06	5,742.75	47.81	29.14	128.60	-4,931.11	1,087.42	6,316.28	6,251.38	64.90	97.321		
6,400.00	5,796.72	6,003.10	5,845.78	48.81	29.38	128.98	-4,930.24	1,087.89	6,349.85	6,283.95	65.90	96.357		
6,500.00	5,882.98	6,101.95	5,944.63	49.81	29.61	129.35	-4,929.18	1,088.30	6,383.43	6,316.55	66.88	95.449		
6,600.00	5,969.24	6,199.37	6,042.04	50.82	29.84	129.71	-4,927.94	1,088.68	6,417.06	6,349.21	67.85	94.582		
6,700.00	6,055.51	6,288.74	6,131.40	51.82	30.05	130.04	-4,926.74	1,089.03	6,450.83	6,382.05	68.79	93.780		
6,800.00	6,141.77	6,416.65	6,259.29	52.82	30.36	130.50	-4,924.56	1,089.69	6,484.47	6,414.63	69.84	92.849		
6,900.00	6,228.03	6,500.01	6,342.63	53.83	30.56	130.80	-4,922.81	1,090.14	6,517.99	6,447.24	70.76	92.120		
7,000.00	6,314.30	6,564.00	6,406.61	54.83	30.71	131.02	-4,921.79	1,090.75	6,552.05	6,480.44	71.61	91.495		
7,100.00	6,400.56	6,624.06	6,466.66	55.83	30.87	131.23	-4,921.10	1,091.49	6,586.63	6,514.17	72.45	90.907		
7,200.00	6,486.83	6,699.12	6,541.71	56.84	31.06	131.49	-4,920.39	1,092.44	6,621.60	6,548.25	73.34	90.282		
7,300.00	6,573.09	6,787.86	6,630.44	57.84	31.30	131.79	-4,919.68	1,093.66	6,656.84	6,582.57	74.28	89.624		
7,400.00	6,659.35	6,908.63	6,751.19	58.84	31.62	132.19	-4,918.41	1,095.60	6,692.03	6,616.72	75.32	88.854		
7,500.00	6,745.62	6,992.53	6,835.07	59.85	31.84	132.47	-4,917.20	1,096.80	6,727.08	6,650.86	76.22	88.261		
7,600.00	6,831.88	7,083.87	6,926.39	60.85	32.07	132.78	-4,915.85	1,096.99	6,762.47	6,685.34	77.13	87.679		
7,700.00	6,918.14	7,214.49	7,056.99	61.86	32.39	133.22	-4,913.21	1,096.91	6,797.62	6,719.47	78.15	86.981		
7,800.00	7,004.41	7,335.92	7,178.37	62.86	32.68	133.63	-4,909.87	1,096.30	6,832.39	6,753.26	79.13	86.343		
7,900.00	7,090.67	7,404.49	7,246.92	63.87	32.85	133.86	-4,907.91	1,095.79	6,867.31	6,787.37	79.95	85.900		
8,000.00	7,176.94	7,449.96	7,292.36	64.87	32.96	134.01	-4,906.80	1,095.50	6,902.77	6,822.09	80.68	85.553		
8,027.52	7,200.68	7,461.44	7,303.84	65.15	32.99	134.05	-4,906.57	1,095.44	6,912.66	6,831.78	80.88	85.465		
8,050.00	7,220.18	7,470.86	7,313.26	65.37	33.01	130.51	-4,906.41	1,095.41	6,920.38	6,839.33	81.05	85.389		
8,100.00	7,264.25	7,508.00	7,350.40	65.85	33.11	121.80	-4,905.90	1,095.32	6,934.78	6,853.31	81.47	85.123		
8,150.00	7,308.99	7,524.63	7,367.03	66.28	33.15	111.96	-4,905.72	1,095.32	6,945.16	6,863.33	81.83	84.873		
8,200.00	7,354.07	7,588.47	7,430.86	66.67	33.32	101.69	-4,904.96	1,095.43	6,951.39	6,869.03	82.36	84.406		
8,250.00	7,399.14	7,641.07	7,483.45	67.02	33.46	91.48	-4,904.27	1,095.71	6,953.33	6,870.49	82.85	83.930		
8,300.00	7,443.85	7,690.35	7,532.73	67.32	33.59	82.09	-4,903.63	1,096.17	6,951.05	6,867.73	83.32	83.427		
8,350.00	7,487.88	7,787.94	7,630.30	67.56	33.86	74.16	-4,902.09	1,097.59	6,944.43	6,860.47	83.96	82.714		
8,400.00	7,530.87	7,842.85	7,685.19	67.75	34.01	67.51	-4,900.99	1,098.59	6,933.47	6,849.04	84.43	82.120		
8,450.00	7,572.51	7,895.00	7,737.32	67.90	34.16	62.23	-4,899.88	1,099.63	6,918.43	6,833.55	84.88	81.508		
8,500.00	7,612.48	7,912.15	7,754.46	68.00	34.20	58.03	-4,899.54	1,099.92	6,899.54	6,814.35	85.19	80.991		
8,550.00	7,650.47	7,933.57	7,775.88	68.05	34.26	54.91	-4,899.14	1,100.24	6,876.98	6,791.48	85.50	80.436		
8,600.00	7,686.20	7,953.66	7,795.96	68.06	34.32	52.70	-4,898.80	1,100.47	6,850.91	6,765.13	85.78	79.864		
8,650.00	7,719.39	7,979.00	7,821.30	68.03	34.39	51.34	-4,898.41	1,100.67	6,821.52	6,735.45	86.07	79.255		
8,700.00	7,749.79	7,996.95	7,839.24	67.97	34.44	50.72	-4,898.15	1,100.78	6,788.99	6,702.67	86.32	78.652		
8,750.00	7,777.17	8,023.63	7,865.92	67.87	34.51	50.94	-4,897.77	1,100.95	6,753.52	6,666.94	86.58	78.004		
8,800.00	7,801.32	8,047.07	7,889.36	67.74	34.57	52.01	-4,897.43	1,101.11	6,715.38	6,628.56	86.82	77.350		
8,850.00	7,822.06	8,067.09	7,909.37	67.59	34.63	54.04	-4,897.15	1,101.24	6,674.83	6,587.80	87.03	76.695		
8,900.00	7,839.23	8,083.67	7,925.95	67.41	34.68	57.30	-4,896.91	1,101.35	6,632.19	6,544.97	87.22	76.039		
8,950.00	7,852.69	8,096.59	7,938.87	67.22	34.71	62.18	-4,896.73	1,101.44	6,587.76	6,500.37	87.39	75.385		

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

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	8,105.65	7,947.93	67.00	34.74	69.30	-4,896.60	1,101.50	6,541.87	6,454.34	87.53	74.736		
9,050.00	7,868.14	8,110.78	7,953.06	66.78	34.75	79.54	-4,896.52	1,101.53	6,494.87	6,407.21	87.66	74.095		
9,098.65	7,870.00	8,111.96	7,954.24	66.55	34.75	93.21	-4,896.51	1,101.54	6,448.39	6,360.64	87.76	73.480		
9,100.00	7,870.00	8,111.94	7,954.22	66.55	34.75	93.21	-4,896.51	1,101.54	6,447.09	6,359.33	87.76	73.463		
9,200.00	7,870.00	8,110.50	7,952.78	66.09	34.75	93.16	-4,896.53	1,101.53	6,351.09	6,263.14	87.95	72.213		
9,300.00	7,870.00	8,109.06	7,951.34	65.65	34.74	93.12	-4,896.55	1,101.52	6,255.20	6,167.06	88.15	70.962		
9,400.00	7,870.00	8,107.62	7,949.90	65.24	34.74	93.07	-4,896.57	1,101.51	6,159.45	6,071.10	88.36	69.712		
9,500.00	7,870.00	8,106.18	7,948.46	64.85	34.74	93.02	-4,896.59	1,101.50	6,063.84	5,975.27	88.57	68.462		
9,600.00	7,870.00	8,104.74	7,947.02	64.48	34.73	92.98	-4,896.61	1,101.49	5,968.37	5,879.57	88.80	67.213		
9,700.00	7,870.00	8,103.30	7,945.59	64.13	34.73	92.93	-4,896.63	1,101.48	5,873.05	5,784.01	89.03	65.964		
9,800.00	7,870.00	8,101.87	7,944.15	63.80	34.73	92.89	-4,896.65	1,101.47	5,777.88	5,688.60	89.28	64.715		
9,900.00	7,870.00	8,100.43	7,942.72	63.50	34.72	92.84	-4,896.67	1,101.46	5,682.89	5,593.35	89.54	63.467		
10,000.00	7,870.00	8,099.00	7,941.28	63.22	34.72	92.80	-4,896.69	1,101.45	5,588.07	5,498.25	89.81	62.220		
10,100.00	7,870.00	8,097.57	7,939.85	62.96	34.71	92.75	-4,896.71	1,101.44	5,493.43	5,403.33	90.09	60.975		
10,200.00	7,870.00	8,096.14	7,938.42	62.72	34.71	92.70	-4,896.73	1,101.43	5,398.98	5,308.59	90.39	59.730		
10,300.00	7,870.00	8,094.70	7,936.99	62.50	34.71	92.66	-4,896.75	1,101.42	5,304.74	5,214.04	90.70	58.486		
10,400.00	7,870.00	8,093.27	7,935.56	62.31	34.70	92.61	-4,896.77	1,101.41	5,210.71	5,119.68	91.03	57.245		
10,500.00	7,870.00	8,091.85	7,934.13	62.15	34.70	92.57	-4,896.79	1,101.41	5,116.90	5,025.54	91.37	56.005		
10,600.00	7,870.00	8,090.42	7,932.70	62.01	34.69	92.52	-4,896.82	1,101.40	5,023.34	4,931.62	91.72	54.767		
10,700.00	7,870.00	8,088.99	7,931.27	61.90	34.69	92.48	-4,896.84	1,101.39	4,930.03	4,837.93	92.10	53.531		
10,800.00	7,870.00	8,087.56	7,929.85	61.82	34.69	92.43	-4,896.86	1,101.38	4,836.98	4,744.49	92.49	52.298		
10,900.00	7,870.00	8,086.14	7,928.42	61.78	34.68	92.38	-4,896.88	1,101.37	4,744.22	4,651.32	92.90	51.068		
11,000.00	7,870.00	8,084.71	7,926.99	61.77	34.68	92.34	-4,896.90	1,101.36	4,651.75	4,558.42	93.33	49.841		
11,100.00	7,870.00	8,083.29	7,925.57	61.81	34.67	92.29	-4,896.92	1,101.35	4,559.61	4,465.82	93.78	48.618		
11,200.00	7,870.00	8,081.86	7,924.15	61.90	34.67	92.25	-4,896.94	1,101.34	4,467.80	4,373.54	94.26	47.398		
11,300.00	7,870.00	8,080.44	7,922.73	62.03	34.67	92.20	-4,896.96	1,101.33	4,376.35	4,281.59	94.76	46.183		
11,400.00	7,870.00	8,079.02	7,921.31	62.23	34.66	92.16	-4,896.98	1,101.32	4,285.28	4,190.00	95.29	44.972		
11,500.00	7,870.00	8,077.60	7,919.89	62.50	34.66	92.11	-4,897.00	1,101.31	4,194.62	4,098.78	95.84	43.767		
11,600.00	7,870.00	8,076.18	7,918.47	62.84	34.65	92.07	-4,897.02	1,101.30	4,104.39	4,007.97	96.42	42.568		
11,700.00	7,870.00	8,074.76	7,917.05	63.25	34.65	92.02	-4,897.04	1,101.29	4,014.63	3,917.59	97.03	41.375		
11,800.00	7,870.00	8,073.34	7,915.63	63.76	34.65	91.97	-4,897.06	1,101.28	3,925.35	3,827.68	97.67	40.188		
11,900.00	7,870.00	8,071.92	7,914.20	64.34	34.64	91.93	-4,897.08	1,101.27	3,836.61	3,738.26	98.35	39.010		
12,000.00	7,870.00	8,070.49	7,912.78	65.01	34.64	91.88	-4,897.10	1,101.26	3,748.43	3,649.37	99.06	37.839		
12,100.00	7,870.00	8,069.07	7,911.36	65.77	34.63	91.84	-4,897.12	1,101.25	3,660.87	3,561.05	99.81	36.678		
12,200.00	7,870.00	8,067.65	7,909.93	66.61	34.63	91.79	-4,897.14	1,101.24	3,573.95	3,473.35	100.60	35.526		
12,300.00	7,870.00	8,066.22	7,908.50	67.51	34.63	91.75	-4,897.16	1,101.23	3,487.73	3,386.30	101.43	34.385		
12,400.00	7,870.00	8,064.79	7,907.08	68.49	34.62	91.70	-4,897.18	1,101.22	3,402.27	3,299.96	102.30	33.256		
12,500.00	7,870.00	8,063.36	7,905.65	69.52	34.62	91.65	-4,897.20	1,101.21	3,317.62	3,214.39	103.22	32.140		
12,600.00	7,870.00	8,061.94	7,904.22	70.61	34.62	91.61	-4,897.22	1,101.20	3,233.84	3,129.65	104.19	31.038		
12,700.00	7,870.00	8,060.51	7,902.79	71.75	34.61	91.56	-4,897.24	1,101.19	3,151.01	3,045.81	105.21	29.950		
12,800.00	7,870.00	8,059.08	7,901.36	72.93	34.61	91.52	-4,897.26	1,101.19	3,069.21	2,962.93	106.28	28.880		
12,900.00	7,870.00	8,057.64	7,899.93	74.14	34.60	91.47	-4,897.28	1,101.18	2,988.51	2,881.11	107.40	27.827		
13,000.00	7,870.00	8,056.21	7,898.50	75.39	34.60	91.43	-4,897.30	1,101.17	2,909.00	2,800.43	108.57	26.793		
13,100.00	7,870.00	8,054.78	7,897.07	76.67	34.60	91.38	-4,897.32	1,101.16	2,830.80	2,721.00	109.80	25.780		
13,200.00	7,870.00	8,053.35	7,895.63	77.98	34.59	91.33	-4,897.34	1,101.15	2,754.01	2,642.92	111.09	24.790		
13,300.00	7,870.00	8,051.91	7,894.20	79.31	34.59	91.29	-4,897.36	1,101.14	2,678.75	2,566.31	112.44	23.825		
13,400.00	7,870.00	8,050.48	7,892.76	80.67	34.58	91.24	-4,897.38	1,101.13	2,605.15	2,491.32	113.83	22.886		
13,500.00	7,870.00	8,049.04	7,891.33	82.04	34.58	91.20	-4,897.40	1,101.12	2,533.36	2,418.08	115.28	21.975		
13,600.00	7,870.00	8,047.60	7,889.89	83.43	34.58	91.15	-4,897.42	1,101.11	2,463.54	2,346.76	116.78	21.095		
13,700.00	7,870.00	8,046.16	7,888.45	84.84	34.57	91.10	-4,897.44	1,101.10	2,395.86	2,277.53	118.33	20.247		
13,800.00	7,870.00	8,044.73	7,887.01	86.27	34.57	91.06	-4,897.46	1,101.09	2,330.50	2,210.59	119.91	19.435		
13,900.00	7,870.00	8,043.29	7,885.57	87.71	34.56	91.01	-4,897.49	1,101.08	2,267.67	2,146.15	121.52	18.661		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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		
14,000.00	7,870.00	8,041.85	7,884.13	89.16	34.56	90.97	-4,897.51	1,101.07	2,207.58	2,084.44	123.15	17.926		
14,100.00	7,870.00	8,040.40	7,882.69	90.63	34.56	90.92	-4,897.53	1,101.06	2,150.47	2,025.69	124.78	17.234		
14,200.00	7,870.00	8,038.96	7,881.25	92.10	34.55	90.87	-4,897.55	1,101.05	2,096.57	1,970.18	126.39	16.588		
14,300.00	7,870.00	8,037.52	7,879.81	93.59	34.55	90.83	-4,897.57	1,101.04	2,046.14	1,918.17	127.97	15.989		
14,400.00	7,870.00	8,036.08	7,878.36	95.09	34.54	90.78	-4,897.59	1,101.03	1,999.44	1,869.95	129.50	15.440		
14,500.00	7,870.00	8,034.63	7,876.92	96.60	34.54	90.73	-4,897.61	1,101.02	1,956.74	1,825.81	130.93	14.944		
14,600.00	7,870.00	8,033.18	7,875.47	98.11	34.54	90.69	-4,897.63	1,101.02	1,918.31	1,786.05	132.26	14.504		
14,700.00	7,870.00	8,031.74	7,874.03	99.64	34.53	90.64	-4,897.65	1,101.01	1,884.40	1,750.96	133.45	14.121		
14,800.00	7,870.00	8,030.29	7,872.58	101.17	34.53	90.60	-4,897.67	1,101.00	1,855.27	1,720.81	134.46	13.798		
14,900.00	7,870.00	8,028.84	7,871.13	102.71	34.52	90.55	-4,897.69	1,100.99	1,831.15	1,695.87	135.28	13.536		
15,000.00	7,870.00	8,027.39	7,869.68	104.26	34.52	90.50	-4,897.71	1,100.98	1,812.22	1,676.35	135.87	13.338		
15,100.00	7,870.00	8,025.94	7,868.23	105.82	34.52	90.46	-4,897.73	1,100.97	1,798.66	1,662.44	136.22	13.204		
15,200.00	7,870.00	8,024.49	7,866.78	107.38	34.51	90.41	-4,897.75	1,100.96	1,790.60	1,654.28	136.32	13.135		
15,294.81	7,870.00	8,023.12	7,865.41	108.87	34.51	90.37	-4,897.77	1,100.95	1,788.09	1,651.92	136.17	13.131 CC, ES, SF		
15,300.00	7,870.00	8,023.04	7,865.33	108.95	34.51	90.36	-4,897.77	1,100.95	1,788.09	1,651.94	136.15	13.133		
15,400.00	7,870.00	8,021.59	7,863.88	110.52	34.50	90.32	-4,897.80	1,100.94	1,791.18	1,655.45	135.73	13.197		
15,500.00	7,870.00	8,020.13	7,862.43	112.10	34.50	90.27	-4,897.82	1,100.93	1,799.82	1,664.77	135.05	13.327		
15,600.00	7,870.00	8,018.68	7,860.97	113.69	34.50	90.22	-4,897.84	1,100.92	1,813.94	1,679.80	134.14	13.522		
15,700.00	7,870.00	8,017.23	7,859.52	115.28	34.49	90.18	-4,897.86	1,100.91	1,833.41	1,700.39	133.02	13.783		
15,800.00	7,870.00	8,015.77	7,858.06	116.87	34.49	90.13	-4,897.88	1,100.90	1,858.07	1,726.35	131.72	14.106		
15,900.00	7,870.00	8,014.31	7,856.60	118.47	34.49	90.08	-4,897.90	1,100.89	1,887.71	1,757.44	130.27	14.491		
16,000.00	7,870.00	8,012.85	7,855.15	120.07	34.48	90.04	-4,897.92	1,100.88	1,922.09	1,793.40	128.69	14.935		
16,100.00	7,870.00	8,011.40	7,853.69	121.68	34.48	89.99	-4,897.94	1,100.88	1,960.98	1,833.95	127.03	15.437		
16,200.00	7,870.00	8,009.94	7,852.23	123.30	34.47	89.94	-4,897.96	1,100.87	2,004.11	1,878.80	125.31	15.993		
16,300.00	7,870.00	8,008.48	7,850.77	124.91	34.47	89.90	-4,897.98	1,100.86	2,051.21	1,927.65	123.55	16.602		
16,400.00	7,870.00	8,007.02	7,849.31	126.53	34.47	89.85	-4,898.00	1,100.85	2,102.01	1,980.22	121.79	17.260		
16,500.00	7,870.00	8,005.55	7,847.85	128.16	34.46	89.80	-4,898.03	1,100.84	2,156.26	2,036.22	120.03	17.964		
16,600.00	7,870.00	8,004.09	7,846.38	129.79	34.46	89.76	-4,898.05	1,100.83	2,213.69	2,095.39	118.30	18.712		
16,700.00	7,870.00	8,002.63	7,844.92	131.42	34.45	89.71	-4,898.07	1,100.82	2,274.07	2,157.46	116.61	19.501		
16,800.00	7,870.00	8,001.16	7,843.46	133.05	34.45	89.66	-4,898.09	1,100.81	2,337.18	2,222.20	114.97	20.328		
16,900.00	7,870.00	7,999.70	7,841.99	134.69	34.45	89.62	-4,898.11	1,100.80	2,402.78	2,289.39	113.39	21.191		
17,000.00	7,870.00	7,998.23	7,840.52	136.33	34.44	89.57	-4,898.13	1,100.79	2,470.69	2,358.83	111.87	22.086		
17,100.00	7,870.00	7,996.76	7,839.06	137.97	34.44	89.52	-4,898.15	1,100.78	2,540.73	2,430.32	110.41	23.012		
17,200.00	7,870.00	7,995.29	7,837.59	139.62	34.43	89.47	-4,898.17	1,100.77	2,612.71	2,503.69	109.02	23.965		
17,300.00	7,870.00	7,993.82	7,836.12	141.27	34.43	89.43	-4,898.19	1,100.76	2,686.49	2,578.79	107.70	24.944		
17,400.00	7,870.00	7,992.35	7,834.65	142.92	34.42	89.38	-4,898.22	1,100.76	2,761.91	2,655.47	106.45	25.947		
17,500.00	7,870.00	7,990.88	7,833.18	144.58	34.42	89.33	-4,898.24	1,100.75	2,838.86	2,733.60	105.26	26.970		
17,600.00	7,870.00	7,989.41	7,831.71	146.23	34.42	89.29	-4,898.26	1,100.74	2,917.20	2,813.06	104.14	28.013		
17,700.00	7,870.00	7,987.94	7,830.23	147.89	34.41	89.24	-4,898.28	1,100.73	2,996.83	2,893.76	103.07	29.074		
17,800.00	7,870.00	7,986.47	7,828.76	149.56	34.41	89.19	-4,898.30	1,100.72	3,077.65	2,975.58	102.07	30.151		
17,900.00	7,870.00	7,984.99	7,827.29	151.22	34.40	89.14	-4,898.32	1,100.71	3,159.57	3,058.44	101.13	31.243		
18,000.00	7,870.00	7,983.52	7,825.81	152.89	34.40	89.10	-4,898.34	1,100.70	3,242.50	3,142.26	100.24	32.347		
18,100.00	7,870.00	7,982.04	7,824.34	154.55	34.40	89.05	-4,898.36	1,100.69	3,326.37	3,226.96	99.40	33.463		
18,200.00	7,870.00	7,980.56	7,822.86	156.22	34.39	89.00	-4,898.39	1,100.68	3,411.10	3,312.49	98.62	34.590		
18,300.00	7,870.00	7,979.09	7,821.38	157.90	34.39	88.96	-4,898.41	1,100.67	3,496.65	3,398.77	97.87	35.726		
18,400.00	7,870.00	7,977.68	7,819.98	159.57	34.38	88.91	-4,898.43	1,100.66	3,582.94	3,485.76	97.18	36.871		
18,500.00	7,870.00	7,976.26	7,818.56	161.25	34.38	88.86	-4,898.45	1,100.66	3,669.93	3,573.41	96.52	38.023		
18,600.00	7,870.00	7,974.82	7,817.12	162.93	34.38	88.82	-4,898.47	1,100.65	3,757.56	3,661.66	95.90	39.181		
18,700.00	7,870.00	7,973.36	7,815.65	164.60	34.37	88.77	-4,898.49	1,100.64	3,845.80	3,750.48	95.32	40.346		
18,797.52	7,870.00	7,971.91	7,814.21	166.24	34.37	88.73	-4,898.51	1,100.63	3,932.39	3,837.60	94.79	41.486		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.71	-2,139.37	2,160.97	3,041.25					
100.00	100.00	51.12	51.12	0.13	0.08	134.71	-2,139.32	2,161.01	3,040.83	3,040.61	0.22	N/A		
200.00	200.00	157.29	157.29	0.49	0.36	134.70	-2,138.91	2,161.25	3,040.72	3,039.86	0.86	3,549.610		
300.00	300.00	257.15	257.15	0.85	0.71	134.70	-2,138.58	2,161.15	3,040.42	3,038.85	1.57	1,942.260		
400.00	400.00	352.58	352.58	1.21	1.04	134.70	-2,138.68	2,160.86	3,040.27	3,038.02	2.25	1,348.820		
500.00	500.00	453.09	453.08	1.57	1.39	134.71	-2,138.88	2,160.57	3,040.21	3,037.25	2.96	1,026.192		
600.00	600.00	554.95	554.94	1.93	1.75	134.72	-2,139.27	2,159.97	3,040.06	3,036.38	3.68	826.029		
700.00	700.00	657.01	657.00	2.29	2.12	134.74	-2,139.71	2,159.28	3,039.88	3,035.48	4.40	690.694		
800.00	800.00	767.29	767.27	2.64	2.51	134.76	-2,140.20	2,158.23	3,039.53	3,034.37	5.15	589.860		
900.00	900.00	870.28	870.25	3.00	2.88	134.78	-2,140.66	2,156.80	3,038.85	3,032.97	5.88	516.827		
1,000.00	1,000.00	958.76	958.72	3.36	3.19	134.81	-2,141.21	2,155.60	3,038.33	3,031.77	6.55	463.524		
1,100.00	1,099.98	1,049.79	1,049.75	3.72	3.52	80.25	-2,142.15	2,154.56	3,037.95	3,030.71	7.24	419.894		
1,200.00	1,199.84	1,156.59	1,156.53	4.07	3.90	80.41	-2,143.37	2,153.29	3,037.04	3,029.07	7.97	381.048		
1,300.00	1,299.45	1,262.36	1,262.28	4.43	4.28	80.65	-2,144.37	2,151.71	3,035.21	3,026.50	8.71	348.581		
1,400.00	1,398.70	1,360.88	1,360.78	4.80	4.64	80.96	-2,145.43	2,150.06	3,032.83	3,023.40	9.43	321.706		
1,500.00	1,497.47	1,461.07	1,460.96	5.18	5.00	81.34	-2,146.56	2,148.32	3,029.98	3,019.82	10.17	298.034		
1,600.00	1,595.62	1,558.86	1,558.72	5.57	5.35	81.79	-2,147.65	2,146.55	3,026.67	3,015.75	10.92	277.276		
1,700.00	1,693.06	1,653.84	1,653.68	6.00	5.69	82.30	-2,148.79	2,144.82	3,023.08	3,011.40	11.68	258.851		
1,800.00	1,789.64	1,750.40	1,750.22	6.45	6.04	82.89	-2,149.91	2,143.14	3,019.28	3,006.80	12.48	241.977		
1,900.00	1,885.27	1,852.38	1,852.17	6.94	6.40	83.57	-2,150.97	2,141.36	3,015.23	3,001.90	13.33	226.176		
2,000.00	1,979.82	1,955.10	1,954.88	7.47	6.77	84.32	-2,151.70	2,139.44	3,010.85	2,996.62	14.23	211.601		
2,100.00	2,073.17	2,052.19	2,051.94	8.05	7.12	85.10	-2,152.13	2,137.62	3,006.34	2,991.19	15.15	198.404		
2,200.00	2,165.21	2,147.07	2,146.81	8.67	7.46	85.92	-2,152.38	2,135.87	3,001.94	2,985.82	16.12	186.232		
2,300.00	2,255.84	2,243.63	2,243.36	9.35	7.81	86.80	-2,152.31	2,134.23	2,997.73	2,980.59	17.15	174.830		
2,400.00	2,344.94	2,333.52	2,333.24	10.09	8.13	87.68	-2,151.94	2,132.78	2,993.80	2,975.60	18.21	164.419		
2,500.00	2,432.39	2,412.51	2,412.22	10.89	8.41	88.49	-2,151.70	2,131.64	2,990.66	2,971.37	19.29	155.002		
2,519.29	2,449.07	2,428.44	2,428.14	11.05	8.47	88.65	-2,151.67	2,131.42	2,990.16	2,970.65	19.51	153.238		
2,600.00	2,518.69	2,494.86	2,494.55	11.74	8.70	89.31	-2,151.62	2,130.48	2,988.46	2,968.02	20.44	146.182		
2,700.00	2,604.95	2,617.24	2,616.91	12.62	9.14	90.52	-2,151.03	2,128.28	2,986.70	2,964.95	21.76	137.277		
2,800.00	2,691.22	2,702.95	2,702.60	13.52	9.44	91.37	-2,150.27	2,126.45	2,985.37	2,962.41	22.96	130.037		
2,900.00	2,777.48	2,824.05	2,823.65	14.43	9.87	92.56	-2,148.14	2,123.66	2,984.19	2,959.90	24.29	122.855		
3,000.00	2,863.75	2,909.30	2,908.85	15.35	10.17	93.41	-2,146.33	2,121.38	2,983.50	2,957.99	25.51	116.949		
3,015.77	2,877.35	2,920.33	2,919.88	15.49	10.21	93.52	-2,146.11	2,121.07	2,983.48	2,957.78	25.70	116.102		
3,100.00	2,950.01	2,979.35	2,978.86	16.28	10.42	94.10	-2,145.03	2,119.59	2,983.96	2,957.27	26.69	111.806		
3,200.00	3,036.27	3,057.22	3,056.70	17.22	10.70	94.86	-2,143.75	2,118.01	2,985.67	2,957.78	27.90	107.029		
3,300.00	3,122.54	3,135.28	3,134.74	18.17	10.97	95.63	-2,142.42	2,116.80	2,988.43	2,959.33	29.11	102.676		
3,400.00	3,208.80	3,209.28	3,208.73	19.13	11.23	96.35	-2,141.40	2,115.78	2,992.36	2,962.06	30.30	98.753		
3,500.00	3,295.07	3,281.56	3,281.00	20.09	11.49	97.05	-2,140.67	2,114.94	2,997.53	2,966.04	31.49	95.188		
3,600.00	3,381.33	3,355.48	3,354.92	21.05	11.75	97.76	-2,140.16	2,114.35	3,003.93	2,971.25	32.68	91.911		
3,700.00	3,467.59	3,434.05	3,433.49	22.02	12.03	98.52	-2,139.81	2,113.95	3,011.48	2,977.59	33.89	88.865		
3,800.00	3,553.86	3,518.79	3,518.22	22.99	12.33	99.33	-2,139.53	2,113.57	3,019.96	2,984.85	35.11	86.010		
3,900.00	3,640.12	3,604.44	3,603.87	23.97	12.63	100.14	-2,139.27	2,113.18	3,029.30	2,992.97	36.33	83.373		
4,000.00	3,726.38	3,690.65	3,690.09	24.95	12.94	100.96	-2,139.00	2,112.82	3,039.46	3,001.91	37.55	80.940		
4,100.00	3,812.65	3,776.46	3,775.89	25.93	13.24	101.77	-2,138.72	2,112.50	3,050.43	3,011.67	38.76	78.698		
4,200.00	3,898.91	3,859.69	3,859.12	26.91	13.53	102.55	-2,138.47	2,112.23	3,062.24	3,022.29	39.95	76.646		
4,300.00	3,985.18	3,945.79	3,945.23	27.90	13.84	103.35	-2,138.30	2,111.96	3,074.92	3,033.78	41.15	74.727		
4,400.00	4,071.44	4,036.76	4,036.19	28.88	14.17	104.20	-2,138.13	2,111.36	3,088.31	3,045.95	42.36	72.915		
4,500.00	4,157.70	4,131.11	4,130.53	29.87	14.50	105.08	-2,137.85	2,110.46	3,102.29	3,058.72	43.57	71.209		
4,600.00	4,243.97	4,227.72	4,227.14	30.86	14.85	105.97	-2,137.37	2,109.09	3,116.77	3,071.99	44.77	69.610		
4,700.00	4,330.23	4,321.71	4,321.11	31.85	15.19	106.84	-2,136.63	2,107.61	3,131.75	3,085.78	45.96	68.136		
4,800.00	4,416.49	4,409.45	4,408.84	32.84	15.50	107.64	-2,135.84	2,106.17	3,147.37	3,100.25	47.12	66.799		
4,900.00	4,502.76	4,491.03	4,490.40	33.84	15.79	108.38	-2,135.19	2,104.64	3,163.79	3,115.56	48.24	65.589		

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

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,600.37	4,599.71	34.83	16.19	109.38	-2,134.12	2,102.12	3,180.74	3,131.29	49.45	64.321		
5,100.00	4,675.29	4,685.33	4,684.62	35.82	16.49	110.14	-2,133.00	2,099.91	3,198.08	3,147.52	50.56	63.254		
5,200.00	4,761.55	4,767.89	4,767.15	36.82	16.79	110.88	-2,131.96	2,097.75	3,216.21	3,164.56	51.65	62.272		
5,300.00	4,847.81	4,853.36	4,852.59	37.82	17.09	111.64	-2,130.93	2,095.59	3,235.12	3,182.39	52.73	61.347		
5,400.00	4,934.08	4,938.14	4,937.34	38.81	17.40	112.39	-2,129.86	2,093.54	3,254.73	3,200.92	53.81	60.488		
5,500.00	5,020.34	5,020.72	5,019.89	39.81	17.69	113.11	-2,128.90	2,091.59	3,275.11	3,220.25	54.86	59.700		
5,600.00	5,106.60	5,107.28	5,106.41	40.81	18.00	113.85	-2,127.89	2,089.60	3,296.19	3,240.28	55.92	58.949		
5,700.00	5,192.87	5,192.48	5,191.59	41.81	18.31	114.58	-2,126.89	2,087.68	3,317.94	3,260.99	56.95	58.256		
5,800.00	5,279.13	5,303.31	5,302.38	42.81	18.71	115.50	-2,125.15	2,085.58	3,340.06	3,281.97	58.08	57.505		
5,900.00	5,365.40	5,391.10	5,390.15	43.81	19.02	116.22	-2,123.35	2,084.40	3,362.44	3,303.33	59.11	56.886		
6,000.00	5,451.66	5,478.36	5,477.38	44.81	19.32	116.92	-2,121.48	2,083.54	3,385.38	3,325.26	60.12	56.310		
6,100.00	5,537.92	5,561.09	5,560.10	45.81	19.61	117.57	-2,119.70	2,083.07	3,408.93	3,347.82	61.10	55.791		
6,200.00	5,624.19	5,643.21	5,642.20	46.81	19.90	118.20	-2,118.04	2,082.86	3,433.16	3,371.09	62.07	55.311		
6,300.00	5,710.45	5,725.69	5,724.66	47.81	20.18	118.83	-2,116.46	2,082.72	3,458.05	3,395.02	63.03	54.865		
6,400.00	5,796.72	5,807.84	5,806.80	48.81	20.47	119.45	-2,114.99	2,082.59	3,483.59	3,419.61	63.97	54.452		
6,500.00	5,882.98	5,894.05	5,893.00	49.81	20.77	120.10	-2,113.52	2,082.47	3,509.71	3,444.78	64.93	54.055		
6,600.00	5,969.24	5,979.20	5,978.13	50.82	21.07	120.73	-2,112.08	2,082.36	3,536.36	3,470.49	65.87	53.689		
6,700.00	6,055.51	6,060.60	6,059.53	51.82	21.35	121.32	-2,110.78	2,082.24	3,563.58	3,496.80	66.78	53.363		
6,800.00	6,141.77	6,148.20	6,147.11	52.82	21.66	121.95	-2,109.48	2,082.13	3,591.40	3,523.69	67.71	53.041		
6,900.00	6,228.03	6,243.95	6,242.85	53.83	21.99	122.63	-2,107.89	2,081.95	3,619.53	3,550.86	68.67	52.712		
7,000.00	6,314.30	6,329.00	6,327.88	54.83	22.29	123.23	-2,106.30	2,081.76	3,647.95	3,578.39	69.57	52.438		
7,100.00	6,400.56	6,400.00	6,398.88	55.83	22.54	123.72	-2,105.25	2,081.66	3,677.15	3,606.75	70.40	52.235		
7,200.00	6,486.83	6,481.70	6,480.58	56.84	22.82	124.28	-2,104.26	2,081.57	3,707.03	3,635.76	71.26	52.018		
7,300.00	6,573.09	6,566.79	6,565.66	57.84	23.12	124.85	-2,103.26	2,081.43	3,737.38	3,665.24	72.14	51.808		
7,400.00	6,659.35	6,648.97	6,647.84	58.84	23.41	125.40	-2,102.35	2,081.29	3,768.21	3,695.22	72.99	51.625		
7,500.00	6,745.62	6,729.02	6,727.87	59.85	23.69	125.93	-2,101.59	2,081.18	3,799.59	3,725.76	73.83	51.467		
7,600.00	6,831.88	6,812.39	6,811.24	60.85	23.98	126.47	-2,100.97	2,081.45	3,831.51	3,756.85	74.67	51.315		
7,700.00	6,918.14	6,918.70	6,917.55	61.86	24.34	127.13	-2,099.91	2,082.21	3,863.55	3,787.95	75.60	51.102		
7,800.00	7,004.41	7,007.70	7,006.53	62.86	24.65	127.68	-2,098.82	2,082.97	3,895.76	3,819.30	76.46	50.954		
7,900.00	7,090.67	7,099.75	7,098.58	63.87	24.96	128.24	-2,097.61	2,083.84	3,928.24	3,850.93	77.32	50.806		
8,000.00	7,176.94	7,189.57	7,188.38	64.87	25.27	128.78	-2,096.36	2,084.74	3,960.99	3,882.82	78.16	50.676		
8,027.52	7,200.68	7,215.64	7,214.44	65.15	25.36	128.93	-2,095.98	2,085.00	3,970.05	3,891.65	78.40	50.638		
8,050.00	7,220.18	7,237.85	7,236.65	65.37	25.43	129.57	-2,095.64	2,085.24	3,977.03	3,898.44	78.60	50.599		
8,100.00	7,264.25	7,288.05	7,286.84	65.85	25.61	117.18	-2,094.83	2,085.81	3,989.59	3,910.54	79.05	50.472		
8,150.00	7,308.99	7,346.22	7,345.00	66.28	25.81	107.74	-2,093.78	2,086.56	3,997.91	3,918.38	79.53	50.269		
8,200.00	7,354.07	7,407.09	7,405.85	66.67	26.02	97.68	-2,092.47	2,087.48	4,001.88	3,921.85	80.02	50.009		
8,250.00	7,399.14	7,441.49	7,440.24	67.02	26.13	87.54	-2,091.72	2,087.99	4,001.62	3,921.24	80.38	49.781		
8,300.00	7,443.85	7,478.26	7,477.00	67.32	26.26	78.21	-2,090.99	2,088.50	3,997.27	3,916.52	80.74	49.506		
8,350.00	7,487.88	7,517.20	7,515.93	67.56	26.39	70.15	-2,090.28	2,088.99	3,988.83	3,907.73	81.10	49.186		
8,400.00	7,530.87	7,559.27	7,557.98	67.75	26.54	63.52	-2,089.53	2,089.44	3,976.33	3,894.88	81.45	48.820		
8,450.00	7,572.51	7,599.84	7,598.55	67.90	26.68	58.24	-2,088.79	2,089.79	3,959.85	3,878.07	81.78	48.422		
8,500.00	7,612.48	7,636.73	7,635.43	68.00	26.81	54.15	-2,088.14	2,090.08	3,939.52	3,857.45	82.07	48.001		
8,550.00	7,650.47	7,671.74	7,670.43	68.05	26.93	51.09	-2,087.54	2,090.35	3,915.51	3,833.16	82.34	47.552		
8,600.00	7,686.20	7,706.50	7,705.19	68.06	27.05	48.94	-2,086.97	2,090.63	3,887.98	3,805.38	82.60	47.072		
8,650.00	7,719.39	7,760.93	7,759.31	68.03	27.93	50.14	-2,076.73	2,095.50	3,857.02	3,773.22	83.80	46.025		
8,700.00	7,749.79	8,005.00	8,003.23	67.97	28.08	50.12	-2,073.62	2,097.29	3,821.32	3,737.25	84.07	45.453		
8,750.00	7,777.17	8,024.23	8,022.39	67.87	28.15	50.71	-2,072.25	2,098.12	3,782.93	3,698.70	84.23	44.913		
8,800.00	7,801.32	8,042.81	8,040.91	67.74	28.22	52.32	-2,070.95	2,098.94	3,742.17	3,657.80	84.37	44.353		
8,850.00	7,822.06	8,058.35	8,056.40	67.59	28.27	55.15	-2,069.87	2,099.63	3,699.33	3,614.84	84.49	43.783		
8,900.00	7,839.23	8,070.71	8,068.71	67.41	28.31	59.59	-2,069.03	2,100.19	3,654.72	3,570.12	84.59	43.203		
8,950.00	7,852.69	8,079.77	8,077.74	67.22	28.34	66.30	-2,068.41	2,100.60	3,608.65	3,523.98	84.68	42.618		
9,000.00	7,862.35	8,085.43	8,083.39	67.00	28.36	76.26	-2,068.03	2,100.85	3,561.46	3,476.72	84.74	42.029		

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

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	8,087.64	8,085.59	66.78	28.37	90.49	-2,067.88	2,100.95	3,513.49	3,428.70	84.79	41.439		
9,098.65	7,870.00	8,086.43	8,084.38	66.55	28.37	108.34	-2,067.96	2,100.90	3,466.39	3,381.57	84.82	40.867		
9,100.00	7,870.00	8,086.35	8,084.30	66.55	28.37	108.33	-2,067.97	2,100.89	3,465.07	3,380.25	84.82	40.851		
9,200.00	7,870.00	8,080.43	8,078.40	66.09	28.34	107.94	-2,068.37	2,100.63	3,368.14	3,283.26	84.88	39.682		
9,300.00	7,870.00	8,074.45	8,072.44	65.65	28.32	107.55	-2,068.77	2,100.35	3,271.38	3,186.44	84.94	38.513		
9,400.00	7,870.00	8,068.41	8,066.42	65.24	28.30	107.15	-2,069.18	2,100.08	3,174.81	3,089.80	85.01	37.346		
9,500.00	7,870.00	8,062.33	8,060.36	64.85	28.28	106.75	-2,069.60	2,099.81	3,078.44	2,993.36	85.08	36.181		
9,600.00	7,870.00	8,056.18	8,054.24	64.48	28.26	106.34	-2,070.02	2,099.53	2,982.30	2,897.13	85.16	35.019		
9,700.00	7,870.00	8,049.99	8,048.06	64.13	28.24	105.92	-2,070.45	2,099.26	2,886.40	2,801.15	85.25	33.858		
9,800.00	7,870.00	8,043.73	8,041.83	63.80	28.22	105.51	-2,070.89	2,098.98	2,790.78	2,705.43	85.34	32.700		
9,900.00	7,870.00	8,037.42	8,035.54	63.50	28.20	105.08	-2,071.33	2,098.70	2,695.45	2,610.01	85.45	31.546		
10,000.00	7,870.00	8,031.06	8,029.19	63.22	28.17	104.65	-2,071.77	2,098.42	2,600.47	2,514.91	85.56	30.395		
10,100.00	7,870.00	8,024.63	8,022.79	62.96	28.15	104.22	-2,072.23	2,098.14	2,505.85	2,420.17	85.68	29.247		
10,200.00	7,870.00	8,018.14	8,016.32	62.72	28.13	103.78	-2,072.68	2,097.86	2,411.65	2,325.84	85.81	28.105		
10,300.00	7,870.00	8,017.05	8,015.23	62.50	28.13	103.70	-2,072.75	2,097.83	2,317.90	2,231.92	85.98	26.957		
10,400.00	7,870.00	8,007.23	8,005.45	62.31	28.09	103.03	-2,073.46	2,097.39	2,224.71	2,138.59	86.12	25.832		
10,500.00	7,870.00	7,997.60	7,995.85	62.15	28.06	102.37	-2,074.15	2,096.97	2,132.09	2,045.82	86.27	24.714		
10,600.00	7,870.00	7,988.13	7,986.41	62.01	28.03	101.72	-2,074.83	2,096.57	2,040.14	1,953.71	86.44	23.602		
10,700.00	7,870.00	7,978.82	7,977.14	61.90	27.99	101.08	-2,075.49	2,096.19	1,948.95	1,862.33	86.62	22.500		
10,800.00	7,870.00	7,969.67	7,968.02	61.82	27.96	100.45	-2,076.13	2,095.84	1,858.63	1,771.81	86.82	21.407		
10,900.00	7,870.00	7,960.68	7,959.06	61.78	27.93	99.82	-2,076.75	2,095.49	1,769.32	1,682.28	87.04	20.327		
11,000.00	7,870.00	7,951.84	7,950.24	61.77	27.90	99.21	-2,077.36	2,095.17	1,681.17	1,593.89	87.29	19.260		
11,100.00	7,870.00	7,943.15	7,941.57	61.81	27.87	98.60	-2,077.96	2,094.86	1,594.39	1,506.84	87.55	18.211		
11,200.00	7,870.00	7,934.60	7,933.05	61.90	27.84	98.00	-2,078.54	2,094.57	1,509.20	1,421.36	87.84	17.181		
11,300.00	7,870.00	7,926.19	7,924.67	62.03	27.81	97.42	-2,079.10	2,094.30	1,425.90	1,337.74	88.16	16.175		
11,400.00	7,870.00	7,917.92	7,916.42	62.23	27.78	96.83	-2,079.65	2,094.04	1,344.83	1,256.34	88.49	15.197		
11,500.00	7,870.00	7,918.34	7,916.83	62.50	27.79	96.86	-2,079.56	2,094.05	1,266.40	1,177.45	88.96	14.236		
11,600.00	7,870.00	7,903.05	7,901.59	62.84	27.73	95.79	-2,080.63	2,093.59	1,191.22	1,101.98	89.24	13.348		
11,700.00	7,870.00	7,890.31	7,888.87	63.25	27.69	94.89	-2,081.44	2,093.24	1,119.85	1,030.31	89.54	12.506		
11,800.00	7,870.00	7,879.52	7,878.11	63.76	27.65	94.13	-2,082.08	2,092.96	1,053.08	963.23	89.85	11.721		
11,900.00	7,870.00	7,870.27	7,868.88	64.34	27.62	93.47	-2,082.58	2,092.74	991.85	901.72	90.12	11.005		
12,000.00	7,870.00	7,862.25	7,860.87	65.01	27.59	92.90	-2,082.99	2,092.56	937.26	846.93	90.33	10.376		
12,100.00	7,870.00	7,855.24	7,853.87	65.77	27.57	92.41	-2,083.32	2,092.41	890.56	800.13	90.43	9.848		
12,200.00	7,870.00	7,849.05	7,847.68	66.61	27.54	91.97	-2,083.59	2,092.28	853.03	762.68	90.35	9.442		
12,300.00	7,870.00	7,843.54	7,842.19	67.51	27.53	91.58	-2,083.82	2,092.18	825.94	735.89	90.05	9.172		
12,400.00	7,870.00	7,838.62	7,837.27	68.49	27.51	91.23	-2,084.02	2,092.09	810.34	720.84	89.50	9.054 SF		
12,477.85	7,870.00	7,835.13	7,833.78	69.29	27.50	90.98	-2,084.15	2,092.03	806.60	717.68	88.92	9.071 CC, ES		
12,500.00	7,870.00	7,834.19	7,832.84	69.52	27.49	90.91	-2,084.18	2,092.01	806.90	718.18	88.72	9.095		
12,600.00	7,870.00	7,830.18	7,828.83	70.61	27.48	90.63	-2,084.33	2,091.94	815.78	728.02	87.76	9.295		
12,700.00	7,870.00	7,826.54	7,825.19	71.75	27.47	90.37	-2,084.45	2,091.88	836.59	749.88	86.71	9.649		
12,800.00	7,870.00	7,823.21	7,821.87	72.93	27.45	90.13	-2,084.56	2,091.83	868.47	782.83	85.64	10.140		
12,900.00	7,870.00	7,820.16	7,818.82	74.14	27.44	89.92	-2,084.66	2,091.79	910.26	825.61	84.65	10.753		
13,000.00	7,870.00	7,817.35	7,816.01	75.39	27.43	89.72	-2,084.74	2,091.75	960.68	876.90	83.78	11.467		
13,100.00	7,870.00	7,814.76	7,813.43	76.67	27.43	89.53	-2,084.81	2,091.71	1,018.43	935.40	83.04	12.265		
13,200.00	7,870.00	7,812.36	7,811.03	77.98	27.42	89.36	-2,084.88	2,091.68	1,082.35	999.92	82.43	13.130		
13,300.00	7,870.00	7,810.14	7,808.80	79.31	27.41	89.20	-2,084.94	2,091.65	1,151.42	1,069.47	81.95	14.049		
13,400.00	7,870.00	7,808.06	7,806.73	80.67	27.40	89.06	-2,084.99	2,091.62	1,224.76	1,143.18	81.58	15.013		
13,500.00	7,870.00	7,807.77	7,806.44	82.04	27.40	89.04	-2,085.01	2,091.62	1,301.64	1,220.34	81.31	16.009		
13,600.00	7,870.00	7,805.63	7,804.29	83.43	27.39	88.88	-2,085.06	2,091.59	1,381.50	1,300.41	81.09	17.037		
13,700.00	7,870.00	7,803.51	7,802.17	84.84	27.39	88.73	-2,085.11	2,091.57	1,463.82	1,382.89	80.93	18.088		
13,800.00	7,870.00	7,801.41	7,800.08	86.27	27.38	88.59	-2,085.15	2,091.54	1,548.23	1,467.41	80.81	19.158		
13,900.00	7,870.00	7,799.34	7,798.00	87.71	27.37	88.44	-2,085.20	2,091.52	1,634.39	1,553.66	80.73	20.244		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,870.00	7,797.28	7,795.95	89.16	27.37	88.29	-2,085.24	2,091.50	1,722.05	1,641.36	80.68	21.343		
14,100.00	7,870.00	7,795.25	7,793.92	90.63	27.36	88.15	-2,085.28	2,091.48	1,810.98	1,730.33	80.65	22.454		
14,200.00	7,870.00	7,793.24	7,791.91	92.10	27.35	88.01	-2,085.33	2,091.45	1,901.01	1,820.37	80.64	23.574		
14,300.00	7,870.00	7,791.25	7,789.92	93.59	27.34	87.87	-2,085.37	2,091.43	1,991.99	1,911.36	80.64	24.703		
14,400.00	7,870.00	7,789.29	7,787.96	95.09	27.34	87.73	-2,085.41	2,091.41	2,083.80	2,003.15	80.65	25.838		
14,500.00	7,870.00	7,787.34	7,786.01	96.60	27.33	87.59	-2,085.45	2,091.39	2,176.33	2,095.66	80.67	26.980		
14,600.00	7,870.00	7,785.41	7,784.08	98.11	27.32	87.45	-2,085.49	2,091.37	2,269.48	2,188.79	80.69	28.126		
14,700.00	7,870.00	7,783.50	7,782.17	99.64	27.32	87.32	-2,085.53	2,091.35	2,363.20	2,282.48	80.72	29.277		
14,800.00	7,870.00	7,781.61	7,780.29	101.17	27.31	87.18	-2,085.57	2,091.33	2,457.41	2,376.66	80.75	30.432		
14,900.00	7,870.00	7,779.74	7,778.42	102.71	27.30	87.05	-2,085.61	2,091.31	2,552.06	2,471.27	80.79	31.590		
15,000.00	7,870.00	7,777.89	7,776.57	104.26	27.30	86.92	-2,085.65	2,091.29	2,647.10	2,566.27	80.83	32.750		
15,100.00	7,870.00	7,776.06	7,774.73	105.82	27.29	86.79	-2,085.69	2,091.27	2,742.49	2,661.63	80.87	33.914		
15,200.00	7,870.00	7,774.24	7,772.92	107.38	27.29	86.66	-2,085.72	2,091.25	2,838.20	2,757.29	80.91	35.079		
15,300.00	7,870.00	7,772.45	7,771.12	108.95	27.28	86.54	-2,085.76	2,091.23	2,934.19	2,853.24	80.95	36.247		
15,400.00	7,870.00	7,770.67	7,769.35	110.52	27.27	86.41	-2,085.80	2,091.22	3,030.45	2,949.45	80.99	37.415		
15,500.00	7,870.00	7,768.91	7,767.59	112.10	27.27	86.29	-2,085.83	2,091.20	3,126.93	3,045.89	81.04	38.586		
15,600.00	7,870.00	7,767.16	7,765.84	113.69	27.26	86.16	-2,085.87	2,091.18	3,223.63	3,142.55	81.08	39.757		
15,700.00	7,870.00	7,765.44	7,764.12	115.28	27.25	86.04	-2,085.90	2,091.16	3,320.52	3,239.39	81.13	40.929		
15,800.00	7,870.00	7,763.73	7,762.41	116.87	27.25	85.92	-2,085.93	2,091.15	3,417.59	3,336.42	81.17	42.102		
15,900.00	7,870.00	7,762.03	7,760.71	118.47	27.24	85.80	-2,085.97	2,091.13	3,514.83	3,433.61	81.22	43.276		
16,000.00	7,870.00	7,760.36	7,759.03	120.07	27.24	85.68	-2,086.00	2,091.11	3,612.21	3,530.95	81.27	44.450		
16,100.00	7,870.00	7,758.69	7,757.37	121.68	27.23	85.56	-2,086.03	2,091.10	3,709.73	3,628.42	81.31	45.624		
16,200.00	7,870.00	7,757.05	7,755.73	123.30	27.23	85.45	-2,086.06	2,091.08	3,807.38	3,726.03	81.36	46.799		
16,300.00	7,870.00	7,755.42	7,754.10	124.91	27.22	85.33	-2,086.10	2,091.06	3,905.15	3,823.75	81.40	47.973		
16,400.00	7,870.00	7,753.80	7,752.48	126.53	27.21	85.22	-2,086.13	2,091.05	4,003.03	3,921.58	81.45	49.148		
16,500.00	7,870.00	7,752.20	7,750.88	128.16	27.21	85.11	-2,086.16	2,091.03	4,101.01	4,019.52	81.49	50.322		
16,600.00	7,870.00	7,750.62	7,749.30	129.79	27.20	85.00	-2,086.19	2,091.02	4,199.08	4,117.54	81.54	51.497		
16,700.00	7,870.00	7,749.05	7,747.73	131.42	27.20	84.89	-2,086.22	2,091.00	4,297.25	4,215.66	81.59	52.671		
16,800.00	7,870.00	7,747.49	7,746.17	133.05	27.19	84.78	-2,086.25	2,090.99	4,395.49	4,313.86	81.63	53.845		
16,900.00	7,870.00	7,745.95	7,744.63	134.69	27.19	84.67	-2,086.28	2,090.97	4,493.81	4,412.13	81.68	55.018		
17,000.00	7,870.00	7,744.42	7,743.10	136.33	27.18	84.56	-2,086.30	2,090.96	4,592.21	4,510.48	81.73	56.191		
17,100.00	7,870.00	7,742.91	7,741.59	137.97	27.18	84.45	-2,086.33	2,090.95	4,690.67	4,608.89	81.77	57.363		
17,200.00	7,870.00	7,741.41	7,740.09	139.62	27.17	84.35	-2,086.36	2,090.93	4,789.19	4,707.37	81.82	58.535		
17,300.00	7,870.00	7,739.92	7,738.61	141.27	27.17	84.24	-2,086.39	2,090.92	4,887.77	4,805.91	81.86	59.706		
17,400.00	7,870.00	7,738.45	7,737.13	142.92	27.16	84.14	-2,086.41	2,090.90	4,986.41	4,904.50	81.91	60.877		
17,500.00	7,870.00	7,736.99	7,735.67	144.58	27.16	84.04	-2,086.44	2,090.89	5,085.10	5,003.15	81.96	62.046		
17,600.00	7,870.00	7,735.54	7,734.23	146.23	27.15	83.94	-2,086.47	2,090.88	5,183.84	5,101.84	82.00	63.215		
17,700.00	7,870.00	7,734.11	7,732.79	147.89	27.15	83.84	-2,086.49	2,090.86	5,282.63	5,200.58	82.05	64.383		
17,800.00	7,870.00	7,732.69	7,731.37	149.56	27.14	83.74	-2,086.52	2,090.85	5,381.46	5,299.37	82.10	65.550		
17,900.00	7,870.00	7,731.28	7,729.96	151.22	27.14	83.64	-2,086.54	2,090.84	5,480.34	5,398.20	82.14	66.717		
18,000.00	7,870.00	7,729.88	7,728.57	152.89	27.13	83.54	-2,086.57	2,090.83	5,579.25	5,497.06	82.19	67.882		
18,100.00	7,870.00	7,728.50	7,727.18	154.55	27.13	83.44	-2,086.59	2,090.81	5,678.20	5,595.97	82.24	69.046		
18,200.00	7,870.00	7,727.12	7,725.81	156.22	27.12	83.35	-2,086.62	2,090.80	5,777.19	5,694.91	82.28	70.210		
18,300.00	7,870.00	7,725.76	7,724.45	157.90	27.12	83.25	-2,086.64	2,090.79	5,876.21	5,793.88	82.33	71.372		
18,400.00	7,870.00	7,724.41	7,723.10	159.57	27.11	83.16	-2,086.67	2,090.78	5,975.27	5,892.89	82.38	72.533		
18,500.00	7,870.00	7,723.08	7,721.76	161.25	27.11	83.07	-2,086.69	2,090.77	6,074.35	5,991.92	82.43	73.693		
18,600.00	7,870.00	7,721.75	7,720.44	162.93	27.10	82.97	-2,086.71	2,090.76	6,173.46	6,090.99	82.48	74.852		
18,700.00	7,870.00	7,720.44	7,719.12	164.60	27.10	82.88	-2,086.74	2,090.74	6,272.60	6,190.08	82.52	76.009		
18,797.52	7,870.00	7,719.17	7,717.85	166.24	27.09	82.79	-2,086.76	2,090.73	6,369.31	6,286.74	82.57	77.137		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	70.24	764.73	2,128.51	2,262.11					
100.00	100.00	80.61	80.60	0.13	0.13	70.23	764.70	2,128.10	2,261.43	2,261.17	0.26	8,609.974		
200.00	200.00	232.34	232.29	0.49	0.65	70.19	765.36	2,124.75	2,259.61	2,258.47	1.14	1,980.990		
300.00	300.00	486.54	485.53	0.85	1.61	69.89	770.46	2,104.32	2,252.45	2,250.00	2.45	919.385		
400.00	400.00	634.20	631.49	1.21	2.23	69.52	778.37	2,083.59	2,240.98	2,237.61	3.37	664.527		
500.00	500.00	738.96	734.40	1.57	2.70	69.13	787.82	2,066.36	2,228.66	2,224.51	4.15	536.954		
600.00	600.00	822.45	816.04	1.93	3.09	68.76	797.71	2,051.99	2,216.66	2,211.80	4.87	455.604		
700.00	700.00	901.59	893.11	2.29	3.48	68.35	809.18	2,038.19	2,205.50	2,199.92	5.58	395.082		
800.00	800.00	977.56	966.81	2.64	3.86	67.91	822.01	2,024.97	2,195.40	2,189.10	6.31	348.167		
900.00	900.00	1,089.43	1,074.84	3.00	4.45	67.19	843.29	2,005.20	2,186.09	2,178.86	7.23	302.381		
1,000.00	1,000.00	1,180.50	1,162.81	3.36	4.93	66.61	860.03	1,988.60	2,176.27	2,168.21	8.06	270.043		
1,100.00	1,099.98	1,279.52	1,258.62	3.72	5.46	11.43	877.81	1,971.03	2,165.26	2,156.33	8.93	242.381		
1,200.00	1,199.84	1,382.59	1,357.72	4.07	6.04	10.79	898.38	1,951.58	2,150.88	2,141.02	9.86	218.218		
1,300.00	1,299.45	1,476.06	1,447.14	4.43	6.59	10.19	918.45	1,933.21	2,133.29	2,122.53	10.75	198.384		
1,400.00	1,398.70	1,567.34	1,534.32	4.80	7.14	9.60	938.60	1,915.13	2,112.74	2,101.08	11.65	181.345		
1,500.00	1,497.47	1,651.38	1,614.68	5.18	7.64	9.06	957.04	1,898.82	2,089.43	2,076.92	12.51	167.058		
1,600.00	1,595.62	1,748.30	1,707.54	5.57	8.21	8.46	977.81	1,880.46	2,063.25	2,049.81	13.44	153.558		
1,700.00	1,693.06	1,841.48	1,796.90	6.00	8.76	7.88	997.44	1,862.81	2,033.88	2,019.54	14.34	141.786		
1,800.00	1,789.64	1,937.73	1,889.22	6.45	9.33	7.27	1,017.63	1,844.52	2,001.40	1,986.13	15.27	131.031		
1,900.00	1,885.27	2,019.95	1,968.25	6.94	9.81	6.77	1,034.37	1,829.23	1,965.99	1,949.87	16.12	121.973		
2,000.00	1,979.82	2,127.94	2,072.33	7.47	10.43	6.10	1,055.37	1,809.55	1,927.51	1,910.41	17.10	112.732		
2,100.00	2,073.17	2,227.54	2,168.00	8.05	11.02	5.42	1,075.13	1,790.16	1,885.25	1,867.21	18.05	104.471		
2,200.00	2,165.21	2,313.73	2,250.62	8.67	11.54	4.78	1,092.59	1,772.91	1,839.88	1,820.94	18.93	97.184		
2,300.00	2,255.84	2,397.75	2,331.22	9.35	12.04	4.13	1,109.47	1,756.20	1,791.70	1,771.90	19.81	90.463		
2,400.00	2,344.94	2,476.46	2,406.86	10.09	12.51	3.50	1,124.94	1,740.88	1,740.87	1,720.22	20.65	84.306		
2,500.00	2,432.39	2,550.09	2,477.65	10.89	12.95	2.86	1,139.50	1,726.81	1,687.62	1,666.15	21.47	78.604		
2,519.29	2,449.07	2,563.76	2,490.78	11.05	13.03	2.74	1,142.26	1,724.22	1,677.09	1,655.46	21.63	77.536		
2,600.00	2,518.69	2,621.52	2,546.24	11.74	13.37	2.13	1,154.18	1,713.32	1,633.13	1,610.84	22.28	73.286		
2,700.00	2,604.95	2,695.21	2,616.99	12.62	13.81	1.31	1,169.61	1,699.66	1,579.28	1,556.16	23.12	68.315		
2,800.00	2,691.22	2,764.13	2,683.26	13.52	14.21	0.51	1,184.07	1,687.40	1,526.28	1,502.35	23.93	63.773		
2,900.00	2,777.48	2,846.70	2,762.80	14.43	14.69	-0.48	1,201.23	1,673.41	1,474.10	1,449.27	24.82	59.387		
3,000.00	2,863.75	2,936.63	2,849.45	15.35	15.21	-1.63	1,219.61	1,657.85	1,421.87	1,396.12	25.75	55.216		
3,100.00	2,950.01	3,018.38	2,928.34	16.28	15.67	-2.73	1,235.74	1,643.76	1,369.74	1,343.09	26.65	51.399		
3,200.00	3,036.27	3,099.13	3,006.45	17.22	16.13	-3.86	1,251.32	1,630.47	1,318.31	1,290.76	27.55	47.850		
3,300.00	3,122.54	3,191.95	3,095.98	18.17	16.66	-5.31	1,269.59	1,614.15	1,266.83	1,238.30	28.53	44.409		
3,400.00	3,208.80	3,274.15	3,174.95	19.13	17.15	-6.76	1,286.44	1,598.75	1,215.65	1,186.15	29.50	41.214		
3,500.00	3,295.07	3,360.82	3,258.28	20.09	17.66	-8.40	1,303.85	1,582.51	1,164.92	1,134.41	30.51	38.185		
3,600.00	3,381.33	3,438.72	3,333.33	21.05	18.11	-9.96	1,319.08	1,568.21	1,114.87	1,083.36	31.50	35.388		
3,700.00	3,467.59	3,518.76	3,410.33	22.02	18.59	-11.72	1,335.11	1,553.36	1,065.82	1,033.27	32.55	32.739		
3,800.00	3,553.86	3,600.16	3,488.35	22.99	19.07	-13.70	1,352.11	1,537.60	1,017.83	984.16	33.67	30.234		
3,900.00	3,640.12	3,680.43	3,565.45	23.97	19.55	-15.79	1,368.49	1,522.39	970.96	936.15	34.82	27.888		
4,000.00	3,726.38	3,759.90	3,642.00	24.95	20.02	-17.97	1,384.31	1,508.08	925.59	889.58	36.01	25.704		
4,100.00	3,812.65	3,840.39	3,719.46	25.93	20.49	-20.37	1,400.55	1,493.47	881.79	844.52	37.27	23.657		
4,200.00	3,898.91	3,920.45	3,796.42	26.91	20.96	-22.98	1,416.99	1,478.72	839.85	801.23	38.62	21.745		
4,300.00	3,985.18	4,002.40	3,875.17	27.90	21.45	-25.87	1,433.88	1,463.60	799.99	759.92	40.07	19.967		
4,400.00	4,071.44	4,087.26	3,956.85	28.88	21.94	-29.07	1,451.00	1,448.20	762.28	720.67	41.61	18.320		
4,500.00	4,157.70	4,170.36	4,036.99	29.87	22.43	-32.41	1,467.26	1,433.39	726.88	683.66	43.22	16.817		
4,600.00	4,243.97	4,252.69	4,116.24	30.86	22.91	-36.02	1,483.49	1,418.16	694.45	649.52	44.93	15.457		
4,700.00	4,330.23	4,337.28	4,197.64	31.85	23.40	-40.00	1,500.05	1,402.11	665.37	618.64	46.73	14.238		
4,800.00	4,416.49	4,418.85	4,276.27	32.84	23.88	-44.05	1,515.42	1,386.77	639.79	591.25	48.54	13.180		
4,900.00	4,502.76	4,491.01	4,345.78	33.84	24.30	-47.78	1,529.68	1,373.70	619.54	569.31	50.23	12.334		
5,000.00	4,589.02	4,576.73	4,428.22	34.83	24.81	-52.41	1,546.87	1,357.73	604.48	552.44	52.05	11.615		

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,666.46	4,514.64	35.82	25.33	-57.45	1,563.95	1,340.60	594.01	540.17	53.84	11.034		
5,200.00	4,761.55	4,770.89	4,616.06	36.82	25.90	-63.27	1,581.48	1,323.04	587.09	531.42	55.67	10.546		
5,300.00	4,847.81	4,873.28	4,716.48	37.82	26.39	-68.88	1,595.43	1,308.79	582.48	525.20	57.28	10.169		
5,383.72	4,920.04	4,950.37	4,792.44	38.65	26.73	-73.07	1,604.53	1,299.31	581.15	522.72	58.43	9.946 CC		
5,400.00	4,934.08	4,965.63	4,807.51	38.81	26.80	-73.89	1,606.25	1,297.57	581.20	522.56	58.64	9.911 ES		
5,500.00	5,020.34	5,054.46	4,895.28	39.81	27.18	-78.63	1,616.03	1,288.07	584.02	524.18	59.84	9.759		
5,600.00	5,106.60	5,166.17	5,006.12	40.81	27.61	-84.40	1,626.25	1,278.65	589.44	528.36	61.08	9.650		
5,700.00	5,192.87	5,275.86	5,115.45	41.81	27.97	-89.85	1,632.87	1,273.04	595.65	533.53	62.12	9.589		
5,800.00	5,279.13	5,381.21	5,220.70	42.81	28.26	-94.97	1,636.32	1,270.06	603.13	540.12	63.01	9.572 SF		
5,900.00	5,365.40	5,481.27	5,320.75	43.81	28.51	-99.74	1,637.26	1,269.02	612.26	548.49	63.77	9.601		
6,000.00	5,451.66	5,572.48	5,411.95	44.81	28.72	-103.96	1,637.13	1,269.05	624.11	559.67	64.44	9.684		
6,100.00	5,537.92	5,659.20	5,498.68	45.81	28.91	-107.81	1,637.15	1,269.54	639.48	574.43	65.05	9.831		
6,200.00	5,624.19	5,744.63	5,584.11	46.81	29.10	-111.46	1,637.03	1,269.83	658.41	592.84	65.57	10.042		
6,300.00	5,710.45	5,829.71	5,669.18	47.81	29.29	-114.94	1,636.91	1,269.97	680.70	614.69	66.01	10.312		
6,400.00	5,796.72	5,913.92	5,753.40	48.81	29.48	-118.20	1,636.85	1,269.92	706.11	639.71	66.40	10.635		
6,500.00	5,882.98	5,997.03	5,836.50	49.81	29.69	-121.22	1,637.06	1,269.64	734.45	667.72	66.74	11.006		
6,600.00	5,969.24	6,087.63	5,927.10	50.82	29.91	-124.30	1,637.44	1,269.45	765.05	697.98	67.06	11.408		
6,700.00	6,055.51	6,170.95	6,010.42	51.82	30.13	-126.92	1,637.88	1,269.41	797.55	730.21	67.35	11.843		
6,800.00	6,141.77	6,262.17	6,101.63	52.82	30.36	-129.58	1,638.70	1,269.42	831.86	764.20	67.65	12.296		
6,900.00	6,228.03	6,350.35	6,189.81	53.83	30.58	-131.95	1,639.68	1,269.94	867.23	799.28	67.95	12.763		
7,000.00	6,314.30	6,437.64	6,277.09	54.83	30.81	-134.12	1,640.67	1,270.49	903.91	835.66	68.24	13.245		
7,100.00	6,400.56	6,534.46	6,373.90	55.83	31.05	-136.35	1,641.90	1,271.50	941.44	872.84	68.60	13.723		
7,200.00	6,486.83	6,619.34	6,458.74	56.84	31.27	-138.12	1,643.70	1,273.14	979.25	910.33	68.92	14.209		
7,300.00	6,573.09	6,700.90	6,540.29	57.84	31.48	-139.76	1,644.44	1,274.01	1,018.67	949.47	69.20	14.721		
7,400.00	6,659.35	6,791.60	6,630.97	58.84	31.71	-141.42	1,646.06	1,274.91	1,058.97	989.41	69.57	15.223		
7,500.00	6,745.62	6,886.73	6,726.09	59.85	31.95	-143.12	1,646.41	1,276.51	1,099.43	1,029.49	69.94	15.719		
7,600.00	6,831.88	6,964.40	6,803.75	60.85	32.14	-144.43	1,646.37	1,278.15	1,140.27	1,070.06	70.21	16.240		
7,700.00	6,918.14	7,019.13	6,858.47	61.86	32.28	-145.29	1,646.55	1,278.06	1,183.65	1,113.33	70.32	16.833		
7,800.00	7,004.41	7,109.49	6,948.81	62.86	32.54	-146.60	1,647.27	1,276.42	1,228.95	1,158.20	70.74	17.372		
7,900.00	7,090.67	7,202.96	7,042.28	63.87	32.80	-147.87	1,648.08	1,275.66	1,273.84	1,202.62	71.21	17.888		
8,000.00	7,176.94	7,293.18	7,132.50	64.87	33.05	-149.03	1,648.59	1,275.29	1,318.85	1,247.19	71.66	18.404		
8,027.52	7,200.68	7,318.09	7,157.40	65.15	33.11	-149.33	1,648.75	1,275.23	1,331.27	1,259.48	71.79	18.544		
8,050.00	7,220.18	7,339.52	7,178.83	65.37	33.17	-154.10	1,648.87	1,275.20	1,341.39	1,269.49	71.90	18.655		
8,100.00	7,264.25	7,388.01	7,227.32	65.85	33.30	-165.47	1,649.06	1,275.28	1,363.71	1,291.53	72.18	18.892		
8,150.00	7,308.99	7,434.34	7,273.65	66.28	33.42	-177.71	1,649.11	1,275.49	1,385.58	1,313.12	72.47	19.120		
8,200.00	7,354.07	7,478.38	7,317.69	66.67	33.54	169.65	1,649.15	1,275.68	1,406.94	1,334.19	72.75	19.338		
8,250.00	7,399.14	7,522.67	7,361.98	67.02	33.66	157.32	1,649.17	1,275.84	1,427.65	1,354.59	73.07	19.539		
8,300.00	7,443.85	7,567.13	7,406.44	67.32	33.77	145.98	1,649.09	1,276.00	1,447.59	1,374.19	73.40	19.722		
8,350.00	7,487.88	7,611.16	7,450.47	67.56	33.88	136.08	1,648.87	1,276.17	1,466.68	1,392.93	73.75	19.888		
8,400.00	7,530.87	7,654.77	7,494.08	67.75	33.99	127.77	1,648.66	1,276.34	1,484.87	1,410.75	74.12	20.034		
8,450.00	7,572.51	7,696.99	7,536.30	67.90	34.10	120.92	1,648.50	1,276.52	1,502.15	1,427.64	74.50	20.162		
8,500.00	7,612.48	7,738.50	7,577.80	68.00	34.21	115.36	1,648.31	1,276.72	1,518.53	1,443.62	74.91	20.273		
8,550.00	7,650.47	7,778.17	7,617.48	68.05	34.31	110.86	1,648.01	1,276.95	1,534.05	1,458.73	75.32	20.368		
8,600.00	7,686.20	7,813.49	7,652.79	68.06	34.40	107.15	1,647.67	1,277.19	1,548.79	1,473.07	75.72	20.453		
8,650.00	7,719.39	7,844.97	7,684.27	68.03	34.48	104.06	1,647.38	1,277.36	1,562.89	1,486.76	76.13	20.530		
8,700.00	7,749.79	7,873.78	7,713.08	67.97	34.55	101.50	1,647.12	1,277.47	1,576.41	1,499.87	76.54	20.596		
8,750.00	7,777.17	7,900.34	7,739.63	67.87	34.62	99.37	1,646.90	1,277.55	1,589.43	1,512.47	76.96	20.653		
8,800.00	7,801.32	7,924.60	7,763.89	67.74	34.68	97.57	1,646.68	1,277.61	1,602.00	1,524.61	77.39	20.701		
8,850.00	7,822.06	7,945.53	7,784.83	67.59	34.74	96.01	1,646.49	1,277.66	1,614.18	1,536.37	77.81	20.744		
8,900.00	7,839.23	7,962.98	7,802.28	67.41	34.78	94.63	1,646.32	1,277.70	1,626.02	1,547.78	78.24	20.783		
8,950.00	7,852.69	7,976.81	7,816.10	67.22	34.82	93.39	1,646.18	1,277.73	1,637.55	1,558.89	78.66	20.819		
9,000.00	7,862.35	7,986.97	7,826.27	67.00	34.84	92.25	1,646.08	1,277.75	1,648.79	1,569.72	79.07	20.853		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,993.39	7,832.69	66.78	34.86	91.20	1,646.01	1,277.77	1,659.72	1,580.26	79.47	20.886		
9,098.65	7,870.00	7,995.80	7,835.09	66.55	34.87	90.25	1,645.99	1,277.77	1,670.04	1,590.20	79.84	20.918		
9,100.00	7,870.00	7,995.82	7,835.11	66.55	34.87	90.25	1,645.99	1,277.77	1,670.32	1,590.48	79.85	20.919		
9,200.00	7,870.00	7,996.86	7,836.15	66.09	34.87	90.29	1,645.98	1,277.77	1,694.07	1,613.51	80.57	21.027		
9,300.00	7,870.00	7,997.90	7,837.19	65.65	34.87	90.32	1,645.97	1,277.78	1,723.31	1,642.08	81.23	21.216		
9,400.00	7,870.00	7,998.94	7,838.24	65.24	34.88	90.36	1,645.96	1,277.78	1,757.75	1,675.93	81.82	21.483		
9,500.00	7,870.00	7,999.99	7,839.28	64.85	34.88	90.40	1,645.95	1,277.78	1,797.10	1,714.75	82.35	21.822		
9,600.00	7,870.00	8,001.03	7,840.32	64.48	34.88	90.43	1,645.94	1,277.78	1,841.05	1,758.23	82.82	22.229		
9,700.00	7,870.00	8,002.07	7,841.36	64.13	34.88	90.47	1,645.93	1,277.78	1,889.28	1,806.04	83.23	22.699		
9,800.00	7,870.00	8,003.11	7,842.40	63.80	34.89	90.51	1,645.92	1,277.79	1,941.46	1,857.87	83.59	23.227		
9,900.00	7,870.00	8,004.14	7,843.44	63.50	34.89	90.54	1,645.90	1,277.79	1,997.28	1,913.39	83.89	23.808		
10,000.00	7,870.00	8,005.18	7,844.47	63.22	34.89	90.58	1,645.89	1,277.79	2,056.46	1,972.31	84.15	24.438		
10,100.00	7,870.00	8,006.22	7,845.51	62.96	34.89	90.61	1,645.88	1,277.79	2,118.70	2,034.33	84.37	25.112		
10,200.00	7,870.00	8,007.26	7,846.55	62.72	34.90	90.65	1,645.87	1,277.80	2,183.76	2,099.20	84.55	25.827		
10,300.00	7,870.00	8,008.29	7,847.58	62.50	34.90	90.69	1,645.86	1,277.80	2,251.37	2,166.67	84.70	26.579		
10,400.00	7,870.00	8,009.33	7,848.62	62.31	34.90	90.72	1,645.85	1,277.80	2,321.32	2,236.50	84.83	27.365		
10,500.00	7,870.00	8,010.36	7,849.65	62.15	34.90	90.76	1,645.84	1,277.80	2,393.41	2,308.48	84.93	28.182		
10,600.00	7,870.00	8,011.40	7,850.69	62.01	34.91	90.80	1,645.83	1,277.81	2,467.45	2,382.44	85.01	29.027		
10,700.00	7,870.00	8,012.43	7,851.72	61.90	34.91	90.83	1,645.82	1,277.81	2,543.26	2,458.19	85.07	29.897		
10,800.00	7,870.00	8,013.46	7,852.75	61.82	34.91	90.87	1,645.81	1,277.81	2,620.69	2,535.58	85.11	30.790		
10,900.00	7,870.00	8,014.49	7,853.79	61.78	34.92	90.90	1,645.80	1,277.81	2,699.61	2,614.46	85.15	31.705		
11,000.00	7,870.00	8,015.53	7,854.82	61.77	34.92	90.94	1,645.79	1,277.82	2,779.89	2,694.72	85.17	32.640		
11,100.00	7,870.00	8,016.56	7,855.85	61.81	34.92	90.98	1,645.78	1,277.82	2,861.40	2,776.22	85.18	33.592		
11,200.00	7,870.00	8,017.59	7,856.88	61.90	34.92	91.01	1,645.77	1,277.82	2,944.06	2,858.87	85.19	34.561		
11,300.00	7,870.00	8,018.62	7,857.91	62.03	34.93	91.05	1,645.76	1,277.82	3,027.76	2,942.58	85.18	35.544		
11,400.00	7,870.00	8,019.64	7,858.94	62.23	34.93	91.09	1,645.75	1,277.83	3,112.43	3,027.25	85.17	36.542		
11,500.00	7,870.00	8,020.67	7,859.96	62.50	34.93	91.12	1,645.74	1,277.83	3,197.98	3,112.81	85.16	37.552		
11,600.00	7,870.00	8,021.70	7,860.99	62.84	34.93	91.16	1,645.73	1,277.83	3,284.34	3,199.20	85.15	38.573		
11,700.00	7,870.00	8,022.73	7,862.02	63.25	34.94	91.19	1,645.72	1,277.83	3,371.46	3,286.34	85.13	39.606		
11,800.00	7,870.00	8,023.75	7,863.04	63.76	34.94	91.23	1,645.71	1,277.84	3,459.28	3,374.17	85.10	40.648		
11,900.00	7,870.00	8,024.78	7,864.07	64.34	34.94	91.27	1,645.69	1,277.84	3,547.74	3,462.66	85.08	41.699		
12,000.00	7,870.00	8,025.80	7,865.09	65.01	34.94	91.30	1,645.68	1,277.84	3,636.80	3,551.74	85.05	42.758		
12,100.00	7,870.00	8,026.83	7,866.12	65.77	34.95	91.34	1,645.67	1,277.84	3,726.41	3,641.38	85.03	43.826		
12,200.00	7,870.00	8,027.85	7,867.14	66.61	34.95	91.37	1,645.66	1,277.85	3,816.54	3,731.54	85.00	44.900		
12,300.00	7,870.00	8,028.87	7,868.16	67.51	34.95	91.41	1,645.65	1,277.85	3,907.15	3,822.18	84.97	45.981		
12,400.00	7,870.00	8,029.90	7,869.19	68.49	34.96	91.44	1,645.64	1,277.85	3,998.20	3,913.26	84.94	47.068		
12,500.00	7,870.00	8,030.92	7,870.21	69.52	34.96	91.48	1,645.63	1,277.85	4,089.68	4,004.76	84.92	48.161		
12,600.00	7,870.00	8,031.94	7,871.23	70.61	34.96	91.52	1,645.62	1,277.86	4,181.54	4,096.65	84.89	49.259		
12,700.00	7,870.00	8,032.96	7,872.25	71.75	34.96	91.55	1,645.61	1,277.86	4,273.77	4,188.91	84.86	50.362		
12,800.00	7,870.00	8,033.98	7,873.27	72.93	34.97	91.59	1,645.60	1,277.86	4,366.34	4,281.51	84.83	51.469		
12,900.00	7,870.00	8,035.00	7,874.29	74.14	34.97	91.62	1,645.59	1,277.86	4,459.24	4,374.43	84.81	52.580		
13,000.00	7,870.00	8,036.02	7,875.31	75.39	34.97	91.66	1,645.58	1,277.87	4,552.43	4,467.65	84.78	53.696		
13,100.00	7,870.00	8,037.03	7,876.32	76.67	34.97	91.69	1,645.57	1,277.87	4,645.90	4,561.15	84.76	54.814		
13,200.00	7,870.00	8,038.05	7,877.34	77.98	34.98	91.73	1,645.56	1,277.87	4,739.65	4,654.91	84.73	55.936		
13,300.00	7,870.00	8,039.07	7,878.36	79.31	34.98	91.77	1,645.55	1,277.87	4,833.64	4,748.93	84.71	57.061		
13,400.00	7,870.00	8,040.08	7,879.37	80.67	34.98	91.80	1,645.54	1,277.88	4,927.87	4,843.18	84.69	58.189		
13,500.00	7,870.00	8,041.10	7,880.39	82.04	34.98	91.84	1,645.53	1,277.88	5,022.32	4,937.65	84.67	59.319		
13,600.00	7,870.00	8,042.11	7,881.40	83.43	34.99	91.87	1,645.52	1,277.88	5,116.98	5,032.34	84.65	60.452		
13,700.00	7,870.00	8,043.13	7,882.41	84.84	34.99	91.91	1,645.51	1,277.89	5,211.84	5,127.22	84.63	61.586		
13,800.00	7,870.00	8,044.14	7,883.43	86.27	34.99	91.94	1,645.50	1,277.89	5,306.89	5,222.28	84.61	62.723		
13,900.00	7,870.00	8,045.15	7,884.44	87.71	34.99	91.98	1,645.49	1,277.89	5,402.12	5,317.53	84.59	63.862		
14,000.00	7,870.00	8,046.16	7,885.45	89.16	35.00	92.01	1,645.48	1,277.89	5,497.52	5,412.94	84.57	65.002		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	8,047.17	7,886.46	90.63	35.00	92.05	1,645.47	1,277.90	5,593.08	5,508.52	84.56	66.143		
14,200.00	7,870.00	8,048.18	7,887.47	92.10	35.00	92.09	1,645.46	1,277.90	5,688.79	5,604.24	84.55	67.286		
14,300.00	7,870.00	8,049.19	7,888.48	93.59	35.00	92.12	1,645.45	1,277.90	5,784.64	5,700.11	84.53	68.430		
14,400.00	7,870.00	8,050.20	7,889.49	95.09	35.01	92.16	1,645.44	1,277.91	5,880.64	5,796.12	84.52	69.576		
14,500.00	7,870.00	8,051.21	7,890.50	96.60	35.01	92.19	1,645.43	1,277.91	5,976.76	5,892.25	84.51	70.722		
14,600.00	7,870.00	8,052.22	7,891.51	98.11	35.01	92.23	1,645.42	1,277.91	6,073.01	5,988.51	84.50	71.869		
14,700.00	7,870.00	8,053.23	7,892.52	99.64	35.02	92.26	1,645.41	1,277.91	6,169.38	6,084.89	84.49	73.017		
14,800.00	7,870.00	8,054.23	7,893.52	101.17	35.02	92.30	1,645.40	1,277.92	6,265.87	6,181.38	84.49	74.165		
14,900.00	7,870.00	8,055.24	7,894.53	102.71	35.02	92.33	1,645.39	1,277.92	6,362.46	6,277.98	84.48	75.314		
15,000.00	7,870.00	8,056.25	7,895.54	104.26	35.02	92.37	1,645.38	1,277.92	6,459.15	6,374.68	84.47	76.463		
15,100.00	7,870.00	8,057.25	7,896.54	105.82	35.03	92.40	1,645.37	1,277.93	6,555.94	6,471.47	84.47	77.613		
15,200.00	7,870.00	8,058.26	7,897.54	107.38	35.03	92.44	1,645.36	1,277.93	6,652.83	6,568.37	84.47	78.763		
15,300.00	7,870.00	8,059.26	7,898.55	108.95	35.03	92.47	1,645.35	1,277.93	6,749.81	6,665.35	84.46	79.913		
15,400.00	7,870.00	8,060.26	7,899.55	110.52	35.03	92.51	1,645.34	1,277.93	6,846.88	6,762.41	84.46	81.063		
15,500.00	7,870.00	8,061.26	7,900.55	112.10	35.04	92.54	1,645.33	1,277.94	6,944.03	6,859.56	84.46	82.213		
15,600.00	7,870.00	8,062.27	7,901.55	113.69	35.04	92.58	1,645.32	1,277.94	7,041.26	6,956.79	84.46	83.363		
15,700.00	7,870.00	8,063.27	7,902.56	115.28	35.04	92.61	1,645.31	1,277.94	7,138.56	7,054.09	84.47	84.513		
15,800.00	7,870.00	8,064.27	7,903.56	116.87	35.04	92.65	1,645.30	1,277.95	7,235.94	7,151.47	84.47	85.663		
15,900.00	7,870.00	8,065.27	7,904.56	118.47	35.05	92.68	1,645.29	1,277.95	7,333.39	7,248.91	84.47	86.812		
16,000.00	7,870.00	8,066.27	7,905.55	120.07	35.05	92.72	1,645.28	1,277.95	7,430.90	7,346.43	84.48	87.962		
16,100.00	7,870.00	8,067.26	7,906.55	121.68	35.05	92.75	1,645.27	1,277.95	7,528.49	7,444.00	84.48	89.110		
16,200.00	7,870.00	8,068.26	7,907.55	123.30	35.05	92.79	1,645.26	1,277.96	7,626.13	7,541.64	84.49	90.259		
16,300.00	7,870.00	8,069.26	7,908.55	124.91	35.06	92.82	1,645.25	1,277.96	7,723.83	7,639.33	84.50	91.407		
16,400.00	7,870.00	8,070.26	7,909.54	126.53	35.06	92.86	1,645.24	1,277.96	7,821.60	7,737.09	84.51	92.554		
16,500.00	7,870.00	8,071.25	7,910.54	128.16	35.06	92.89	1,645.23	1,277.97	7,919.41	7,834.90	84.52	93.701		
16,600.00	7,870.00	8,072.25	7,911.54	129.79	35.06	92.93	1,645.22	1,277.97	8,017.29	7,932.76	84.53	94.847		
16,700.00	7,870.00	8,073.24	7,912.53	131.42	35.07	92.96	1,645.21	1,277.97	8,115.21	8,030.67	84.54	95.992		
16,800.00	7,870.00	8,074.24	7,913.52	133.05	35.07	93.00	1,645.20	1,277.98	8,213.18	8,128.63	84.55	97.136		
16,900.00	7,870.00	8,075.23	7,914.52	134.69	35.07	93.03	1,645.19	1,277.98	8,311.20	8,226.64	84.57	98.280		
17,000.00	7,870.00	8,076.22	7,915.51	136.33	35.07	93.07	1,645.18	1,277.98	8,409.27	8,324.69	84.58	99.423		
17,100.00	7,870.00	8,077.22	7,916.50	137.97	35.08	93.10	1,645.17	1,277.99	8,507.38	8,422.79	84.60	100.565		
17,200.00	7,870.00	8,078.21	7,917.49	139.62	35.08	93.14	1,645.16	1,277.99	8,605.54	8,520.93	84.61	101.706		
17,300.00	7,870.00	8,079.32	7,918.61	141.27	35.08	93.18	1,645.15	1,277.99	8,703.74	8,619.11	84.63	102.846		
17,400.00	7,870.00	8,080.95	7,920.24	142.92	35.09	93.23	1,645.13	1,278.00	8,801.98	8,717.33	84.65	103.985		
17,500.00	7,870.00	8,082.59	7,921.88	144.58	35.09	93.29	1,645.11	1,278.00	8,900.25	8,815.59	84.67	105.122		
17,600.00	7,870.00	8,084.25	7,923.54	146.23	35.10	93.35	1,645.10	1,278.01	8,998.57	8,913.88	84.69	106.259		
17,700.00	7,870.00	8,085.93	7,925.22	147.89	35.10	93.41	1,645.08	1,278.01	9,096.92	9,012.21	84.71	107.394		
17,800.00	7,870.00	8,087.63	7,926.92	149.56	35.10	93.47	1,645.06	1,278.02	9,195.31	9,110.58	84.73	108.528		
17,900.00	7,870.00	8,089.35	7,928.64	151.22	35.11	93.53	1,645.04	1,278.03	9,293.73	9,208.98	84.75	109.660		
18,000.00	7,870.00	8,091.09	7,930.38	152.89	35.11	93.59	1,645.03	1,278.03	9,392.18	9,307.41	84.77	110.792		
18,100.00	7,870.00	8,092.85	7,932.13	154.55	35.12	93.65	1,645.01	1,278.04	9,490.67	9,405.87	84.80	111.922		
18,200.00	7,870.00	8,094.62	7,933.91	156.22	35.12	93.71	1,644.99	1,278.05	9,589.19	9,504.37	84.82	113.051		
18,300.00	7,870.00	8,096.42	7,935.71	157.90	35.13	93.77	1,644.97	1,278.05	9,687.74	9,602.89	84.85	114.178		
18,400.00	7,870.00	8,098.24	7,937.53	159.57	35.13	93.84	1,644.95	1,278.06	9,786.31	9,701.44	84.87	115.304		
18,500.00	7,870.00	8,100.08	7,939.37	161.25	35.14	93.90	1,644.93	1,278.07	9,884.92	9,800.02	84.90	116.429		
18,600.00	7,870.00	8,101.94	7,941.23	162.93	35.14	93.97	1,644.91	1,278.08	9,983.55	9,898.62	84.93	117.552		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.64	-2,062.14	2,162.36	2,988.31					
100.00	100.00	73.36	73.36	0.13	0.12	133.64	-2,062.05	2,162.19	2,987.87	2,987.61	0.25	N/A		
200.00	200.00	194.58	194.58	0.49	0.46	133.64	-2,061.25	2,161.45	2,986.96	2,986.01	0.95	3,133.719		
300.00	300.00	875.61	868.10	0.85	3.22	132.57	-1,974.14	2,149.20	2,981.36	2,977.36	4.00	745.714		
400.00	400.00	1,205.78	1,182.01	1.21	5.12	131.32	-1,873.98	2,131.44	2,955.31	2,949.43	5.88	502.820		
500.00	500.00	1,359.68	1,325.32	1.57	6.13	130.60	-1,818.70	2,122.01	2,926.23	2,919.24	6.99	418.770		
600.00	600.00	1,508.77	1,463.14	1.93	7.16	129.84	-1,762.63	2,112.42	2,896.29	2,888.18	8.11	357.081		
700.00	700.00	1,625.88	1,570.38	2.29	8.01	129.20	-1,716.33	2,104.19	2,864.58	2,855.49	9.10	314.813		
800.00	800.00	1,720.04	1,656.35	2.64	8.70	128.66	-1,678.44	2,097.85	2,832.87	2,822.89	9.98	283.769		
900.00	900.00	1,806.74	1,735.52	3.00	9.34	128.16	-1,643.64	2,091.64	2,801.17	2,790.33	10.84	258.476		
1,000.00	1,000.00	1,873.00	1,796.24	3.36	9.83	127.77	-1,617.51	2,087.20	2,770.45	2,758.86	11.59	239.074		
1,100.00	1,099.98	1,979.66	1,894.08	3.72	10.62	73.18	-1,575.62	2,080.16	2,739.70	2,727.13	12.56	218.052		
1,200.00	1,199.84	2,041.45	1,950.97	4.07	11.07	73.52	-1,551.87	2,075.88	2,708.43	2,695.14	13.29	203.750		
1,300.00	1,299.45	2,141.17	2,043.12	4.43	11.79	73.78	-1,514.44	2,068.77	2,676.84	2,662.61	14.22	188.208		
1,400.00	1,398.70	2,260.29	2,152.74	4.80	12.66	74.06	-1,468.66	2,060.07	2,643.68	2,628.42	15.27	173.164		
1,500.00	1,497.47	2,366.25	2,249.90	5.18	13.45	74.48	-1,427.20	2,051.83	2,608.87	2,592.61	16.26	160.492		
1,600.00	1,595.62	2,444.00	2,321.33	5.57	14.03	75.07	-1,397.10	2,045.64	2,573.38	2,556.28	17.10	150.461		
1,700.00	1,693.06	2,513.10	2,385.10	6.00	14.53	75.76	-1,371.08	2,040.22	2,537.80	2,519.88	17.91	141.662		
1,800.00	1,789.64	2,641.30	2,503.09	6.45	15.47	76.50	-1,321.82	2,031.01	2,501.51	2,482.45	19.05	131.280		
1,900.00	1,885.27	2,708.36	2,564.48	6.94	15.98	77.30	-1,295.15	2,026.82	2,464.16	2,444.23	19.93	123.659		
2,000.00	1,979.82	2,811.12	2,658.77	7.47	16.75	78.25	-1,254.85	2,020.09	2,426.30	2,405.30	21.00	115.535		
2,100.00	2,073.17	2,940.81	2,777.98	8.05	17.71	79.48	-1,205.06	2,008.82	2,386.74	2,364.53	22.21	107.483		
2,200.00	2,165.21	3,046.50	2,874.46	8.67	18.52	80.77	-1,162.94	1,999.46	2,345.63	2,322.29	23.34	100.516		
2,300.00	2,255.84	3,175.19	2,991.25	9.35	19.53	82.30	-1,110.10	1,988.07	2,303.46	2,278.85	24.61	93.590		
2,400.00	2,344.94	3,248.62	3,057.56	10.09	20.11	83.69	-1,079.35	1,981.14	2,260.00	2,234.32	25.68	88.003		
2,500.00	2,432.39	3,315.56	3,118.37	10.89	20.63	85.12	-1,052.00	1,975.14	2,217.32	2,190.56	26.76	82.846		
2,519.29	2,449.07	3,329.93	3,131.44	11.05	20.75	85.42	-1,046.15	1,973.91	2,209.16	2,182.17	26.98	81.869		
2,600.00	2,518.69	3,389.39	3,185.54	11.74	21.21	85.91	-1,021.97	1,969.03	2,175.31	2,147.40	27.91	77.932		
2,700.00	2,604.95	3,457.09	3,247.27	12.62	21.73	86.47	-994.66	1,963.88	2,134.29	2,105.22	29.06	73.436		
2,800.00	2,691.22	3,545.06	3,327.74	13.52	22.40	87.25	-959.74	1,957.30	2,094.09	2,063.79	30.30	69.115		
2,900.00	2,777.48	3,668.24	3,440.00	14.43	23.35	88.37	-909.99	1,947.51	2,053.54	2,021.88	31.66	64.872		
3,000.00	2,863.75	3,733.88	3,499.50	15.35	23.86	88.96	-882.67	1,942.75	2,012.92	1,980.07	32.85	61.274		
3,100.00	2,950.01	3,808.47	3,567.41	16.28	24.44	89.66	-852.28	1,937.54	1,973.44	1,939.36	34.08	57.912		
3,200.00	3,036.27	3,883.92	3,636.42	17.22	25.01	90.42	-822.29	1,932.00	1,934.83	1,899.53	35.30	54.809		
3,300.00	3,122.54	3,957.16	3,703.75	18.17	25.56	91.20	-794.00	1,926.53	1,897.36	1,860.84	36.52	51.959		
3,400.00	3,208.80	4,049.38	3,788.45	19.13	26.25	92.19	-758.05	1,920.28	1,860.57	1,822.80	37.77	49.255		
3,500.00	3,295.07	4,139.27	3,870.85	20.09	26.93	93.18	-722.62	1,914.42	1,824.14	1,785.11	39.03	46.739		
3,600.00	3,381.33	4,233.42	3,957.19	21.05	27.64	94.27	-685.68	1,907.75	1,788.02	1,747.75	40.27	44.398		
3,700.00	3,467.59	4,296.14	4,014.91	22.02	28.10	95.03	-661.56	1,903.22	1,752.98	1,711.51	41.47	42.274		
3,800.00	3,553.86	4,371.21	4,084.37	22.99	28.65	95.98	-633.57	1,898.07	1,719.63	1,676.96	42.67	40.304		
3,900.00	3,640.12	4,461.35	4,167.83	23.97	29.30	97.16	-600.04	1,892.06	1,687.17	1,643.31	43.87	38.463		
4,000.00	3,726.38	4,553.91	4,253.52	24.95	29.98	98.43	-565.72	1,885.24	1,655.14	1,610.10	45.05	36.743		
4,100.00	3,812.65	4,646.58	4,339.21	25.93	30.65	99.73	-531.03	1,878.63	1,623.77	1,577.56	46.21	35.137		
4,200.00	3,898.91	4,735.81	4,421.52	26.91	31.31	101.01	-497.17	1,872.28	1,592.81	1,545.44	47.37	33.626		
4,300.00	3,985.18	4,811.67	4,491.53	27.90	31.86	102.12	-468.35	1,867.63	1,563.14	1,514.62	48.52	32.214		
4,400.00	4,071.44	4,884.88	4,559.44	28.88	32.39	103.24	-441.40	1,862.84	1,535.14	1,485.48	49.66	30.912		
4,500.00	4,157.70	4,940.72	4,611.62	29.87	32.77	104.15	-421.95	1,858.79	1,509.44	1,458.66	50.78	29.725		
4,600.00	4,243.97	4,996.01	4,663.77	30.86	33.14	105.08	-404.02	1,854.82	1,486.82	1,434.95	51.87	28.663		
4,700.00	4,330.23	5,058.81	4,723.38	31.85	33.53	106.17	-384.75	1,850.66	1,467.11	1,414.18	52.93	27.719		
4,800.00	4,416.49	5,121.23	4,782.97	32.84	33.91	107.26	-366.51	1,847.00	1,450.20	1,396.24	53.96	26.876		
4,900.00	4,502.76	5,183.78	4,843.01	33.84	34.28	108.38	-349.30	1,843.66	1,436.22	1,381.25	54.96	26.130		
5,000.00	4,589.02	5,248.74	4,905.67	34.83	34.64	109.56	-332.46	1,840.46	1,425.14	1,369.20	55.94	25.477		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	5,307.45	4,962.57	35.82	34.94	110.63	-318.22	1,837.89	1,417.10	1,360.22	56.88	24.914		
5,200.00	4,761.55	5,364.00	5,017.68	36.82	35.23	111.67	-305.69	1,835.95	1,412.55	1,354.76	57.78	24.446		
5,275.84	4,826.97	5,404.25	5,057.08	37.58	35.41	112.40	-297.55	1,834.88	1,411.49	1,353.06	58.43	24.157		
5,300.00	4,847.81	5,417.27	5,069.86	37.82	35.47	112.64	-295.07	1,834.57	1,411.60	1,352.97	58.63	24.076		
5,400.00	4,934.08	5,471.44	5,123.18	38.81	35.71	113.63	-285.55	1,833.51	1,414.32	1,354.88	59.44	23.794		
5,500.00	5,020.34	5,526.28	5,177.37	39.81	35.92	114.64	-277.23	1,832.59	1,420.65	1,360.45	60.20	23.598		
5,600.00	5,106.60	5,585.93	5,236.51	40.81	36.14	115.73	-269.58	1,831.64	1,430.47	1,369.53	60.95	23.471		
5,700.00	5,192.87	5,647.00	5,297.20	41.81	36.35	116.84	-262.77	1,830.81	1,443.29	1,381.62	61.67	23.404		
5,800.00	5,279.13	5,713.00	5,362.90	42.81	36.56	118.04	-256.53	1,829.92	1,458.99	1,396.60	62.39	23.386		
5,900.00	5,365.40	5,769.88	5,419.61	43.81	36.72	119.06	-252.22	1,829.06	1,477.67	1,414.66	63.01	23.450		
6,000.00	5,451.66	5,821.55	5,471.20	44.81	36.85	119.98	-249.52	1,828.30	1,499.70	1,436.14	63.56	23.594		
6,100.00	5,537.92	5,885.71	5,535.32	45.81	37.00	121.11	-247.51	1,827.35	1,524.79	1,460.61	64.18	23.758		
6,200.00	5,624.19	5,955.00	5,604.59	46.81	37.15	122.30	-246.13	1,826.26	1,552.11	1,487.29	64.82	23.946		
6,300.00	5,710.45	6,025.21	5,674.79	47.81	37.29	123.47	-245.47	1,825.50	1,581.48	1,516.03	65.45	24.164		
6,400.00	5,796.72	6,114.43	5,764.00	48.81	37.46	124.90	-245.00	1,824.70	1,612.26	1,546.02	66.24	24.339		
6,500.00	5,882.98	6,207.84	5,857.41	49.81	37.65	126.35	-244.21	1,823.93	1,643.77	1,576.71	67.07	24.510		
6,600.00	5,969.24	6,301.17	5,950.73	50.82	37.85	127.75	-243.03	1,823.44	1,675.85	1,607.96	67.88	24.687		
6,700.00	6,055.51	6,384.35	6,033.90	51.82	38.03	128.95	-241.89	1,823.09	1,708.68	1,640.08	68.60	24.907		
6,800.00	6,141.77	6,475.27	6,124.81	52.82	38.22	130.21	-240.70	1,822.87	1,742.39	1,673.01	69.38	25.113		
6,900.00	6,228.03	6,559.46	6,208.99	53.83	38.40	131.34	-239.45	1,822.69	1,776.71	1,706.62	70.09	25.349		
7,000.00	6,314.30	6,642.46	6,291.99	54.83	38.58	132.42	-238.40	1,822.34	1,811.99	1,741.21	70.78	25.601		
7,100.00	6,400.56	6,729.21	6,378.73	55.83	38.77	133.51	-237.45	1,822.28	1,848.04	1,776.55	71.49	25.850		
7,200.00	6,486.83	6,817.35	6,466.86	56.84	38.96	134.58	-236.40	1,822.21	1,884.65	1,812.44	72.21	26.100		
7,300.00	6,573.09	6,904.09	6,553.59	57.84	39.16	135.59	-235.34	1,822.16	1,921.83	1,848.93	72.90	26.361		
7,400.00	6,659.35	6,988.80	6,638.31	58.84	39.34	136.55	-234.32	1,822.12	1,959.60	1,886.03	73.58	26.634		
7,500.00	6,745.62	7,068.29	6,717.79	59.85	39.52	137.41	-233.64	1,822.25	1,998.15	1,923.95	74.19	26.931		
7,600.00	6,831.88	7,167.77	6,817.26	60.85	39.74	138.44	-232.76	1,822.88	2,037.05	1,962.07	74.98	27.168		
7,700.00	6,918.14	7,253.30	6,902.78	61.86	39.93	139.28	-231.95	1,823.94	2,076.20	2,000.56	75.64	27.449		
7,800.00	7,004.41	7,346.14	6,995.59	62.86	40.13	140.14	-231.16	1,825.79	2,115.65	2,039.30	76.35	27.709		
7,900.00	7,090.67	7,431.84	7,081.26	63.87	40.31	140.89	-230.55	1,828.08	2,155.39	2,078.39	77.00	27.991		
8,000.00	7,176.94	7,507.69	7,157.08	64.87	40.47	141.53	-230.27	1,830.22	2,195.72	2,118.16	77.57	28.308		
8,027.52	7,200.68	7,528.13	7,177.52	65.15	40.52	141.70	-230.27	1,830.76	2,206.97	2,129.26	77.72	28.398		
8,050.00	7,220.18	7,544.80	7,194.19	65.37	40.55	138.11	-230.29	1,831.20	2,215.83	2,137.99	77.84	28.467		
8,100.00	7,264.25	7,582.16	7,231.53	65.85	40.63	129.31	-230.42	1,832.16	2,232.92	2,154.82	78.11	28.588		
8,150.00	7,308.99	7,620.04	7,269.40	66.28	40.71	119.51	-230.68	1,833.10	2,246.36	2,167.99	78.37	28.662		
8,200.00	7,354.07	7,655.41	7,304.75	66.67	40.78	109.15	-231.05	1,833.96	2,256.10	2,177.49	78.61	28.699		
8,250.00	7,399.14	7,689.65	7,338.98	67.02	40.85	98.95	-231.58	1,834.75	2,262.17	2,183.33	78.83	28.697		
8,300.00	7,443.85	7,725.00	7,374.32	67.32	40.92	89.62	-232.30	1,835.53	2,264.55	2,185.50	79.05	28.648		
8,350.00	7,487.88	7,769.04	7,418.33	67.56	41.00	81.72	-233.32	1,836.53	2,263.14	2,183.81	79.33	28.529		
8,400.00	7,530.87	7,814.06	7,463.32	67.75	41.09	75.33	-234.40	1,837.69	2,257.87	2,178.26	79.61	28.362		
8,450.00	7,572.51	7,846.02	7,495.27	67.90	41.15	70.21	-235.22	1,838.50	2,248.90	2,169.14	79.76	28.197		
8,500.00	7,612.48	7,875.00	7,524.23	68.00	41.20	66.32	-236.08	1,839.10	2,236.49	2,156.62	79.87	28.002		
8,550.00	7,650.47	7,902.67	7,551.87	68.05	41.25	63.52	-237.00	1,839.55	2,220.74	2,140.78	79.96	27.775		
8,600.00	7,686.20	7,929.97	7,579.16	68.06	41.30	61.68	-238.00	1,839.87	2,201.77	2,121.73	80.03	27.511		
8,650.00	7,719.39	7,956.29	7,605.46	68.03	41.35	60.68	-239.01	1,840.05	2,179.70	2,099.60	80.10	27.213		
8,700.00	7,749.79	7,980.58	7,629.73	67.97	41.39	60.44	-239.99	1,840.11	2,154.71	2,074.57	80.14	26.887		
8,750.00	7,777.17	8,002.67	7,651.80	67.87	41.44	60.92	-240.93	1,840.08	2,126.97	2,046.80	80.17	26.532		
8,800.00	7,801.32	8,020.98	7,670.09	67.74	41.47	62.05	-241.73	1,839.99	2,096.69	2,016.53	80.16	26.157		
8,850.00	7,822.06	8,036.43	7,685.52	67.59	41.50	63.86	-242.44	1,839.85	2,064.10	1,983.97	80.13	25.758		
8,900.00	7,839.23	8,049.58	7,698.65	67.41	41.52	66.40	-243.06	1,839.69	2,029.43	1,949.33	80.10	25.337		
8,950.00	7,852.69	8,060.33	7,709.39	67.22	41.54	69.72	-243.59	1,839.53	1,992.90	1,912.84	80.06	24.894		
9,000.00	7,862.35	8,068.60	7,717.65	67.00	41.55	73.86	-244.01	1,839.38	1,954.75	1,874.74	80.01	24.431		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	8,074.30	7,723.34	66.78	41.56	78.86	-244.30	1,839.28	1,915.24	1,835.27	79.97	23.950		
9,098.65	7,870.00	8,077.32	7,726.36	66.55	41.57	84.55	-244.46	1,839.22	1,875.73	1,795.81	79.93	23.467		
9,100.00	7,870.00	8,077.37	7,726.41	66.55	41.57	84.55	-244.46	1,839.21	1,874.62	1,794.69	79.93	23.453		
9,200.00	7,870.00	8,081.01	7,730.04	66.09	41.58	84.75	-244.65	1,839.14	1,793.43	1,713.58	79.85	22.460		
9,300.00	7,870.00	8,084.72	7,733.74	65.65	41.58	84.95	-244.84	1,839.06	1,714.21	1,634.44	79.77	21.488		
9,400.00	7,870.00	8,088.49	7,737.51	65.24	41.59	85.15	-245.04	1,838.98	1,637.26	1,557.56	79.70	20.542		
9,500.00	7,870.00	8,092.33	7,741.34	64.85	41.60	85.35	-245.25	1,838.89	1,562.91	1,483.27	79.64	19.625		
9,600.00	7,870.00	8,096.24	7,745.25	64.48	41.60	85.56	-245.46	1,838.79	1,491.54	1,411.95	79.59	18.739		
9,700.00	7,870.00	8,103.00	7,751.99	64.13	41.61	85.92	-245.83	1,838.62	1,423.62	1,344.00	79.62	17.880		
9,800.00	7,870.00	8,104.97	7,753.96	63.80	41.62	86.03	-245.94	1,838.57	1,359.63	1,280.03	79.60	17.081		
9,900.00	7,870.00	8,111.58	7,760.56	63.50	41.63	86.38	-246.32	1,838.41	1,300.18	1,220.46	79.72	16.310		
10,000.00	7,870.00	8,118.74	7,767.70	63.22	41.64	86.76	-246.74	1,838.25	1,245.89	1,165.97	79.92	15.589		
10,100.00	7,870.00	8,126.51	7,775.46	62.96	41.65	87.18	-247.22	1,838.11	1,197.47	1,117.24	80.24	14.924		
10,200.00	7,870.00	8,134.98	7,783.91	62.72	41.67	87.63	-247.77	1,837.98	1,155.65	1,074.97	80.68	14.324		
10,300.00	7,870.00	8,144.24	7,793.15	62.50	41.68	88.13	-248.39	1,837.86	1,121.16	1,039.89	81.27	13.796		
10,400.00	7,870.00	8,154.42	7,803.30	62.31	41.70	88.67	-249.11	1,837.77	1,094.68	1,012.69	81.99	13.351		
10,500.00	7,870.00	8,165.65	7,814.50	62.15	41.72	89.28	-249.94	1,837.72	1,076.81	993.98	82.82	13.001		
10,600.00	7,870.00	8,178.11	7,826.92	62.01	41.74	89.94	-250.92	1,837.72	1,067.95	984.23	83.72	12.757		
10,645.99	7,870.00	8,184.31	7,833.10	61.95	41.75	90.27	-251.42	1,837.74	1,066.97	982.83	84.14	12.681 CC, ES		
10,700.00	7,870.00	8,192.00	7,840.77	61.90	41.76	90.69	-252.07	1,837.78	1,068.32	983.72	84.61	12.617		
10,800.00	7,870.00	8,209.23	7,857.92	61.82	41.78	91.61	-253.58	1,837.97	1,077.89	992.44	85.44	12.625 SF		
10,900.00	7,870.00	8,229.71	7,878.31	61.78	41.81	92.70	-255.50	1,838.37	1,096.37	1,010.21	86.16	12.725		
11,000.00	7,870.00	8,253.27	7,901.74	61.77	41.84	93.96	-257.86	1,839.06	1,123.29	1,036.59	86.70	12.956		
11,100.00	7,870.00	8,280.63	7,928.91	61.81	41.88	95.42	-260.83	1,840.17	1,158.02	1,070.97	87.05	13.303		
11,200.00	7,870.00	8,304.19	7,952.30	62.03	41.91	96.67	-263.50	1,841.35	1,248.26	1,161.11	87.15	14.323		
11,400.00	7,870.00	8,311.00	7,959.06	62.23	41.92	97.03	-264.23	1,841.69	1,302.49	1,215.43	87.05	14.962		
11,500.00	7,870.00	8,317.36	7,965.38	62.50	41.93	97.37	-264.89	1,841.99	1,361.86	1,274.96	86.90	15.672		
11,600.00	7,870.00	8,323.31	7,971.28	62.84	41.94	97.68	-265.48	1,842.27	1,425.73	1,339.02	86.71	16.443		
11,700.00	7,870.00	8,328.88	7,976.83	63.25	41.95	97.98	-266.03	1,842.53	1,493.53	1,407.03	86.50	17.266		
11,800.00	7,870.00	8,334.11	7,982.03	63.76	41.96	98.25	-266.52	1,842.77	1,564.76	1,478.48	86.28	18.135		
11,900.00	7,870.00	8,339.04	7,986.93	64.34	41.96	98.51	-266.97	1,842.98	1,638.97	1,552.90	86.07	19.042		
12,000.00	7,870.00	8,343.68	7,991.55	65.01	41.97	98.76	-267.38	1,843.19	1,715.77	1,629.91	85.86	19.983		
12,100.00	7,870.00	8,348.06	7,995.91	65.77	41.98	98.99	-267.76	1,843.37	1,794.84	1,709.17	85.67	20.952		
12,200.00	7,870.00	8,352.21	8,000.04	66.61	41.98	99.21	-268.10	1,843.55	1,875.88	1,790.40	85.48	21.945		
12,300.00	7,870.00	8,356.13	8,003.95	67.51	41.99	99.42	-268.42	1,843.71	1,958.67	1,873.36	85.31	22.959		
12,400.00	7,870.00	8,359.86	8,007.66	68.49	41.99	99.61	-268.72	1,843.86	2,042.98	1,957.82	85.16	23.991		
12,500.00	7,870.00	8,363.39	8,011.18	69.52	42.00	99.80	-268.99	1,844.00	2,128.63	2,043.62	85.01	25.038		
12,600.00	7,870.00	8,366.00	8,033.72	70.61	42.03	100.99	-270.58	1,844.86	2,215.67	2,130.83	84.84	26.117		
12,700.00	7,870.00	8,366.00	8,033.72	71.75	42.03	100.99	-270.58	1,844.86	2,303.51	2,218.78	84.73	27.187		
12,800.00	7,870.00	8,366.00	8,033.72	72.93	42.03	100.99	-270.58	1,844.86	2,392.31	2,307.68	84.63	28.268		
12,900.00	7,870.00	8,366.00	8,033.72	74.14	42.03	100.99	-270.58	1,844.86	2,481.96	2,397.41	84.54	29.358		
13,000.00	7,870.00	8,366.00	8,033.72	75.39	42.03	100.99	-270.58	1,844.86	2,572.37	2,487.91	84.46	30.456		
13,100.00	7,870.00	8,366.00	8,033.72	76.67	42.03	100.99	-270.58	1,844.86	2,663.47	2,579.08	84.39	31.561		
13,200.00	7,870.00	8,366.00	8,033.72	77.98	42.03	100.99	-270.58	1,844.86	2,755.18	2,670.85	84.33	32.672		
13,300.00	7,870.00	8,366.00	8,033.72	79.31	42.03	100.99	-270.58	1,844.86	2,847.46	2,763.19	84.27	33.789		
13,400.00	7,870.00	8,366.00	8,033.72	80.67	42.03	100.99	-270.58	1,844.86	2,940.24	2,856.01	84.22	34.911		
13,500.00	7,870.00	8,366.00	8,033.72	82.04	42.03	100.99	-270.58	1,844.86	3,033.47	2,949.30	84.18	36.038		
13,600.00	7,870.00	8,366.00	8,033.72	83.43	42.03	100.99	-270.58	1,844.86	3,127.13	3,042.99	84.14	37.168		
13,700.00	7,870.00	8,401.70	8,049.38	84.84	42.06	101.80	-271.55	1,845.42	3,221.10	3,137.03	84.07	38.313		
13,800.00	7,870.00	8,405.25	8,052.91	86.27	42.07	101.99	-271.77	1,845.54	3,315.46	3,231.42	84.04	39.452		
13,900.00	7,870.00	8,408.71	8,056.37	87.71	42.07	102.17	-271.97	1,845.66	3,410.13	3,326.12	84.01	40.594		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	8,412.09	8,059.74	89.16	42.08	102.35	-272.17	1,845.78	3,505.09	3,421.11	83.98	41.738		
14,100.00	7,870.00	8,415.39	8,063.03	90.63	42.08	102.52	-272.36	1,845.90	3,600.32	3,516.36	83.95	42.884		
14,200.00	7,870.00	8,418.61	8,066.25	92.10	42.09	102.68	-272.55	1,846.01	3,695.79	3,611.86	83.93	44.032		
14,300.00	7,870.00	8,421.76	8,069.39	93.59	42.10	102.85	-272.73	1,846.11	3,791.50	3,707.58	83.92	45.181		
14,400.00	7,870.00	8,424.84	8,072.46	95.09	42.10	103.01	-272.90	1,846.22	3,887.41	3,803.51	83.90	46.331		
14,500.00	7,870.00	8,427.85	8,075.46	96.60	42.11	103.16	-273.07	1,846.32	3,983.53	3,899.63	83.89	47.483		
14,600.00	7,870.00	8,430.79	8,078.40	98.11	42.11	103.31	-273.23	1,846.42	4,079.82	3,995.94	83.89	48.636		
14,700.00	7,870.00	8,433.67	8,081.27	99.64	42.12	103.46	-273.38	1,846.52	4,176.29	4,092.41	83.88	49.789		
14,800.00	7,870.00	8,436.48	8,084.08	101.17	42.12	103.61	-273.53	1,846.61	4,272.91	4,189.03	83.88	50.943		
14,900.00	7,870.00	8,439.24	8,086.83	102.71	42.13	103.75	-273.68	1,846.70	4,369.68	4,285.81	83.87	52.098		
15,000.00	7,870.00	8,441.94	8,089.52	104.26	42.13	103.89	-273.82	1,846.79	4,466.60	4,382.72	83.88	53.253		
15,100.00	7,870.00	8,444.58	8,092.16	105.82	42.14	104.02	-273.96	1,846.88	4,563.64	4,479.76	83.88	54.408		
15,200.00	7,870.00	8,447.16	8,094.74	107.38	42.14	104.15	-274.09	1,846.97	4,660.80	4,576.92	83.88	55.563		
15,300.00	7,870.00	8,449.70	8,097.27	108.95	42.15	104.28	-274.22	1,847.05	4,758.08	4,674.19	83.89	56.719		
15,400.00	7,870.00	8,452.18	8,099.75	110.52	42.15	104.41	-274.35	1,847.13	4,855.47	4,771.57	83.90	57.874		
15,500.00	7,870.00	8,454.61	8,102.17	112.10	42.15	104.54	-274.47	1,847.21	4,952.96	4,869.05	83.91	59.029		
15,600.00	7,870.00	8,456.99	8,104.55	113.69	42.16	104.66	-274.58	1,847.29	5,050.54	4,966.62	83.92	60.185		
15,700.00	7,870.00	8,459.33	8,106.88	115.28	42.16	104.78	-274.70	1,847.36	5,148.22	5,064.29	83.93	61.340		
15,800.00	7,870.00	8,461.00	8,128.52	116.87	42.20	105.88	-275.70	1,848.05	5,246.05	5,162.12	83.93	62.505		
15,900.00	7,870.00	8,481.00	8,128.52	118.47	42.20	105.88	-275.70	1,848.05	5,343.88	5,259.93	83.95	63.657		
16,000.00	7,870.00	8,481.00	8,128.52	120.07	42.20	105.88	-275.70	1,848.05	5,441.78	5,357.82	83.97	64.810		
16,100.00	7,870.00	8,481.00	8,128.52	121.68	42.20	105.88	-275.70	1,848.05	5,539.76	5,455.77	83.98	65.962		
16,200.00	7,870.00	8,481.00	8,128.52	123.30	42.20	105.88	-275.70	1,848.05	5,637.81	5,553.80	84.00	67.113		
16,300.00	7,870.00	8,481.00	8,128.52	124.91	42.20	105.88	-275.70	1,848.05	5,735.92	5,651.90	84.03	68.264		
16,400.00	7,870.00	8,481.00	8,128.52	126.53	42.20	105.88	-275.70	1,848.05	5,834.11	5,750.06	84.05	69.414		
16,500.00	7,870.00	8,481.00	8,128.52	128.16	42.20	105.88	-275.70	1,848.05	5,932.35	5,848.28	84.07	70.564		
16,600.00	7,870.00	8,481.00	8,128.52	129.79	42.20	105.88	-275.70	1,848.05	6,030.65	5,946.55	84.09	71.713		
16,700.00	7,870.00	8,481.00	8,128.52	131.42	42.20	105.88	-275.70	1,848.05	6,129.00	6,044.88	84.12	72.862		
16,800.00	7,870.00	8,481.00	8,128.52	133.05	42.20	105.88	-275.70	1,848.05	6,227.41	6,143.26	84.14	74.009		
16,900.00	7,870.00	8,481.00	8,128.52	134.69	42.20	105.88	-275.70	1,848.05	6,325.86	6,241.69	84.17	75.156		
17,000.00	7,870.00	8,481.00	8,128.52	136.33	42.20	105.88	-275.70	1,848.05	6,424.37	6,340.17	84.20	76.302		
17,100.00	7,870.00	8,481.00	8,128.52	137.97	42.20	105.88	-275.70	1,848.05	6,522.92	6,438.69	84.22	77.447		
17,200.00	7,870.00	8,481.00	8,128.52	139.62	42.20	105.88	-275.70	1,848.05	6,621.51	6,537.26	84.25	78.591		
17,300.00	7,870.00	8,481.00	8,128.52	141.27	42.20	105.88	-275.70	1,848.05	6,720.15	6,635.86	84.28	79.735		
17,400.00	7,870.00	8,481.00	8,128.52	142.92	42.20	105.88	-275.70	1,848.05	6,818.82	6,734.51	84.31	80.877		
17,500.00	7,870.00	8,481.00	8,128.52	144.58	42.20	105.88	-275.70	1,848.05	6,917.53	6,833.19	84.34	82.018		
17,600.00	7,870.00	8,481.00	8,128.52	146.23	42.20	105.88	-275.70	1,848.05	7,016.28	6,931.91	84.37	83.158		
17,700.00	7,870.00	8,481.00	8,128.52	147.89	42.20	105.88	-275.70	1,848.05	7,115.07	7,030.66	84.40	84.297		
17,800.00	7,870.00	8,502.70	8,150.20	149.56	42.24	106.97	-276.63	1,848.71	7,213.81	7,129.38	84.44	85.435		
17,900.00	7,870.00	8,504.57	8,152.06	151.22	42.25	107.06	-276.70	1,848.77	7,312.65	7,228.18	84.47	86.571		
18,000.00	7,870.00	8,506.41	8,153.90	152.89	42.25	107.15	-276.78	1,848.82	7,411.52	7,327.01	84.50	87.706		
18,100.00	7,870.00	8,508.23	8,155.71	154.55	42.26	107.25	-276.85	1,848.88	7,510.42	7,425.88	84.54	88.840		
18,200.00	7,870.00	8,510.02	8,157.50	156.22	42.26	107.33	-276.92	1,848.93	7,609.34	7,524.77	84.57	89.972		
18,300.00	7,870.00	8,511.79	8,159.27	157.90	42.26	107.42	-276.99	1,848.98	7,708.29	7,623.68	84.61	91.103		
18,400.00	7,870.00	8,513.53	8,161.01	159.57	42.27	107.51	-277.06	1,849.03	7,807.27	7,722.62	84.65	92.233		
18,500.00	7,870.00	8,515.25	8,162.73	161.25	42.27	107.59	-277.13	1,849.08	7,906.27	7,821.59	84.68	93.361		
18,600.00	7,870.00	8,516.95	8,164.43	162.93	42.27	107.68	-277.19	1,849.13	8,005.30	7,920.57	84.72	94.488		
18,700.00	7,870.00	8,518.63	8,166.10	164.60	42.28	107.76	-277.26	1,849.18	8,104.35	8,019.58	84.76	95.613		
18,797.52	7,870.00	8,520.24	8,167.71	166.24	42.28	107.84	-277.32	1,849.22	8,200.96	8,116.16	84.80	96.709		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	70.04	772.02	2,125.71	2,261.94					
100.00	100.00	61.76	61.76	0.13	0.10	70.05	771.80	2,125.75	2,261.53	2,261.29	0.23	9,674.985		
200.00	200.00	166.44	166.44	0.49	0.36	70.07	770.64	2,125.92	2,261.30	2,260.45	0.85	2,665.941		
300.00	300.00	270.10	270.09	0.85	0.73	70.09	769.88	2,125.74	2,260.88	2,259.30	1.58	1,433.084		
400.00	400.00	360.08	360.07	1.21	1.05	70.10	769.31	2,125.58	2,260.52	2,258.26	2.26	1,001.762		
406.34	406.34	365.35	365.34	1.23	1.07	70.10	769.28	2,125.59	2,260.51	2,258.22	2.30	983.676		
500.00	500.00	451.30	451.28	1.57	1.37	70.12	768.78	2,126.00	2,260.74	2,257.80	2.94	769.633		
600.00	600.00	540.01	540.00	1.93	1.68	70.13	768.55	2,126.56	2,261.26	2,257.65	3.61	626.830		
700.00	700.00	632.56	632.53	2.29	2.01	70.15	768.29	2,127.75	2,262.36	2,258.07	4.29	527.195		
800.00	800.00	729.69	729.65	2.64	2.35	70.16	768.07	2,129.06	2,263.56	2,258.57	4.99	453.473		
900.00	900.00	832.48	832.44	3.00	2.71	70.17	768.24	2,130.42	2,264.86	2,259.15	5.71	396.495		
1,000.00	1,000.00	947.69	947.64	3.36	3.11	70.17	768.66	2,131.34	2,265.74	2,259.27	6.47	350.135		
1,100.00	1,099.98	1,051.73	1,051.67	3.72	3.46	15.54	769.93	2,131.33	2,264.46	2,257.28	7.18	315.436		
1,200.00	1,199.84	1,135.99	1,135.92	4.07	3.75	15.56	771.15	2,131.50	2,260.10	2,252.28	7.82	288.984		
1,300.00	1,299.45	1,236.65	1,236.57	4.43	4.10	15.63	772.51	2,131.82	2,252.45	2,243.93	8.52	264.242		
1,400.00	1,398.70	1,296.33	1,296.23	4.80	4.31	15.71	774.01	2,132.46	2,242.56	2,233.48	9.09	246.826		
1,500.00	1,497.47	1,355.94	1,355.76	5.18	4.52	15.78	776.63	2,133.81	2,231.09	2,221.44	9.65	231.247		
1,600.00	1,595.62	1,409.00	1,408.69	5.57	4.71	15.86	779.89	2,135.63	2,218.06	2,207.88	10.19	217.717		
1,700.00	1,693.06	1,478.60	1,478.02	6.00	4.96	15.95	785.22	2,138.89	2,203.36	2,192.56	10.79	204.144		
1,800.00	1,789.64	1,537.98	1,537.04	6.45	5.17	16.05	790.54	2,142.50	2,187.01	2,175.65	11.36	192.445		
1,900.00	1,885.27	1,598.00	1,596.57	6.94	5.39	16.17	796.65	2,147.11	2,169.21	2,157.27	11.94	181.640		
2,000.00	1,979.82	1,657.81	1,655.76	7.47	5.62	16.31	803.26	2,152.63	2,149.85	2,137.32	12.53	171.608		
2,100.00	2,073.17	1,722.31	1,719.45	8.05	5.86	16.48	810.75	2,159.53	2,128.79	2,115.65	13.14	162.006		
2,200.00	2,165.21	1,787.00	1,783.15	8.67	6.11	16.67	819.03	2,167.16	2,105.92	2,092.16	13.76	153.009		
2,300.00	2,255.84	1,846.95	1,842.00	9.35	6.36	16.88	827.25	2,175.08	2,081.41	2,067.03	14.38	144.748		
2,400.00	2,344.94	1,911.47	1,905.13	10.09	6.62	17.13	836.44	2,184.71	2,055.40	2,040.37	15.03	136.772		
2,500.00	2,432.39	1,975.00	1,967.15	10.89	6.89	17.41	845.78	2,194.85	2,027.41	2,011.73	15.69	129.246		
2,519.29	2,449.07	1,991.72	1,983.45	11.05	6.96	17.48	848.25	2,197.66	2,021.79	2,005.95	15.84	127.658		
2,600.00	2,518.69	2,033.77	2,024.35	11.74	7.15	17.57	854.25	2,205.32	1,998.94	1,982.60	16.34	122.353		
2,700.00	2,604.95	2,091.88	2,080.68	12.62	7.40	17.74	862.04	2,217.28	1,972.51	1,955.51	16.99	116.071		
2,800.00	2,691.22	2,164.00	2,150.40	13.52	7.74	17.98	870.85	2,233.48	1,947.57	1,929.84	17.73	109.863		
2,900.00	2,777.48	2,242.50	2,226.14	14.43	8.10	18.30	879.01	2,252.42	1,923.74	1,905.24	18.50	103.969		
3,000.00	2,863.75	2,314.11	2,295.07	15.35	8.45	18.64	885.40	2,270.75	1,901.00	1,881.74	19.26	98.699		
3,100.00	2,950.01	2,386.13	2,364.11	16.28	8.81	18.99	892.11	2,290.11	1,879.70	1,859.67	20.03	93.833		
3,200.00	3,036.27	2,449.00	2,424.19	17.22	9.13	19.31	897.81	2,307.73	1,859.72	1,838.95	20.77	89.538		
3,300.00	3,122.54	2,514.01	2,485.96	18.17	9.48	19.64	904.17	2,326.97	1,841.60	1,820.07	21.53	85.536		
3,400.00	3,208.80	2,589.59	2,557.22	19.13	9.91	20.01	912.56	2,350.72	1,825.57	1,803.21	22.36	81.660		
3,500.00	3,295.07	2,701.02	2,662.28	20.09	10.55	20.59	924.18	2,386.00	1,809.83	1,786.44	23.39	77.360		
3,600.00	3,381.33	2,810.53	2,765.88	21.05	11.19	21.15	935.77	2,419.53	1,793.19	1,768.76	24.44	73.377		
3,700.00	3,467.59	2,906.65	2,856.86	22.02	11.77	21.63	946.80	2,448.53	1,776.48	1,751.06	25.42	69.877		
3,800.00	3,553.86	3,003.09	2,948.09	22.99	12.35	22.11	957.91	2,477.73	1,760.01	1,733.58	26.42	66.605		
3,900.00	3,640.12	3,085.79	3,026.23	23.97	12.86	22.53	967.49	2,503.05	1,744.04	1,716.67	27.37	63.730		
4,000.00	3,726.38	3,183.37	3,118.20	24.95	13.48	23.03	979.35	2,533.42	1,728.82	1,700.42	28.40	60.864		
4,100.00	3,812.65	3,292.60	3,221.35	25.93	14.16	23.60	992.10	2,567.03	1,713.28	1,683.76	29.52	58.029		
4,200.00	3,898.91	3,404.62	3,327.46	26.91	14.87	24.24	1,004.04	2,600.89	1,697.13	1,666.45	30.68	55.322		
4,300.00	3,985.18	3,488.79	3,407.14	27.90	15.40	24.71	1,013.57	2,626.27	1,681.17	1,649.48	31.69	53.049		
4,400.00	4,071.44	3,588.24	3,501.18	28.88	16.03	25.25	1,025.39	2,656.41	1,665.64	1,632.84	32.80	50.775		
4,500.00	4,157.70	3,704.37	3,611.32	29.87	16.77	25.91	1,038.92	2,690.66	1,649.36	1,615.33	34.03	48.474		
4,600.00	4,243.97	3,798.08	3,700.26	30.86	17.36	26.47	1,049.15	2,718.31	1,633.16	1,598.02	35.15	46.469		
4,700.00	4,330.23	3,900.87	3,797.88	31.85	18.01	27.08	1,060.92	2,748.26	1,616.84	1,580.51	36.33	44.506		
4,800.00	4,416.49	3,990.15	3,882.69	32.84	18.58	27.64	1,070.56	2,774.47	1,600.83	1,563.37	37.46	42.733		
4,900.00	4,502.76	4,085.29	3,972.84	33.84	19.19	28.23	1,081.26	2,802.93	1,585.61	1,546.96	38.64	41.031		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,208.06	4,089.42	34.83	19.97	28.96	1,096.61	2,838.23	1,569.54	1,529.55	39.99	39.252		
5,100.00	4,675.29	4,301.65	4,178.59	35.82	20.56	29.54	1,107.63	2,864.42	1,552.80	1,511.61	41.19	37.695		
5,200.00	4,761.55	4,392.82	4,265.39	36.82	21.14	30.17	1,117.14	2,890.65	1,536.88	1,494.46	42.42	36.229		
5,300.00	4,847.81	4,499.49	4,366.91	37.82	21.81	30.89	1,129.02	2,921.14	1,521.07	1,477.32	43.75	34.768		
5,400.00	4,934.08	4,585.28	4,448.58	38.81	22.36	31.47	1,139.09	2,945.40	1,505.21	1,460.23	44.98	33.462		
5,500.00	5,020.34	4,693.37	4,551.08	39.81	23.05	32.13	1,153.57	2,976.48	1,490.18	1,443.83	46.34	32.155		
5,600.00	5,106.60	4,816.64	4,668.79	40.81	23.82	32.99	1,167.98	3,010.11	1,473.66	1,425.84	47.82	30.816		
5,700.00	5,192.87	4,920.66	4,768.60	41.81	24.45	33.84	1,177.68	3,037.75	1,456.57	1,407.32	49.24	29.580		
5,800.00	5,279.13	5,055.24	4,898.60	42.81	25.21	35.02	1,188.68	3,070.77	1,437.57	1,386.73	50.84	28.274		
5,900.00	5,365.40	5,238.01	5,076.74	43.81	26.16	36.75	1,202.25	3,109.15	1,415.95	1,363.36	52.59	26.923		
6,000.00	5,451.66	5,373.71	5,210.60	44.81	26.77	38.27	1,208.65	3,130.37	1,389.03	1,334.85	54.19	25.633		
6,100.00	5,537.92	5,574.74	5,410.41	45.81	27.52	40.81	1,215.45	3,150.90	1,357.44	1,301.66	55.77	24.338		
6,200.00	5,624.19	5,730.57	5,566.12	46.81	27.97	43.16	1,216.85	3,156.33	1,320.60	1,263.33	57.27	23.058		
6,300.00	5,710.45	5,827.12	5,662.67	47.81	28.22	44.74	1,217.53	3,157.12	1,282.46	1,223.52	58.93	21.761		
6,400.00	5,796.72	5,909.71	5,745.25	48.81	28.44	46.16	1,218.24	3,157.70	1,245.03	1,184.33	60.70	20.511		
6,500.00	5,882.98	5,994.23	5,829.76	49.81	28.66	47.68	1,218.99	3,158.64	1,208.83	1,146.29	62.53	19.331		
6,600.00	5,969.24	6,083.60	5,919.12	50.82	28.91	49.36	1,220.06	3,159.67	1,173.56	1,109.14	64.42	18.218		
6,700.00	6,055.51	6,174.52	6,010.03	51.82	29.15	51.17	1,221.12	3,160.41	1,139.05	1,072.68	66.37	17.161		
6,800.00	6,141.77	6,264.39	6,099.89	52.82	29.39	53.07	1,222.12	3,160.83	1,105.40	1,037.00	68.41	16.159		
6,900.00	6,228.03	6,351.48	6,186.97	53.83	29.62	55.01	1,222.87	3,161.02	1,072.84	1,002.31	70.53	15.211		
7,000.00	6,314.30	6,436.02	6,271.52	54.83	29.84	57.02	1,223.05	3,161.17	1,041.80	969.05	72.75	14.321		
7,100.00	6,400.56	6,521.24	6,356.74	55.83	30.07	59.13	1,223.38	3,161.43	1,012.37	937.35	75.02	13.494		
7,200.00	6,486.83	6,599.37	6,434.86	56.84	30.29	61.15	1,223.71	3,162.14	985.09	907.72	77.37	12.733		
7,300.00	6,573.09	6,693.59	6,529.08	57.84	30.55	63.69	1,223.96	3,163.03	959.70	879.98	79.72	12.039		
7,400.00	6,659.35	6,779.05	6,614.54	58.84	30.78	66.09	1,224.40	3,163.58	935.93	853.82	82.11	11.398		
7,500.00	6,745.62	6,869.11	6,704.58	59.85	31.04	68.69	1,225.36	3,164.36	914.20	829.70	84.50	10.819		
7,600.00	6,831.88	6,957.61	6,793.08	60.85	31.29	71.33	1,226.61	3,164.98	894.38	807.52	86.86	10.296		
7,700.00	6,918.14	7,047.11	6,882.57	61.86	31.53	74.12	1,227.56	3,165.19	876.76	787.56	89.20	9.830		
7,800.00	7,004.41	7,137.79	6,973.25	62.86	31.78	77.05	1,228.51	3,164.94	861.33	769.88	91.46	9.418		
7,900.00	7,090.67	7,225.38	7,060.82	63.87	32.02	79.93	1,229.95	3,164.68	848.25	754.63	93.62	9.061		
8,000.00	7,176.94	7,309.61	7,145.05	64.87	32.26	82.77	1,231.22	3,164.46	838.05	742.40	95.65	8.762		
8,027.52	7,200.68	7,332.51	7,167.94	65.15	32.32	83.55	1,231.52	3,164.43	835.80	739.63	96.18	8.690		
8,050.00	7,220.18	7,351.32	7,186.75	65.37	32.37	80.65	1,231.76	3,164.43	833.80	737.21	96.59	8.632		
8,100.00	7,264.25	7,393.93	7,229.35	65.85	32.49	73.09	1,232.25	3,164.45	827.39	729.95	97.44	8.491		
8,150.00	7,308.99	7,437.17	7,272.59	66.28	32.62	64.11	1,232.67	3,164.51	818.15	719.96	98.20	8.332		
8,200.00	7,354.07	7,479.57	7,315.00	66.67	32.73	54.14	1,232.97	3,164.60	806.02	707.17	98.85	8.154		
8,250.00	7,399.14	7,521.58	7,357.00	67.02	32.85	43.90	1,233.06	3,164.68	790.99	691.57	99.42	7.956		
8,300.00	7,443.85	7,564.55	7,399.97	67.32	32.97	34.10	1,232.94	3,164.74	773.02	673.12	99.90	7.738		
8,350.00	7,487.88	7,608.17	7,443.59	67.56	33.08	25.15	1,232.73	3,164.75	752.02	651.71	100.31	7.497		
8,400.00	7,530.87	7,650.51	7,485.93	67.75	33.19	17.10	1,232.45	3,164.71	728.02	627.37	100.65	7.233		
8,450.00	7,572.51	7,691.02	7,526.44	67.90	33.30	9.79	1,232.12	3,164.68	701.17	600.24	100.92	6.948		
8,500.00	7,612.48	7,730.04	7,565.46	68.00	33.40	2.96	1,231.75	3,164.69	671.59	570.47	101.13	6.641		
8,550.00	7,650.47	7,767.50	7,602.92	68.05	33.50	-3.73	1,231.36	3,164.76	639.48	538.22	101.26	6.315		
8,600.00	7,686.20	7,802.87	7,638.28	68.06	33.59	-10.64	1,231.01	3,164.93	605.06	503.73	101.33	5.971		
8,650.00	7,719.39	7,836.60	7,672.01	68.03	33.69	-18.15	1,230.69	3,165.16	568.62	467.32	101.30	5.613		
8,700.00	7,749.79	7,868.85	7,704.26	67.97	33.78	-26.66	1,230.47	3,165.40	530.46	429.29	101.17	5.243		
8,750.00	7,777.17	7,897.69	7,733.10	67.87	33.86	-36.33	1,230.36	3,165.61	491.05	390.19	100.86	4.868		
8,800.00	7,801.32	7,922.94	7,758.35	67.74	33.93	-46.98	1,230.33	3,165.79	451.04	350.72	100.32	4.496		
8,850.00	7,822.06	7,943.01	7,778.42	67.59	33.99	-57.72	1,230.32	3,165.96	411.26	311.84	99.42	4.137		
8,900.00	7,839.23	7,959.88	7,795.29	67.41	34.04	-67.84	1,230.32	3,166.12	372.75	274.78	97.97	3.805		
8,950.00	7,852.69	7,973.12	7,808.52	67.22	34.08	-76.40	1,230.32	3,166.28	336.83	241.16	95.67	3.521		
9,000.00	7,862.35	7,982.62	7,818.02	67.00	34.10	-82.90	1,230.32	3,166.39	305.22	213.07	92.14	3.312		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,988.30	7,823.70	66.78	34.12	-87.17	1,230.32	3,166.47	280.06	193.02	87.04	3.218 SF		
9,098.65	7,870.00	7,990.12	7,825.52	66.55	34.13	-89.22	1,230.32	3,166.49	263.98	183.38	80.60	3.275		
9,100.00	7,870.00	7,990.12	7,825.52	66.55	34.13	-89.22	1,230.32	3,166.49	263.67	183.27	80.41	3.279 ES		
9,159.77	7,870.00	7,990.10	7,825.51	66.27	34.13	-89.22	1,230.32	3,166.49	256.81	184.91	71.90	3.572 CC		
9,200.00	7,870.00	7,990.10	7,825.50	66.09	34.13	-89.22	1,230.32	3,166.49	259.94	192.69	67.25	3.865		
9,300.00	7,870.00	7,990.07	7,825.48	65.65	34.13	-89.21	1,230.32	3,166.49	292.60	228.18	64.42	4.542		
9,400.00	7,870.00	7,990.05	7,825.45	65.24	34.13	-89.21	1,230.32	3,166.49	351.65	281.78	69.87	5.033		
9,500.00	7,870.00	7,990.03	7,825.43	64.85	34.13	-89.20	1,230.32	3,166.49	426.27	350.39	75.88	5.618		
9,600.00	7,870.00	7,990.01	7,825.41	64.48	34.13	-89.20	1,230.32	3,166.49	509.66	429.22	80.44	6.336		
9,700.00	7,870.00	7,989.98	7,825.39	64.13	34.13	-89.19	1,230.32	3,166.49	598.16	514.46	83.70	7.146		
9,800.00	7,870.00	7,989.96	7,825.36	63.80	34.13	-89.19	1,230.32	3,166.49	689.82	603.75	86.07	8.015		
9,900.00	7,870.00	7,989.94	7,825.34	63.50	34.13	-89.18	1,230.32	3,166.49	783.51	695.69	87.83	8.921		
10,000.00	7,870.00	7,989.92	7,825.32	63.22	34.13	-89.18	1,230.32	3,166.49	878.60	789.43	89.17	9.854		
10,100.00	7,870.00	7,989.89	7,825.30	62.96	34.13	-89.17	1,230.32	3,166.49	974.67	884.46	90.22	10.804		
10,200.00	7,870.00	7,989.87	7,825.27	62.72	34.13	-89.17	1,230.32	3,166.49	1,071.46	980.41	91.05	11.767		
10,300.00	7,870.00	7,989.85	7,825.25	62.50	34.12	-89.16	1,230.32	3,166.49	1,168.79	1,077.05	91.74	12.740		
10,400.00	7,870.00	7,989.83	7,825.23	62.31	34.12	-89.16	1,230.32	3,166.49	1,266.54	1,174.23	92.31	13.721		
10,500.00	7,870.00	7,989.80	7,825.21	62.15	34.12	-89.15	1,230.32	3,166.49	1,364.61	1,271.83	92.79	14.707		
10,600.00	7,870.00	7,989.78	7,825.19	62.01	34.12	-89.15	1,230.32	3,166.49	1,462.95	1,369.75	93.19	15.698		
10,700.00	7,870.00	7,989.76	7,825.16	61.90	34.12	-89.14	1,230.32	3,166.49	1,561.49	1,467.95	93.54	16.693		
10,800.00	7,870.00	7,989.74	7,825.14	61.82	34.12	-89.14	1,230.32	3,166.49	1,660.21	1,566.36	93.85	17.690		
10,900.00	7,870.00	7,989.72	7,825.12	61.78	34.12	-89.13	1,230.32	3,166.49	1,759.08	1,664.96	94.12	18.690		
11,000.00	7,870.00	7,989.69	7,825.10	61.77	34.12	-89.13	1,230.32	3,166.49	1,858.06	1,763.71	94.36	19.692		
11,100.00	7,870.00	7,989.67	7,825.07	61.81	34.12	-89.12	1,230.32	3,166.49	1,957.15	1,862.58	94.57	20.695		
11,200.00	7,870.00	7,989.65	7,825.05	61.90	34.12	-89.12	1,230.32	3,166.49	2,056.33	1,961.57	94.76	21.700		
11,300.00	7,870.00	7,989.63	7,825.03	62.03	34.12	-89.11	1,230.32	3,166.49	2,155.58	2,060.65	94.93	22.706		
11,400.00	7,870.00	7,989.61	7,825.01	62.23	34.12	-89.11	1,230.32	3,166.49	2,254.90	2,159.81	95.09	23.713		
11,500.00	7,870.00	7,989.58	7,824.99	62.50	34.12	-89.10	1,230.32	3,166.49	2,354.28	2,259.04	95.23	24.721		
11,600.00	7,870.00	7,989.56	7,824.97	62.84	34.12	-89.10	1,230.32	3,166.49	2,453.71	2,358.34	95.36	25.730		
11,700.00	7,870.00	7,989.54	7,824.94	63.25	34.12	-89.09	1,230.32	3,166.49	2,553.18	2,457.69	95.49	26.739		
11,800.00	7,870.00	7,989.52	7,824.92	63.76	34.12	-89.09	1,230.32	3,166.49	2,652.69	2,557.09	95.60	27.748		
11,900.00	7,870.00	7,989.50	7,824.90	64.34	34.12	-89.09	1,230.32	3,166.49	2,752.24	2,656.53	95.70	28.758		
12,000.00	7,870.00	7,989.47	7,824.88	65.01	34.12	-89.08	1,230.32	3,166.49	2,851.82	2,756.02	95.80	29.768		
12,100.00	7,870.00	7,989.45	7,824.86	65.77	34.12	-89.08	1,230.32	3,166.48	2,951.42	2,855.53	95.89	30.779		
12,200.00	7,870.00	7,989.43	7,824.84	66.61	34.12	-89.07	1,230.32	3,166.48	3,051.06	2,955.08	95.98	31.789		
12,300.00	7,870.00	7,989.41	7,824.81	67.51	34.12	-89.07	1,230.32	3,166.48	3,150.71	3,054.65	96.06	32.800		
12,400.00	7,870.00	7,989.39	7,824.79	68.49	34.12	-89.06	1,230.32	3,166.48	3,250.39	3,154.25	96.14	33.810		
12,500.00	7,870.00	7,989.37	7,824.77	69.52	34.12	-89.06	1,230.32	3,166.48	3,350.09	3,253.88	96.21	34.821		
12,600.00	7,870.00	7,989.35	7,824.75	70.61	34.12	-89.05	1,230.32	3,166.48	3,449.80	3,353.52	96.28	35.832		
12,700.00	7,870.00	7,989.32	7,824.73	71.75	34.12	-89.05	1,230.32	3,166.48	3,549.53	3,453.19	96.34	36.842		
12,800.00	7,870.00	7,989.30	7,824.71	72.93	34.12	-89.04	1,230.32	3,166.48	3,649.28	3,552.87	96.41	37.853		
12,900.00	7,870.00	7,989.28	7,824.69	74.14	34.12	-89.04	1,230.32	3,166.48	3,749.04	3,652.57	96.47	38.863		
13,000.00	7,870.00	7,989.26	7,824.66	75.39	34.12	-89.03	1,230.32	3,166.48	3,848.81	3,752.28	96.53	39.873		
13,100.00	7,870.00	7,989.24	7,824.64	76.67	34.12	-89.03	1,230.32	3,166.48	3,948.59	3,852.01	96.58	40.883		
13,200.00	7,870.00	7,989.22	7,824.62	77.98	34.12	-89.02	1,230.32	3,166.48	4,048.38	3,951.75	96.64	41.893		
13,300.00	7,870.00	7,989.20	7,824.60	79.31	34.12	-89.02	1,230.32	3,166.48	4,148.19	4,051.50	96.69	42.902		
13,400.00	7,870.00	7,989.18	7,824.58	80.67	34.12	-89.01	1,230.32	3,166.48	4,248.00	4,151.26	96.74	43.912		
13,500.00	7,870.00	7,989.15	7,824.56	82.04	34.12	-89.01	1,230.32	3,166.48	4,347.82	4,251.03	96.79	44.920		
13,600.00	7,870.00	7,989.13	7,824.54	83.43	34.12	-89.00	1,230.32	3,166.48	4,447.65	4,350.81	96.84	45.929		
13,700.00	7,870.00	7,989.11	7,824.52	84.84	34.12	-89.00	1,230.32	3,166.48	4,547.49	4,450.60	96.88	46.937		
13,800.00	7,870.00	7,989.09	7,824.49	86.27	34.12	-88.99	1,230.32	3,166.48	4,647.33	4,550.40	96.93	47.945		
13,900.00	7,870.00	7,989.07	7,824.47	87.71	34.12	-88.99	1,230.32	3,166.48	4,747.18	4,650.21	96.98	48.953		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,870.00	7,989.05	7,824.45	89.16	34.12	-88.99	1,230.32	3,166.48	4,847.04	4,750.02	97.02	49.960		
14,100.00	7,870.00	7,989.03	7,824.43	90.63	34.12	-88.98	1,230.32	3,166.48	4,946.90	4,849.84	97.06	50.966		
14,200.00	7,870.00	7,989.01	7,824.41	92.10	34.12	-88.98	1,230.32	3,166.48	5,046.77	4,949.66	97.10	51.972		
14,300.00	7,870.00	7,988.99	7,824.39	93.59	34.12	-88.97	1,230.32	3,166.48	5,146.64	5,049.49	97.15	52.978		
14,400.00	7,870.00	7,988.97	7,824.37	95.09	34.12	-88.97	1,230.32	3,166.48	5,246.52	5,149.33	97.19	53.983		
14,500.00	7,870.00	7,988.95	7,824.35	96.60	34.12	-88.96	1,230.32	3,166.48	5,346.40	5,249.17	97.23	54.988		
14,600.00	7,870.00	7,988.92	7,824.33	98.11	34.12	-88.96	1,230.32	3,166.48	5,446.29	5,349.02	97.27	55.992		
14,700.00	7,870.00	7,988.90	7,824.31	99.64	34.12	-88.95	1,230.32	3,166.48	5,546.18	5,448.87	97.31	56.996		
14,800.00	7,870.00	7,988.88	7,824.29	101.17	34.12	-88.95	1,230.32	3,166.48	5,646.07	5,548.73	97.35	57.999		
14,900.00	7,870.00	7,988.86	7,824.27	102.71	34.12	-88.94	1,230.32	3,166.48	5,745.97	5,648.58	97.39	59.002		
15,000.00	7,870.00	7,988.84	7,824.25	104.26	34.12	-88.94	1,230.32	3,166.48	5,845.87	5,748.45	97.42	60.004		
15,100.00	7,870.00	7,988.82	7,824.22	105.82	34.12	-88.93	1,230.32	3,166.48	5,945.78	5,848.31	97.46	61.005		
15,200.00	7,870.00	7,988.80	7,824.20	107.38	34.12	-88.93	1,230.32	3,166.48	6,045.69	5,948.18	97.50	62.006		
15,300.00	7,870.00	7,988.78	7,824.18	108.95	34.12	-88.93	1,230.32	3,166.48	6,145.60	6,048.06	97.54	63.006		
15,400.00	7,870.00	7,988.76	7,824.16	110.52	34.12	-88.92	1,230.32	3,166.48	6,245.51	6,147.93	97.58	64.006		
15,500.00	7,870.00	7,988.74	7,824.14	112.10	34.12	-88.92	1,230.32	3,166.48	6,345.43	6,247.81	97.61	65.005		
15,600.00	7,870.00	7,988.72	7,824.12	113.69	34.12	-88.91	1,230.32	3,166.47	6,445.35	6,347.70	97.65	66.003		
15,700.00	7,870.00	7,988.70	7,824.10	115.28	34.12	-88.91	1,230.32	3,166.47	6,545.27	6,447.58	97.69	67.001		
15,800.00	7,870.00	7,988.68	7,824.08	116.87	34.12	-88.90	1,230.32	3,166.47	6,645.19	6,547.47	97.73	67.998		
15,900.00	7,870.00	7,988.66	7,824.06	118.47	34.12	-88.90	1,230.32	3,166.47	6,745.12	6,647.36	97.76	68.994		
16,000.00	7,870.00	7,988.64	7,824.04	120.07	34.12	-88.89	1,230.32	3,166.47	6,845.05	6,747.25	97.80	69.990		
16,100.00	7,870.00	7,988.62	7,824.02	121.68	34.12	-88.89	1,230.32	3,166.47	6,944.98	6,847.14	97.84	70.984		
16,200.00	7,870.00	7,988.60	7,824.00	123.30	34.12	-88.88	1,230.32	3,166.47	7,044.91	6,947.04	97.88	71.978		
16,300.00	7,870.00	7,988.58	7,823.98	124.91	34.12	-88.88	1,230.32	3,166.47	7,144.85	7,046.93	97.91	72.972		
16,400.00	7,870.00	7,988.56	7,823.96	126.53	34.12	-88.88	1,230.32	3,166.47	7,244.78	7,146.83	97.95	73.964		
16,500.00	7,870.00	7,988.54	7,823.94	128.16	34.12	-88.87	1,230.32	3,166.47	7,344.72	7,246.73	97.99	74.956		
16,600.00	7,870.00	7,988.52	7,823.92	129.79	34.12	-88.87	1,230.32	3,166.47	7,444.66	7,346.64	98.02	75.947		
16,700.00	7,870.00	7,988.50	7,823.90	131.42	34.12	-88.86	1,230.32	3,166.47	7,544.60	7,446.54	98.06	76.937		
16,800.00	7,870.00	7,988.48	7,823.88	133.05	34.12	-88.86	1,230.32	3,166.47	7,644.54	7,546.45	98.10	77.927		
16,900.00	7,870.00	7,988.46	7,823.86	134.69	34.12	-88.85	1,230.32	3,166.47	7,744.49	7,646.35	98.14	78.915		
17,000.00	7,870.00	7,988.44	7,823.84	136.33	34.12	-88.85	1,230.32	3,166.47	7,844.43	7,746.26	98.17	79.903		
17,100.00	7,870.00	7,988.42	7,823.82	137.97	34.12	-88.84	1,230.32	3,166.47	7,944.38	7,846.17	98.21	80.890		
17,200.00	7,870.00	7,988.40	7,823.80	139.62	34.12	-88.84	1,230.32	3,166.47	8,044.33	7,946.08	98.25	81.876		
17,300.00	7,870.00	7,988.38	7,823.78	141.27	34.12	-88.84	1,230.32	3,166.47	8,144.28	8,045.99	98.29	82.861		
17,400.00	7,870.00	7,988.36	7,823.76	142.92	34.12	-88.83	1,230.32	3,166.47	8,244.23	8,145.90	98.33	83.845		
17,500.00	7,870.00	7,988.34	7,823.74	144.58	34.12	-88.83	1,230.32	3,166.47	8,344.18	8,245.82	98.37	84.829		
17,600.00	7,870.00	7,988.32	7,823.72	146.23	34.12	-88.82	1,230.32	3,166.47	8,444.14	8,345.73	98.40	85.811		
17,700.00	7,870.00	7,988.30	7,823.70	147.89	34.12	-88.82	1,230.32	3,166.47	8,544.09	8,445.65	98.44	86.793		
17,800.00	7,870.00	7,988.28	7,823.68	149.56	34.12	-88.81	1,230.32	3,166.47	8,644.05	8,545.56	98.48	87.773		
17,900.00	7,870.00	7,988.26	7,823.66	151.22	34.12	-88.81	1,230.32	3,166.47	8,744.00	8,645.48	98.52	88.753		
18,000.00	7,870.00	7,988.24	7,823.64	152.89	34.12	-88.80	1,230.32	3,166.47	8,843.96	8,745.40	98.56	89.732		
18,100.00	7,870.00	7,988.22	7,823.62	154.55	34.12	-88.80	1,230.32	3,166.47	8,943.92	8,845.32	98.60	90.709		
18,200.00	7,870.00	7,988.20	7,823.60	156.22	34.12	-88.80	1,230.32	3,166.47	9,043.88	8,945.24	98.64	91.686		
18,300.00	7,870.00	7,988.18	7,823.58	157.90	34.12	-88.79	1,230.32	3,166.47	9,143.84	9,045.16	98.68	92.662		
18,400.00	7,870.00	7,988.16	7,823.57	159.57	34.12	-88.79	1,230.32	3,166.47	9,243.80	9,145.08	98.72	93.637		
18,500.00	7,870.00	7,988.14	7,823.55	161.25	34.12	-88.78	1,230.32	3,166.47	9,343.76	9,245.00	98.76	94.611		
18,600.00	7,870.00	7,988.12	7,823.53	162.93	34.12	-88.78	1,230.32	3,166.47	9,443.72	9,344.92	98.80	95.583		
18,700.00	7,870.00	7,988.10	7,823.51	164.60	34.12	-88.77	1,230.32	3,166.47	9,543.69	9,444.84	98.84	96.555		
18,797.52	7,870.00	7,988.08	7,823.49	166.24	34.12	-88.77	1,230.32	3,166.47	9,641.17	9,542.29	98.88	97.502		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	70.50	753.80	2,128.52	2,258.44					
100.00	100.00	79.20	79.19	0.13	0.13	70.50	753.49	2,128.23	2,257.78	2,257.52	0.26	8,698.637		
200.00	200.00	166.31	166.31	0.49	0.41	70.51	753.05	2,127.68	2,257.03	2,256.13	0.90	2,504.901		
300.00	300.00	275.01	275.01	0.85	0.79	70.50	753.35	2,127.06	2,256.59	2,254.95	1.64	1,372.036		
400.00	400.00	381.11	381.10	1.21	1.17	70.49	753.28	2,126.15	2,255.76	2,253.38	2.38	947.353		
500.00	500.00	538.18	538.10	1.57	1.73	70.57	749.37	2,124.12	2,253.85	2,250.55	3.30	683.641		
600.00	600.00	662.22	661.80	1.93	2.18	70.75	740.92	2,121.37	2,249.43	2,245.33	4.10	548.363		
700.00	700.00	741.54	740.69	2.29	2.48	70.94	732.71	2,120.75	2,245.28	2,240.53	4.75	472.509		
800.00	800.00	819.92	818.40	2.64	2.78	71.19	722.55	2,121.61	2,242.09	2,236.68	5.41	414.557		
900.00	900.00	875.86	873.68	3.00	3.01	71.41	714.18	2,123.41	2,240.35	2,234.36	5.99	374.065		
933.51	933.51	893.93	891.51	3.12	3.08	71.49	711.37	2,124.29	2,240.24	2,234.05	6.18	362.425		
1,000.00	1,000.00	920.00	917.20	3.36	3.18	71.60	707.22	2,125.81	2,240.74	2,234.22	6.52	343.555		
1,100.00	1,099.98	989.41	985.38	3.72	3.47	17.31	695.44	2,131.22	2,241.32	2,234.15	7.17	312.715		
1,200.00	1,199.84	1,042.07	1,036.87	4.07	3.70	17.61	685.81	2,136.61	2,240.60	2,232.86	7.74	289.569		
1,300.00	1,299.45	1,109.00	1,102.01	4.43	3.99	18.05	673.18	2,145.41	2,239.02	2,230.63	8.39	266.962		
1,400.00	1,398.70	1,146.01	1,137.91	4.80	4.16	18.32	666.14	2,151.06	2,236.10	2,227.20	8.90	251.346		
1,500.00	1,497.47	1,211.31	1,201.15	5.18	4.47	18.80	653.99	2,161.81	2,231.89	2,222.34	9.55	233.780		
1,600.00	1,595.62	1,279.00	1,266.78	5.57	4.79	19.32	642.21	2,173.47	2,225.79	2,215.58	10.21	217.924		
1,700.00	1,693.06	1,348.46	1,334.04	6.00	5.13	19.89	630.47	2,186.20	2,217.93	2,207.03	10.90	203.511		
1,800.00	1,789.64	1,417.06	1,400.20	6.45	5.47	20.50	618.50	2,199.86	2,208.48	2,196.89	11.59	190.582		
1,900.00	1,885.27	1,497.70	1,477.57	6.94	5.90	21.29	603.51	2,216.94	2,197.18	2,184.81	12.37	177.692		
2,000.00	1,979.82	1,594.55	1,570.34	7.47	6.43	22.30	584.83	2,237.52	2,183.13	2,169.87	13.26	164.694		
2,100.00	2,073.17	1,684.83	1,656.82	8.05	6.94	23.32	567.51	2,256.81	2,166.59	2,152.47	14.13	153.379		
2,200.00	2,165.21	1,777.82	1,746.00	8.67	7.47	24.44	549.80	2,276.38	2,147.27	2,132.24	15.03	142.879		
2,300.00	2,255.84	1,852.98	1,818.01	9.35	7.90	25.44	535.71	2,292.57	2,125.99	2,110.14	15.85	134.168		
2,400.00	2,344.94	1,966.97	1,927.45	10.09	8.56	26.97	514.53	2,316.44	2,101.81	2,084.90	16.91	124.268		
2,500.00	2,432.39	2,042.38	1,999.86	10.89	9.00	28.15	500.52	2,332.14	2,075.37	2,057.59	17.78	116.709		
2,519.29	2,449.07	2,055.68	2,012.62	11.05	9.07	28.37	498.04	2,334.96	2,070.09	2,052.14	17.95	115.335		
2,600.00	2,518.69	2,111.28	2,065.90	11.74	9.40	29.09	487.64	2,346.99	2,048.41	2,029.77	18.64	109.881		
2,700.00	2,604.95	2,223.82	2,173.57	12.62	10.08	30.61	465.64	2,371.26	2,022.35	2,002.56	19.80	102.159		
2,800.00	2,691.22	2,315.27	2,261.07	13.52	10.63	31.89	446.90	2,390.11	1,996.38	1,975.52	20.86	95.721		
2,900.00	2,777.48	2,383.97	2,326.85	14.43	11.05	32.86	433.19	2,404.42	1,971.66	1,949.86	21.80	90.459		
3,000.00	2,863.75	2,468.28	2,407.60	15.35	11.56	34.05	417.08	2,422.52	1,948.55	1,925.70	22.85	85.264		
3,100.00	2,950.01	2,557.40	2,492.93	16.28	12.10	35.34	399.61	2,441.38	1,926.29	1,902.32	23.97	80.369		
3,200.00	3,036.27	2,642.08	2,573.86	17.22	12.62	36.61	382.30	2,459.28	1,905.20	1,880.11	25.08	75.954		
3,300.00	3,122.54	2,727.16	2,655.28	18.17	13.14	37.90	365.43	2,477.29	1,885.31	1,859.09	26.22	71.897		
3,400.00	3,208.80	2,812.61	2,737.15	19.13	13.67	39.19	349.06	2,495.50	1,866.70	1,839.32	27.38	68.175		
3,500.00	3,295.07	2,910.97	2,831.43	20.09	14.26	40.70	330.14	2,516.23	1,849.15	1,820.51	28.65	64.551		
3,600.00	3,381.33	3,009.93	2,926.50	21.05	14.86	42.26	310.95	2,535.85	1,831.75	1,801.81	29.94	61.182		
3,700.00	3,467.59	3,076.00	2,989.94	22.02	15.26	43.30	298.49	2,549.46	1,816.29	1,785.26	31.03	58.530		
3,800.00	3,553.86	3,161.81	3,072.20	22.99	15.78	44.68	282.08	2,567.54	1,802.63	1,770.36	32.28	55.849		
3,900.00	3,640.12	3,254.84	3,161.42	23.97	16.35	46.19	264.14	2,586.83	1,790.10	1,756.51	33.59	53.289		
4,000.00	3,726.38	3,342.97	3,246.10	24.95	16.88	47.61	247.80	2,605.01	1,778.71	1,743.82	34.89	50.986		
4,100.00	3,812.65	3,425.92	3,325.78	25.93	17.38	48.97	232.35	2,622.12	1,768.74	1,732.58	36.16	48.913		
4,200.00	3,898.91	3,505.38	3,402.03	26.91	17.86	50.29	217.28	2,638.62	1,760.42	1,722.99	37.43	47.033		
4,300.00	3,985.18	3,584.86	3,478.11	27.90	18.35	51.64	201.27	2,655.14	1,753.94	1,715.23	38.72	45.304		
4,400.00	4,071.44	3,675.12	3,564.54	28.88	18.91	53.16	183.61	2,674.23	1,749.12	1,709.03	40.09	43.625		
4,500.00	4,157.70	3,763.71	3,649.61	29.87	19.45	54.64	167.30	2,692.82	1,745.26	1,703.79	41.47	42.088		
4,600.00	4,243.97	3,835.29	3,718.17	30.86	19.89	55.85	153.52	2,708.10	1,743.48	1,700.76	42.71	40.817		
4,696.57	4,327.27	3,940.67	3,819.16	31.82	20.54	57.64	132.88	2,730.04	1,742.93	1,698.70	44.23	39.405		
4,700.00	4,330.23	3,935.66	3,814.33	31.85	20.51	57.56	133.86	2,729.05	1,742.96	1,698.75	44.21	39.423		
4,800.00	4,416.49	4,004.22	3,880.00	32.84	20.93	58.72	120.58	2,743.63	1,744.21	1,698.76	45.45	38.377		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,502.76	4,099.02	3,970.72	33.84	21.52	60.32	102.19	2,764.10	1,747.27	1,700.35	46.92	37.242		
5,000.00	4,589.02	4,211.97	4,079.18	34.83	22.21	62.19	81.47	2,787.83	1,750.88	1,702.34	48.54	36.070		
5,100.00	4,675.29	4,282.62	4,147.10	35.82	22.64	63.35	69.02	2,802.78	1,755.70	1,705.89	49.81	35.251		
5,200.00	4,761.55	4,366.94	4,228.03	36.82	23.15	64.75	53.25	2,820.47	1,762.36	1,711.16	51.20	34.423		
5,300.00	4,847.81	4,435.29	4,293.53	37.82	23.57	65.89	39.87	2,834.63	1,770.78	1,718.33	52.45	33.763		
5,400.00	4,934.08	4,500.29	4,355.60	38.81	23.98	66.96	27.02	2,849.04	1,781.76	1,728.10	53.66	33.207		
5,500.00	5,020.34	4,577.36	4,429.02	39.81	24.48	68.23	10.86	2,866.05	1,794.79	1,739.80	54.98	32.642		
5,600.00	5,106.60	4,644.06	4,492.39	40.81	24.92	69.34	-3.87	2,880.76	1,809.88	1,753.68	56.20	32.204		
5,700.00	5,192.87	4,799.92	4,641.05	41.81	25.91	71.86	-36.21	2,914.51	1,825.50	1,767.17	58.33	31.294		
5,800.00	5,279.13	4,922.24	4,758.76	42.81	26.64	73.80	-59.27	2,938.45	1,839.90	1,779.81	60.10	30.616		
5,900.00	5,365.40	5,107.05	4,938.43	43.81	27.65	76.70	-89.74	2,968.98	1,852.12	1,789.77	62.35	29.706		
6,000.00	5,451.66	5,420.76	5,248.56	44.81	28.97	81.43	-119.18	3,004.06	1,857.34	1,792.30	65.04	28.557		
6,100.00	5,537.92	5,630.70	5,458.19	45.81	29.60	84.66	-126.14	3,011.93	1,855.64	1,788.88	66.76	27.797		
6,200.00	5,624.19	5,743.88	5,571.36	46.81	29.89	86.40	-126.76	3,013.47	1,852.57	1,784.39	68.18	27.170		
6,300.00	5,710.45	5,839.91	5,667.39	47.81	30.11	87.90	-126.69	3,013.88	1,849.92	1,780.34	69.58	26.588		
6,400.00	5,796.72	5,925.09	5,752.57	48.81	30.31	89.23	-126.83	3,013.87	1,848.58	1,777.63	70.95	26.054		
6,457.95	5,846.70	5,978.25	5,805.73	49.39	30.44	90.06	-126.78	3,013.97	1,848.39	1,776.65	71.74	25.763		
6,500.00	5,882.98	6,017.94	5,845.41	49.81	30.53	90.68	-126.60	3,014.13	1,848.48	1,776.17	72.32	25.561		
6,600.00	5,969.24	6,111.28	5,938.75	50.82	30.73	92.14	-126.19	3,013.92	1,849.37	1,775.71	73.66	25.107		
6,700.00	6,055.51	6,194.53	6,022.00	51.82	30.91	93.45	-125.99	3,013.39	1,851.60	1,776.63	74.98	24.696		
6,800.00	6,141.77	6,277.68	6,105.15	52.82	31.10	94.75	-125.79	3,013.13	1,855.37	1,779.10	76.27	24.326		
6,900.00	6,228.03	6,360.59	6,188.06	53.83	31.29	96.04	-125.62	3,013.09	1,860.64	1,783.09	77.55	23.994		
7,000.00	6,314.30	6,462.46	6,289.93	54.83	31.52	97.63	-125.43	3,012.46	1,867.08	1,788.26	78.82	23.689		
7,100.00	6,400.56	6,551.28	6,378.74	55.83	31.72	98.99	-124.57	3,012.15	1,874.34	1,794.29	80.05	23.415		
7,200.00	6,486.83	6,626.49	6,453.93	56.84	31.90	100.11	-123.43	3,013.10	1,883.08	1,801.83	81.25	23.178		
7,300.00	6,573.09	6,707.20	6,534.63	57.84	32.11	101.29	-122.70	3,014.34	1,893.60	1,811.17	82.42	22.974		
7,400.00	6,659.35	6,792.12	6,619.54	58.84	32.33	102.54	-122.12	3,015.39	1,905.42	1,821.84	83.58	22.797		
7,500.00	6,745.62	6,878.63	6,706.02	59.85	32.56	103.76	-121.17	3,017.78	1,918.55	1,833.83	84.72	22.645		
7,600.00	6,831.88	6,964.66	6,792.04	60.85	32.78	105.00	-120.69	3,018.68	1,932.75	1,846.94	85.82	22.521		
7,700.00	6,918.14	7,044.54	6,871.91	61.86	32.98	106.17	-120.84	3,018.49	1,948.42	1,861.56	86.86	22.433		
7,800.00	7,004.41	7,145.12	6,972.49	62.86	33.22	107.63	-120.90	3,017.74	1,965.05	1,877.15	87.90	22.355		
7,900.00	7,090.67	7,243.15	7,070.51	63.87	33.45	109.04	-120.40	3,016.77	1,982.35	1,893.45	88.90	22.298		
8,000.00	7,176.94	7,336.03	7,163.38	64.87	33.67	110.36	-119.23	3,015.61	2,000.10	1,910.24	89.86	22.258		
8,027.52	7,200.68	7,353.07	7,180.42	65.15	33.71	110.59	-119.05	3,015.44	2,005.25	1,915.15	90.10	22.256		
8,050.00	7,220.18	7,367.06	7,194.41	65.37	33.74	107.46	-118.94	3,015.32	2,009.15	1,918.85	90.29	22.252		
8,100.00	7,264.25	7,398.70	7,226.05	65.85	33.82	99.48	-118.81	3,015.16	2,015.13	1,924.42	90.71	22.215		
8,150.00	7,308.99	7,443.06	7,270.41	66.28	33.93	90.40	-118.81	3,015.02	2,017.27	1,926.12	91.15	22.131		
8,200.00	7,354.07	7,494.20	7,321.55	66.67	34.05	80.64	-118.71	3,014.62	2,015.25	1,923.66	91.59	22.003		
8,250.00	7,399.14	7,538.73	7,366.07	67.02	34.16	70.75	-118.57	3,014.16	2,009.09	1,917.10	91.99	21.841		
8,300.00	7,443.85	7,581.55	7,408.89	67.32	34.27	61.49	-118.44	3,013.91	1,998.92	1,906.56	92.36	21.643		
8,350.00	7,487.88	7,627.15	7,454.49	67.56	34.38	53.38	-118.29	3,013.82	1,984.78	1,892.06	92.71	21.408		
8,400.00	7,530.87	7,673.72	7,501.06	67.75	34.50	46.56	-118.05	3,013.76	1,966.65	1,873.60	93.05	21.136		
8,450.00	7,572.51	7,712.26	7,539.60	67.90	34.60	40.85	-117.81	3,013.75	1,944.68	1,851.35	93.33	20.836		
8,500.00	7,612.48	7,744.70	7,572.04	68.00	34.68	36.10	-117.71	3,013.78	1,919.19	1,825.61	93.58	20.509		
8,550.00	7,650.47	7,775.71	7,603.05	68.05	34.77	32.18	-117.74	3,013.86	1,890.34	1,796.55	93.79	20.154		
8,600.00	7,686.20	7,809.76	7,637.10	68.06	34.86	28.95	-117.85	3,013.98	1,858.28	1,764.28	94.00	19.769		
8,650.00	7,719.39	7,843.74	7,671.08	68.03	34.96	26.25	-117.97	3,014.08	1,823.10	1,728.91	94.19	19.355		
8,700.00	7,749.79	7,874.86	7,702.20	67.97	35.04	23.88	-118.07	3,014.15	1,785.04	1,690.69	94.35	18.919		
8,750.00	7,777.17	7,903.44	7,730.78	67.87	35.12	21.70	-118.14	3,014.21	1,744.38	1,649.89	94.49	18.461		
8,800.00	7,801.32	7,928.74	7,756.08	67.74	35.19	19.55	-118.19	3,014.29	1,701.38	1,606.78	94.60	17.985		
8,850.00	7,822.06	7,950.45	7,777.79	67.59	35.26	17.17	-118.22	3,014.38	1,656.36	1,561.67	94.69	17.492		
8,900.00	7,839.23	7,968.40	7,795.73	67.41	35.31	14.12	-118.23	3,014.46	1,609.66	1,514.90	94.76	16.987		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,950.00	7,852.69	7,982.45	7,809.79	67.22	35.35	9.39	-118.24	3,014.54	1,561.61	1,466.81	94.80	16.472		
9,000.00	7,862.35	7,991.88	7,819.22	67.00	35.37	-0.04	-118.24	3,014.59	1,512.59	1,417.76	94.83	15.951		
9,050.00	7,868.14	7,997.71	7,825.05	66.78	35.39	-26.72	-118.25	3,014.63	1,462.95	1,368.12	94.83	15.427		
9,098.65	7,870.00	7,999.60	7,826.94	66.55	35.39	-89.44	-118.25	3,014.64	1,414.44	1,319.61	94.82	14.916		
9,100.00	7,870.00	7,999.60	7,826.94	66.55	35.39	-89.44	-118.25	3,014.64	1,413.09	1,318.27	94.82	14.902		
9,200.00	7,870.00	7,999.63	7,826.97	66.09	35.39	-89.46	-118.25	3,014.64	1,313.41	1,218.63	94.79	13.856		
9,300.00	7,870.00	7,999.66	7,826.99	65.65	35.39	-89.47	-118.25	3,014.64	1,213.79	1,119.05	94.75	12.811		
9,400.00	7,870.00	7,999.68	7,827.02	65.24	35.39	-89.49	-118.25	3,014.64	1,114.24	1,019.54	94.70	11.767		
9,500.00	7,870.00	7,999.71	7,827.05	64.85	35.39	-89.50	-118.25	3,014.64	1,014.77	920.13	94.63	10.723		
9,600.00	7,870.00	7,999.74	7,827.08	64.48	35.39	-89.52	-118.25	3,014.64	915.41	820.86	94.55	9.681		
9,700.00	7,870.00	7,999.77	7,827.10	64.13	35.39	-89.53	-118.25	3,014.64	816.22	721.77	94.45	8.642		
9,800.00	7,870.00	7,999.79	7,827.13	63.80	35.39	-89.54	-118.25	3,014.64	717.25	622.94	94.31	7.605		
9,900.00	7,870.00	7,999.82	7,827.16	63.50	35.39	-89.56	-118.25	3,014.64	618.61	524.50	94.11	6.573		
10,000.00	7,870.00	7,999.85	7,827.18	63.22	35.40	-89.57	-118.25	3,014.64	520.49	426.69	93.80	5.549		
10,100.00	7,870.00	7,999.87	7,827.21	62.96	35.40	-89.59	-118.25	3,014.64	423.25	329.97	93.28	4.537		
10,200.00	7,870.00	7,999.90	7,827.24	62.72	35.40	-89.60	-118.25	3,014.64	327.68	235.36	92.32	3.549		
10,300.00	7,870.00	7,999.93	7,827.27	62.50	35.40	-89.62	-118.25	3,014.64	235.80	145.60	90.20	2.614		
10,400.00	7,870.00	7,999.96	7,827.29	62.31	35.40	-89.63	-118.25	3,014.64	154.39	69.80	84.58	1.825		
10,500.00	7,870.00	7,999.98	7,827.32	62.15	35.40	-89.64	-118.25	3,014.64	109.85	35.48	74.37	1.477	Level 3	
10,508.84	7,870.00	7,999.99	7,827.32	62.13	35.40	-89.65	-118.25	3,014.64	109.49	35.27	74.22	1.475	Level 3, CC, ES, SF	
10,600.00	7,870.00	8,000.01	7,827.35	62.01	35.40	-89.66	-118.25	3,014.64	142.47	58.26	84.21	1.692		
10,700.00	7,870.00	8,000.04	7,827.37	61.90	35.40	-89.67	-118.25	3,014.64	220.29	128.97	91.32	2.412		
10,800.00	7,870.00	8,000.06	7,827.40	61.82	35.40	-89.69	-118.25	3,014.64	311.06	217.55	93.51	3.326		
10,900.00	7,870.00	8,000.09	7,827.43	61.78	35.40	-89.70	-118.25	3,014.64	406.19	311.86	94.33	4.306		
11,000.00	7,870.00	8,000.12	7,827.45	61.77	35.40	-89.71	-118.25	3,014.64	503.21	408.51	94.70	5.313		
11,100.00	7,870.00	8,000.14	7,827.48	61.81	35.40	-89.73	-118.25	3,014.64	601.21	506.31	94.90	6.335		
11,200.00	7,870.00	8,000.17	7,827.51	61.90	35.40	-89.74	-118.25	3,014.64	699.78	604.77	95.00	7.366		
11,300.00	7,870.00	8,000.20	7,827.54	62.03	35.40	-89.76	-118.25	3,014.64	798.70	703.63	95.07	8.401		
11,400.00	7,870.00	8,000.23	7,827.56	62.23	35.40	-89.77	-118.25	3,014.64	897.86	802.74	95.11	9.440		
11,500.00	7,870.00	8,000.25	7,827.59	62.50	35.40	-89.78	-118.25	3,014.64	997.19	902.04	95.14	10.481		
11,600.00	7,870.00	8,000.28	7,827.62	62.84	35.40	-89.80	-118.25	3,014.64	1,096.64	1,001.47	95.16	11.524		
11,700.00	7,870.00	8,000.31	7,827.64	63.25	35.40	-89.81	-118.25	3,014.64	1,196.18	1,101.00	95.18	12.568		
11,800.00	7,870.00	8,000.33	7,827.67	63.76	35.40	-89.83	-118.25	3,014.64	1,295.79	1,200.60	95.19	13.613		
11,900.00	7,870.00	8,000.36	7,827.70	64.34	35.40	-89.84	-118.25	3,014.64	1,395.46	1,300.26	95.20	14.658		
12,000.00	7,870.00	8,000.39	7,827.72	65.01	35.40	-89.85	-118.25	3,014.64	1,495.17	1,399.96	95.21	15.704		
12,100.00	7,870.00	8,000.41	7,827.75	65.77	35.40	-89.87	-118.25	3,014.64	1,594.92	1,499.70	95.22	16.750		
12,200.00	7,870.00	8,000.44	7,827.78	66.61	35.40	-89.88	-118.25	3,014.64	1,694.70	1,599.47	95.23	17.796		
12,300.00	7,870.00	8,000.47	7,827.80	67.51	35.40	-89.90	-118.25	3,014.64	1,794.50	1,699.26	95.24	18.843		
12,400.00	7,870.00	8,000.49	7,827.83	68.49	35.40	-89.91	-118.25	3,014.64	1,894.32	1,799.08	95.24	19.889		
12,500.00	7,870.00	8,000.52	7,827.86	69.52	35.40	-89.92	-118.25	3,014.64	1,994.16	1,898.91	95.25	20.936		
12,600.00	7,870.00	8,000.55	7,827.88	70.61	35.40	-89.94	-118.25	3,014.64	2,094.02	1,998.76	95.26	21.982		
12,700.00	7,870.00	8,000.57	7,827.91	71.75	35.40	-89.95	-118.25	3,014.64	2,193.89	2,098.62	95.27	23.028		
12,800.00	7,870.00	8,000.60	7,827.94	72.93	35.40	-89.97	-118.25	3,014.64	2,293.77	2,198.49	95.28	24.074		
12,900.00	7,870.00	8,000.62	7,827.96	74.14	35.40	-89.98	-118.25	3,014.64	2,393.66	2,298.37	95.29	25.120		
13,000.00	7,870.00	8,000.65	7,827.99	75.39	35.40	-89.99	-118.25	3,014.64	2,493.56	2,398.26	95.30	26.166		
13,100.00	7,870.00	8,000.68	7,828.01	76.67	35.40	-90.01	-118.25	3,014.64	2,593.47	2,498.16	95.31	27.212		
13,200.00	7,870.00	8,000.70	7,828.04	77.98	35.40	-90.02	-118.25	3,014.64	2,693.38	2,598.06	95.32	28.257		
13,300.00	7,870.00	8,000.73	7,828.07	79.31	35.40	-90.04	-118.25	3,014.64	2,793.30	2,697.97	95.33	29.302		
13,400.00	7,870.00	8,000.76	7,828.09	80.67	35.40	-90.05	-118.25	3,014.64	2,893.23	2,797.89	95.34	30.346		
13,500.00	7,870.00	8,000.78	7,828.12	82.04	35.40	-90.06	-118.25	3,014.64	2,993.16	2,897.81	95.35	31.390		
13,600.00	7,870.00	8,000.81	7,828.15	83.43	35.40	-90.08	-118.25	3,014.64	3,093.10	2,997.73	95.37	32.434		
13,700.00	7,870.00	8,000.84	7,828.17	84.84	35.40	-90.09	-118.25	3,014.65	3,193.03	3,097.66	95.38	33.478		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,800.00	7,870.00	8,000.86	7,828.20	86.27	35.40	-90.10	-118.25	3,014.65	3,292.98	3,197.59	95.39	34.521		
13,900.00	7,870.00	8,000.89	7,828.23	87.71	35.40	-90.12	-118.25	3,014.65	3,392.92	3,297.52	95.41	35.563		
14,000.00	7,870.00	8,000.91	7,828.25	89.16	35.40	-90.13	-118.25	3,014.65	3,492.87	3,397.45	95.42	36.605		
14,100.00	7,870.00	8,000.94	7,828.28	90.63	35.40	-90.15	-118.25	3,014.65	3,592.83	3,497.39	95.43	37.647		
14,200.00	7,870.00	8,000.97	7,828.30	92.10	35.40	-90.16	-118.25	3,014.65	3,692.78	3,597.33	95.45	38.688		
14,300.00	7,870.00	8,000.99	7,828.33	93.59	35.40	-90.17	-118.25	3,014.65	3,792.74	3,697.27	95.46	39.729		
14,400.00	7,870.00	8,001.02	7,828.36	95.09	35.40	-90.19	-118.25	3,014.65	3,892.70	3,797.22	95.48	40.769		
14,500.00	7,870.00	8,001.05	7,828.38	96.60	35.40	-90.20	-118.25	3,014.65	3,992.66	3,897.16	95.50	41.809		
14,600.00	7,870.00	8,001.07	7,828.41	98.11	35.40	-90.21	-118.25	3,014.65	4,092.62	3,997.11	95.51	42.848		
14,700.00	7,870.00	8,001.10	7,828.43	99.64	35.40	-90.23	-118.25	3,014.65	4,192.59	4,097.05	95.53	43.887		
14,800.00	7,870.00	8,001.12	7,828.46	101.17	35.40	-90.24	-118.25	3,014.65	4,292.55	4,197.00	95.55	44.925		
14,900.00	7,870.00	8,001.15	7,828.49	102.71	35.40	-90.25	-118.25	3,014.65	4,392.52	4,296.95	95.57	45.962		
15,000.00	7,870.00	8,001.18	7,828.51	104.26	35.40	-90.27	-118.25	3,014.65	4,492.49	4,396.90	95.59	46.999		
15,100.00	7,870.00	8,001.20	7,828.54	105.82	35.40	-90.28	-118.25	3,014.65	4,592.46	4,496.86	95.61	48.035		
15,200.00	7,870.00	8,001.23	7,828.56	107.38	35.40	-90.30	-118.25	3,014.65	4,692.43	4,596.81	95.63	49.071		
15,300.00	7,870.00	8,001.25	7,828.59	108.95	35.40	-90.31	-118.25	3,014.65	4,792.41	4,696.76	95.65	50.106		
15,400.00	7,870.00	8,001.28	7,828.62	110.52	35.40	-90.32	-118.25	3,014.65	4,892.38	4,796.72	95.67	51.140		
15,500.00	7,870.00	8,001.30	7,828.64	112.10	35.40	-90.34	-118.25	3,014.65	4,992.36	4,896.67	95.69	52.174		
15,600.00	7,870.00	8,001.33	7,828.67	113.69	35.40	-90.35	-118.25	3,014.65	5,092.33	4,996.63	95.71	53.207		
15,700.00	7,870.00	8,001.36	7,828.69	115.28	35.40	-90.36	-118.25	3,014.65	5,192.31	5,096.58	95.73	54.239		
15,800.00	7,870.00	8,001.38	7,828.72	116.87	35.40	-90.38	-118.25	3,014.65	5,292.29	5,196.54	95.75	55.271		
15,900.00	7,870.00	8,001.41	7,828.75	118.47	35.40	-90.39	-118.25	3,014.65	5,392.27	5,296.49	95.77	56.302		
16,000.00	7,870.00	8,001.43	7,828.77	120.07	35.40	-90.40	-118.25	3,014.65	5,492.25	5,396.45	95.80	57.332		
16,100.00	7,870.00	8,001.46	7,828.80	121.68	35.40	-90.42	-118.25	3,014.65	5,592.23	5,496.41	95.82	58.361		
16,200.00	7,870.00	8,001.49	7,828.82	123.30	35.40	-90.43	-118.25	3,014.65	5,692.21	5,596.36	95.85	59.390		
16,300.00	7,870.00	8,001.51	7,828.85	124.91	35.40	-90.44	-118.25	3,014.65	5,792.19	5,696.32	95.87	60.417		
16,400.00	7,870.00	8,001.54	7,828.87	126.53	35.40	-90.46	-118.25	3,014.65	5,892.17	5,796.28	95.89	61.444		
16,500.00	7,870.00	8,001.56	7,828.90	128.16	35.40	-90.47	-118.25	3,014.65	5,992.16	5,896.24	95.92	62.471		
16,600.00	7,870.00	8,001.59	7,828.92	129.79	35.40	-90.48	-118.25	3,014.65	6,092.14	5,996.20	95.95	63.496		
16,700.00	7,870.00	8,001.61	7,828.95	131.42	35.40	-90.50	-118.25	3,014.65	6,192.12	6,096.15	95.97	64.521		
16,800.00	7,870.00	8,001.64	7,828.98	133.05	35.40	-90.51	-118.25	3,014.65	6,292.11	6,196.11	96.00	65.544		
16,900.00	7,870.00	8,001.66	7,829.00	134.69	35.40	-90.52	-118.25	3,014.65	6,392.09	6,296.07	96.02	66.567		
17,000.00	7,870.00	8,001.69	7,829.03	136.33	35.40	-90.54	-118.25	3,014.65	6,492.08	6,396.03	96.05	67.589		
17,100.00	7,870.00	8,001.72	7,829.05	137.97	35.40	-90.55	-118.25	3,014.65	6,592.07	6,495.99	96.08	68.610		
17,200.00	7,870.00	8,001.74	7,829.08	139.62	35.40	-90.56	-118.25	3,014.65	6,692.05	6,595.94	96.11	69.630		
17,300.00	7,870.00	8,001.77	7,829.10	141.27	35.40	-90.58	-118.25	3,014.65	6,792.04	6,695.90	96.14	70.650		
17,400.00	7,870.00	8,001.79	7,829.13	142.92	35.40	-90.59	-118.25	3,014.65	6,892.03	6,795.86	96.17	71.668		
17,500.00	7,870.00	8,001.82	7,829.15	144.58	35.40	-90.60	-118.25	3,014.65	6,992.01	6,895.82	96.20	72.686		
17,600.00	7,870.00	8,001.84	7,829.18	146.23	35.40	-90.62	-118.25	3,014.65	7,092.00	6,995.78	96.23	73.702		
17,700.00	7,870.00	8,001.87	7,829.20	147.89	35.40	-90.63	-118.25	3,014.65	7,191.99	7,095.73	96.26	74.718		
17,800.00	7,870.00	8,001.89	7,829.23	149.56	35.40	-90.64	-118.25	3,014.65	7,291.98	7,195.69	96.29	75.733		
17,900.00	7,870.00	8,001.92	7,829.26	151.22	35.40	-90.66	-118.25	3,014.65	7,391.97	7,295.65	96.32	76.746		
18,000.00	7,870.00	8,001.94	7,829.28	152.89	35.40	-90.67	-118.25	3,014.65	7,491.96	7,395.61	96.35	77.759		
18,100.00	7,870.00	8,001.97	7,829.31	154.55	35.40	-90.68	-118.25	3,014.65	7,591.95	7,495.57	96.38	78.771		
18,200.00	7,870.00	8,001.99	7,829.33	156.22	35.40	-90.70	-118.25	3,014.65	7,691.94	7,595.52	96.41	79.781		
18,300.00	7,870.00	8,002.02	7,829.36	157.90	35.40	-90.71	-118.25	3,014.65	7,791.93	7,695.48	96.45	80.791		
18,400.00	7,870.00	8,002.04	7,829.38	159.57	35.40	-90.72	-118.25	3,014.65	7,891.92	7,795.44	96.48	81.800		
18,500.00	7,870.00	8,002.07	7,829.41	161.25	35.40	-90.74	-118.25	3,014.65	7,991.91	7,895.39	96.51	82.807		
18,600.00	7,870.00	8,002.09	7,829.43	162.93	35.40	-90.75	-118.25	3,014.65	8,091.90	7,995.35	96.55	83.814		
18,700.00	7,870.00	8,002.12	7,829.46	164.60	35.40	-90.76	-118.25	3,014.65	8,191.89	8,095.31	96.58	84.819		
18,797.52	7,870.00	8,002.14	7,829.48	166.24	35.40	-90.77	-118.25	3,014.65	8,289.40	8,192.78	96.61	85.799		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	82.13	747.02	5,404.45	5,456.45					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	81.02	831.93	5,264.58	5,445.58	5,440.79	4.79	1,136.530		
200.00	200.00	1,208.54	1,189.12	0.49	5.09	80.93	838.76	5,251.98	5,425.32	5,420.10	5.22	1,038.570		
300.00	300.00	1,259.15	1,238.25	0.85	5.37	80.85	844.57	5,241.30	5,406.06	5,400.32	5.74	942.629		
400.00	400.00	1,339.00	1,315.86	1.21	5.79	80.72	853.63	5,224.88	5,387.37	5,380.95	6.41	839.832		
500.00	500.00	1,458.24	1,431.59	1.57	6.44	80.52	868.19	5,200.12	5,368.64	5,361.35	7.30	735.817		
600.00	600.00	1,648.23	1,615.10	1.93	7.51	80.16	894.28	5,158.45	5,349.11	5,340.58	8.53	626.860		
700.00	700.00	1,722.40	1,686.66	2.29	7.94	80.03	904.28	5,141.69	5,328.85	5,319.62	9.23	577.191		
800.00	800.00	1,819.99	1,780.84	2.64	8.50	79.84	917.40	5,119.74	5,308.76	5,298.72	10.04	528.505		
900.00	900.00	1,886.44	1,845.11	3.00	8.87	79.72	925.76	5,105.09	5,289.04	5,278.33	10.71	493.835		
1,000.00	1,000.00	1,942.27	1,899.28	3.36	9.18	79.63	932.23	5,093.23	5,270.00	5,258.68	11.32	465.447		
1,100.00	1,099.98	1,997.51	1,953.04	3.72	9.47	25.09	938.24	5,082.01	5,250.25	5,238.32	11.93	440.055		
1,200.00	1,199.84	2,140.72	2,092.34	4.07	10.24	25.09	954.25	5,052.89	5,227.50	5,214.57	12.93	404.375		
1,300.00	1,299.45	2,245.32	2,193.77	4.43	10.82	25.18	966.87	5,030.67	5,200.92	5,187.16	13.76	377.908		
1,400.00	1,398.70	2,317.72	2,263.98	4.80	11.22	25.35	975.80	5,015.43	5,171.59	5,157.14	14.45	357.822		
1,500.00	1,497.47	2,391.59	2,335.74	5.18	11.62	25.56	984.67	5,000.32	5,139.75	5,124.60	15.15	339.270		
1,600.00	1,595.62	2,492.00	2,433.24	5.57	12.17	25.79	997.15	4,979.81	5,105.07	5,089.10	15.97	319.729		
1,700.00	1,693.06	2,586.07	2,524.47	6.00	12.69	26.07	1,009.17	4,960.31	5,067.23	5,050.47	16.76	302.335		
1,800.00	1,789.64	2,653.52	2,590.01	6.45	13.05	26.43	1,017.43	4,946.62	5,026.84	5,009.41	17.44	288.309		
1,900.00	1,885.27	2,734.36	2,668.74	6.94	13.48	26.84	1,026.40	4,930.63	4,983.91	4,965.74	18.16	274.394		
2,000.00	1,979.82	2,969.55	2,896.67	7.47	14.79	27.29	1,055.13	4,880.42	4,936.93	4,917.35	19.58	252.141		
2,100.00	2,073.17	3,022.00	2,947.34	8.05	15.09	27.84	1,061.73	4,868.57	4,886.25	4,866.04	20.21	241.760		
2,200.00	2,165.21	3,078.47	3,001.89	8.67	15.42	28.43	1,069.35	4,856.09	4,833.48	4,812.60	20.87	231.547		
2,300.00	2,255.84	3,151.96	3,072.77	9.35	15.84	29.08	1,080.33	4,840.13	4,778.60	4,756.97	21.63	220.948		
2,400.00	2,344.94	3,241.54	3,159.04	10.09	16.37	29.82	1,094.11	4,820.34	4,720.97	4,698.50	22.47	210.123		
2,500.00	2,432.39	3,304.00	3,219.19	10.89	16.73	30.62	1,103.95	4,806.68	4,661.12	4,637.92	23.20	200.916		
2,519.29	2,449.07	3,325.06	3,239.47	11.05	16.86	30.80	1,107.29	4,802.10	4,649.32	4,625.93	23.39	198.815		
2,600.00	2,518.69	3,432.92	3,343.29	11.74	17.49	30.92	1,123.97	4,778.07	4,599.39	4,575.17	24.23	189.841		
2,700.00	2,604.95	3,546.25	3,452.43	12.62	18.16	31.08	1,139.90	4,752.04	4,536.81	4,511.63	25.17	180.218		
2,800.00	2,691.22	3,608.40	3,512.43	13.52	18.52	31.18	1,147.50	4,737.72	4,474.00	4,448.08	25.91	172.649		
2,900.00	2,777.48	3,647.18	3,549.96	14.43	18.73	31.25	1,152.13	4,729.12	4,411.80	4,385.23	26.57	166.015		
3,000.00	2,863.75	3,709.19	3,610.09	15.35	19.08	31.37	1,159.56	4,715.90	4,350.27	4,322.94	27.33	159.149		
3,100.00	2,950.01	3,803.21	3,701.10	16.28	19.61	31.54	1,171.11	4,695.34	4,288.37	4,260.15	28.22	151.963		
3,200.00	3,036.27	3,855.43	3,751.65	17.22	19.91	31.64	1,177.77	4,684.08	4,226.82	4,197.85	28.97	145.913		
3,300.00	3,122.54	3,974.32	3,866.68	18.17	20.58	31.86	1,192.99	4,658.15	4,165.07	4,135.12	29.95	139.052		
3,400.00	3,208.80	4,023.84	3,914.64	19.13	20.86	31.97	1,198.95	4,647.37	4,103.31	4,072.60	30.71	133.626		
3,500.00	3,295.07	4,071.24	3,960.68	20.09	21.12	32.07	1,204.30	4,637.43	4,042.11	4,010.65	31.46	128.474		
3,600.00	3,381.33	4,114.84	4,003.15	21.05	21.34	32.18	1,208.87	4,628.70	3,981.61	3,949.40	32.21	123.609		
3,700.00	3,467.59	4,150.00	4,037.49	22.02	21.53	32.28	1,212.31	4,621.98	3,921.86	3,888.91	32.95	119.033		
3,800.00	3,553.86	4,206.54	4,092.87	22.99	21.81	32.44	1,217.27	4,611.74	3,862.78	3,829.04	33.74	114.480		
3,900.00	3,640.12	4,243.00	4,128.69	23.97	21.98	32.56	1,220.05	4,605.50	3,804.47	3,769.97	34.50	110.285		
4,000.00	3,726.38	4,288.19	4,173.19	24.95	22.18	32.72	1,223.12	4,598.28	3,747.03	3,711.76	35.27	106.229		
4,100.00	3,812.65	4,337.00	4,221.41	25.93	22.40	32.90	1,226.02	4,591.27	3,690.66	3,654.59	36.07	102.320		
4,200.00	3,898.91	4,363.19	4,247.33	26.91	22.51	33.00	1,227.43	4,587.83	3,635.24	3,598.42	36.82	98.728		
4,300.00	3,985.18	4,401.50	4,285.31	27.90	22.66	33.15	1,229.39	4,583.22	3,580.93	3,543.32	37.61	95.216		
4,400.00	4,071.44	4,445.73	4,329.24	28.88	22.83	33.34	1,231.49	4,578.46	3,527.71	3,489.29	38.42	91.826		
4,500.00	4,157.70	4,505.20	4,388.37	29.87	23.05	33.60	1,233.83	4,572.59	3,475.26	3,436.00	39.26	88.511		
4,600.00	4,243.97	4,555.83	4,438.77	30.86	23.23	33.84	1,235.43	4,568.01	3,423.57	3,383.47	40.10	85.375		
4,700.00	4,330.23	4,617.00	4,499.72	31.85	23.44	34.13	1,237.25	4,563.24	3,372.92	3,331.95	40.97	82.332		
4,800.00	4,416.49	4,650.87	4,533.50	32.84	23.55	34.30	1,238.13	4,560.98	3,323.21	3,281.42	41.79	79.523		
4,900.00	4,502.76	4,710.00	4,592.54	33.84	23.73	34.62	1,239.09	4,557.72	3,274.65	3,231.98	42.67	76.743		
5,000.00	4,589.02	4,755.79	4,638.28	34.83	23.86	34.87	1,239.35	4,555.69	3,227.05	3,183.52	43.53	74.134		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	4,815.89	4,698.34	35.82	24.03	35.23	1,239.05	4,553.50	3,180.34	3,135.91	44.43	71.581		
5,200.00	4,761.55	4,879.14	4,761.56	36.82	24.20	35.61	1,238.79	4,551.64	3,134.45	3,089.10	45.35	69.123		
5,300.00	4,847.81	4,930.78	4,813.18	37.82	24.33	35.92	1,238.82	4,550.52	3,089.49	3,043.24	46.25	66.799		
5,400.00	4,934.08	4,991.00	4,873.40	38.81	24.48	36.29	1,238.78	4,550.08	3,045.85	2,998.66	47.18	64.553		
5,500.00	5,020.34	5,057.39	4,939.79	39.81	24.63	36.72	1,238.68	4,550.09	3,003.11	2,954.97	48.14	62.384		
5,600.00	5,106.60	5,159.25	5,041.66	40.81	24.88	37.38	1,238.55	4,549.82	2,960.48	2,911.29	49.19	60.185		
5,700.00	5,192.87	5,257.19	5,139.59	41.81	25.13	38.03	1,238.46	4,549.04	2,917.63	2,867.37	50.26	58.055		
5,800.00	5,279.13	5,340.99	5,223.39	42.81	25.35	38.61	1,238.36	4,548.22	2,874.90	2,823.59	51.31	56.026		
5,900.00	5,365.40	5,429.09	5,311.48	43.81	25.58	39.23	1,238.35	4,547.41	2,832.51	2,780.11	52.40	54.055		
6,000.00	5,451.66	5,521.80	5,404.18	44.81	25.83	39.90	1,238.26	4,546.39	2,790.26	2,736.75	53.52	52.138		
6,100.00	5,537.92	5,620.87	5,503.25	45.81	26.10	40.65	1,237.74	4,544.95	2,748.03	2,693.37	54.67	50.270		
6,200.00	5,624.19	5,718.61	5,600.96	46.81	26.36	41.43	1,236.87	4,543.01	2,705.69	2,649.86	55.83	48.459		
6,300.00	5,710.45	5,805.70	5,688.03	47.81	26.60	42.14	1,236.10	4,541.04	2,663.46	2,606.46	57.01	46.722		
6,400.00	5,796.72	5,891.37	5,773.67	48.81	26.84	42.86	1,235.27	4,539.08	2,621.60	2,563.40	58.20	45.044		
6,500.00	5,882.98	5,969.27	5,851.54	49.81	27.06	43.53	1,234.35	4,537.34	2,580.19	2,520.79	59.40	43.434		
6,600.00	5,969.24	6,046.20	5,928.45	50.82	27.27	44.22	1,233.42	4,535.94	2,539.55	2,478.92	60.63	41.885		
6,700.00	6,055.51	6,132.48	6,014.72	51.82	27.50	45.00	1,232.43	4,534.44	2,499.41	2,437.51	61.90	40.378		
6,800.00	6,141.77	6,217.39	6,099.62	52.82	27.74	45.79	1,231.81	4,532.99	2,459.73	2,396.54	63.19	38.923		
6,900.00	6,228.03	6,307.14	6,189.35	53.83	28.00	46.64	1,231.65	4,531.45	2,420.46	2,355.94	64.52	37.512		
7,000.00	6,314.30	6,411.33	6,293.51	54.83	28.31	47.62	1,232.75	4,529.31	2,381.24	2,315.34	65.90	36.133		
7,100.00	6,400.56	6,480.96	6,363.12	55.83	28.52	48.29	1,233.71	4,527.97	2,342.56	2,275.31	67.24	34.836		
7,200.00	6,486.83	6,555.29	6,437.44	56.84	28.75	49.02	1,234.53	4,526.85	2,304.77	2,236.15	68.62	33.587		
7,300.00	6,573.09	6,630.42	6,512.56	57.84	28.97	49.79	1,235.06	4,526.04	2,267.93	2,197.91	70.03	32.387		
7,400.00	6,659.35	6,708.64	6,590.78	58.84	29.19	50.62	1,235.10	4,525.46	2,232.04	2,160.57	71.47	31.232		
7,500.00	6,745.62	6,790.11	6,672.25	59.85	29.42	51.51	1,235.00	4,525.02	2,196.95	2,124.00	72.94	30.118		
7,600.00	6,831.88	6,869.88	6,752.02	60.85	29.64	52.41	1,234.63	4,524.75	2,162.72	2,088.28	74.44	29.052		
7,700.00	6,918.14	6,956.54	6,838.68	61.86	29.88	53.42	1,234.16	4,524.54	2,129.28	2,053.29	75.99	28.022		
7,800.00	7,004.41	7,037.58	6,919.71	62.86	30.10	54.38	1,233.70	4,524.42	2,096.63	2,019.08	77.54	27.038		
7,900.00	7,090.67	7,123.98	7,006.11	63.87	30.33	55.43	1,233.20	4,524.42	2,064.83	1,985.69	79.14	26.091		
8,000.00	7,176.94	7,204.41	7,086.54	64.87	30.55	56.43	1,232.87	4,524.51	2,033.87	1,953.12	80.75	25.189		
8,027.52	7,200.68	7,226.04	7,108.17	65.15	30.61	56.70	1,232.76	4,524.58	2,025.54	1,944.35	81.19	24.948		
8,050.00	7,220.18	7,245.07	7,127.20	65.37	30.66	52.88	1,232.66	4,524.66	2,018.63	1,937.08	81.55	24.754		
8,100.00	7,264.25	7,292.67	7,174.80	65.85	30.79	43.27	1,232.43	4,524.81	2,002.08	1,919.79	82.29	24.331		
8,150.00	7,308.99	7,340.98	7,223.11	66.28	30.92	32.21	1,232.26	4,524.90	1,983.93	1,901.02	82.92	23.927		
8,200.00	7,354.07	7,387.78	7,269.91	66.67	31.05	20.14	1,232.12	4,524.93	1,964.27	1,880.84	83.43	23.543		
8,250.00	7,399.14	7,434.87	7,317.00	67.02	31.18	7.76	1,231.99	4,524.92	1,943.20	1,859.37	83.83	23.180		
8,300.00	7,443.85	7,481.56	7,363.69	67.32	31.31	-4.22	1,231.87	4,524.86	1,920.86	1,836.75	84.10	22.840		
8,350.00	7,487.88	7,527.49	7,409.62	67.56	31.44	-15.36	1,231.76	4,524.75	1,897.39	1,813.15	84.24	22.523		
8,400.00	7,530.87	7,569.27	7,451.40	67.75	31.56	-25.46	1,231.63	4,524.64	1,873.07	1,788.82	84.25	22.232		
8,450.00	7,572.51	7,610.36	7,492.49	67.90	31.68	-34.57	1,231.46	4,524.53	1,848.13	1,764.00	84.13	21.968		
8,500.00	7,612.48	7,646.04	7,528.16	68.00	31.78	-42.75	1,231.31	4,524.49	1,822.88	1,739.02	83.86	21.737		
8,550.00	7,650.47	7,680.06	7,562.18	68.05	31.87	-50.13	1,231.19	4,524.53	1,797.66	1,714.20	83.46	21.539		
8,600.00	7,686.20	7,712.27	7,594.40	68.06	31.96	-56.82	1,231.10	4,524.66	1,772.79	1,689.86	82.93	21.376		
8,650.00	7,719.39	7,742.72	7,624.85	68.03	32.05	-62.86	1,231.00	4,524.83	1,748.59	1,666.32	82.28	21.252		
8,700.00	7,749.79	7,770.72	7,652.85	67.97	32.12	-68.28	1,230.89	4,525.03	1,725.42	1,643.92	81.50	21.170		
8,750.00	7,777.17	7,796.04	7,678.16	67.87	32.19	-73.08	1,230.77	4,525.25	1,703.64	1,623.02	80.62	21.131 SF		
8,800.00	7,801.32	7,821.36	7,703.48	67.74	32.26	-77.34	1,230.64	4,525.47	1,683.59	1,603.94	79.64	21.139		
8,850.00	7,822.06	7,843.38	7,725.51	67.59	32.32	-80.98	1,230.53	4,525.65	1,665.60	1,587.02	78.58	21.195		
8,900.00	7,839.23	7,861.68	7,743.80	67.41	32.37	-83.98	1,230.43	4,525.79	1,650.03	1,572.57	77.46	21.303		
8,950.00	7,852.69	7,876.10	7,758.22	67.22	32.41	-86.34	1,230.35	4,525.89	1,637.18	1,560.89	76.28	21.462		
9,000.00	7,862.35	7,886.54	7,768.66	67.00	32.44	-88.07	1,230.29	4,525.97	1,627.31	1,552.22	75.09	21.671		
9,050.00	7,868.14	7,892.91	7,775.03	66.78	32.46	-89.16	1,230.25	4,526.01	1,620.64	1,546.73	73.91	21.928		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,098.65	7,870.00	7,895.16	7,777.28	66.55	32.46	-89.62	1,230.24	4,526.02	1,617.33	1,544.54	72.79	22.219		
9,100.00	7,870.00	7,895.17	7,777.29	66.55	32.46	-89.62	1,230.24	4,526.02	1,617.29	1,544.53	72.76	22.228 ES		
9,155.27	7,870.00	7,895.51	7,777.63	66.29	32.46	-89.63	1,230.23	4,526.02	1,616.34	1,544.77	71.57	22.583 CC		
9,200.00	7,870.00	7,895.78	7,777.90	66.09	32.46	-89.64	1,230.23	4,526.03	1,616.96	1,546.29	70.67	22.879		
9,300.00	7,870.00	7,896.39	7,778.51	65.65	32.47	-89.66	1,230.23	4,526.03	1,622.81	1,553.83	68.98	23.527		
9,400.00	7,870.00	7,897.00	7,779.12	65.24	32.47	-89.69	1,230.23	4,526.03	1,634.76	1,567.02	67.75	24.130		
9,500.00	7,870.00	7,897.61	7,779.73	64.85	32.47	-89.71	1,230.22	4,526.04	1,652.69	1,585.64	67.05	24.649		
9,600.00	7,870.00	7,898.23	7,780.35	64.48	32.47	-89.73	1,230.22	4,526.04	1,676.41	1,609.51	66.90	25.058		
9,700.00	7,870.00	7,898.84	7,780.96	64.13	32.47	-89.75	1,230.22	4,526.05	1,705.66	1,638.39	67.28	25.353		
9,800.00	7,870.00	7,899.46	7,781.57	63.80	32.47	-89.77	1,230.21	4,526.05	1,740.18	1,672.07	68.11	25.548		
9,900.00	7,870.00	7,900.07	7,782.19	63.50	32.48	-89.79	1,230.21	4,526.05	1,779.66	1,710.33	69.32	25.672		
10,000.00	7,870.00	7,900.69	7,782.81	63.22	32.48	-89.82	1,230.20	4,526.06	1,823.76	1,752.95	70.81	25.755		
10,100.00	7,870.00	7,901.31	7,783.43	62.96	32.48	-89.84	1,230.20	4,526.06	1,872.18	1,799.69	72.49	25.828		
10,200.00	7,870.00	7,901.93	7,784.05	62.72	32.48	-89.86	1,230.20	4,526.06	1,924.58	1,850.31	74.27	25.913		
10,300.00	7,870.00	7,902.55	7,784.67	62.50	32.48	-89.88	1,230.19	4,526.07	1,980.64	1,904.54	76.10	26.027		
10,400.00	7,870.00	7,903.17	7,785.29	62.31	32.48	-89.90	1,230.19	4,526.07	2,040.07	1,962.14	77.93	26.179		
10,500.00	7,870.00	7,903.24	7,785.36	62.15	32.49	-89.91	1,230.19	4,526.08	2,102.57	2,022.85	79.72	26.374		
10,600.00	7,870.00	7,903.87	7,785.99	62.01	32.49	-89.93	1,230.18	4,526.08	2,167.89	2,086.44	81.45	26.615		
10,700.00	7,870.00	7,904.50	7,786.62	61.90	32.49	-89.95	1,230.18	4,526.09	2,235.77	2,152.66	83.11	26.901		
10,800.00	7,870.00	7,905.14	7,787.26	61.82	32.49	-89.97	1,230.18	4,526.09	2,306.00	2,221.31	84.69	27.230		
10,900.00	7,870.00	7,905.78	7,787.90	61.78	32.49	-90.00	1,230.17	4,526.09	2,378.35	2,292.18	86.17	27.599		
11,000.00	7,870.00	7,906.43	7,788.55	61.77	32.49	-90.02	1,230.17	4,526.10	2,452.65	2,365.08	87.57	28.006		
11,100.00	7,870.00	7,907.08	7,789.20	61.81	32.50	-90.04	1,230.16	4,526.10	2,528.72	2,439.83	88.89	28.448		
11,200.00	7,870.00	7,907.74	7,789.85	61.90	32.50	-90.07	1,230.16	4,526.11	2,606.41	2,516.29	90.12	28.922		
11,300.00	7,870.00	7,908.40	7,790.52	62.03	32.50	-90.09	1,230.16	4,526.11	2,685.57	2,594.30	91.27	29.424		
11,400.00	7,870.00	7,909.06	7,791.18	62.23	32.50	-90.11	1,230.15	4,526.12	2,766.08	2,673.74	92.35	29.953		
11,500.00	7,870.00	7,909.73	7,791.85	62.50	32.50	-90.14	1,230.15	4,526.12	2,847.83	2,754.48	93.35	30.506		
11,600.00	7,870.00	7,910.41	7,792.53	62.84	32.51	-90.16	1,230.14	4,526.13	2,930.71	2,836.42	94.29	31.081		
11,700.00	7,870.00	7,911.09	7,793.21	63.25	32.51	-90.18	1,230.14	4,526.13	3,014.63	2,919.46	95.17	31.675		
11,800.00	7,870.00	7,911.77	7,793.89	63.76	32.51	-90.21	1,230.13	4,526.13	3,099.51	3,003.51	96.00	32.288		
11,900.00	7,870.00	7,912.46	7,794.58	64.34	32.51	-90.23	1,230.13	4,526.14	3,185.26	3,088.49	96.76	32.917		
12,000.00	7,870.00	7,913.15	7,795.27	65.01	32.51	-90.26	1,230.12	4,526.14	3,271.82	3,174.33	97.49	33.562		
12,100.00	7,870.00	7,913.85	7,795.97	65.77	32.51	-90.28	1,230.12	4,526.15	3,359.12	3,260.96	98.16	34.220		
12,200.00	7,870.00	7,914.56	7,796.68	66.61	32.52	-90.31	1,230.12	4,526.15	3,447.12	3,348.32	98.80	34.891		
12,300.00	7,870.00	7,915.27	7,797.39	67.51	32.52	-90.33	1,230.11	4,526.16	3,535.75	3,436.36	99.39	35.574		
12,400.00	7,870.00	7,915.98	7,798.10	68.49	32.52	-90.36	1,230.11	4,526.16	3,624.98	3,525.03	99.95	36.267		
12,500.00	7,870.00	7,916.70	7,798.82	69.52	32.52	-90.38	1,230.10	4,526.17	3,714.75	3,614.27	100.48	36.970		
12,600.00	7,870.00	7,917.43	7,799.55	70.61	32.52	-90.41	1,230.10	4,526.17	3,805.04	3,704.06	100.98	37.682		
12,700.00	7,870.00	7,918.16	7,800.28	71.75	32.53	-90.44	1,230.09	4,526.18	3,895.80	3,794.35	101.45	38.402		
12,800.00	7,870.00	7,918.90	7,801.01	72.93	32.53	-90.46	1,230.09	4,526.18	3,987.00	3,885.11	101.89	39.130		
12,900.00	7,870.00	7,919.64	7,801.76	74.14	32.53	-90.49	1,230.08	4,526.19	4,078.61	3,976.30	102.31	39.865		
13,000.00	7,870.00	7,920.38	7,802.50	75.39	32.53	-90.51	1,230.08	4,526.20	4,170.61	4,067.90	102.71	40.606		
13,100.00	7,870.00	7,921.14	7,803.26	76.67	32.53	-90.54	1,230.07	4,526.20	4,262.97	4,159.88	103.09	41.354		
13,200.00	7,870.00	7,921.90	7,804.01	77.98	32.54	-90.57	1,230.07	4,526.21	4,355.66	4,252.22	103.44	42.107		
13,300.00	7,870.00	7,922.66	7,804.78	79.31	32.54	-90.59	1,230.06	4,526.21	4,448.68	4,344.89	103.78	42.865		
13,400.00	7,870.00	7,923.43	7,805.55	80.67	32.54	-90.62	1,230.06	4,526.22	4,541.99	4,437.88	104.11	43.629		
13,500.00	7,870.00	7,924.21	7,806.32	82.04	32.54	-90.65	1,230.05	4,526.22	4,635.57	4,531.16	104.41	44.396		
13,600.00	7,870.00	7,924.99	7,807.11	83.43	32.55	-90.68	1,230.04	4,526.23	4,729.42	4,624.72	104.71	45.168		
13,700.00	7,870.00	7,925.77	7,807.89	84.84	32.55	-90.71	1,230.04	4,526.23	4,823.52	4,718.54	104.99	45.944		
13,800.00	7,870.00	7,926.57	7,808.69	86.27	32.55	-90.73	1,230.03	4,526.24	4,917.85	4,812.60	105.25	46.723		
13,900.00	7,870.00	7,927.37	7,809.49	87.71	32.55	-90.76	1,230.03	4,526.25	5,012.40	4,906.89	105.51	47.506		
14,000.00	7,870.00	7,928.17	7,810.29	89.16	32.55	-90.79	1,230.02	4,526.25	5,107.16	5,001.40	105.76	48.292		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,928.99	7,811.10	90.63	32.56	-90.82	1,230.02	4,526.26	5,202.11	5,096.12	105.99	49.081		
14,200.00	7,870.00	7,929.81	7,811.92	92.10	32.56	-90.85	1,230.01	4,526.26	5,297.25	5,191.04	106.22	49.873		
14,300.00	7,870.00	7,930.63	7,812.75	93.59	32.56	-90.88	1,230.00	4,526.27	5,392.57	5,286.14	106.43	50.667		
14,400.00	7,870.00	7,931.46	7,813.58	95.09	32.56	-90.91	1,230.00	4,526.27	5,488.05	5,381.41	106.64	51.464		
14,500.00	7,870.00	7,932.30	7,814.42	96.60	32.57	-90.94	1,229.99	4,526.28	5,583.69	5,476.85	106.84	52.263		
14,600.00	7,870.00	7,933.15	7,815.26	98.11	32.57	-90.97	1,229.99	4,526.29	5,679.48	5,572.45	107.03	53.064		
14,700.00	7,870.00	7,934.00	7,816.11	99.64	32.57	-91.00	1,229.98	4,526.29	5,775.41	5,668.20	107.22	53.867		
14,800.00	7,870.00	7,934.86	7,816.97	101.17	32.57	-91.03	1,229.97	4,526.30	5,871.48	5,764.09	107.40	54.672		
14,900.00	7,870.00	7,935.72	7,817.84	102.71	32.57	-91.06	1,229.97	4,526.31	5,967.68	5,860.11	107.57	55.478		
15,000.00	7,870.00	7,936.59	7,818.71	104.26	32.58	-91.09	1,229.96	4,526.31	6,064.00	5,956.26	107.73	56.286		
15,100.00	7,870.00	7,937.47	7,819.59	105.82	32.58	-91.12	1,229.96	4,526.32	6,160.44	6,052.54	107.90	57.096		
15,200.00	7,870.00	7,938.36	7,820.48	107.38	32.58	-91.15	1,229.95	4,526.33	6,256.98	6,148.93	108.05	57.907		
15,300.00	7,870.00	7,939.25	7,821.37	108.95	32.58	-91.18	1,229.94	4,526.33	6,353.64	6,245.44	108.20	58.719		
15,400.00	7,870.00	7,940.15	7,822.27	110.52	32.59	-91.21	1,229.94	4,526.34	6,450.40	6,342.05	108.35	59.533		
15,500.00	7,870.00	7,941.06	7,823.18	112.10	32.59	-91.25	1,229.93	4,526.35	6,547.25	6,438.76	108.49	60.348		
15,600.00	7,870.00	7,941.98	7,824.10	113.69	32.59	-91.28	1,229.92	4,526.35	6,644.20	6,535.57	108.63	61.163		
15,700.00	7,870.00	7,942.90	7,825.02	115.28	32.59	-91.31	1,229.91	4,526.36	6,741.24	6,632.47	108.76	61.980		
15,800.00	7,870.00	7,943.83	7,825.95	116.87	32.60	-91.34	1,229.91	4,526.37	6,838.36	6,729.47	108.90	62.798		
15,900.00	7,870.00	7,944.77	7,826.89	118.47	32.60	-91.38	1,229.90	4,526.37	6,935.56	6,826.54	109.02	63.616		
16,000.00	7,870.00	7,945.72	7,827.84	120.07	32.60	-91.41	1,229.89	4,526.38	7,032.85	6,923.70	109.15	64.435		
16,100.00	7,870.00	7,946.68	7,828.79	121.68	32.60	-91.45	1,229.89	4,526.39	7,130.20	7,020.94	109.27	65.255		
16,200.00	7,870.00	7,947.64	7,829.76	123.30	32.61	-91.48	1,229.88	4,526.40	7,227.63	7,118.25	109.38	66.076		
16,300.00	7,870.00	7,948.61	7,830.73	124.91	32.61	-91.51	1,229.87	4,526.40	7,325.13	7,215.63	109.50	66.897		
16,400.00	7,870.00	7,949.59	7,831.71	126.53	32.61	-91.55	1,229.86	4,526.41	7,422.70	7,313.09	109.61	67.719		
16,500.00	7,870.00	7,950.58	7,832.69	128.16	32.62	-91.58	1,229.86	4,526.42	7,520.33	7,410.61	109.72	68.541		
16,600.00	7,870.00	7,951.57	7,833.69	129.79	32.62	-91.62	1,229.85	4,526.43	7,618.02	7,508.19	109.83	69.364		
16,700.00	7,870.00	7,952.58	7,834.70	131.42	32.62	-91.65	1,229.84	4,526.43	7,715.77	7,605.83	109.93	70.187		
16,800.00	7,870.00	7,953.59	7,835.71	133.05	32.62	-91.69	1,229.83	4,526.44	7,813.57	7,703.54	110.03	71.010		
16,900.00	7,870.00	7,954.62	7,836.73	134.69	32.63	-91.73	1,229.82	4,526.45	7,911.43	7,801.30	110.13	71.834		
17,000.00	7,870.00	7,955.65	7,837.77	136.33	32.63	-91.76	1,229.82	4,526.46	8,009.35	7,899.11	110.23	72.658		
17,100.00	7,870.00	7,956.69	7,838.81	137.97	32.63	-91.80	1,229.81	4,526.46	8,107.31	7,996.98	110.33	73.483		
17,200.00	7,870.00	7,957.74	7,839.86	139.62	32.64	-91.84	1,229.80	4,526.47	8,205.33	8,094.90	110.42	74.307		
17,300.00	7,870.00	7,958.80	7,840.92	141.27	32.64	-91.87	1,229.79	4,526.48	8,303.39	8,192.87	110.52	75.132		
17,400.00	7,870.00	7,959.87	7,841.99	142.92	32.64	-91.91	1,229.78	4,526.49	8,401.49	8,290.88	110.61	75.957		
17,500.00	7,870.00	7,960.95	7,843.06	144.58	32.64	-91.95	1,229.77	4,526.50	8,499.64	8,388.94	110.70	76.781		
17,600.00	7,870.00	7,962.04	7,844.15	146.23	32.65	-91.99	1,229.76	4,526.51	8,597.84	8,487.05	110.79	77.606		
17,700.00	7,870.00	7,963.13	7,845.25	147.89	32.65	-92.03	1,229.76	4,526.52	8,696.07	8,585.20	110.87	78.431		
17,800.00	7,870.00	7,964.24	7,846.36	149.56	32.65	-92.07	1,229.75	4,526.52	8,794.34	8,683.38	110.96	79.257		
17,900.00	7,870.00	7,965.36	7,847.48	151.22	32.66	-92.11	1,229.74	4,526.53	8,892.66	8,781.61	111.04	80.082		
18,000.00	7,870.00	7,966.49	7,848.61	152.89	32.66	-92.15	1,229.73	4,526.54	8,991.01	8,879.88	111.13	80.907		
18,100.00	7,870.00	7,967.63	7,849.74	154.55	32.66	-92.19	1,229.72	4,526.55	9,089.39	8,978.18	111.21	81.731		
18,200.00	7,870.00	7,968.78	7,850.89	156.22	32.67	-92.23	1,229.71	4,526.56	9,187.81	9,076.52	111.29	82.556		
18,300.00	7,870.00	7,969.94	7,852.05	157.90	32.67	-92.27	1,229.70	4,526.57	9,286.27	9,174.89	111.37	83.381		
18,400.00	7,870.00	7,971.11	7,853.22	159.57	32.67	-92.31	1,229.69	4,526.58	9,384.75	9,273.30	111.45	84.206		
18,500.00	7,870.00	7,972.29	7,854.41	161.25	32.68	-92.35	1,229.68	4,526.59	9,483.27	9,371.74	111.53	85.030		
18,600.00	7,870.00	7,973.48	7,855.60	162.93	32.68	-92.39	1,229.67	4,526.60	9,581.82	9,470.21	111.61	85.854		
18,700.00	7,870.00	7,974.69	7,856.80	164.60	32.68	-92.44	1,229.66	4,526.61	9,680.40	9,568.71	111.68	86.678		
18,797.52	7,870.00	7,975.88	7,857.99	166.24	32.69	-92.48	1,229.65	4,526.62	9,776.55	9,664.80	111.76	87.482		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	82.10	750.66	5,412.85	5,465.27					
100.00	100.00	34.51	34.51	0.13	0.05	82.10	750.65	5,412.80	5,464.62	5,464.44	0.19	N/A		
200.00	200.00	156.06	156.06	0.49	0.39	82.11	750.48	5,412.06	5,463.97	5,463.09	0.89	6,154.887		
300.00	300.00	247.29	247.29	0.85	0.72	82.10	750.46	5,411.48	5,463.35	5,461.77	1.57	3,473.704		
400.00	400.00	353.46	353.46	1.21	1.10	82.10	750.57	5,410.85	5,462.78	5,460.46	2.31	2,363.636		
492.87	492.87	410.88	410.87	1.54	1.30	82.11	750.08	5,410.74	5,462.48	5,459.64	2.84	1,920.990		
500.00	500.00	415.33	415.32	1.57	1.32	82.11	750.00	5,410.75	5,462.48	5,459.60	2.88	1,893.638		
600.00	600.00	480.07	480.03	1.93	1.54	82.13	748.00	5,411.28	5,462.86	5,459.39	3.47	1,575.446		
700.00	700.00	534.00	533.87	2.29	1.73	82.16	745.21	5,412.18	5,463.89	5,459.88	4.01	1,361.831		
800.00	800.00	590.39	590.10	2.64	1.93	82.20	741.20	5,413.73	5,465.73	5,461.16	4.57	1,195.573		
900.00	900.00	647.64	647.06	3.00	2.14	82.26	735.96	5,416.08	5,468.53	5,463.39	5.14	1,064.356		
1,000.00	1,000.00	716.00	714.86	3.36	2.39	82.35	727.89	5,419.40	5,471.83	5,466.08	5.75	951.391		
1,100.00	1,099.98	763.89	762.18	3.72	2.58	27.78	721.12	5,422.22	5,474.40	5,468.11	6.29	869.769		
1,200.00	1,199.84	809.00	806.60	4.07	2.77	27.87	714.01	5,425.54	5,475.00	5,468.18	6.82	802.379		
1,300.00	1,299.45	854.20	850.98	4.43	2.96	27.99	706.34	5,429.36	5,473.54	5,466.17	7.37	743.128		
1,400.00	1,398.70	902.00	897.80	4.80	3.17	28.14	697.78	5,433.81	5,469.91	5,461.99	7.92	690.532		
1,500.00	1,497.47	964.06	958.43	5.18	3.45	28.37	686.13	5,440.13	5,464.06	5,455.50	8.56	638.568		
1,600.00	1,595.62	1,023.74	1,016.56	5.57	3.73	28.64	674.35	5,446.70	5,455.94	5,446.75	9.19	593.424		
1,700.00	1,693.06	1,090.56	1,081.33	6.00	4.06	28.97	659.90	5,454.58	5,445.53	5,435.65	9.88	550.906		
1,800.00	1,789.64	1,218.40	1,205.04	6.45	4.71	29.59	631.48	5,469.68	5,432.31	5,421.41	10.90	498.153		
1,900.00	1,885.27	1,288.48	1,273.17	6.94	5.07	30.02	617.06	5,477.58	5,415.96	5,404.32	11.65	465.081		
2,000.00	1,979.82	1,340.61	1,323.78	7.47	5.34	30.42	606.28	5,483.85	5,397.53	5,385.22	12.31	438.538		
2,100.00	2,073.17	1,426.21	1,406.67	8.05	5.80	31.01	587.75	5,494.54	5,376.76	5,363.59	13.17	408.253		
2,200.00	2,165.21	1,497.80	1,475.70	8.67	6.19	31.60	571.14	5,503.67	5,353.54	5,339.55	13.99	382.602		
2,300.00	2,255.84	1,593.44	1,567.65	9.35	6.73	32.38	547.93	5,516.08	5,327.94	5,312.97	14.98	355.734		
2,400.00	2,344.94	1,725.12	1,694.65	10.09	7.47	33.40	517.19	5,532.32	5,299.39	5,283.20	16.18	327.463		
2,500.00	2,432.39	1,775.44	1,743.32	10.89	7.75	34.04	506.00	5,538.49	5,268.35	5,251.38	16.96	310.545		
2,519.29	2,449.07	1,786.40	1,753.92	11.05	7.81	34.18	503.58	5,539.86	5,262.13	5,245.01	17.13	307.226		
2,600.00	2,518.69	1,852.12	1,817.50	11.74	8.18	34.56	489.13	5,548.15	5,236.19	5,218.27	17.92	292.267		
2,700.00	2,604.95	1,975.48	1,936.98	12.62	8.85	35.26	462.44	5,563.22	5,204.13	5,185.00	19.13	272.008		
2,800.00	2,691.22	2,049.65	2,008.99	13.52	9.26	35.69	446.88	5,571.92	5,172.07	5,151.97	20.10	257.267		
2,900.00	2,777.48	2,139.15	2,095.62	14.43	9.75	36.22	427.15	5,582.62	5,140.64	5,119.45	21.18	242.668		
3,000.00	2,863.75	2,255.51	2,207.96	15.35	10.41	36.93	399.88	5,595.87	5,109.19	5,086.74	22.44	227.654		
3,100.00	2,950.01	2,365.31	2,314.09	16.28	11.03	37.61	374.36	5,607.71	5,077.73	5,054.05	23.68	214.427		
3,200.00	3,036.27	2,490.03	2,435.42	17.22	11.70	38.36	348.39	5,620.25	5,046.03	5,021.05	24.98	201.973		
3,300.00	3,122.54	2,554.00	2,497.69	18.17	12.04	38.74	335.11	5,626.49	5,014.61	4,988.63	25.98	193.012		
3,400.00	3,208.80	2,597.62	2,540.07	19.13	12.28	39.01	325.78	5,630.98	4,984.15	4,957.26	26.89	185.348		
3,500.00	3,295.07	2,648.00	2,588.90	20.09	12.55	39.33	314.82	5,636.73	4,954.97	4,927.12	27.85	177.923		
3,600.00	3,381.33	2,796.83	2,733.24	21.05	13.37	40.27	282.26	5,652.69	4,925.80	4,896.44	29.36	167.780		
3,700.00	3,467.59	2,872.27	2,806.39	22.02	13.79	40.75	265.43	5,660.27	4,896.63	4,866.14	30.49	160.615		
3,800.00	3,553.86	2,942.05	2,873.89	22.99	14.18	41.21	249.22	5,667.40	4,868.19	4,836.59	31.60	154.055		
3,900.00	3,640.12	3,034.71	2,963.59	23.97	14.70	41.82	228.02	5,676.87	4,840.28	4,807.42	32.86	147.322		
4,000.00	3,726.38	3,072.79	3,000.43	24.95	14.92	42.07	219.30	5,680.94	4,813.23	4,779.42	33.81	142.346		
4,100.00	3,812.65	3,119.16	3,045.22	25.93	15.18	42.39	208.50	5,686.19	4,787.36	4,752.54	34.83	137.461		
4,200.00	3,898.91	3,195.11	3,118.59	26.91	15.61	42.89	191.02	5,695.12	4,762.39	4,726.37	36.02	132.215		
4,300.00	3,985.18	3,333.50	3,252.79	27.90	16.38	43.81	161.18	5,710.90	4,737.52	4,699.96	37.56	126.119		
4,400.00	4,071.44	3,420.14	3,336.76	28.88	16.86	44.40	141.89	5,720.10	4,712.67	4,673.84	38.83	121.361		
4,500.00	4,157.70	3,491.71	3,406.01	29.87	17.26	44.89	125.50	5,727.69	4,688.49	4,648.46	40.03	117.119		
4,600.00	4,243.97	3,541.07	3,453.73	30.86	17.54	45.23	114.12	5,733.14	4,665.29	4,624.18	41.11	113.477		
4,700.00	4,330.23	3,605.08	3,515.56	31.85	17.90	45.68	99.38	5,740.65	4,643.23	4,600.95	42.28	109.814		
4,800.00	4,416.49	3,738.98	3,645.66	32.84	18.63	46.58	71.73	5,756.14	4,621.23	4,577.39	43.84	105.410		
4,900.00	4,502.76	3,827.11	3,731.64	33.84	19.10	47.16	55.25	5,766.20	4,599.38	4,554.25	45.13	101.910		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	3,900.95	3,803.60	34.83	19.49	47.66	40.95	5,774.57	4,578.16	4,531.81	46.36	98.760		
5,100.00	4,675.29	3,960.00	3,861.11	35.82	19.80	48.06	29.40	5,781.40	4,557.79	4,510.28	47.51	95.934		
5,200.00	4,761.55	4,019.76	3,919.25	36.82	20.12	48.47	17.67	5,788.62	4,538.43	4,489.76	48.67	93.245		
5,300.00	4,847.81	4,094.26	3,991.68	37.82	20.52	48.98	3.02	5,798.11	4,520.17	4,470.25	49.92	90.540		
5,400.00	4,934.08	4,183.33	4,078.29	38.81	21.00	49.59	-14.58	5,809.20	4,502.31	4,451.04	51.27	87.819		
5,500.00	5,020.34	5,500.00	4,195.11	39.81	27.83	50.41	-36.79	5,824.21	4,484.87	4,426.71	58.16	77.112		
5,600.00	5,106.60	4,472.94	4,361.48	40.81	22.48	51.54	-64.61	5,843.13	4,465.90	4,411.37	54.53	81.891		
5,700.00	5,192.87	4,555.07	4,441.74	41.81	22.89	52.11	-79.83	5,851.54	4,447.75	4,391.90	55.85	79.637		
5,800.00	5,279.13	4,838.71	4,720.10	42.81	24.27	54.11	-129.25	5,873.87	4,427.68	4,369.47	58.21	76.062		
5,900.00	5,365.40	5,399.59	5,277.74	43.81	26.35	57.76	-179.45	5,894.29	4,406.61	4,345.54	61.07	72.161		
6,000.00	5,451.66	5,494.56	5,372.61	44.81	26.61	58.37	-183.37	5,893.15	4,377.17	4,314.85	62.32	70.239		
6,100.00	5,537.92	5,606.25	5,484.29	45.81	26.89	59.04	-183.84	5,892.37	4,347.47	4,283.91	63.56	68.401		
6,200.00	5,624.19	5,714.36	5,592.40	46.81	27.13	59.69	-183.23	5,891.67	4,317.99	4,253.22	64.78	66.658		
6,300.00	5,710.45	5,808.42	5,686.46	47.81	27.34	60.26	-182.50	5,890.61	4,288.43	4,222.44	65.99	64.984		
6,400.00	5,796.72	5,889.90	5,767.92	48.81	27.53	60.76	-181.96	5,889.66	4,259.30	4,192.09	67.21	63.378		
6,500.00	5,882.98	5,973.69	5,851.71	49.81	27.73	61.29	-181.76	5,888.66	4,230.68	4,162.24	68.44	61.819		
6,600.00	5,969.24	6,079.02	5,957.02	50.82	27.98	61.95	-181.37	5,887.29	4,202.39	4,132.69	69.71	60.287		
6,700.00	6,055.51	6,174.96	6,052.95	51.82	28.21	62.57	-180.75	5,885.62	4,174.06	4,103.09	70.97	58.813		
6,800.00	6,141.77	6,265.20	6,143.18	52.82	28.42	63.15	-179.85	5,884.10	4,146.13	4,073.89	72.24	57.397		
6,900.00	6,228.03	6,347.48	6,225.43	53.83	28.61	63.68	-178.93	5,882.69	4,118.57	4,045.07	73.50	56.034		
7,000.00	6,314.30	6,411.01	6,288.96	54.83	28.77	64.09	-178.10	5,881.83	4,091.70	4,016.95	74.75	54.736		
7,100.00	6,400.56	6,456.01	6,333.95	55.83	28.88	64.39	-177.67	5,881.59	4,066.05	3,990.06	75.99	53.508		
7,200.00	6,486.83	6,513.85	6,391.79	56.84	29.03	64.77	-177.40	5,881.81	4,041.70	3,964.45	77.25	52.319		
7,300.00	6,573.09	6,601.37	6,479.31	57.84	29.27	65.35	-177.42	5,882.12	4,018.05	3,939.47	78.58	51.134		
7,400.00	6,659.35	6,703.20	6,581.14	58.84	29.56	66.05	-177.71	5,882.13	3,994.75	3,914.80	79.95	49.967		
7,500.00	6,745.62	6,800.77	6,673.71	59.85	29.82	66.72	-177.90	5,881.63	3,971.50	3,890.18	81.31	48.842		
7,600.00	6,831.88	6,873.28	6,751.21	60.85	30.02	67.22	-177.97	5,881.42	3,948.91	3,866.27	82.64	47.783		
7,700.00	6,918.14	6,943.68	6,821.62	61.86	30.22	67.72	-178.16	5,881.45	3,927.17	3,843.19	83.98	46.765		
7,800.00	7,004.41	7,028.58	6,906.52	62.86	30.46	68.31	-178.56	5,881.63	3,906.19	3,820.84	85.35	45.767		
7,900.00	7,090.67	7,125.35	7,003.28	63.87	30.75	69.00	-179.04	5,881.69	3,885.64	3,798.89	86.75	44.790		
8,000.00	7,176.94	7,205.95	7,083.88	64.87	30.98	69.59	-179.47	5,881.58	3,865.54	3,777.41	88.13	43.861		
8,027.52	7,200.68	7,227.03	7,104.96	65.15	31.04	69.74	-179.61	5,881.58	3,860.15	3,771.63	88.51	43.612		
8,050.00	7,220.18	7,246.82	7,124.76	65.37	31.10	66.11	-179.75	5,881.58	3,855.51	3,766.69	88.82	43.409		
8,100.00	7,264.25	7,297.55	7,175.48	65.85	31.25	56.93	-180.09	5,881.52	3,843.36	3,753.89	89.47	42.955		
8,150.00	7,308.99	7,345.55	7,223.48	66.28	31.39	46.29	-180.40	5,881.39	3,828.69	3,738.63	90.06	42.514		
8,200.00	7,354.07	7,388.42	7,266.35	66.67	31.52	34.64	-180.71	5,881.25	3,811.65	3,721.09	90.56	42.090		
8,250.00	7,399.14	7,431.31	7,309.23	67.02	31.64	22.72	-181.08	5,881.11	3,792.34	3,701.36	90.99	41.681		
8,300.00	7,443.85	7,473.90	7,351.83	67.32	31.77	11.19	-181.50	5,880.96	3,770.89	3,679.56	91.33	41.288		
8,350.00	7,487.88	7,515.90	7,393.82	67.56	31.89	0.49	-181.96	5,880.81	3,747.44	3,655.85	91.60	40.912		
8,400.00	7,530.87	7,551.35	7,429.27	67.75	32.00	-9.24	-182.42	5,880.69	3,722.19	3,630.42	91.77	40.559		
8,450.00	7,572.51	7,585.82	7,463.73	67.90	32.10	-18.05	-182.97	5,880.60	3,695.37	3,603.50	91.87	40.226		
8,500.00	7,612.48	7,622.53	7,500.44	68.00	32.22	-26.15	-183.64	5,880.52	3,667.17	3,575.28	91.89	39.909		
8,550.00	7,650.47	7,665.00	7,542.90	68.05	32.35	-33.74	-184.29	5,880.49	3,637.75	3,545.91	91.84	39.608		
8,600.00	7,686.20	7,704.79	7,582.69	68.06	32.47	-40.92	-184.71	5,880.53	3,607.36	3,515.64	91.72	39.330		
8,650.00	7,719.39	7,735.00	7,612.90	68.03	32.56	-47.70	-184.98	5,880.59	3,576.31	3,484.80	91.50	39.083		
8,700.00	7,749.79	7,762.89	7,640.79	67.97	32.65	-54.14	-185.23	5,880.68	3,544.93	3,453.71	91.22	38.863		
8,750.00	7,777.17	7,788.10	7,666.00	67.87	32.72	-60.23	-185.46	5,880.77	3,513.52	3,422.66	90.86	38.670		
8,800.00	7,801.32	7,814.60	7,692.50	67.74	32.80	-65.99	-185.71	5,880.88	3,482.38	3,391.93	90.44	38.504		
8,850.00	7,822.06	7,840.20	7,718.09	67.59	32.88	-71.36	-185.92	5,880.96	3,451.79	3,361.82	89.97	38.368		
8,900.00	7,839.23	7,861.34	7,739.24	67.41	32.95	-76.22	-186.06	5,881.02	3,422.08	3,332.64	89.43	38.265		
8,950.00	7,852.69	7,877.92	7,755.81	67.22	33.00	-80.52	-186.16	5,881.06	3,393.56	3,304.72	88.84	38.197		
9,000.00	7,862.35	7,889.84	7,767.73	67.00	33.03	-84.23	-186.23	5,881.08	3,366.55	3,278.34	88.21	38.165		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,897.05	7,774.95	66.78	33.06	-87.34	-186.26	5,881.09	3,341.34	3,253.80	87.54	38.169		
9,098.65	7,870.00	7,899.55	7,777.44	66.55	33.06	-89.80	-186.27	5,881.09	3,318.77	3,231.91	86.86	38.209		
9,100.00	7,870.00	7,899.55	7,777.45	66.55	33.06	-89.80	-186.27	5,881.09	3,318.17	3,231.33	86.84	38.211		
9,200.00	7,870.00	7,900.10	7,777.99	66.09	33.07	-89.81	-186.28	5,881.09	3,275.18	3,189.77	85.41	38.345		
9,300.00	7,870.00	7,900.64	7,778.53	65.65	33.07	-89.82	-186.28	5,881.09	3,234.71	3,150.72	84.00	38.510		
9,400.00	7,870.00	7,901.17	7,779.06	65.24	33.07	-89.83	-186.28	5,881.09	3,196.86	3,114.26	82.60	38.701		
9,500.00	7,870.00	7,901.69	7,779.59	64.85	33.07	-89.84	-186.28	5,881.09	3,161.72	3,080.48	81.25	38.915		
9,600.00	7,870.00	7,902.21	7,780.10	64.48	33.07	-89.85	-186.29	5,881.09	3,129.38	3,049.44	79.95	39.144		
9,700.00	7,870.00	7,902.72	7,780.62	64.13	33.07	-89.86	-186.29	5,881.10	3,099.94	3,021.22	78.72	39.380		
9,800.00	7,870.00	7,903.23	7,781.13	63.80	33.07	-89.87	-186.29	5,881.10	3,073.46	2,995.87	77.59	39.612		
9,900.00	7,870.00	7,903.73	7,781.63	63.50	33.08	-89.88	-186.29	5,881.10	3,050.04	2,973.46	76.58	39.828		
10,000.00	7,870.00	7,904.23	7,782.12	63.22	33.08	-89.89	-186.30	5,881.10	3,029.73	2,954.02	75.71	40.015		
10,100.00	7,870.00	7,904.72	7,782.61	62.96	33.08	-89.90	-186.30	5,881.10	3,012.61	2,937.60	75.02	40.160		
10,200.00	7,870.00	7,905.21	7,783.10	62.72	33.08	-89.91	-186.30	5,881.10	2,998.73	2,924.23	74.51	40.248		
10,300.00	7,870.00	7,905.69	7,783.58	62.50	33.08	-89.91	-186.30	5,881.10	2,988.13	2,913.93	74.20	40.270		
10,400.00	7,870.00	7,906.16	7,784.06	62.31	33.08	-89.92	-186.30	5,881.10	2,980.86	2,906.74	74.12	40.216		
10,500.00	7,870.00	7,903.83	7,781.72	62.15	33.08	-89.88	-186.30	5,881.10	2,976.93	2,902.65	74.27	40.080		
10,567.22	7,870.00	7,904.17	7,782.06	62.05	33.08	-89.89	-186.30	5,881.10	2,976.17	2,901.66	74.51	39.944 CC, ES		
10,600.00	7,870.00	7,904.34	7,782.23	62.01	33.08	-89.89	-186.30	5,881.10	2,976.35	2,901.70	74.65	39.872		
10,700.00	7,870.00	7,904.85	7,782.74	61.90	33.08	-89.90	-186.31	5,881.10	2,979.13	2,903.88	75.25	39.592		
10,800.00	7,870.00	7,905.36	7,783.26	61.82	33.08	-89.91	-186.31	5,881.10	2,985.26	2,909.21	76.05	39.253		
10,900.00	7,870.00	7,905.88	7,783.78	61.78	33.08	-89.92	-186.31	5,881.11	2,994.72	2,917.67	77.05	38.867		
11,000.00	7,870.00	7,906.41	7,784.30	61.77	33.08	-89.93	-186.32	5,881.11	3,007.47	2,929.25	78.22	38.450		
11,100.00	7,870.00	7,906.94	7,784.83	61.81	33.09	-89.94	-186.32	5,881.11	3,023.48	2,943.95	79.53	38.016		
11,200.00	7,870.00	7,907.47	7,785.37	61.90	33.09	-89.95	-186.32	5,881.11	3,042.69	2,961.73	80.97	37.580		
11,300.00	7,870.00	7,908.01	7,785.91	62.03	33.09	-89.96	-186.33	5,881.11	3,065.05	2,982.56	82.50	37.154		
11,400.00	7,870.00	7,908.56	7,786.45	62.23	33.09	-89.97	-186.33	5,881.11	3,090.48	3,006.39	84.10	36.749		
11,500.00	7,870.00	7,909.10	7,787.00	62.50	33.09	-89.98	-186.33	5,881.11	3,118.92	3,033.17	85.75	36.372		
11,600.00	7,870.00	7,909.66	7,787.55	62.84	33.09	-89.99	-186.34	5,881.11	3,150.27	3,062.84	87.43	36.031		
11,700.00	7,870.00	7,910.21	7,788.11	63.25	33.10	-90.00	-186.34	5,881.11	3,184.45	3,095.32	89.13	35.729		
11,800.00	7,870.00	7,910.78	7,788.67	63.76	33.10	-90.01	-186.34	5,881.12	3,221.38	3,130.56	90.82	35.469		
11,900.00	7,870.00	7,911.34	7,789.24	64.34	33.10	-90.02	-186.34	5,881.12	3,260.96	3,168.45	92.50	35.252		
12,000.00	7,870.00	7,911.92	7,789.81	65.01	33.10	-90.03	-186.35	5,881.12	3,303.09	3,208.93	94.16	35.080		
12,100.00	7,870.00	7,912.49	7,790.39	65.77	33.10	-90.05	-186.35	5,881.12	3,347.67	3,251.89	95.78	34.952		
12,200.00	7,870.00	7,913.08	7,790.97	66.61	33.11	-90.06	-186.36	5,881.12	3,394.62	3,297.26	97.36	34.866		
12,300.00	7,870.00	7,913.66	7,791.56	67.51	33.11	-90.07	-186.36	5,881.12	3,443.84	3,344.94	98.90	34.822		
12,400.00	7,870.00	7,914.26	7,792.15	68.49	33.11	-90.08	-186.36	5,881.12	3,495.22	3,394.83	100.39	34.818 SF		
12,500.00	7,870.00	7,914.86	7,792.75	69.52	33.11	-90.09	-186.37	5,881.13	3,548.68	3,446.86	101.82	34.852		
12,600.00	7,870.00	7,915.46	7,793.35	70.61	33.11	-90.10	-186.37	5,881.13	3,604.12	3,500.91	103.20	34.923		
12,700.00	7,870.00	7,916.07	7,793.96	71.75	33.11	-90.11	-186.37	5,881.13	3,661.45	3,556.92	104.53	35.028		
12,800.00	7,870.00	7,916.68	7,794.58	72.93	33.12	-90.13	-186.38	5,881.13	3,720.58	3,614.78	105.80	35.166		
12,900.00	7,870.00	7,917.30	7,795.20	74.14	33.12	-90.14	-186.38	5,881.13	3,781.44	3,674.42	107.02	35.335		
13,000.00	7,870.00	7,917.93	7,795.82	75.39	33.12	-90.15	-186.39	5,881.13	3,843.93	3,735.75	108.18	35.532		
13,100.00	7,870.00	7,918.56	7,796.46	76.67	33.12	-90.16	-186.39	5,881.13	3,907.99	3,798.69	109.29	35.758		
13,200.00	7,870.00	7,919.20	7,797.10	77.98	33.12	-90.18	-186.39	5,881.14	3,973.52	3,863.17	110.35	36.008		
13,300.00	7,870.00	7,919.85	7,797.74	79.31	33.13	-90.19	-186.40	5,881.14	4,040.47	3,929.12	111.36	36.283		
13,400.00	7,870.00	7,920.50	7,798.39	80.67	33.13	-90.20	-186.40	5,881.14	4,108.77	3,996.45	112.32	36.581		
13,500.00	7,870.00	7,921.15	7,799.05	82.04	33.13	-90.21	-186.41	5,881.14	4,178.34	4,065.10	113.23	36.900		
13,600.00	7,870.00	7,921.82	7,799.71	83.43	33.13	-90.23	-186.41	5,881.14	4,249.12	4,135.02	114.10	37.239		
13,700.00	7,870.00	7,922.48	7,800.38	84.84	33.13	-90.24	-186.41	5,881.14	4,321.06	4,206.13	114.93	37.597		
13,800.00	7,870.00	7,923.16	7,801.05	86.27	33.14	-90.25	-186.42	5,881.15	4,394.10	4,278.38	115.72	37.973		
13,900.00	7,870.00	7,923.84	7,801.73	87.71	33.14	-90.26	-186.42	5,881.15	4,468.18	4,351.72	116.46	38.365		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,924.53	7,802.42	89.16	33.14	-90.28	-186.43	5,881.15	4,543.26	4,426.08	117.17	38.773		
14,100.00	7,870.00	7,925.23	7,803.12	90.63	33.14	-90.29	-186.43	5,881.15	4,619.28	4,501.42	117.85	39.196		
14,200.00	7,870.00	7,925.93	7,803.82	92.10	33.14	-90.30	-186.44	5,881.15	4,696.19	4,577.70	118.49	39.633		
14,300.00	7,870.00	7,926.64	7,804.53	93.59	33.15	-90.32	-186.44	5,881.16	4,773.97	4,654.86	119.10	40.082		
14,400.00	7,870.00	7,927.35	7,805.25	95.09	33.15	-90.33	-186.45	5,881.16	4,852.56	4,732.87	119.69	40.544		
14,500.00	7,870.00	7,928.08	7,805.97	96.60	33.15	-90.35	-186.45	5,881.16	4,931.92	4,811.68	120.24	41.018		
14,600.00	7,870.00	7,928.81	7,806.70	98.11	33.15	-90.36	-186.46	5,881.16	5,012.02	4,891.25	120.77	41.502		
14,700.00	7,870.00	7,929.54	7,807.44	99.64	33.16	-90.37	-186.46	5,881.16	5,092.83	4,971.56	121.27	41.997		
14,800.00	7,870.00	7,930.29	7,808.18	101.17	33.16	-90.39	-186.47	5,881.17	5,174.30	5,052.56	121.74	42.501		
14,900.00	7,870.00	7,931.04	7,808.93	102.71	33.16	-90.40	-186.47	5,881.17	5,256.42	5,134.22	122.20	43.015		
15,000.00	7,870.00	7,931.80	7,809.69	104.26	33.16	-90.42	-186.48	5,881.17	5,339.14	5,216.51	122.63	43.538		
15,100.00	7,870.00	7,932.57	7,810.46	105.82	33.16	-90.43	-186.48	5,881.17	5,422.45	5,299.40	123.05	44.068		
15,200.00	7,870.00	7,933.35	7,811.24	107.38	33.17	-90.45	-186.49	5,881.17	5,506.31	5,382.87	123.44	44.607		
15,300.00	7,870.00	7,934.13	7,812.02	108.95	33.17	-90.46	-186.49	5,881.18	5,590.71	5,466.89	123.82	45.153		
15,400.00	7,870.00	7,934.92	7,812.81	110.52	33.17	-90.48	-186.50	5,881.18	5,675.61	5,551.43	124.18	45.706		
15,500.00	7,870.00	7,935.72	7,813.62	112.10	33.17	-90.49	-186.50	5,881.18	5,760.99	5,636.47	124.52	46.266		
15,600.00	7,870.00	7,936.53	7,814.42	113.69	33.18	-90.51	-186.51	5,881.18	5,846.84	5,721.99	124.85	46.831		
15,700.00	7,870.00	7,937.35	7,815.24	115.28	33.18	-90.52	-186.52	5,881.19	5,933.13	5,807.97	125.16	47.403		
15,800.00	7,870.00	7,938.17	7,816.07	116.87	33.18	-90.54	-186.52	5,881.19	6,019.85	5,894.39	125.46	47.981		
15,900.00	7,870.00	7,939.01	7,816.90	118.47	33.18	-90.56	-186.53	5,881.19	6,106.97	5,981.22	125.75	48.564		
16,000.00	7,870.00	7,939.85	7,817.75	120.07	33.19	-90.57	-186.53	5,881.19	6,194.48	6,068.45	126.03	49.152		
16,100.00	7,870.00	7,940.71	7,818.60	121.68	33.19	-90.59	-186.54	5,881.20	6,282.37	6,156.07	126.29	49.745		
16,200.00	7,870.00	7,941.57	7,819.46	123.30	33.19	-90.61	-186.55	5,881.20	6,370.61	6,244.06	126.54	50.343		
16,300.00	7,870.00	7,942.44	7,820.33	124.91	33.20	-90.62	-186.55	5,881.20	6,459.19	6,332.40	126.79	50.945		
16,400.00	7,870.00	7,943.32	7,821.21	126.53	33.20	-90.64	-186.56	5,881.21	6,548.10	6,421.08	127.02	51.551		
16,500.00	7,870.00	7,944.21	7,822.11	128.16	33.20	-90.66	-186.57	5,881.21	6,637.33	6,510.08	127.25	52.162		
16,600.00	7,870.00	7,945.11	7,823.01	129.79	33.20	-90.67	-186.57	5,881.21	6,726.86	6,599.40	127.46	52.776		
16,700.00	7,870.00	7,946.02	7,823.92	131.42	33.21	-90.69	-186.58	5,881.22	6,816.68	6,689.01	127.67	53.394		
16,800.00	7,870.00	7,946.95	7,824.84	133.05	33.21	-90.71	-186.59	5,881.22	6,906.78	6,778.91	127.87	54.015		
16,900.00	7,870.00	7,947.88	7,825.77	134.69	33.21	-90.73	-186.59	5,881.22	6,997.15	6,869.09	128.06	54.639		
17,000.00	7,870.00	7,948.82	7,826.71	136.33	33.21	-90.75	-186.60	5,881.22	7,087.78	6,959.54	128.25	55.267		
17,100.00	7,870.00	7,949.77	7,827.66	137.97	33.22	-90.76	-186.61	5,881.23	7,178.66	7,050.23	128.42	55.898		
17,200.00	7,870.00	7,950.74	7,828.63	139.62	33.22	-90.78	-186.61	5,881.23	7,269.78	7,141.18	128.60	56.532		
17,300.00	7,870.00	7,951.71	7,829.60	141.27	33.22	-90.80	-186.62	5,881.24	7,361.12	7,232.36	128.76	57.168		
17,400.00	7,870.00	7,952.70	7,830.59	142.92	33.23	-90.82	-186.63	5,881.24	7,452.69	7,323.77	128.92	57.807		
17,500.00	7,870.00	7,953.69	7,831.59	144.58	33.23	-90.84	-186.64	5,881.24	7,544.48	7,415.40	129.08	58.448		
17,600.00	7,870.00	7,954.70	7,832.60	146.23	33.23	-90.86	-186.65	5,881.25	7,636.46	7,507.24	129.23	59.092		
17,700.00	7,870.00	7,955.73	7,833.62	147.89	33.24	-90.88	-186.65	5,881.25	7,728.65	7,599.28	129.38	59.738		
17,800.00	7,870.00	7,956.76	7,834.65	149.56	33.24	-90.90	-186.66	5,881.25	7,821.03	7,691.52	129.52	60.387		
17,900.00	7,870.00	7,957.80	7,835.70	151.22	33.24	-90.92	-186.67	5,881.26	7,913.60	7,783.95	129.65	61.037		
18,000.00	7,870.00	7,958.86	7,836.76	152.89	33.25	-90.94	-186.68	5,881.26	8,006.34	7,876.56	129.78	61.689		
18,100.00	7,870.00	7,959.93	7,837.83	154.55	33.25	-90.96	-186.69	5,881.27	8,099.26	7,969.35	129.91	62.344		
18,200.00	7,870.00	7,961.02	7,838.91	156.22	33.25	-90.98	-186.70	5,881.27	8,192.34	8,062.31	130.04	63.000		
18,300.00	7,870.00	7,962.12	7,840.01	157.90	33.26	-91.00	-186.71	5,881.27	8,285.59	8,155.43	130.16	63.657		
18,400.00	7,870.00	7,963.23	7,841.12	159.57	33.26	-91.02	-186.72	5,881.28	8,378.99	8,248.71	130.28	64.317		
18,500.00	7,870.00	7,964.35	7,842.24	161.25	33.26	-91.04	-186.72	5,881.28	8,472.54	8,342.15	130.39	64.978		
18,600.00	7,870.00	7,965.49	7,843.38	162.93	33.27	-91.07	-186.73	5,881.29	8,566.24	8,435.73	130.50	65.640		
18,700.00	7,870.00	7,966.64	7,844.54	164.60	33.27	-91.09	-186.74	5,881.29	8,660.07	8,529.46	130.61	66.304		
18,797.52	7,870.00	7,967.78	7,845.68	166.24	33.27	-91.11	-186.75	5,881.30	8,751.71	8,621.00	130.71	66.953		

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.02	761.59	5,432.44	5,486.20					
100.00	100.00	52.27	52.27	0.13	0.09	82.02	761.60	5,432.27	5,485.52	5,485.29	0.22	N/A		
200.00	200.00	176.96	176.95	0.49	0.36	82.01	761.81	5,430.68	5,484.18	5,483.32	0.85	6,415.290		
300.00	300.00	230.00	229.98	0.85	0.55	82.01	762.32	5,430.25	5,483.51	5,482.11	1.40	3,916.181		
400.00	400.00	327.58	327.53	1.21	0.90	81.98	764.72	5,429.70	5,483.30	5,481.20	2.10	2,605.011		
428.10	428.10	345.16	345.10	1.31	0.96	81.98	765.45	5,429.59	5,483.28	5,481.01	2.27	2,416.152		
500.00	500.00	394.97	394.82	1.57	1.14	81.95	768.29	5,429.29	5,483.43	5,480.72	2.71	2,025.781		
600.00	600.00	460.25	459.88	1.93	1.38	81.89	773.65	5,429.00	5,484.14	5,480.83	3.31	1,658.696		
700.00	700.00	1,105.19	1,092.68	2.29	4.25	80.66	885.97	5,388.21	5,481.24	5,474.73	6.51	842.514		
800.00	800.00	1,188.49	1,173.35	2.64	4.68	80.46	904.18	5,378.20	5,472.74	5,465.45	7.28	751.237		
900.00	900.00	1,283.65	1,265.83	3.00	5.17	80.24	923.65	5,367.10	5,464.46	5,456.34	8.12	673.068		
1,000.00	1,000.00	1,322.79	1,303.97	3.36	5.36	80.15	931.38	5,362.83	5,456.84	5,448.17	8.67	629.186		
1,100.00	1,099.98	1,371.00	1,350.95	3.72	5.61	25.49	941.05	5,358.03	5,448.72	5,439.45	9.27	587.797		
1,200.00	1,199.84	1,426.96	1,405.42	4.07	5.89	25.46	952.80	5,352.86	5,438.35	5,428.44	9.91	548.754		
1,300.00	1,299.45	1,534.45	1,509.57	4.43	6.46	25.34	977.46	5,342.98	5,425.37	5,414.54	10.83	501.042		
1,400.00	1,398.70	1,664.46	1,634.86	4.80	7.18	25.19	1,009.55	5,329.71	5,408.58	5,396.69	11.89	454.853		
1,500.00	1,497.47	1,730.13	1,698.32	5.18	7.54	25.23	1,025.13	5,323.17	5,388.88	5,376.28	12.61	427.518		
1,600.00	1,595.62	1,834.73	1,799.89	5.57	8.09	25.25	1,048.10	5,313.37	5,366.42	5,352.91	13.51	397.132		
1,700.00	1,693.06	1,922.76	1,885.72	6.00	8.54	25.36	1,065.94	5,305.32	5,340.84	5,326.52	14.32	372.925		
1,800.00	1,789.64	1,986.46	1,948.01	6.45	8.86	25.55	1,078.05	5,299.86	5,312.59	5,297.58	15.01	353.981		
1,900.00	1,885.27	2,082.03	2,041.31	6.94	9.34	25.74	1,097.19	5,292.00	5,281.84	5,265.97	15.87	332.874		
2,000.00	1,979.82	2,299.17	2,252.07	7.47	10.49	25.82	1,144.66	5,270.25	5,246.72	5,229.35	17.37	302.102		
2,100.00	2,073.17	2,391.16	2,341.76	8.05	10.96	26.13	1,162.50	5,260.38	5,207.68	5,189.46	18.22	285.851		
2,200.00	2,165.21	2,454.88	2,404.05	8.67	11.28	26.52	1,174.27	5,253.82	5,166.02	5,147.08	18.94	272.749		
2,300.00	2,255.84	2,513.92	2,461.64	9.35	11.58	26.94	1,185.87	5,247.96	5,122.06	5,102.40	19.66	260.580		
2,400.00	2,344.94	2,570.03	2,516.29	10.09	11.87	27.41	1,197.44	5,242.64	5,075.88	5,055.50	20.38	249.083		
2,500.00	2,432.39	2,699.73	2,642.35	10.89	12.55	27.92	1,225.25	5,230.16	5,027.03	5,005.55	21.48	234.067		
2,519.29	2,449.07	2,722.54	2,664.52	11.05	12.68	28.03	1,230.12	5,227.83	5,017.19	4,995.50	21.68	231.395		
2,600.00	2,518.69	2,816.81	2,756.13	11.74	13.18	28.05	1,250.00	5,217.96	4,975.59	4,953.07	22.52	220.916		
2,700.00	2,604.95	2,905.34	2,841.98	12.62	13.65	28.05	1,269.31	5,208.21	4,923.72	4,900.28	23.44	210.027		
2,800.00	2,691.22	2,960.00	2,894.87	13.52	13.95	28.05	1,281.74	5,202.22	4,872.10	4,847.88	24.22	201.172		
2,900.00	2,777.48	3,024.16	2,956.76	14.43	14.31	28.03	1,297.20	5,195.38	4,820.92	4,795.86	25.06	192.341		
3,000.00	2,863.75	3,084.93	3,015.15	15.35	14.66	28.00	1,312.84	5,189.15	4,770.31	4,744.41	25.91	184.123		
3,100.00	2,950.01	3,160.75	3,087.96	16.28	15.10	27.96	1,332.62	5,181.64	4,720.05	4,693.21	26.84	175.849		
3,200.00	3,036.27	3,284.80	3,207.08	17.22	15.82	27.89	1,364.83	5,168.89	4,669.46	4,641.44	28.02	166.654		
3,300.00	3,122.54	3,374.21	3,292.85	18.17	16.34	27.83	1,388.12	5,159.20	4,618.42	4,589.39	29.03	159.086		
3,400.00	3,208.80	3,473.63	3,388.12	19.13	16.93	27.77	1,414.46	5,148.50	4,567.54	4,537.44	30.10	151.749		
3,500.00	3,295.07	3,584.10	3,493.74	20.09	17.59	27.68	1,444.14	5,135.58	4,515.87	4,484.64	31.23	144.613		
3,600.00	3,381.33	3,653.80	3,560.44	21.05	18.00	27.63	1,462.68	5,127.50	4,464.30	4,432.14	32.16	138.823		
3,700.00	3,467.59	3,717.44	3,621.76	22.02	18.37	27.60	1,478.26	5,120.70	4,413.14	4,380.08	33.06	133.487		
3,800.00	3,553.86	3,786.33	3,688.29	22.99	18.75	27.58	1,494.77	5,113.72	4,362.37	4,328.39	33.98	128.375		
3,900.00	3,640.12	3,912.14	3,809.39	23.97	19.47	27.52	1,526.17	5,100.48	4,311.46	4,276.31	35.15	122.651		
4,000.00	3,726.38	4,011.36	3,905.22	24.95	20.03	27.49	1,549.46	5,089.61	4,259.91	4,223.71	36.20	117.680		
4,100.00	3,812.65	4,095.55	3,986.79	25.93	20.49	27.48	1,568.18	5,080.47	4,208.23	4,171.06	37.17	113.204		
4,200.00	3,898.91	4,160.30	4,049.71	26.91	20.83	27.48	1,581.90	5,073.76	4,156.81	4,118.74	38.07	109.180		
4,300.00	3,985.18	4,245.17	4,132.48	27.90	21.26	27.51	1,598.74	5,065.50	4,105.69	4,066.65	39.04	105.176		
4,400.00	4,071.44	4,399.02	4,282.43	28.88	22.06	27.56	1,629.10	5,049.27	4,053.92	4,013.70	40.22	100.800		
4,500.00	4,157.70	4,485.26	4,366.19	29.87	22.52	27.57	1,646.86	5,038.96	4,001.05	3,959.87	41.19	97.139		
4,600.00	4,243.97	4,530.60	4,410.33	30.86	22.75	27.59	1,655.92	5,033.95	3,948.84	3,906.80	42.04	93.931		
4,700.00	4,330.23	4,555.00	4,434.14	31.85	22.88	27.60	1,660.63	5,031.48	3,897.61	3,854.77	42.84	90.991		
4,800.00	4,416.49	4,606.35	4,484.46	32.84	23.12	27.63	1,669.89	5,027.05	3,847.31	3,803.61	43.70	88.045		
4,900.00	4,502.76	4,648.00	4,525.47	33.84	23.32	27.68	1,676.58	5,024.36	3,798.26	3,753.72	44.54	85.274		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,773.66	4,649.72	34.83	23.84	27.88	1,693.64	5,016.61	3,749.10	3,703.54	45.56	82.294		
5,100.00	4,675.29	4,842.28	4,717.84	35.82	24.12	28.03	1,700.94	5,012.64	3,699.83	3,653.39	46.44	79.663		
5,200.00	4,761.55	4,909.39	4,784.59	36.82	24.36	28.20	1,707.01	5,009.30	3,651.04	3,603.72	47.32	77.157		
5,300.00	4,847.81	4,996.99	4,871.85	37.82	24.67	28.45	1,713.63	5,005.49	3,602.57	3,554.35	48.22	74.705		
5,400.00	4,934.08	5,062.15	4,936.84	38.81	24.88	28.67	1,717.44	5,002.90	3,554.24	3,505.15	49.10	72.394		
5,500.00	5,020.34	5,117.37	4,991.99	39.81	25.05	28.86	1,720.00	5,001.33	3,506.72	3,456.76	49.96	70.189		
5,600.00	5,106.60	5,213.60	5,088.17	40.81	25.31	29.27	1,721.43	4,999.40	3,459.54	3,408.68	50.86	68.026		
5,700.00	5,192.87	5,279.05	5,153.61	41.81	25.46	29.60	1,720.47	4,998.53	3,412.64	3,360.92	51.72	65.988		
5,800.00	5,279.13	5,364.46	5,238.99	42.81	25.65	30.04	1,718.43	4,997.85	3,366.21	3,313.61	52.60	63.995		
5,900.00	5,365.40	5,483.42	5,357.91	43.81	25.92	30.68	1,715.70	4,996.23	3,319.52	3,266.01	53.52	62.029		
6,000.00	5,451.66	5,562.95	5,437.40	44.81	26.11	31.11	1,713.84	4,994.72	3,272.53	3,218.10	54.43	60.125		
6,100.00	5,537.92	5,634.58	5,509.00	45.81	26.28	31.51	1,712.40	4,993.53	3,225.98	3,170.63	55.35	58.279		
6,200.00	5,624.19	5,706.25	5,580.66	46.81	26.45	31.91	1,711.44	4,992.62	3,180.01	3,123.72	56.29	56.489		
6,300.00	5,710.45	5,782.71	5,657.12	47.81	26.64	32.35	1,710.68	4,991.89	3,134.54	3,077.29	57.25	54.747		
6,400.00	5,796.72	5,871.04	5,745.44	48.81	26.86	32.86	1,709.95	4,991.10	3,089.34	3,031.10	58.24	53.047		
6,500.00	5,882.98	5,942.87	5,817.27	49.81	27.04	33.28	1,709.57	4,990.59	3,044.51	2,985.28	59.23	51.401		
6,600.00	5,969.24	6,030.91	5,905.31	50.82	27.27	33.80	1,709.34	4,990.12	3,000.08	2,939.83	60.25	49.794		
6,700.00	6,055.51	6,113.22	5,987.61	51.82	27.48	34.30	1,709.26	4,989.62	2,955.82	2,894.53	61.29	48.230		
6,800.00	6,141.77	6,196.93	6,071.33	52.82	27.71	34.82	1,709.49	4,989.23	2,911.91	2,849.57	62.34	46.708		
6,900.00	6,228.03	6,278.22	6,152.61	53.83	27.94	35.33	1,709.90	4,988.88	2,868.28	2,804.87	63.42	45.229		
7,000.00	6,314.30	6,354.34	6,228.73	54.83	28.15	35.82	1,710.38	4,988.78	2,825.14	2,760.64	64.50	43.798		
7,100.00	6,400.56	6,429.71	6,304.10	55.83	28.35	36.32	1,710.50	4,989.00	2,782.60	2,717.00	65.61	42.413		
7,200.00	6,486.83	6,525.77	6,400.16	56.84	28.60	36.99	1,710.49	4,989.30	2,740.33	2,673.59	66.74	41.059		
7,300.00	6,573.09	6,607.69	6,482.08	57.84	28.82	37.57	1,710.45	4,989.49	2,698.27	2,630.38	67.89	39.747		
7,400.00	6,659.35	6,708.46	6,562.84	58.84	29.09	38.32	1,710.24	4,989.54	2,656.34	2,587.28	69.07	38.461		
7,500.00	6,745.62	6,792.18	6,666.57	59.85	29.32	38.95	1,710.09	4,989.38	2,614.51	2,544.25	70.26	37.212		
7,600.00	6,831.88	6,882.84	6,757.23	60.85	29.57	39.66	1,710.04	4,989.18	2,572.98	2,501.49	71.48	35.995		
7,700.00	6,918.14	6,969.31	6,843.70	61.86	29.81	40.35	1,710.02	4,988.88	2,531.67	2,458.95	72.73	34.810		
7,800.00	7,004.41	7,055.49	6,929.88	62.86	30.05	41.07	1,709.95	4,988.59	2,490.73	2,416.73	74.00	33.659		
7,900.00	7,090.67	7,140.99	7,015.38	63.87	30.29	41.79	1,709.94	4,988.31	2,450.16	2,374.87	75.30	32.541		
8,000.00	7,176.94	7,231.47	7,105.86	64.87	30.55	42.58	1,710.13	4,987.99	2,409.95	2,333.33	76.62	31.453		
8,027.52	7,200.68	7,257.31	7,131.70	65.15	30.62	42.81	1,710.21	4,987.85	2,398.92	2,321.93	76.99	31.158		
8,050.00	7,220.18	7,278.52	7,152.91	65.37	30.69	38.61	1,710.28	4,987.72	2,389.83	2,312.55	77.28	30.922		
8,100.00	7,264.25	7,324.91	7,199.30	65.85	30.82	28.17	1,710.43	4,987.40	2,369.14	2,291.28	77.86	30.427		
8,150.00	7,308.99	7,372.21	7,246.59	66.28	30.96	16.38	1,710.55	4,987.02	2,347.86	2,269.53	78.34	29.971		
8,200.00	7,354.07	7,418.07	7,292.45	66.67	31.09	3.70	1,710.71	4,986.62	2,326.13	2,247.44	78.69	29.559		
8,250.00	7,399.14	7,464.22	7,338.60	67.02	31.23	-9.13	1,710.90	4,986.20	2,304.11	2,225.18	78.93	29.191		
8,300.00	7,443.85	7,509.95	7,384.33	67.32	31.37	-21.38	1,711.14	4,985.76	2,281.97	2,202.92	79.05	28.869		
8,350.00	7,487.88	7,554.91	7,429.29	67.56	31.50	-32.56	1,711.42	4,985.30	2,259.91	2,180.87	79.04	28.593		
8,400.00	7,530.87	7,590.94	7,465.31	67.75	31.61	-42.40	1,711.62	4,984.99	2,238.24	2,159.33	78.91	28.365		
8,450.00	7,572.51	7,626.98	7,501.35	67.90	31.71	-50.97	1,711.77	4,984.76	2,217.25	2,138.58	78.66	28.187		
8,500.00	7,612.48	7,662.56	7,536.93	68.00	31.82	-58.41	1,711.89	4,984.61	2,197.18	2,118.88	78.31	28.059		
8,550.00	7,650.47	7,697.08	7,571.45	68.05	31.92	-64.84	1,712.00	4,984.52	2,178.28	2,100.44	77.84	27.983		
8,600.00	7,686.20	7,729.57	7,603.94	68.06	32.02	-70.37	1,712.11	4,984.49	2,160.83	2,083.55	77.28	27.960 SF		
8,650.00	7,719.39	7,762.02	7,636.39	68.03	32.11	-75.17	1,712.21	4,984.49	2,145.09	2,068.45	76.64	27.990		
8,700.00	7,749.79	7,792.37	7,666.74	67.97	32.20	-79.25	1,712.27	4,984.49	2,131.31	2,055.39	75.92	28.072		
8,750.00	7,777.17	7,819.78	7,694.14	67.87	32.28	-82.67	1,712.30	4,984.49	2,119.75	2,044.60	75.15	28.206		
8,800.00	7,801.32	7,843.96	7,718.32	67.74	32.35	-85.45	1,712.30	4,984.49	2,110.66	2,036.31	74.35	28.389		
8,850.00	7,822.06	7,864.69	7,739.06	67.59	32.42	-87.64	1,712.30	4,984.49	2,104.25	2,030.72	73.53	28.619		
8,900.00	7,839.23	7,881.86	7,756.23	67.41	32.47	-89.24	1,712.30	4,984.49	2,100.70	2,027.99	72.71	28.891		
8,934.17	7,848.84	7,891.47	7,765.84	67.28	32.49	-90.00	1,712.30	4,984.49	2,099.99	2,027.82	72.17	29.098 CC, ES		
8,950.00	7,852.69	7,895.33	7,769.69	67.22	32.51	-90.26	1,712.30	4,984.49	2,100.14	2,028.22	71.92	29.200		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	7,904.99	7,779.35	67.00	32.53	-90.73	1,712.30	4,984.49	2,102.66	2,031.48	71.18	29.539		
9,050.00	7,868.14	7,910.77	7,785.14	66.78	32.55	-90.64	1,712.30	4,984.49	2,108.27	2,037.76	70.50	29.903		
9,098.65	7,870.00	7,912.63	7,787.00	66.55	32.56	-90.00	1,712.30	4,984.49	2,116.66	2,046.74	69.92	30.273		
9,100.00	7,870.00	7,912.63	7,787.00	66.55	32.56	-90.00	1,712.30	4,984.49	2,116.93	2,047.02	69.90	30.283		
9,200.00	7,870.00	7,912.63	7,787.00	66.09	32.56	-90.00	1,712.30	4,984.49	2,139.41	2,070.42	68.98	31.014		
9,300.00	7,870.00	7,912.63	7,787.00	65.65	32.56	-90.00	1,712.30	4,984.49	2,166.27	2,097.81	68.46	31.645		
9,400.00	7,870.00	7,912.63	7,787.00	65.24	32.56	-90.00	1,712.30	4,984.49	2,197.36	2,129.04	68.32	32.163		
9,500.00	7,870.00	7,912.63	7,787.00	64.85	32.56	-90.00	1,712.30	4,984.49	2,232.50	2,163.95	68.55	32.567		
9,600.00	7,870.00	7,912.63	7,787.00	64.48	32.56	-90.00	1,712.30	4,984.49	2,271.50	2,202.40	69.11	32.869		
9,700.00	7,870.00	7,912.63	7,787.00	64.13	32.56	-90.00	1,712.30	4,984.49	2,314.17	2,244.24	69.94	33.090		
9,800.00	7,870.00	7,912.63	7,787.00	63.80	32.56	-90.00	1,712.30	4,984.49	2,360.31	2,289.33	70.98	33.252		
9,900.00	7,870.00	7,912.63	7,787.00	63.50	32.56	-90.00	1,712.30	4,984.49	2,409.72	2,337.52	72.19	33.378		
10,000.00	7,870.00	7,912.63	7,787.00	63.22	32.56	-90.00	1,712.30	4,984.49	2,462.20	2,388.67	73.52	33.490		
10,100.00	7,870.00	7,912.63	7,787.00	62.96	32.56	-90.00	1,712.30	4,984.49	2,517.55	2,442.63	74.92	33.603		
10,200.00	7,870.00	7,912.63	7,787.00	62.72	32.56	-90.00	1,712.30	4,984.49	2,575.61	2,499.25	76.36	33.730		
10,300.00	7,870.00	7,912.63	7,787.00	62.50	32.56	-90.00	1,712.30	4,984.49	2,636.17	2,558.36	77.81	33.879		
10,400.00	7,870.00	7,912.63	7,787.00	62.31	32.56	-90.00	1,712.30	4,984.49	2,699.09	2,619.83	79.26	34.056		
10,500.00	7,870.00	7,912.63	7,787.00	62.15	32.56	-90.00	1,712.30	4,984.49	2,764.19	2,683.51	80.68	34.263		
10,600.00	7,870.00	7,912.63	7,787.00	62.01	32.56	-90.00	1,712.30	4,984.49	2,831.33	2,749.27	82.06	34.503		
10,700.00	7,870.00	7,912.63	7,787.00	61.90	32.56	-90.00	1,712.30	4,984.49	2,900.36	2,816.96	83.40	34.775		
10,800.00	7,870.00	7,912.63	7,787.00	61.82	32.56	-90.00	1,712.30	4,984.49	2,971.15	2,886.45	84.70	35.079		
10,900.00	7,870.00	7,912.63	7,787.00	61.78	32.56	-90.00	1,712.30	4,984.49	3,043.59	2,957.64	85.94	35.414		
11,000.00	7,870.00	7,912.63	7,787.00	61.77	32.56	-90.00	1,712.30	4,984.49	3,117.55	3,030.41	87.13	35.779		
11,100.00	7,870.00	7,912.63	7,787.00	61.81	32.56	-90.00	1,712.30	4,984.49	3,192.92	3,104.65	88.27	36.171		
11,200.00	7,870.00	7,912.63	7,787.00	61.90	32.56	-90.00	1,712.30	4,984.49	3,269.62	3,180.26	89.36	36.590		
11,300.00	7,870.00	7,912.63	7,787.00	62.03	32.56	-90.00	1,712.30	4,984.49	3,347.55	3,257.16	90.39	37.033		
11,400.00	7,870.00	7,912.63	7,787.00	62.23	32.56	-90.00	1,712.30	4,984.49	3,426.63	3,335.25	91.38	37.499		
11,500.00	7,870.00	7,912.63	7,787.00	62.50	32.56	-90.00	1,712.30	4,984.49	3,506.77	3,414.45	92.32	37.986		
11,600.00	7,870.00	7,912.63	7,787.00	62.84	32.56	-90.00	1,712.30	4,984.49	3,587.91	3,494.70	93.21	38.493		
11,700.00	7,870.00	7,912.63	7,787.00	63.25	32.56	-90.00	1,712.30	4,984.49	3,669.98	3,575.93	94.06	39.019		
11,800.00	7,870.00	7,912.63	7,787.00	63.76	32.56	-90.00	1,712.30	4,984.49	3,752.92	3,658.06	94.86	39.562		
11,900.00	7,870.00	7,912.63	7,787.00	64.34	32.56	-90.00	1,712.30	4,984.49	3,836.68	3,741.05	95.63	40.121		
12,000.00	7,870.00	7,912.63	7,787.00	65.01	32.56	-90.00	1,712.30	4,984.49	3,921.20	3,824.84	96.36	40.695		
12,100.00	7,870.00	7,912.63	7,787.00	65.77	32.56	-90.00	1,712.30	4,984.49	4,006.43	3,909.38	97.05	41.282		
12,200.00	7,870.00	7,912.63	7,787.00	66.61	32.56	-90.00	1,712.30	4,984.49	4,092.32	3,994.61	97.71	41.882		
12,300.00	7,870.00	7,912.63	7,787.00	67.51	32.56	-90.00	1,712.30	4,984.49	4,178.85	4,080.51	98.34	42.494		
12,400.00	7,870.00	7,912.63	7,787.00	68.49	32.56	-90.00	1,712.30	4,984.49	4,265.96	4,167.03	98.94	43.118		
12,500.00	7,870.00	7,912.63	7,787.00	69.52	32.56	-90.00	1,712.30	4,984.49	4,353.63	4,254.12	99.51	43.751		
12,600.00	7,870.00	7,912.63	7,787.00	70.61	32.56	-90.00	1,712.30	4,984.49	4,441.82	4,341.77	100.05	44.394		
12,700.00	7,870.00	7,912.63	7,787.00	71.75	32.56	-90.00	1,712.30	4,984.49	4,530.50	4,429.93	100.57	45.047		
12,800.00	7,870.00	7,912.63	7,787.00	72.93	32.56	-90.00	1,712.30	4,984.49	4,619.65	4,518.58	101.07	45.707		
12,900.00	7,870.00	7,912.63	7,787.00	74.14	32.56	-90.00	1,712.30	4,984.49	4,709.22	4,607.68	101.55	46.376		
13,000.00	7,870.00	7,912.63	7,787.00	75.39	32.56	-90.00	1,712.30	4,984.49	4,799.21	4,697.22	102.00	47.051		
13,100.00	7,870.00	7,912.63	7,787.00	76.67	32.56	-90.00	1,712.30	4,984.49	4,889.59	4,787.16	102.43	47.734		
13,200.00	7,870.00	7,912.63	7,787.00	77.98	32.56	-90.00	1,712.30	4,984.49	4,980.34	4,877.49	102.85	48.423		
13,300.00	7,870.00	7,912.63	7,787.00	79.31	32.56	-90.00	1,712.30	4,984.49	5,071.44	4,968.19	103.25	49.118		
13,400.00	7,870.00	7,912.63	7,787.00	80.67	32.56	-90.00	1,712.30	4,984.49	5,162.86	5,059.23	103.63	49.819		
13,500.00	7,870.00	7,912.63	7,787.00	82.04	32.56	-90.00	1,712.30	4,984.49	5,254.60	5,150.60	104.00	50.525		
13,600.00	7,870.00	7,912.63	7,787.00	83.43	32.56	-90.00	1,712.30	4,984.49	5,346.63	5,242.28	104.35	51.237		
13,700.00	7,870.00	7,912.63	7,787.00	84.84	32.56	-90.00	1,712.30	4,984.49	5,438.95	5,334.26	104.69	51.953		
13,800.00	7,870.00	7,912.63	7,787.00	86.27	32.56	-90.00	1,712.30	4,984.49	5,531.53	5,426.51	105.02	52.673		
13,900.00	7,870.00	7,912.63	7,787.00	87.71	32.56	-90.00	1,712.30	4,984.49	5,624.36	5,519.03	105.33	53.397		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,870.00	7,912.63	7,787.00	89.16	32.56	-90.00	1,712.30	4,984.49	5,717.44	5,611.81	105.63	54.126		
14,100.00	7,870.00	7,912.63	7,787.00	90.63	32.56	-90.00	1,712.30	4,984.49	5,810.75	5,704.83	105.92	54.858		
14,200.00	7,870.00	7,912.63	7,787.00	92.10	32.56	-90.00	1,712.30	4,984.49	5,904.28	5,798.07	106.20	55.593		
14,300.00	7,870.00	7,912.63	7,787.00	93.59	32.56	-90.00	1,712.30	4,984.49	5,998.01	5,891.54	106.48	56.332		
14,400.00	7,870.00	7,912.63	7,787.00	95.09	32.56	-90.00	1,712.30	4,984.49	6,091.95	5,985.21	106.74	57.074		
14,500.00	7,870.00	7,912.63	7,787.00	96.60	32.56	-90.00	1,712.30	4,984.49	6,186.07	6,079.08	106.99	57.819		
14,600.00	7,870.00	7,912.63	7,787.00	98.11	32.56	-90.00	1,712.30	4,984.49	6,280.38	6,173.14	107.23	58.567		
14,700.00	7,870.00	7,912.63	7,787.00	99.64	32.56	-90.00	1,712.30	4,984.49	6,374.86	6,267.39	107.47	59.317		
14,800.00	7,870.00	7,912.63	7,787.00	101.17	32.56	-90.00	1,712.30	4,984.49	6,469.51	6,361.81	107.70	60.070		
14,900.00	7,870.00	7,912.63	7,787.00	102.71	32.56	-90.00	1,712.30	4,984.49	6,564.31	6,456.39	107.92	60.825		
15,000.00	7,870.00	7,912.63	7,787.00	104.26	32.56	-90.00	1,712.30	4,984.49	6,659.27	6,551.13	108.14	61.582		
15,100.00	7,870.00	7,912.63	7,787.00	105.82	32.56	-90.00	1,712.30	4,984.49	6,754.37	6,646.02	108.34	62.341		
15,200.00	7,870.00	7,912.63	7,787.00	107.38	32.56	-90.00	1,712.30	4,984.49	6,849.61	6,741.06	108.55	63.103		
15,300.00	7,870.00	7,912.63	7,787.00	108.95	32.56	-90.00	1,712.30	4,984.49	6,944.99	6,836.24	108.74	63.866		
15,400.00	7,870.00	7,912.63	7,787.00	110.52	32.56	-90.00	1,712.30	4,984.49	7,040.49	6,931.56	108.93	64.631		
15,500.00	7,870.00	7,912.63	7,787.00	112.10	32.56	-90.00	1,712.30	4,984.49	7,136.12	7,027.00	109.12	65.397		
15,600.00	7,870.00	7,912.63	7,787.00	113.69	32.56	-90.00	1,712.30	4,984.49	7,231.86	7,122.56	109.30	66.165		
15,700.00	7,870.00	7,912.63	7,787.00	115.28	32.56	-90.00	1,712.30	4,984.49	7,327.72	7,218.25	109.48	66.935		
15,800.00	7,870.00	7,912.63	7,787.00	116.87	32.56	-90.00	1,712.30	4,984.49	7,423.69	7,314.04	109.65	67.706		
15,900.00	7,870.00	7,912.63	7,787.00	118.47	32.56	-90.00	1,712.30	4,984.49	7,519.76	7,409.95	109.81	68.478		
16,000.00	7,870.00	7,912.63	7,787.00	120.07	32.56	-90.00	1,712.30	4,984.49	7,615.94	7,505.96	109.97	69.252		
16,100.00	7,870.00	7,912.63	7,787.00	121.68	32.56	-90.00	1,712.30	4,984.49	7,712.21	7,602.08	110.13	70.026		
16,200.00	7,870.00	7,912.63	7,787.00	123.30	32.56	-90.00	1,712.30	4,984.49	7,808.58	7,698.29	110.29	70.802		
16,300.00	7,870.00	7,912.63	7,787.00	124.91	32.56	-90.00	1,712.30	4,984.49	7,905.03	7,794.59	110.44	71.579		
16,400.00	7,870.00	7,912.63	7,787.00	126.53	32.56	-90.00	1,712.30	4,984.49	8,001.57	7,890.99	110.59	72.356		
16,500.00	7,870.00	7,912.63	7,787.00	128.16	32.56	-90.00	1,712.30	4,984.49	8,098.20	7,987.47	110.73	73.135		
16,600.00	7,870.00	7,912.63	7,787.00	129.79	32.56	-90.00	1,712.30	4,984.49	8,194.91	8,084.04	110.87	73.915		
16,700.00	7,870.00	7,912.63	7,787.00	131.42	32.56	-90.00	1,712.30	4,984.49	8,291.69	8,180.69	111.01	74.695		
16,800.00	7,870.00	7,912.63	7,787.00	133.05	32.56	-90.00	1,712.30	4,984.49	8,388.56	8,277.41	111.14	75.476		
16,900.00	7,870.00	7,912.63	7,787.00	134.69	32.56	-90.00	1,712.30	4,984.49	8,485.49	8,374.22	111.27	76.258		
17,000.00	7,870.00	7,912.63	7,787.00	136.33	32.56	-90.00	1,712.30	4,984.49	8,582.49	8,471.09	111.40	77.040		
17,100.00	7,870.00	7,912.63	7,787.00	137.97	32.56	-90.00	1,712.30	4,984.49	8,679.57	8,568.04	111.53	77.823		
17,200.00	7,870.00	7,912.63	7,787.00	139.62	32.56	-90.00	1,712.30	4,984.49	8,776.70	8,665.05	111.65	78.607		
17,300.00	7,870.00	7,912.63	7,787.00	141.27	32.56	-90.00	1,712.30	4,984.49	8,873.91	8,762.13	111.78	79.391		
17,400.00	7,870.00	7,912.63	7,787.00	142.92	32.56	-90.00	1,712.30	4,984.49	8,971.17	8,859.27	111.89	80.175		
17,500.00	7,870.00	7,912.63	7,787.00	144.58	32.56	-90.00	1,712.30	4,984.49	9,068.49	8,956.48	112.01	80.960		
17,600.00	7,870.00	7,912.63	7,787.00	146.23	32.56	-90.00	1,712.30	4,984.49	9,165.87	9,053.75	112.13	81.746		
17,700.00	7,870.00	7,912.63	7,787.00	147.89	32.56	-90.00	1,712.30	4,984.49	9,263.31	9,151.07	112.24	82.531		
17,800.00	7,870.00	7,912.63	7,787.00	149.56	32.56	-90.00	1,712.30	4,984.49	9,360.80	9,248.45	112.35	83.317		
17,900.00	7,870.00	7,912.63	7,787.00	151.22	32.56	-90.00	1,712.30	4,984.49	9,458.34	9,345.88	112.46	84.104		
18,000.00	7,870.00	7,912.63	7,787.00	152.89	32.56	-90.00	1,712.30	4,984.49	9,555.93	9,443.37	112.57	84.891		
18,100.00	7,870.00	7,912.63	7,787.00	154.55	32.56	-90.00	1,712.30	4,984.49	9,653.58	9,540.90	112.67	85.677		
18,200.00	7,870.00	7,912.63	7,787.00	156.22	32.56	-90.00	1,712.30	4,984.49	9,751.27	9,638.49	112.78	86.465		
18,300.00	7,870.00	7,912.63	7,787.00	157.90	32.56	-90.00	1,712.30	4,984.49	9,849.00	9,736.12	112.88	87.252		
18,400.00	7,870.00	7,912.63	7,787.00	159.57	32.56	-90.00	1,712.30	4,984.49	9,946.79	9,833.81	112.98	88.039		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.91	776.17	5,457.64	5,513.18					
100.00	100.00	0.00	0.00	0.13	0.00	81.91	776.17	5,457.64	5,512.58	5,512.45	0.13	N/A		
200.00	200.00	65.79	65.79	0.49	0.11	81.90	776.48	5,457.90	5,513.10	5,512.50	0.60	9,173.068		
300.00	300.00	138.00	137.98	0.85	0.23	81.89	777.55	5,458.80	5,514.47	5,513.39	1.08	5,120.904		
400.00	400.00	138.00	137.98	1.21	0.23	81.89	777.55	5,458.80	5,516.81	5,515.37	1.44	3,836.040		
500.00	500.00	198.68	198.62	1.57	0.45	81.88	779.28	5,460.36	5,520.01	5,518.00	2.02	2,739.266		
600.00	600.00	229.00	228.89	1.93	0.56	81.87	780.52	5,461.55	5,524.56	5,522.08	2.48	2,224.273		
700.00	700.00	264.85	264.66	2.29	0.70	81.85	782.19	5,463.36	5,530.31	5,527.33	2.97	1,860.031		
800.00	800.00	320.00	319.61	2.64	0.90	81.83	784.92	5,467.12	5,537.46	5,533.93	3.53	1,568.222		
900.00	900.00	320.00	319.61	3.00	0.90	81.83	784.92	5,467.12	5,545.53	5,541.64	3.89	1,426.438		
1,000.00	1,000.00	368.91	368.27	3.36	1.09	81.81	787.59	5,471.29	5,554.85	5,550.43	4.42	1,255.841		
1,100.00	1,099.98	411.00	410.08	3.72	1.26	27.09	790.13	5,475.36	5,563.72	5,558.80	4.93	1,129.679		
1,200.00	1,199.84	446.92	445.71	4.07	1.40	27.02	792.58	5,479.19	5,570.58	5,565.18	5.40	1,030.915		
1,300.00	1,299.45	503.00	501.22	4.43	1.63	26.93	797.11	5,485.80	5,575.51	5,569.55	5.96	935.528		
1,400.00	1,398.70	503.00	501.22	4.80	1.63	26.96	797.11	5,485.80	5,578.39	5,572.08	6.30	884.807		
1,500.00	1,497.47	563.63	561.01	5.18	1.90	26.92	803.15	5,493.76	5,579.10	5,572.21	6.89	809.409		
1,600.00	1,595.62	594.00	590.87	5.57	2.03	26.93	806.68	5,498.06	5,577.92	5,570.56	7.37	757.291		
1,700.00	1,693.06	655.25	650.89	6.00	2.32	26.95	814.82	5,507.16	5,574.54	5,566.56	7.98	698.582		
1,800.00	1,789.64	685.00	679.95	6.45	2.46	27.00	819.28	5,511.74	5,569.03	5,560.56	8.47	657.460		
1,900.00	1,885.27	747.14	740.43	6.94	2.77	27.07	829.37	5,521.77	5,561.28	5,552.16	9.12	609.774		
2,000.00	1,979.82	802.86	794.44	7.47	3.06	27.16	839.18	5,531.32	5,551.44	5,541.68	9.76	568.796		
2,100.00	2,073.17	888.99	877.63	8.05	3.51	27.27	855.81	5,546.20	5,539.02	5,528.46	10.56	524.615		
2,200.00	2,165.21	992.34	977.10	8.67	4.08	27.41	877.81	5,563.62	5,523.43	5,511.95	11.47	481.360		
2,300.00	2,255.84	1,070.00	1,051.57	9.35	4.52	27.58	895.47	5,576.77	5,505.11	5,492.81	12.30	447.683		
2,400.00	2,344.94	1,279.10	1,252.06	10.09	5.72	27.80	944.35	5,610.45	5,483.31	5,469.50	13.81	397.190		
2,500.00	2,432.39	1,360.01	1,329.91	10.89	6.17	28.08	962.64	5,622.72	5,457.23	5,442.54	14.69	371.400		
2,519.29	2,449.07	1,374.90	1,344.23	11.05	6.26	28.14	966.04	5,625.00	5,451.89	5,437.03	14.87	366.724		
2,600.00	2,518.69	1,430.00	1,397.15	11.74	6.57	28.16	978.80	5,633.49	5,429.47	5,413.92	15.55	349.169		
2,700.00	2,604.95	1,502.20	1,466.34	12.62	6.99	28.19	996.04	5,644.83	5,402.10	5,385.66	16.44	328.670		
2,800.00	2,691.22	1,563.26	1,524.69	13.52	7.35	28.20	1,011.08	5,654.70	5,375.30	5,358.02	17.28	311.019		
2,900.00	2,777.48	1,624.73	1,583.33	14.43	7.72	28.21	1,026.35	5,665.06	5,349.18	5,331.03	18.15	294.800		
3,000.00	2,863.75	1,737.76	1,691.28	15.35	8.40	28.25	1,053.60	5,684.50	5,323.30	5,304.03	19.28	276.172		
3,100.00	2,950.01	1,898.90	1,846.43	16.28	9.33	28.36	1,087.68	5,711.56	5,296.46	5,275.84	20.62	256.848		
3,200.00	3,036.27	2,068.00	2,010.74	17.22	10.22	28.54	1,117.38	5,738.22	5,267.81	5,245.86	21.95	239.963		
3,300.00	3,122.54	2,137.08	2,078.13	18.17	10.57	28.63	1,127.62	5,749.36	5,239.41	5,216.58	22.84	229.420		
3,400.00	3,208.80	2,179.00	2,119.02	19.13	10.79	28.69	1,133.70	5,756.34	5,211.66	5,188.04	23.62	220.683		
3,500.00	3,295.07	2,227.04	2,165.78	20.09	11.04	28.76	1,140.79	5,764.78	5,184.84	5,160.41	24.43	212.230		
3,600.00	3,381.33	2,272.00	2,209.37	21.05	11.28	28.82	1,147.74	5,773.31	5,159.22	5,133.98	25.24	204.426		
3,700.00	3,467.59	2,306.48	2,242.71	22.02	11.47	28.87	1,153.23	5,780.19	5,134.65	5,108.64	26.01	197.411		
3,800.00	3,553.86	2,366.00	2,300.11	22.99	11.81	28.95	1,162.91	5,792.63	5,111.10	5,084.21	26.90	190.018		
3,900.00	3,640.12	2,434.32	2,365.85	23.97	12.20	29.04	1,174.40	5,807.27	5,088.22	5,060.38	27.84	182.793		
4,000.00	3,726.38	2,510.37	2,438.94	24.95	12.64	29.13	1,187.53	5,823.65	5,065.61	5,036.79	28.82	175.797		
4,100.00	3,812.65	2,612.40	2,536.94	25.93	13.23	29.26	1,204.94	5,846.05	5,043.40	5,013.48	29.92	168.571		
4,200.00	3,898.91	2,811.34	2,728.74	26.91	14.37	29.51	1,238.91	5,886.51	5,019.22	4,987.76	31.46	159.568		
4,300.00	3,985.18	2,926.00	2,839.29	27.90	15.02	29.65	1,259.29	5,909.05	4,994.92	4,962.30	32.62	153.121		
4,400.00	4,071.44	2,987.60	2,898.58	28.88	15.38	29.72	1,271.04	5,920.95	4,970.49	4,936.92	33.57	148.074		
4,500.00	4,157.70	4,500.00	2,998.22	29.87	24.35	29.81	1,292.23	5,941.27	4,946.46	4,904.87	41.59	118.922		
4,600.00	4,243.97	3,182.74	3,085.85	30.86	16.53	29.90	1,310.62	5,958.88	4,922.15	4,886.34	35.80	137.483		
4,700.00	4,330.23	3,280.00	3,179.33	31.85	17.10	30.00	1,329.35	5,978.17	4,898.25	4,861.33	36.92	132.674		
4,800.00	4,416.49	3,354.09	3,250.60	32.84	17.54	30.08	1,343.22	5,992.91	4,874.38	4,836.44	37.94	128.482		
4,900.00	4,502.76	3,432.79	3,326.12	33.84	18.00	30.17	1,358.40	6,009.01	4,851.10	4,812.12	38.98	124.444		
5,000.00	4,589.02	3,536.83	3,425.87	34.83	18.62	30.28	1,379.00	6,030.20	4,827.85	4,787.70	40.15	120.255		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	3,633.15	3,518.15	35.82	19.20	30.37	1,398.58	6,049.68	4,804.53	4,763.25	41.28	116.385		
5,200.00	4,761.55	3,796.92	3,675.51	36.82	20.16	30.55	1,430.64	6,081.77	4,780.47	4,737.76	42.71	111.933		
5,300.00	4,847.81	3,863.00	3,739.08	37.82	20.55	30.62	1,443.25	6,094.68	4,756.29	4,712.58	43.71	108.805		
5,400.00	4,934.08	3,931.94	3,805.28	38.81	20.95	30.70	1,456.59	6,108.55	4,732.73	4,688.00	44.74	105.789		
5,500.00	5,020.34	4,024.15	3,893.80	39.81	21.50	30.80	1,474.39	6,127.25	4,709.41	4,663.54	45.86	102.683		
5,600.00	5,106.60	4,169.72	4,034.01	40.81	22.34	30.99	1,500.81	6,156.12	4,685.46	4,638.24	47.21	99.238		
5,700.00	5,192.87	4,226.26	4,088.46	41.81	22.67	31.07	1,511.13	6,167.33	4,661.61	4,613.41	48.20	96.723		
5,800.00	5,279.13	4,395.16	4,251.04	42.81	23.65	31.27	1,543.63	6,199.50	4,636.87	4,587.22	49.65	93.392		
5,900.00	5,365.40	4,494.08	4,346.22	43.81	24.22	31.38	1,563.28	6,217.93	4,612.06	4,561.24	50.82	90.758		
6,000.00	5,451.66	4,585.59	4,434.28	44.81	24.75	31.48	1,581.56	6,234.82	4,587.11	4,535.15	51.96	88.279		
6,100.00	5,537.92	4,646.44	4,685.83	45.81	26.23	31.76	1,634.57	6,278.92	4,560.92	4,507.17	53.75	84.860		
6,200.00	5,624.19	4,960.42	4,796.36	46.81	26.84	31.89	1,656.75	6,295.67	4,532.26	4,477.30	54.96	82.466		
6,300.00	5,710.45	5,253.85	5,082.96	47.81	28.30	32.34	1,707.14	6,332.61	4,501.10	4,444.41	56.70	79.389		
6,400.00	5,796.72	5,950.68	5,776.21	48.81	30.60	34.56	1,746.13	6,372.91	4,468.36	4,409.72	58.65	76.191		
6,500.00	5,882.98	6,053.60	5,879.12	49.81	30.83	34.98	1,746.56	6,371.22	4,423.47	4,363.79	59.68	74.121		
6,600.00	5,969.24	6,148.45	5,973.95	50.82	31.04	35.37	1,747.00	6,369.35	4,378.43	4,317.71	60.72	72.110		
6,700.00	6,055.51	6,232.85	6,058.33	51.82	31.23	35.73	1,747.35	6,367.62	4,333.49	4,271.72	61.77	70.156		
6,800.00	6,141.77	6,317.07	6,142.53	52.82	31.41	36.10	1,747.56	6,365.98	4,288.77	4,225.94	62.83	68.259		
6,900.00	6,228.03	6,409.91	6,235.36	53.83	31.62	36.52	1,747.16	6,364.06	4,244.08	4,180.17	63.91	66.411		
7,000.00	6,314.30	6,484.34	6,309.76	54.83	31.78	36.87	1,746.49	6,362.60	4,199.64	4,134.65	64.99	64.616		
7,100.00	6,400.56	6,546.53	6,371.94	55.83	31.92	37.16	1,746.09	6,361.63	4,155.74	4,089.64	66.10	62.873		
7,200.00	6,486.83	6,622.09	6,447.50	56.84	32.10	37.52	1,746.20	6,360.80	4,112.43	4,045.21	67.21	61.184		
7,300.00	6,573.09	6,704.24	6,529.64	57.84	32.30	37.91	1,746.55	6,359.91	4,069.34	4,000.99	68.35	59.538		
7,400.00	6,659.35	6,777.09	6,602.50	58.84	32.47	38.26	1,746.92	6,359.31	4,026.66	3,957.16	69.50	57.941		
7,500.00	6,745.62	6,851.94	6,677.34	59.85	32.66	38.63	1,747.14	6,358.93	3,984.44	3,913.78	70.66	56.390		
7,600.00	6,831.88	6,928.52	6,753.91	60.85	32.85	39.01	1,747.09	6,358.74	3,942.64	3,870.81	71.83	54.885		
7,700.00	6,918.14	7,008.45	6,833.85	61.86	33.04	39.43	1,746.78	6,358.71	3,901.25	3,828.22	73.03	53.422		
7,800.00	7,004.41	7,090.68	6,916.07	62.86	33.23	39.87	1,746.18	6,358.79	3,860.19	3,785.95	74.24	51.999		
7,900.00	7,090.67	7,172.39	6,997.78	63.87	33.43	40.32	1,745.26	6,358.93	3,819.44	3,743.98	75.46	50.614		
8,000.00	7,176.94	7,256.24	7,081.62	64.87	33.63	40.79	1,744.17	6,359.19	3,779.06	3,702.35	76.71	49.266		
8,027.52	7,200.68	7,282.85	7,108.23	65.15	33.70	40.94	1,743.84	6,359.26	3,767.98	3,690.93	77.05	48.901		
8,050.00	7,220.18	7,304.71	7,130.09	65.37	33.75	36.67	1,743.58	6,359.30	3,758.87	3,681.54	77.33	48.610		
8,100.00	7,264.25	7,351.44	7,176.82	65.85	33.86	26.11	1,743.08	6,359.35	3,738.19	3,660.33	77.87	48.008		
8,150.00	7,308.99	7,396.46	7,221.84	66.28	33.97	14.24	1,742.53	6,359.38	3,717.09	3,638.79	78.30	47.470		
8,200.00	7,354.07	7,439.92	7,265.29	66.67	34.08	1.57	1,741.93	6,359.41	3,695.72	3,617.09	78.63	46.999		
8,250.00	7,399.14	7,481.18	7,306.54	67.02	34.18	-11.17	1,741.26	6,359.48	3,674.26	3,595.41	78.85	46.596		
8,300.00	7,443.85	7,521.97	7,347.33	67.32	34.28	-23.23	1,740.52	6,359.58	3,652.89	3,573.93	78.96	46.261		
8,350.00	7,487.88	7,561.04	7,386.39	67.56	34.37	-34.14	1,739.79	6,359.73	3,631.80	3,552.83	78.96	45.995		
8,400.00	7,530.87	7,599.32	7,424.67	67.75	34.46	-43.71	1,739.08	6,359.93	3,611.18	3,532.33	78.85	45.797		
8,450.00	7,572.51	7,637.93	7,463.26	67.90	34.56	-51.99	1,738.39	6,360.18	3,591.24	3,512.60	78.64	45.666		
8,500.00	7,612.48	7,675.49	7,500.82	68.00	34.65	-59.11	1,737.72	6,360.46	3,572.16	3,493.83	78.33	45.602 SF		
8,550.00	7,650.47	7,709.63	7,534.95	68.05	34.74	-65.19	1,737.13	6,360.74	3,554.17	3,476.24	77.93	45.605		
8,600.00	7,686.20	7,737.37	7,562.69	68.06	34.81	-70.34	1,736.66	6,361.02	3,537.53	3,460.07	77.45	45.673		
8,650.00	7,719.39	7,763.24	7,588.55	68.03	34.88	-74.72	1,736.24	6,361.35	3,522.45	3,445.54	76.90	45.805		
8,700.00	7,749.79	7,787.03	7,612.34	67.97	34.94	-78.41	1,735.86	6,361.70	3,509.12	3,432.84	76.29	45.999		
8,750.00	7,777.17	7,813.41	7,638.71	67.87	35.00	-81.55	1,735.45	6,362.14	3,497.73	3,422.11	75.62	46.253		
8,800.00	7,801.32	7,839.99	7,665.28	67.74	35.07	-84.17	1,734.99	6,362.57	3,488.39	3,413.47	74.92	46.563		
8,850.00	7,822.06	7,863.09	7,688.38	67.59	35.13	-86.26	1,734.55	6,362.93	3,481.26	3,407.07	74.19	46.923		
8,900.00	7,839.23	7,882.52	7,707.80	67.41	35.18	-87.83	1,734.16	6,363.24	3,476.47	3,403.02	73.45	47.330		
8,950.00	7,852.69	7,898.11	7,723.38	67.22	35.22	-88.92	1,733.83	6,363.47	3,474.13	3,401.42	72.71	47.777 ES		
8,971.31	7,857.28	7,901.86	7,727.13	67.13	35.23	-89.21	1,733.75	6,363.53	3,473.90	3,401.49	72.41	47.977 CC		
9,000.00	7,862.35	7,907.25	7,732.52	67.00	35.25	-89.48	1,733.64	6,363.62	3,474.32	3,402.33	72.00	48.257		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,913.73	7,738.99	66.78	35.26	-89.59	1,733.51	6,363.72	3,477.07	3,405.77	71.30	48.765		
9,098.65	7,870.00	7,916.43	7,741.70	66.55	35.27	-89.25	1,733.45	6,363.76	3,482.20	3,411.54	70.66	49.280		
9,100.00	7,870.00	7,916.45	7,741.72	66.55	35.27	-89.25	1,733.45	6,363.76	3,482.37	3,411.73	70.64	49.294		
9,200.00	7,870.00	7,918.36	7,743.62	66.09	35.28	-89.28	1,733.41	6,363.79	3,496.82	3,427.34	69.48	50.327		
9,300.00	7,870.00	7,920.25	7,745.51	65.65	35.28	-89.31	1,733.38	6,363.82	3,514.05	3,445.51	68.55	51.266		
9,400.00	7,870.00	7,922.13	7,747.39	65.24	35.29	-89.34	1,733.34	6,363.85	3,534.03	3,466.19	67.85	52.089		
9,500.00	7,870.00	7,923.99	7,749.26	64.85	35.29	-89.37	1,733.30	6,363.88	3,556.71	3,489.32	67.39	52.778		
9,600.00	7,870.00	7,925.85	7,751.11	64.48	35.29	-89.40	1,733.26	6,363.91	3,582.04	3,514.86	67.17	53.325		
9,700.00	7,870.00	7,927.69	7,752.95	64.13	35.30	-89.43	1,733.23	6,363.94	3,609.96	3,542.77	67.19	53.728		
9,800.00	7,870.00	7,929.52	7,754.78	63.80	35.30	-89.47	1,733.19	6,363.97	3,640.41	3,572.98	67.42	53.992		
9,900.00	7,870.00	7,931.34	7,756.60	63.50	35.31	-89.50	1,733.15	6,364.00	3,673.33	3,605.47	67.86	54.131		
10,000.00	7,870.00	7,933.15	7,758.41	63.22	35.31	-89.53	1,733.12	6,364.03	3,708.65	3,640.18	68.48	54.160		
10,100.00	7,870.00	7,934.94	7,760.20	62.96	35.32	-89.56	1,733.08	6,364.05	3,746.31	3,677.07	69.25	54.100		
10,200.00	7,870.00	7,936.73	7,761.99	62.72	35.32	-89.58	1,733.05	6,364.08	3,786.24	3,716.09	70.16	53.970		
10,300.00	7,870.00	7,938.50	7,763.76	62.50	35.33	-89.61	1,733.01	6,364.11	3,828.36	3,757.19	71.17	53.788		
10,400.00	7,870.00	7,940.26	7,765.52	62.31	35.33	-89.64	1,732.98	6,364.14	3,872.61	3,800.32	72.29	53.573		
10,500.00	7,870.00	7,942.02	7,767.27	62.15	35.34	-89.67	1,732.95	6,364.17	3,918.91	3,845.44	73.47	53.340		
10,600.00	7,870.00	7,943.76	7,769.01	62.01	35.34	-89.70	1,732.91	6,364.20	3,967.19	3,892.48	74.71	53.100		
10,700.00	7,870.00	7,945.49	7,770.74	61.90	35.35	-89.73	1,732.88	6,364.22	4,017.37	3,941.38	75.99	52.865		
10,800.00	7,870.00	7,947.21	7,772.46	61.82	35.35	-89.76	1,732.85	6,364.25	4,069.40	3,992.09	77.31	52.641		
10,900.00	7,870.00	7,948.92	7,774.17	61.78	35.35	-89.79	1,732.81	6,364.28	4,123.19	4,044.56	78.63	52.435		
11,000.00	7,870.00	7,950.62	7,775.87	61.77	35.36	-89.82	1,732.78	6,364.31	4,178.69	4,098.71	79.97	52.252		
11,100.00	7,870.00	7,952.30	7,777.56	61.81	35.36	-89.84	1,732.75	6,364.33	4,235.81	4,154.50	81.31	52.094		
11,200.00	7,870.00	7,953.98	7,779.24	61.90	35.37	-89.87	1,732.72	6,364.36	4,294.51	4,211.86	82.64	51.964		
11,300.00	7,870.00	7,955.65	7,780.90	62.03	35.37	-89.90	1,732.68	6,364.39	4,354.71	4,270.74	83.96	51.863		
11,400.00	7,870.00	7,957.31	7,782.56	62.23	35.38	-89.93	1,732.65	6,364.41	4,416.35	4,331.08	85.27	51.792		
11,500.00	7,870.00	7,958.96	7,784.21	62.50	35.38	-89.95	1,732.62	6,364.44	4,479.38	4,392.82	86.56	51.750		
11,600.00	7,870.00	7,960.59	7,785.85	62.84	35.38	-89.98	1,732.59	6,364.47	4,543.73	4,455.91	87.82	51.737		
11,700.00	7,870.00	7,962.22	7,787.48	63.25	35.39	-90.01	1,732.56	6,364.49	4,609.35	4,520.29	89.06	51.753		
11,800.00	7,870.00	7,963.84	7,789.09	63.76	35.39	-90.03	1,732.53	6,364.52	4,676.19	4,585.91	90.28	51.797		
11,900.00	7,870.00	7,965.45	7,790.70	64.34	35.40	-90.06	1,732.50	6,364.55	4,744.20	4,652.73	91.47	51.868		
12,000.00	7,870.00	7,967.05	7,792.30	65.01	35.40	-90.09	1,732.47	6,364.57	4,813.32	4,720.69	92.63	51.965		
12,100.00	7,870.00	7,968.64	7,793.89	65.77	35.41	-90.11	1,732.44	6,364.60	4,883.51	4,789.76	93.76	52.086		
12,200.00	7,870.00	7,970.22	7,795.47	66.61	35.41	-90.14	1,732.41	6,364.62	4,954.73	4,859.87	94.86	52.232		
12,300.00	7,870.00	7,971.79	7,797.04	67.51	35.41	-90.17	1,732.38	6,364.65	5,026.92	4,930.99	95.93	52.400		
12,400.00	7,870.00	7,973.35	7,798.60	68.49	35.42	-90.19	1,732.35	6,364.68	5,100.06	5,003.08	96.98	52.590		
12,500.00	7,870.00	7,974.91	7,800.16	69.52	35.42	-90.22	1,732.33	6,364.70	5,174.09	5,076.09	97.99	52.801		
12,600.00	7,870.00	7,976.45	7,801.70	70.61	35.43	-90.24	1,732.30	6,364.73	5,248.98	5,150.00	98.98	53.031		
12,700.00	7,870.00	7,977.99	7,803.23	71.75	35.43	-90.27	1,732.27	6,364.75	5,324.69	5,224.76	99.94	53.281		
12,800.00	7,870.00	7,979.51	7,804.76	72.93	35.43	-90.29	1,732.24	6,364.78	5,401.20	5,300.33	100.87	53.547		
12,900.00	7,870.00	7,981.03	7,806.28	74.14	35.44	-90.32	1,732.22	6,364.80	5,478.46	5,376.69	101.77	53.831		
13,000.00	7,870.00	7,982.54	7,807.79	75.39	35.44	-90.34	1,732.19	6,364.83	5,556.45	5,453.80	102.65	54.131		
13,100.00	7,870.00	7,984.19	7,809.44	76.67	35.45	-90.37	1,732.16	6,364.85	5,635.13	5,531.63	103.50	54.446		
13,200.00	7,870.00	7,985.92	7,811.17	77.98	35.45	-90.40	1,732.13	6,364.88	5,714.48	5,610.15	104.33	54.775		
13,300.00	7,870.00	7,987.66	7,812.91	79.31	35.45	-90.43	1,732.10	6,364.91	5,794.47	5,689.34	105.13	55.118		
13,400.00	7,870.00	7,989.41	7,814.66	80.67	35.46	-90.46	1,732.06	6,364.94	5,875.07	5,769.16	105.91	55.474		
13,500.00	7,870.00	7,991.17	7,816.42	82.04	35.46	-90.49	1,732.03	6,364.97	5,956.25	5,849.59	106.66	55.842		
13,600.00	7,870.00	7,992.94	7,818.18	83.43	35.47	-90.52	1,732.00	6,365.00	6,038.00	5,930.61	107.40	56.222		
13,700.00	7,870.00	7,994.72	7,819.96	84.84	35.47	-90.55	1,731.97	6,365.03	6,120.30	6,012.19	108.11	56.613		
13,800.00	7,870.00	7,996.51	7,821.75	86.27	35.48	-90.58	1,731.93	6,365.06	6,203.11	6,094.31	108.80	57.015		
13,900.00	7,870.00	7,998.31	7,823.55	87.71	35.48	-90.61	1,731.90	6,365.09	6,286.42	6,176.95	109.47	57.427		
14,000.00	7,870.00	8,000.12	7,825.36	89.16	35.49	-90.64	1,731.87	6,365.13	6,370.21	6,260.09	110.12	57.848		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,870.00	8,001.95	7,827.19	90.63	35.49	-90.67	1,731.83	6,365.16	6,454.47	6,343.71	110.75	58.279		
14,200.00	7,870.00	8,003.78	7,829.02	92.10	35.50	-90.70	1,731.80	6,365.19	6,539.16	6,427.80	111.37	58.718		
14,300.00	7,870.00	8,005.62	7,830.86	93.59	35.50	-90.73	1,731.77	6,365.22	6,624.28	6,512.32	111.96	59.165		
14,400.00	7,870.00	8,007.48	7,832.71	95.09	35.51	-90.76	1,731.73	6,365.25	6,709.82	6,597.27	112.54	59.620		
14,500.00	7,870.00	8,009.34	7,834.58	96.60	35.51	-90.79	1,731.70	6,365.29	6,795.74	6,682.64	113.11	60.083		
14,600.00	7,870.00	8,011.22	7,836.45	98.11	35.52	-90.82	1,731.66	6,365.32	6,882.05	6,768.39	113.65	60.553		
14,700.00	7,870.00	8,013.10	7,838.34	99.64	35.52	-90.85	1,731.62	6,365.36	6,968.72	6,854.53	114.19	61.029		
14,800.00	7,870.00	8,015.00	7,840.24	101.17	35.53	-90.88	1,731.59	6,365.39	7,055.74	6,941.04	114.70	61.512		
14,900.00	7,870.00	8,016.91	7,842.15	102.71	35.53	-90.91	1,731.55	6,365.42	7,143.11	7,027.90	115.21	62.002		
15,000.00	7,870.00	8,018.83	7,844.07	104.26	35.54	-90.95	1,731.52	6,365.46	7,230.80	7,115.10	115.70	62.497		
15,100.00	7,870.00	8,020.77	7,846.00	105.82	35.54	-90.98	1,731.48	6,365.50	7,318.80	7,202.63	116.18	62.998		
15,200.00	7,870.00	8,022.71	7,847.95	107.38	35.55	-91.01	1,731.44	6,365.53	7,407.11	7,290.47	116.64	63.504		
15,300.00	7,870.00	8,024.67	7,849.90	108.95	35.55	-91.04	1,731.40	6,365.57	7,495.71	7,378.62	117.09	64.015		
15,400.00	7,870.00	8,026.64	7,851.87	110.52	35.56	-91.08	1,731.37	6,365.60	7,584.60	7,467.07	117.53	64.532		
15,500.00	7,870.00	8,028.62	7,853.85	112.10	35.56	-91.11	1,731.33	6,365.64	7,673.76	7,555.80	117.96	65.053		
15,600.00	7,870.00	8,030.61	7,855.84	113.69	35.57	-91.14	1,731.29	6,365.68	7,763.18	7,644.80	118.38	65.578		
15,700.00	7,870.00	8,032.62	7,857.85	115.28	35.57	-91.17	1,731.25	6,365.72	7,852.86	7,734.07	118.79	66.108		
15,800.00	7,870.00	8,034.63	7,859.86	116.87	35.58	-91.21	1,731.21	6,365.76	7,942.78	7,823.59	119.19	66.642		
15,900.00	7,870.00	8,036.66	7,861.89	118.47	35.58	-91.24	1,731.17	6,365.79	8,032.94	7,913.37	119.57	67.180		
16,000.00	7,870.00	8,038.71	7,863.93	120.07	35.59	-91.28	1,731.13	6,365.83	8,123.33	8,003.38	119.95	67.722		
16,100.00	7,870.00	8,040.76	7,865.99	121.68	35.59	-91.31	1,731.09	6,365.87	8,213.94	8,093.62	120.32	68.267		
16,200.00	7,870.00	8,042.83	7,868.05	123.30	35.60	-91.34	1,731.05	6,365.91	8,304.77	8,184.09	120.68	68.816		
16,300.00	7,870.00	8,044.91	7,870.13	124.91	35.60	-91.38	1,731.01	6,365.95	8,395.81	8,274.77	121.03	69.368		
16,400.00	7,870.00	8,047.00	7,872.23	126.53	35.61	-91.41	1,730.97	6,366.00	8,487.04	8,365.67	121.38	69.923		
16,500.00	7,870.00	8,049.11	7,874.33	128.16	35.62	-91.45	1,730.93	6,366.04	8,578.47	8,456.76	121.71	70.482		
16,600.00	7,870.00	8,051.23	7,876.45	129.79	35.62	-91.48	1,730.88	6,366.08	8,670.10	8,548.06	122.04	71.043		
16,700.00	7,870.00	8,053.37	7,878.59	131.42	35.63	-91.52	1,730.84	6,366.12	8,761.90	8,639.54	122.36	71.607		
16,800.00	7,870.00	8,055.51	7,880.73	133.05	35.63	-91.55	1,730.80	6,366.17	8,853.88	8,731.20	122.67	72.174		
16,900.00	7,870.00	8,057.67	7,882.89	134.69	35.64	-91.59	1,730.75	6,366.21	8,946.03	8,823.05	122.98	72.743		
17,000.00	7,870.00	8,059.85	7,885.07	136.33	35.64	-91.63	1,730.71	6,366.25	9,038.35	8,915.07	123.28	73.315		
17,100.00	7,870.00	8,062.04	7,887.26	137.97	35.65	-91.66	1,730.67	6,366.30	9,130.83	9,007.26	123.57	73.889		
17,200.00	7,870.00	8,064.24	7,889.46	139.62	35.66	-91.70	1,730.62	6,366.34	9,223.47	9,099.60	123.86	74.466		
17,300.00	7,870.00	8,066.46	7,891.67	141.27	35.66	-91.74	1,730.58	6,366.39	9,316.25	9,192.11	124.14	75.045		
17,400.00	7,870.00	8,068.69	7,893.91	142.92	35.67	-91.77	1,730.53	6,366.44	9,409.19	9,284.77	124.42	75.626		
17,500.00	7,870.00	8,070.94	7,896.15	144.58	35.67	-91.81	1,730.48	6,366.48	9,502.27	9,377.58	124.69	76.208		
17,600.00	7,870.00	8,073.20	7,898.41	146.23	35.68	-91.85	1,730.44	6,366.53	9,595.48	9,470.53	124.95	76.793		
17,700.00	7,870.00	8,075.47	7,900.68	147.89	35.68	-91.88	1,730.39	6,366.58	9,688.84	9,563.62	125.21	77.380		
17,800.00	7,870.00	8,077.76	7,902.97	149.56	35.69	-91.92	1,730.34	6,366.63	9,782.32	9,656.85	125.47	77.968		
17,900.00	7,870.00	8,080.07	7,905.28	151.22	35.70	-91.96	1,730.29	6,366.68	9,875.93	9,750.21	125.71	78.559		
18,000.00	7,870.00	8,082.39	7,907.60	152.89	35.70	-92.00	1,730.25	6,366.73	9,969.66	9,843.70	125.96	79.150		

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.99	765.24	5,440.84	5,495.01					
100.00	100.00	36.59	36.59	0.13	0.05	81.99	765.27	5,440.78	5,494.36	5,494.18	0.18	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	81.99	765.43	5,440.20	5,493.82	5,492.94	0.88	6,244.497		
269.09	269.09	187.09	187.09	0.74	0.56	81.99	765.17	5,440.07	5,493.62	5,492.32	1.30	4,233.024		
300.00	300.00	204.65	204.65	0.85	0.62	82.00	764.94	5,440.12	5,493.66	5,492.19	1.47	3,738.300		
400.00	400.00	229.00	228.99	1.21	0.70	82.00	764.50	5,440.29	5,494.46	5,492.55	1.91	2,871.006		
500.00	500.00	274.20	274.17	1.57	0.86	82.01	763.37	5,441.17	5,496.34	5,493.91	2.43	2,261.430		
600.00	600.00	320.00	319.90	1.93	1.02	82.03	761.84	5,443.07	5,499.70	5,496.75	2.95	1,866.345		
700.00	700.00	320.00	319.90	2.29	1.02	82.03	761.84	5,443.07	5,504.21	5,500.90	3.31	1,664.851		
800.00	800.00	368.18	367.94	2.64	1.20	82.06	759.74	5,446.05	5,509.92	5,506.08	3.84	1,436.271		
900.00	900.00	411.00	410.56	3.00	1.36	82.09	757.38	5,449.44	5,516.88	5,512.54	4.35	1,269.580		
1,000.00	1,000.00	439.85	439.23	3.36	1.46	82.11	755.54	5,452.09	5,524.98	5,520.17	4.81	1,149.039		
1,100.00	1,099.98	502.00	500.85	3.72	1.70	27.48	750.87	5,458.71	5,532.78	5,527.39	5.39	1,026.499		
1,200.00	1,199.84	502.00	500.85	4.07	1.70	27.43	750.87	5,458.71	5,538.40	5,532.66	5.73	966.182		
1,300.00	1,299.45	545.95	544.31	4.43	1.88	27.46	747.28	5,464.18	5,542.17	5,535.92	6.25	887.044		
1,400.00	1,398.70	593.00	590.73	4.80	2.08	27.52	743.51	5,470.86	5,544.20	5,537.42	6.78	817.900		
1,500.00	1,497.47	593.00	590.73	5.18	2.08	27.51	743.51	5,470.86	5,544.31	5,537.19	7.13	778.028		
1,600.00	1,595.62	643.37	640.29	5.57	2.30	27.63	739.47	5,478.90	5,542.46	5,534.78	7.68	721.339		
1,700.00	1,693.06	684.00	680.14	6.00	2.48	27.75	736.12	5,486.04	5,538.82	5,530.61	8.21	674.788		
1,800.00	1,789.64	716.65	712.12	6.45	2.63	27.88	733.58	5,492.12	5,533.24	5,524.53	8.71	635.283		
1,900.00	1,885.27	776.00	770.21	6.94	2.91	28.09	729.86	5,503.71	5,525.72	5,516.38	9.33	592.050		
2,000.00	1,979.82	806.35	799.87	7.47	3.05	28.26	728.23	5,509.89	5,516.03	5,506.18	9.85	559.986		
2,100.00	2,073.17	870.00	861.98	8.05	3.36	28.54	724.58	5,523.36	5,504.29	5,493.77	10.52	523.193		
2,200.00	2,165.21	928.90	919.37	8.67	3.66	28.84	721.24	5,536.18	5,490.22	5,479.03	11.20	490.381		
2,300.00	2,255.84	1,022.77	1,010.85	9.35	4.13	29.29	716.59	5,556.71	5,473.51	5,461.48	12.03	454.984		
2,400.00	2,344.94	1,122.41	1,108.02	10.09	4.63	29.80	712.25	5,578.33	5,453.84	5,440.93	12.92	422.208		
2,500.00	2,432.39	1,213.70	1,197.05	10.89	5.09	30.33	708.24	5,598.10	5,431.33	5,417.53	13.80	393.677		
2,519.29	2,449.07	1,230.66	1,213.58	11.05	5.18	30.44	707.36	5,601.79	5,426.68	5,412.71	13.97	388.504		
2,600.00	2,518.69	1,285.22	1,266.72	11.74	5.47	30.64	704.21	5,613.76	5,407.16	5,392.54	14.62	369.845		
2,700.00	2,604.95	1,349.79	1,329.48	12.62	5.81	30.89	699.77	5,628.28	5,383.61	5,368.18	15.43	348.821		
2,800.00	2,691.22	1,433.09	1,410.35	13.52	6.26	31.21	693.68	5,647.27	5,360.54	5,344.19	16.35	327.860		
2,900.00	2,777.48	1,492.97	1,468.45	14.43	6.58	31.44	689.38	5,661.14	5,338.03	5,320.85	17.18	310.740		
3,000.00	2,863.75	1,553.13	1,526.75	15.35	6.92	31.68	685.21	5,675.40	5,316.27	5,298.25	18.02	294.985		
3,100.00	2,950.01	1,620.00	1,591.43	16.28	7.29	31.94	680.42	5,691.66	5,295.28	5,276.37	18.91	280.035		
3,200.00	3,036.27	1,765.86	1,732.73	17.22	8.10	32.51	670.32	5,726.39	5,273.98	5,253.82	20.16	261.585		
3,300.00	3,122.54	1,852.25	1,816.52	18.17	8.58	32.85	664.67	5,746.66	5,252.68	5,231.53	21.16	248.270		
3,400.00	3,208.80	1,968.23	1,929.07	19.13	9.21	33.31	657.85	5,773.81	5,231.61	5,209.32	22.29	234.704		
3,500.00	3,295.07	2,067.84	2,025.92	20.09	9.75	33.68	653.07	5,796.61	5,210.22	5,186.87	23.36	223.082		
3,600.00	3,381.33	2,164.87	2,120.27	21.05	10.28	34.06	648.48	5,818.78	5,189.04	5,164.62	24.42	212.497		
3,700.00	3,467.59	2,247.37	2,200.44	22.02	10.73	34.38	643.73	5,837.64	5,168.06	5,142.63	25.44	203.182		
3,800.00	3,553.86	2,350.54	2,300.60	22.99	11.29	34.81	636.39	5,861.29	5,147.40	5,120.84	26.56	193.813		
3,900.00	3,640.12	2,477.08	2,423.59	23.97	11.98	35.34	627.39	5,889.66	5,126.50	5,098.71	27.80	184.437		
4,000.00	3,726.38	2,516.86	2,462.21	24.95	12.20	35.51	624.51	5,898.73	5,106.08	5,077.43	28.66	178.190		
4,100.00	3,812.65	2,582.68	2,526.03	25.93	12.57	35.78	619.84	5,914.16	5,086.61	5,056.97	29.64	171.622		
4,200.00	3,898.91	2,835.00	2,771.74	26.91	13.92	36.83	605.11	5,969.51	5,065.84	5,034.39	31.44	161.116		
4,300.00	3,985.18	2,880.96	2,816.64	27.90	14.16	37.02	602.41	5,978.91	5,044.27	5,011.92	32.36	155.899		
4,400.00	4,071.44	2,928.00	2,862.38	28.88	14.41	37.22	599.04	5,989.36	5,024.21	4,990.93	33.28	150.963		
4,500.00	4,157.70	2,969.05	2,902.21	29.87	14.64	37.40	596.04	5,998.84	5,005.24	4,971.05	34.19	146.409		
4,600.00	4,243.97	3,068.14	2,998.43	30.86	15.19	37.82	590.24	6,021.78	4,986.74	4,951.38	35.36	141.032		
4,700.00	4,330.23	3,168.45	3,095.91	31.85	15.73	38.24	584.83	6,044.80	4,968.28	4,931.74	36.54	135.960		
4,800.00	4,416.49	3,309.41	3,233.00	32.84	16.50	38.85	576.37	6,076.52	4,949.76	4,911.85	37.92	130.536		
4,900.00	4,502.76	3,373.66	3,295.55	33.84	16.85	39.13	573.01	6,090.82	4,931.15	4,892.19	38.96	126.583		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	3,441.95	3,361.96	34.83	17.22	39.42	569.61	6,106.35	4,913.22	4,873.20	40.02	122.774		
5,100.00	4,675.29	3,514.69	3,432.60	35.82	17.62	39.73	565.18	6,123.15	4,895.98	4,854.87	41.11	119.086		
5,200.00	4,761.55	3,616.03	3,530.89	36.82	18.18	40.20	557.51	6,146.58	4,879.21	4,836.85	42.36	115.194		
5,300.00	4,847.81	3,788.66	3,698.82	37.82	19.12	40.99	545.61	6,184.75	4,861.69	4,817.75	43.93	110.657		
5,400.00	4,934.08	3,915.21	3,822.35	38.81	19.78	41.55	538.55	6,211.28	4,843.21	4,797.92	45.29	106.931		
5,500.00	5,020.34	3,996.11	3,901.38	39.81	20.20	41.90	535.32	6,228.27	4,824.92	4,778.47	46.45	103.873		
5,600.00	5,106.60	4,066.99	3,970.56	40.81	20.57	42.22	531.94	6,243.35	4,807.24	4,759.66	47.57	101.048		
5,700.00	5,192.87	5,233.68	5,126.43	41.81	25.09	47.59	501.31	6,370.07	4,782.95	4,730.84	52.11	91.792		
5,800.00	5,279.13	5,323.60	5,216.35	42.81	25.31	48.02	501.79	6,369.81	4,745.94	4,692.69	53.25	89.132		
5,900.00	5,365.40	5,425.25	5,317.99	43.81	25.55	48.51	502.80	6,369.42	4,709.05	4,654.64	54.41	86.544		
6,000.00	5,451.66	5,520.43	5,413.16	44.81	25.78	48.97	503.92	6,368.75	4,672.11	4,616.53	55.58	84.062		
6,100.00	5,537.92	5,609.39	5,502.11	45.81	26.00	49.41	504.95	6,368.06	4,635.35	4,578.60	56.75	81.681		
6,200.00	5,624.19	5,706.24	5,598.95	46.81	26.23	49.90	505.93	6,367.16	4,598.77	4,540.82	57.94	79.369		
6,300.00	5,710.45	5,809.05	5,701.75	47.81	26.48	50.43	506.61	6,365.80	4,562.17	4,503.02	59.15	77.125		
6,400.00	5,796.72	5,913.64	5,806.32	48.81	26.73	50.98	507.35	6,364.01	4,525.52	4,465.14	60.38	74.954		
6,500.00	5,882.98	6,008.98	5,901.64	49.81	26.96	51.49	507.96	6,362.05	4,488.87	4,427.27	61.60	72.869		
6,600.00	5,969.24	6,089.25	5,981.88	50.82	27.15	51.93	508.46	6,360.34	4,452.48	4,389.66	62.82	70.872		
6,700.00	6,055.51	6,168.23	6,060.85	51.82	27.35	52.37	508.92	6,358.79	4,416.53	4,352.47	64.06	68.946		
6,800.00	6,141.77	6,253.24	6,145.85	52.82	27.55	52.84	509.08	6,357.13	4,380.99	4,315.68	65.31	67.077		
6,900.00	6,228.03	6,329.79	6,222.38	53.83	27.74	53.28	509.04	6,355.59	4,345.78	4,279.20	66.57	65.277		
7,000.00	6,314.30	6,394.00	6,286.58	54.83	27.91	53.66	508.84	6,354.57	4,311.30	4,243.46	67.83	63.557		
7,100.00	6,400.56	6,438.67	6,331.25	55.83	28.03	53.92	508.65	6,354.18	4,277.78	4,208.69	69.08	61.921		
7,200.00	6,486.83	6,488.00	6,380.58	56.84	28.16	54.21	508.47	6,354.23	4,245.40	4,175.05	70.35	60.347		
7,300.00	6,573.09	6,535.69	6,428.27	57.84	28.30	54.49	508.26	6,354.71	4,214.16	4,142.53	71.63	58.835		
7,400.00	6,659.35	6,606.41	6,498.97	58.84	28.51	54.91	507.80	6,356.01	4,184.01	4,111.06	72.96	57.350		
7,500.00	6,745.62	6,743.85	6,636.41	59.85	28.92	55.74	507.03	6,357.27	4,153.37	4,078.95	74.42	55.811		
7,600.00	6,831.88	6,844.18	6,736.73	60.85	29.21	56.36	506.45	6,357.62	4,122.77	4,046.95	75.82	54.375		
7,700.00	6,918.14	6,933.19	6,825.74	61.86	29.46	56.91	505.84	6,357.67	4,092.36	4,015.14	77.22	53.000		
7,800.00	7,004.41	7,006.57	6,899.12	62.86	29.67	57.38	505.27	6,357.77	4,062.45	3,983.85	78.60	51.688		
7,900.00	7,090.67	7,084.70	6,977.24	63.87	29.89	57.88	504.46	6,358.12	4,033.27	3,953.27	80.00	50.417		
8,000.00	7,176.94	7,174.04	7,066.58	64.87	30.15	58.47	503.55	6,358.48	4,004.49	3,923.06	81.43	49.175		
8,027.52	7,200.68	7,196.53	7,089.06	65.15	30.22	58.61	503.31	6,358.57	3,996.65	3,914.82	81.83	48.843		
8,050.00	7,220.18	7,215.00	7,107.53	65.37	30.27	54.72	503.11	6,358.64	3,990.08	3,907.94	82.14	48.576		
8,100.00	7,264.25	7,261.90	7,154.43	65.85	30.41	44.96	502.57	6,358.83	3,974.21	3,891.42	82.79	48.003		
8,150.00	7,308.99	7,314.73	7,207.26	66.28	30.56	33.81	501.89	6,358.92	3,956.59	3,873.22	83.37	47.459		
8,200.00	7,354.07	7,361.92	7,254.44	66.67	30.70	21.67	501.25	6,358.91	3,937.29	3,853.45	83.84	46.960		
8,250.00	7,399.14	7,406.76	7,299.28	67.02	30.83	9.29	500.67	6,358.91	3,916.53	3,832.31	84.22	46.503		
8,300.00	7,443.85	7,451.31	7,343.83	67.32	30.96	-2.64	500.13	6,358.93	3,894.42	3,809.92	84.50	46.088		
8,350.00	7,487.88	7,495.23	7,387.74	67.56	31.09	-13.65	499.64	6,358.96	3,871.15	3,786.47	84.68	45.716		
8,400.00	7,530.87	7,539.95	7,432.46	67.75	31.22	-23.59	499.18	6,359.01	3,846.88	3,762.12	84.76	45.384		
8,450.00	7,572.51	7,585.02	7,477.53	67.90	31.35	-32.50	498.78	6,359.05	3,821.81	3,737.06	84.75	45.095		
8,500.00	7,612.48	7,624.14	7,516.64	68.00	31.46	-40.49	498.50	6,359.08	3,796.15	3,711.51	84.64	44.852		
8,550.00	7,650.47	7,656.02	7,548.52	68.05	31.56	-47.64	498.29	6,359.16	3,770.23	3,685.81	84.42	44.658		
8,600.00	7,686.20	7,686.07	7,578.57	68.06	31.65	-54.11	498.09	6,359.28	3,744.32	3,660.20	84.12	44.510		
8,650.00	7,719.39	7,716.02	7,608.52	68.03	31.74	-59.99	497.90	6,359.45	3,718.66	3,634.92	83.74	44.406		
8,700.00	7,749.79	7,746.74	7,639.24	67.97	31.83	-65.36	497.71	6,359.64	3,693.50	3,610.21	83.29	44.347		
8,750.00	7,777.17	7,774.45	7,666.95	67.87	31.92	-70.19	497.53	6,359.81	3,669.08	3,586.32	82.76	44.336		
8,800.00	7,801.32	7,798.93	7,691.43	67.74	31.99	-74.50	497.38	6,359.96	3,645.69	3,563.53	82.16	44.373		
8,850.00	7,822.06	7,818.28	7,710.78	67.59	32.05	-78.27	497.26	6,360.08	3,623.60	3,542.10	81.51	44.458		
8,900.00	7,839.23	7,834.43	7,726.92	67.41	32.10	-81.51	497.16	6,360.19	3,603.07	3,522.27	80.80	44.591		
8,950.00	7,852.69	7,847.16	7,739.66	67.22	32.14	-84.26	497.08	6,360.28	3,584.33	3,504.26	80.06	44.770		
9,000.00	7,862.35	7,856.38	7,748.88	67.00	32.17	-86.50	497.02	6,360.35	3,567.58	3,488.29	79.29	44.994		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,862.02	7,754.52	66.78	32.19	-88.24	496.98	6,360.39	3,553.02	3,474.52	78.50	45.262		
9,098.65	7,870.00	7,864.03	7,756.53	66.55	32.19	-89.48	496.97	6,360.40	3,541.10	3,463.38	77.72	45.561		
9,100.00	7,870.00	7,864.04	7,756.54	66.55	32.19	-89.48	496.97	6,360.40	3,540.81	3,463.11	77.70	45.570		
9,200.00	7,870.00	7,864.62	7,757.12	66.09	32.19	-89.49	496.97	6,360.41	3,520.06	3,443.92	76.14	46.231		
9,300.00	7,870.00	7,865.21	7,757.70	65.65	32.20	-89.50	496.96	6,360.41	3,502.05	3,427.38	74.67	46.901		
9,400.00	7,870.00	7,865.79	7,758.29	65.24	32.20	-89.51	496.96	6,360.42	3,486.82	3,413.51	73.31	47.564		
9,500.00	7,870.00	7,866.37	7,758.87	64.85	32.20	-89.52	496.95	6,360.42	3,474.40	3,402.32	72.08	48.204		
9,600.00	7,870.00	7,866.95	7,759.45	64.48	32.20	-89.53	496.95	6,360.43	3,464.82	3,393.82	71.00	48.802		
9,700.00	7,870.00	7,867.54	7,760.04	64.13	32.20	-89.54	496.95	6,360.43	3,458.11	3,388.02	70.09	49.339		
9,800.00	7,870.00	7,868.12	7,760.62	63.80	32.20	-89.55	496.94	6,360.43	3,454.28	3,384.90	69.37	49.794		
9,882.36	7,870.00	7,868.60	7,761.10	63.55	32.21	-89.55	496.94	6,360.44	3,453.29	3,384.35	68.94	50.090 CC, ES		
9,900.00	7,870.00	7,868.71	7,761.20	63.50	32.21	-89.56	496.94	6,360.44	3,453.34	3,384.48	68.86	50.149		
10,000.00	7,870.00	7,869.29	7,761.79	63.22	32.21	-89.57	496.94	6,360.44	3,455.30	3,386.73	68.57	50.392		
10,100.00	7,870.00	7,869.87	7,762.37	62.96	32.21	-89.57	496.93	6,360.45	3,460.15	3,391.64	68.50	50.512		
10,200.00	7,870.00	7,870.46	7,762.95	62.72	32.21	-89.58	496.93	6,360.45	3,467.87	3,399.21	68.66	50.508		
10,300.00	7,870.00	7,871.04	7,763.54	62.50	32.21	-89.59	496.92	6,360.46	3,478.46	3,409.42	69.04	50.384		
10,400.00	7,870.00	7,871.62	7,764.12	62.31	32.22	-89.60	496.92	6,360.46	3,491.87	3,422.24	69.63	50.150		
10,500.00	7,870.00	7,872.21	7,764.71	62.15	32.22	-89.61	496.92	6,360.47	3,508.09	3,437.68	70.41	49.821		
10,600.00	7,870.00	7,872.79	7,765.29	62.01	32.22	-89.62	496.91	6,360.47	3,527.07	3,455.69	71.38	49.415		
10,700.00	7,870.00	7,873.38	7,765.87	61.90	32.22	-89.63	496.91	6,360.48	3,548.77	3,476.27	72.50	48.951		
10,800.00	7,870.00	7,873.96	7,766.46	61.82	32.22	-89.64	496.91	6,360.48	3,573.13	3,499.38	73.75	48.449		
10,900.00	7,870.00	7,874.55	7,767.04	61.78	32.22	-89.65	496.90	6,360.49	3,600.11	3,524.99	75.12	47.927		
11,000.00	7,870.00	7,875.13	7,767.63	61.77	32.23	-89.66	496.90	6,360.49	3,629.64	3,553.07	76.58	47.399		
11,100.00	7,870.00	7,875.72	7,768.21	61.81	32.23	-89.67	496.89	6,360.49	3,661.67	3,583.56	78.11	46.879		
11,200.00	7,870.00	7,876.30	7,768.80	61.90	32.23	-89.68	496.89	6,360.50	3,696.13	3,616.43	79.69	46.379		
11,300.00	7,870.00	7,876.89	7,769.38	62.03	32.23	-89.69	496.89	6,360.50	3,732.94	3,651.62	81.32	45.905		
11,400.00	7,870.00	7,877.47	7,769.97	62.23	32.23	-89.70	496.88	6,360.51	3,772.05	3,689.09	82.97	45.465		
11,500.00	7,870.00	7,878.06	7,770.55	62.50	32.23	-89.71	496.88	6,360.51	3,813.38	3,728.76	84.63	45.062		
11,600.00	7,870.00	7,878.64	7,771.14	62.84	32.24	-89.72	496.88	6,360.52	3,856.87	3,770.58	86.29	44.699		
11,700.00	7,870.00	7,879.23	7,771.72	63.25	32.24	-89.73	496.87	6,360.52	3,902.43	3,814.49	87.94	44.378		
11,800.00	7,870.00	7,879.81	7,772.31	63.76	32.24	-89.74	496.87	6,360.53	3,949.99	3,860.42	89.57	44.100		
11,900.00	7,870.00	7,880.40	7,772.90	64.34	32.24	-89.75	496.87	6,360.53	3,999.49	3,908.31	91.18	43.863		
12,000.00	7,870.00	7,880.99	7,773.48	65.01	32.24	-89.76	496.86	6,360.54	4,050.86	3,958.10	92.76	43.669		
12,100.00	7,870.00	7,881.57	7,774.07	65.77	32.25	-89.77	496.86	6,360.54	4,104.02	4,009.71	94.31	43.515		
12,200.00	7,870.00	7,882.16	7,774.65	66.61	32.25	-89.78	496.85	6,360.55	4,158.91	4,063.08	95.83	43.400		
12,300.00	7,870.00	7,882.74	7,775.24	67.51	32.25	-89.79	496.85	6,360.55	4,215.45	4,118.15	97.30	43.323		
12,400.00	7,870.00	7,883.33	7,775.83	68.49	32.25	-89.80	496.85	6,360.56	4,273.58	4,174.84	98.74	43.282		
12,500.00	7,870.00	7,883.92	7,776.41	69.52	32.25	-89.81	496.84	6,360.56	4,333.25	4,233.11	100.13	43.275 SF		
12,600.00	7,870.00	7,884.50	7,777.00	70.61	32.25	-89.82	496.84	6,360.57	4,394.37	4,292.89	101.48	43.301		
12,700.00	7,870.00	7,885.09	7,777.59	71.75	32.26	-89.83	496.84	6,360.57	4,456.91	4,354.12	102.79	43.358		
12,800.00	7,870.00	7,885.68	7,778.17	72.93	32.26	-89.84	496.83	6,360.57	4,520.79	4,416.73	104.06	43.445		
12,900.00	7,870.00	7,886.26	7,778.76	74.14	32.26	-89.85	496.83	6,360.58	4,585.96	4,480.68	105.28	43.559		
13,000.00	7,870.00	7,886.85	7,779.35	75.39	32.26	-89.86	496.82	6,360.58	4,652.37	4,545.91	106.46	43.700		
13,100.00	7,870.00	7,887.44	7,779.93	76.67	32.26	-89.87	496.82	6,360.59	4,719.96	4,612.36	107.60	43.865		
13,200.00	7,870.00	7,888.02	7,780.52	77.98	32.27	-89.88	496.82	6,360.59	4,788.69	4,679.99	108.70	44.054		
13,300.00	7,870.00	7,888.61	7,781.11	79.31	32.27	-89.89	496.81	6,360.60	4,858.50	4,748.74	109.76	44.265		
13,400.00	7,870.00	7,889.20	7,781.69	80.67	32.27	-89.90	496.81	6,360.60	4,929.36	4,818.58	110.78	44.497		
13,500.00	7,870.00	7,889.78	7,782.28	82.04	32.27	-89.91	496.81	6,360.61	5,001.21	4,889.44	111.76	44.748		
13,600.00	7,870.00	7,890.37	7,782.87	83.43	32.27	-89.91	496.80	6,360.61	5,074.01	4,961.30	112.71	45.019		
13,700.00	7,870.00	7,890.96	7,783.46	84.84	32.27	-89.92	496.80	6,360.62	5,147.72	5,034.10	113.62	45.307		
13,800.00	7,870.00	7,891.55	7,784.05	86.27	32.28	-89.94	496.79	6,360.62	5,222.31	5,107.82	114.50	45.611		
13,900.00	7,870.00	7,892.14	7,784.64	87.71	32.28	-89.95	496.79	6,360.63	5,297.74	5,182.40	115.34	45.931		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,000.00	7,870.00	7,893.04	7,785.54	89.16	32.28	-89.96	496.78	6,360.64	5,373.97	5,257.82	116.15	46.266		
14,100.00	7,870.00	7,893.73	7,786.23	90.63	32.28	-89.97	496.78	6,360.64	5,450.97	5,334.03	116.93	46.615		
14,200.00	7,870.00	7,894.42	7,786.91	92.10	32.29	-89.98	496.78	6,360.65	5,528.70	5,411.02	117.69	46.978		
14,300.00	7,870.00	7,895.10	7,787.60	93.59	32.29	-89.99	496.77	6,360.65	5,607.14	5,488.73	118.41	47.353		
14,400.00	7,870.00	7,895.78	7,788.28	95.09	32.29	-90.00	496.77	6,360.66	5,686.26	5,567.15	119.11	47.740		
14,500.00	7,870.00	7,896.46	7,788.95	96.60	32.29	-90.02	496.76	6,360.66	5,766.02	5,646.24	119.78	48.138		
14,600.00	7,870.00	7,897.13	7,789.62	98.11	32.29	-90.03	496.76	6,360.67	5,846.41	5,725.98	120.43	48.547		
14,700.00	7,870.00	7,897.80	7,790.29	99.64	32.30	-90.04	496.75	6,360.67	5,927.40	5,806.34	121.05	48.966		
14,800.00	7,870.00	7,898.46	7,790.96	101.17	32.30	-90.05	496.75	6,360.68	6,008.95	5,887.30	121.65	49.395		
14,900.00	7,870.00	7,899.12	7,791.62	102.71	32.30	-90.06	496.75	6,360.68	6,091.06	5,968.83	122.23	49.833		
15,000.00	7,870.00	7,899.78	7,792.28	104.26	32.30	-90.07	496.74	6,360.69	6,173.69	6,050.91	122.79	50.279		
15,100.00	7,870.00	7,900.44	7,792.93	105.82	32.30	-90.08	496.74	6,360.69	6,256.83	6,133.51	123.33	50.734		
15,200.00	7,870.00	7,901.09	7,793.58	107.38	32.31	-90.09	496.73	6,360.70	6,340.46	6,216.62	123.84	51.197		
15,300.00	7,870.00	7,901.74	7,794.23	108.95	32.31	-90.10	496.73	6,360.70	6,424.56	6,300.21	124.35	51.667		
15,400.00	7,870.00	7,902.38	7,794.88	110.52	32.31	-90.11	496.73	6,360.71	6,509.10	6,384.28	124.83	52.145		
15,500.00	7,870.00	7,903.02	7,795.52	112.10	32.31	-90.12	496.72	6,360.71	6,594.08	6,468.79	125.29	52.629		
15,600.00	7,870.00	7,903.66	7,796.16	113.69	32.31	-90.14	496.72	6,360.72	6,679.48	6,553.73	125.74	53.119		
15,700.00	7,870.00	7,904.30	7,796.79	115.28	32.32	-90.15	496.71	6,360.72	6,765.27	6,639.09	126.18	53.616		
15,800.00	7,870.00	7,904.93	7,797.43	116.87	32.32	-90.16	496.71	6,360.73	6,851.45	6,724.85	126.60	54.119		
15,900.00	7,870.00	7,905.56	7,798.06	118.47	32.32	-90.17	496.71	6,360.73	6,938.00	6,811.00	127.01	54.628		
16,000.00	7,870.00	7,906.19	7,798.68	120.07	32.32	-90.18	496.70	6,360.74	7,024.91	6,897.51	127.40	55.141		
16,100.00	7,870.00	7,906.81	7,799.30	121.68	32.32	-90.19	496.70	6,360.74	7,112.16	6,984.38	127.78	55.660		
16,200.00	7,870.00	7,907.43	7,799.92	123.30	32.33	-90.20	496.70	6,360.75	7,199.74	7,071.60	128.15	56.184		
16,300.00	7,870.00	7,908.05	7,800.54	124.91	32.33	-90.21	496.69	6,360.75	7,287.65	7,159.14	128.50	56.712		
16,400.00	7,870.00	7,908.66	7,801.16	126.53	32.33	-90.22	496.69	6,360.76	7,375.86	7,247.01	128.85	57.245		
16,500.00	7,870.00	7,909.27	7,801.77	128.16	32.33	-90.23	496.69	6,360.76	7,464.36	7,335.18	129.18	57.783		
16,600.00	7,870.00	7,909.88	7,802.37	129.79	32.33	-90.24	496.68	6,360.77	7,553.16	7,423.66	129.50	58.324		
16,700.00	7,870.00	7,910.48	7,802.98	131.42	32.33	-90.25	496.68	6,360.77	7,642.23	7,512.41	129.82	58.869		
16,800.00	7,870.00	7,911.09	7,803.58	133.05	32.34	-90.26	496.67	6,360.77	7,731.57	7,601.45	130.12	59.418		
16,900.00	7,870.00	7,911.69	7,804.18	134.69	32.34	-90.27	496.67	6,360.78	7,821.17	7,690.75	130.42	59.971		
17,000.00	7,870.00	7,912.28	7,804.78	136.33	32.34	-90.28	496.67	6,360.78	7,911.01	7,780.31	130.70	60.527		
17,100.00	7,870.00	7,912.88	7,805.37	137.97	32.34	-90.29	496.66	6,360.79	8,001.10	7,870.12	130.98	61.087		
17,200.00	7,870.00	7,913.47	7,805.96	139.62	32.34	-90.30	496.66	6,360.79	8,091.42	7,960.17	131.25	61.649		
17,300.00	7,870.00	7,914.05	7,806.55	141.27	32.35	-90.31	496.66	6,360.80	8,181.96	8,050.45	131.51	62.215		
17,400.00	7,870.00	7,914.64	7,807.13	142.92	32.35	-90.32	496.65	6,360.80	8,272.73	8,140.96	131.77	62.783		
17,500.00	7,870.00	7,915.22	7,807.72	144.58	32.35	-90.33	496.65	6,360.80	8,363.70	8,231.69	132.01	63.355		
17,600.00	7,870.00	7,915.80	7,808.29	146.23	32.35	-90.34	496.65	6,360.81	8,454.88	8,322.62	132.25	63.929		
17,700.00	7,870.00	7,916.38	7,808.87	147.89	32.35	-90.35	496.64	6,360.81	8,546.25	8,413.76	132.49	64.505		
17,800.00	7,870.00	7,916.95	7,809.44	149.56	32.35	-90.36	496.64	6,360.82	8,637.82	8,505.10	132.72	65.084		
17,900.00	7,870.00	7,917.52	7,810.02	151.22	32.36	-90.37	496.64	6,360.82	8,729.57	8,596.63	132.94	65.666		
18,000.00	7,870.00	7,918.09	7,810.58	152.89	32.36	-90.37	496.63	6,360.82	8,821.50	8,688.34	133.16	66.249		
18,100.00	7,870.00	7,918.66	7,811.15	154.55	32.36	-90.38	496.63	6,360.83	8,913.60	8,780.23	133.37	66.835		
18,200.00	7,870.00	7,919.22	7,811.71	156.22	32.36	-90.39	496.63	6,360.83	9,005.87	8,872.30	133.57	67.423		
18,300.00	7,870.00	7,919.78	7,812.27	157.90	32.36	-90.40	496.62	6,360.84	9,098.31	8,964.54	133.77	68.013		
18,400.00	7,870.00	7,920.34	7,812.83	159.57	32.36	-90.41	496.62	6,360.84	9,190.90	9,056.93	133.97	68.605		
18,500.00	7,870.00	7,920.89	7,813.39	161.25	32.37	-90.42	496.62	6,360.84	9,283.65	9,149.49	134.16	69.199		
18,600.00	7,870.00	7,921.44	7,813.94	162.93	32.37	-90.43	496.61	6,360.85	9,376.55	9,242.20	134.34	69.795		
18,700.00	7,870.00	7,921.99	7,814.49	164.60	32.37	-90.44	496.61	6,360.85	9,469.59	9,335.06	134.53	70.392		
18,797.52	7,870.00	7,922.53	7,815.02	166.24	32.37	-90.45	496.61	6,360.85	9,560.45	9,425.75	134.70	70.976		

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.05	757.95	5,424.05	5,477.38					
100.00	100.00	21.08	21.08	0.13	0.03	82.05	757.93	5,424.04	5,476.74	5,476.57	0.17	N/A		
200.00	200.00	117.03	117.03	0.49	0.26	82.05	757.30	5,423.97	5,476.59	5,475.84	0.75	7,302.288		
200.10	200.10	117.10	117.10	0.49	0.26	82.05	757.30	5,423.97	5,476.59	5,475.83	0.75	7,296.412		
300.00	300.00	169.00	169.00	0.85	0.45	82.07	755.84	5,424.27	5,476.89	5,475.60	1.30	4,226.641		
400.00	400.00	235.15	235.02	1.21	0.69	82.10	752.48	5,425.36	5,477.91	5,476.01	1.90	2,885.157		
500.00	500.00	292.55	292.24	1.57	0.91	82.15	748.17	5,427.07	5,479.82	5,477.35	2.47	2,214.539		
600.00	600.00	351.00	350.39	1.93	1.13	82.21	742.77	5,429.34	5,482.44	5,479.38	3.06	1,792.914		
700.00	700.00	410.97	409.92	2.29	1.38	82.28	736.08	5,432.26	5,485.81	5,482.15	3.66	1,499.410		
800.00	800.00	442.00	440.64	2.64	1.50	82.33	732.12	5,434.03	5,490.09	5,485.95	4.14	1,325.195		
900.00	900.00	494.67	492.63	3.00	1.73	82.41	724.57	5,437.70	5,495.35	5,490.62	4.73	1,162.126		
1,000.00	1,000.00	533.00	530.32	3.36	1.90	82.48	718.39	5,441.01	5,501.83	5,496.58	5.25	1,047.707		
1,100.00	1,099.98	566.10	562.75	3.72	2.06	27.87	712.63	5,444.29	5,507.95	5,502.19	5.76	956.842		
1,200.00	1,199.84	624.00	619.21	4.07	2.34	27.97	701.69	5,450.98	5,512.31	5,505.93	6.37	864.684		
1,300.00	1,299.45	646.21	640.77	4.43	2.46	28.01	697.18	5,453.81	5,514.48	5,507.65	6.83	806.954		
1,400.00	1,398.70	715.00	707.22	4.80	2.82	28.21	681.96	5,462.97	5,514.50	5,506.97	7.54	731.765		
1,500.00	1,497.47	758.26	748.75	5.18	3.07	28.38	671.52	5,469.12	5,512.28	5,504.15	8.13	678.207		
1,600.00	1,595.62	808.00	796.25	5.57	3.36	28.61	658.84	5,476.68	5,508.03	5,499.27	8.76	628.725		
1,700.00	1,693.06	858.26	843.98	6.00	3.67	28.87	645.31	5,484.77	5,501.69	5,492.27	9.42	583.762		
1,800.00	1,789.64	914.25	896.82	6.45	4.03	29.20	629.41	5,494.18	5,493.19	5,483.06	10.13	542.039		
1,900.00	1,885.27	974.64	953.70	6.94	4.42	29.59	612.03	5,504.69	5,482.51	5,471.62	10.89	503.329		
2,000.00	1,979.82	1,062.61	1,036.39	7.47	5.01	30.14	586.40	5,520.31	5,469.49	5,457.64	11.85	461.505		
2,100.00	2,073.17	1,145.53	1,114.08	8.05	5.58	30.73	561.45	5,535.01	5,453.82	5,441.02	12.81	425.863		
2,200.00	2,165.21	1,200.00	1,160.38	8.67	6.20	31.99	503.01	5,567.51	5,434.14	5,414.16	19.98	272.015		
2,300.00	2,255.84	1,397.29	1,351.10	9.35	7.29	32.53	487.11	5,575.94	5,411.83	5,396.49	15.34	352.860		
2,400.00	2,344.94	1,433.00	1,384.64	10.09	7.54	33.00	476.37	5,581.88	5,387.87	5,371.82	16.05	335.721		
2,500.00	2,432.39	1,473.14	1,422.18	10.89	7.83	33.54	464.02	5,588.86	5,362.24	5,345.41	16.83	318.641		
2,519.29	2,449.07	1,480.16	1,428.74	11.05	7.88	33.65	461.82	5,590.12	5,357.11	5,340.13	16.98	315.517		
2,600.00	2,518.69	1,527.00	1,472.24	11.74	8.21	33.95	446.79	5,598.77	5,335.97	5,318.25	17.73	300.986		
2,700.00	2,604.95	1,571.10	1,513.08	12.62	8.54	34.24	432.37	5,607.11	5,310.65	5,292.07	18.59	285.721		
2,800.00	2,691.22	1,653.27	1,589.17	13.52	9.15	34.78	405.48	5,622.58	5,285.99	5,266.26	19.73	267.849		
2,900.00	2,777.48	1,900.00	1,699.63	14.43	18.27	35.57	367.55	5,644.53	5,261.66	5,233.00	28.66	183.572		
3,000.00	2,863.75	1,880.74	1,801.12	15.35	10.81	36.28	333.94	5,663.75	5,237.21	5,214.71	22.50	232.761		
3,100.00	2,950.01	1,958.28	1,873.88	16.28	11.36	36.78	310.91	5,677.49	5,213.36	5,189.72	23.64	220.576		
3,200.00	3,036.27	2,035.56	1,946.52	17.22	11.90	37.28	288.40	5,691.21	5,190.10	5,165.32	24.78	209.470		
3,300.00	3,122.54	2,105.03	2,011.80	18.17	12.38	37.73	268.14	5,703.62	5,167.53	5,141.65	25.88	199.676		
3,400.00	3,208.80	2,163.43	2,066.54	19.13	12.80	38.12	250.77	5,714.21	5,145.83	5,118.91	26.92	191.137		
3,500.00	3,295.07	2,223.27	2,122.48	20.09	13.23	38.51	232.61	5,725.26	5,125.08	5,097.10	27.99	183.113		
3,600.00	3,381.33	2,361.13	2,251.45	21.05	14.22	39.44	191.09	5,750.74	5,105.18	5,075.57	29.61	172.426		
3,700.00	3,467.59	2,473.19	2,356.95	22.02	15.00	40.18	158.74	5,770.20	5,084.65	5,053.61	31.04	163.812		
3,800.00	3,553.86	2,536.31	2,416.40	22.99	15.43	40.60	140.55	5,781.13	5,064.70	5,032.55	32.15	157.546		
3,900.00	3,640.12	2,598.30	2,474.62	23.97	15.87	41.02	122.23	5,791.96	5,045.63	5,012.36	33.26	151.682		
4,000.00	3,726.38	2,666.32	2,538.20	24.95	16.36	41.49	101.24	5,803.95	5,027.51	4,993.08	34.43	146.000		
4,100.00	3,812.65	2,768.54	2,634.20	25.93	17.08	42.19	71.09	5,821.92	5,009.83	4,973.98	35.85	139.748		
4,200.00	3,898.91	2,835.98	2,697.56	26.91	17.55	42.65	51.25	5,833.78	4,992.82	4,955.80	37.02	134.862		
4,300.00	3,985.18	2,887.56	2,745.86	27.90	17.92	43.01	35.68	5,842.98	4,976.82	4,938.72	38.10	130.634		
4,400.00	4,071.44	2,940.95	2,795.72	28.88	18.31	43.38	19.25	5,852.72	4,961.96	4,922.77	39.19	126.607		
4,500.00	4,157.70	3,002.99	2,853.53	29.87	18.77	43.82	-0.10	5,864.24	4,948.14	4,907.78	40.36	122.605		
4,600.00	4,243.97	3,075.58	2,921.05	30.86	19.31	44.33	-23.03	5,877.84	4,935.26	4,893.65	41.61	118.600		
4,700.00	4,330.23	3,158.54	2,998.06	31.85	19.93	44.93	-49.75	5,893.25	4,923.13	4,880.18	42.96	114.606		
4,800.00	4,416.49	3,279.54	3,110.19	32.84	20.84	45.82	-89.68	5,915.00	4,911.52	4,866.92	44.61	110.108		
4,900.00	4,502.76	3,385.32	3,208.87	33.84	21.61	46.58	-122.95	5,933.51	4,899.90	4,853.77	46.12	106.234		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,589.02	3,450.40	3,269.92	34.83	22.07	47.04	-142.24	5,945.17	4,888.95	4,841.62	47.33	103.304		
5,100.00	4,675.29	3,492.00	3,308.93	35.82	22.37	47.33	-154.55	5,952.78	4,879.08	4,830.73	48.35	100.903		
5,200.00	4,761.55	3,548.07	3,361.33	36.82	22.78	47.73	-171.53	5,963.26	4,870.41	4,820.91	49.50	98.396		
5,300.00	4,847.81	3,595.55	3,405.46	37.82	23.13	48.07	-186.49	5,972.37	4,863.12	4,812.54	50.58	96.154		
5,400.00	4,934.08	3,784.38	3,581.62	38.81	24.51	49.42	-244.31	6,008.11	4,856.51	4,803.76	52.74	92.083		
5,500.00	5,020.34	3,861.95	3,654.49	39.81	25.06	49.97	-266.93	6,022.07	4,849.17	4,795.12	54.04	89.727		
5,600.00	5,106.60	3,932.14	3,720.30	40.81	25.56	50.48	-287.88	6,034.61	4,842.66	4,787.36	55.30	87.567		
5,700.00	5,192.87	3,985.53	3,770.13	41.81	25.95	50.87	-304.59	6,043.99	4,837.16	4,780.72	56.44	85.710		
5,800.00	5,279.13	4,028.21	3,809.90	42.81	26.26	51.18	-317.97	6,051.80	4,832.98	4,775.50	57.49	84.071		
5,900.00	5,365.40	4,083.75	3,861.59	43.81	26.67	51.58	-335.29	6,062.43	4,830.14	4,771.51	58.63	82.377		
6,000.00	5,451.66	4,178.01	3,949.33	44.81	27.37	52.27	-364.52	6,080.62	4,828.19	4,768.09	60.09	80.347		
6,100.00	5,537.92	4,277.96	4,042.40	45.81	28.11	53.00	-396.07	6,098.90	4,826.38	4,764.78	61.60	78.351		
6,200.00	5,624.19	4,337.00	4,097.37	46.81	28.55	53.43	-414.57	6,109.94	4,825.60	4,762.83	62.78	76.869		
6,212.48	5,634.95	4,337.00	4,097.37	46.93	28.55	53.43	-414.57	6,109.94	4,825.59	4,762.73	62.86	76.764		
6,300.00	5,710.45	4,383.70	4,140.82	47.81	28.90	53.77	-429.10	6,118.98	4,826.03	4,762.19	63.85	75.589		
6,400.00	5,796.72	4,436.63	4,189.99	48.81	29.29	54.15	-445.58	6,129.55	4,827.71	4,762.75	64.96	74.317		
6,500.00	5,882.98	4,519.67	4,267.07	49.81	29.92	54.75	-471.60	6,146.23	4,830.32	4,763.99	66.33	72.828		
6,600.00	5,969.24	4,618.18	4,358.31	50.82	30.66	55.48	-503.50	6,165.21	4,833.52	4,765.69	67.83	71.259		
6,700.00	6,055.51	4,679.80	4,415.18	51.82	31.14	55.94	-524.31	6,176.57	4,837.49	4,768.46	69.03	70.076		
6,800.00	6,141.77	4,692.40	4,480.19	52.82	31.99	56.99	-545.34	6,187.56	4,842.35	4,771.21	70.14	68.782		
6,900.00	6,228.03	4,693.61	4,518.39	53.83	32.37	57.57	-565.62	6,198.11	4,847.11	4,775.96	71.31	67.522		
7,000.00	6,314.30	4,689.40	4,577.18	54.83	32.94	58.13	-585.72	6,208.73	4,851.78	4,780.61	72.54	66.292		
7,100.00	6,400.56	4,688.94	4,636.71	55.83	33.72	58.71	-605.58	6,218.49	4,856.44	4,785.27	73.81	65.092		
7,200.00	6,486.83	4,679.52	4,697.29	56.84	34.84	59.13	-625.37	6,227.73	4,861.11	4,790.00	75.12	63.922		
7,300.00	6,573.09	4,686.39	4,758.15	57.84	36.08	59.94	-644.99	6,235.76	4,865.78	4,794.71	76.47	62.792		
7,400.00	6,659.35	4,697.29	4,819.02	58.84	37.43	60.48	-664.37	6,242.82	4,870.44	4,799.37	77.86	61.702		
7,500.00	6,745.62	4,712.77	4,880.45	59.85	38.88	61.24	-683.05	6,248.76	4,875.11	4,804.04	79.28	60.652		
7,600.00	6,831.88	4,721.16	4,941.80	60.85	40.42	62.15	-701.80	6,253.88	4,879.78	4,808.71	80.73	59.642		
7,700.00	6,918.14	4,726.96	5,003.58	61.86	42.11	63.18	-720.38	6,258.43	4,884.44	4,813.37	82.21	58.672		
7,800.00	7,004.41	4,730.59	5,065.19	62.86	43.88	64.32	-738.33	6,262.88	4,889.11	4,818.04	83.71	57.742		
7,900.00	7,090.67	4,746.34	5,126.91	63.87	45.63	65.56	-756.37	6,267.11	4,893.78	4,822.71	85.23	56.852		
8,000.00	7,176.94	4,800.00	5,188.18	64.87	47.48	66.89	-774.51	6,271.11	4,898.44	4,827.37	86.77	55.992		
8,027.52	7,200.68	4,748.51	5,235.96	65.15	48.24	67.35	-792.79	6,275.09	4,903.11	4,832.04	88.31	55.172		
8,050.00	7,220.18	4,755.40	5,242.84	65.37	49.01	67.81	-810.08	6,278.80	4,907.78	4,836.71	89.85	54.352		
8,100.00	7,264.25	4,757.05	5,258.48	65.85	50.79	68.93	-828.35	6,282.22	4,912.44	4,841.37	91.39	53.572		
8,150.00	7,308.99	4,761.00	5,298.41	66.28	52.57	69.32	-846.15	6,285.19	4,917.11	4,846.04	92.93	52.832		
8,200.00	7,354.07	4,761.00	5,298.41	66.67	54.35	69.89	-864.15	6,287.19	4,921.78	4,850.71	94.47	52.132		
8,250.00	7,399.14	4,761.00	5,298.41	67.02	56.13	70.56	-882.15	6,288.81	4,926.44	4,855.37	96.01	51.472		
8,300.00	7,443.85	4,764.15	5,331.55	67.32	57.91	71.26	-900.15	6,289.81	4,931.11	4,860.04	97.55	50.852		
8,350.00	7,487.88	4,766.63	5,363.03	67.56	59.69	72.01	-918.18	6,290.28	4,935.78	4,864.71	99.09	50.272		
8,400.00	7,530.87	4,770.00	5,392.39	67.75	61.47	72.81	-936.18	6,290.28	4,940.44	4,869.38	100.63	49.732		
8,450.00	7,572.51	4,770.00	5,392.39	67.90	63.25	73.66	-954.18	6,290.28	4,945.11	4,874.04	102.17	49.232		
8,500.00	7,612.48	4,772.19	5,415.57	68.00	65.03	74.56	-972.18	6,290.28	4,949.78	4,878.71	103.71	48.772		
8,550.00	7,650.47	4,774.04	5,436.42	68.05	66.81	75.51	-990.18	6,290.28	4,954.44	4,883.38	105.25	48.352		
8,600.00	7,686.20	4,776.90	5,454.27	68.06	68.59	76.51	-1008.18	6,290.28	4,959.11	4,888.04	106.79	47.972		
8,650.00	7,719.39	4,779.00	5,486.34	68.03	70.37	77.56	-1026.18	6,290.28	4,963.78	4,892.71	108.33	47.632		
8,700.00	7,749.79	4,779.00	5,486.34	67.97	72.15	78.66	-1044.18	6,290.28	4,968.44	4,897.38	109.87	47.332		
8,750.00	7,777.17	4,781.21	5,506.54	67.87	73.93	79.81	-1062.18	6,290.28	4,973.11	4,902.04	111.41	47.072		
8,800.00	7,801.32	4,783.12	5,522.42	67.74	75.71	81.01	-1080.18	6,290.28	4,977.78	4,906.71	112.95	46.812		
8,850.00	7,822.06	4,784.02	5,536.32	67.59	77.49	82.26	-1098.18	6,290.28	4,982.44	4,911.38	114.49	46.592		
8,900.00	7,839.23	4,786.81	5,548.09	67.41	79.27	83.56	-1116.18	6,290.28	4,987.11	4,916.04	116.03	46.372		
8,950.00	7,852.69	4,787.07	5,557.64	67.22	81.05	84.91	-1134.18	6,290.28	4,991.78	4,920.71	117.57	46.192		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	7,877.60	7,564.86	67.00	42.07	-79.72	-807.23	6,318.14	4,063.81	3,970.71	93.10	43.650		
9,050.00	7,868.14	7,892.00	7,579.23	66.78	42.12	-83.53	-807.77	6,318.71	4,035.35	3,942.73	92.62	43.569		
9,098.65	7,870.00	7,892.00	7,579.23	66.55	42.12	-86.52	-807.77	6,318.71	4,009.17	3,917.05	92.11	43.525		
9,100.00	7,870.00	7,892.00	7,579.23	66.55	42.12	-86.52	-807.77	6,318.71	4,008.46	3,916.36	92.10	43.524		
9,200.00	7,870.00	7,892.00	7,579.23	66.09	42.12	-86.52	-807.77	6,318.71	3,957.31	3,866.27	91.05	43.465		
9,300.00	7,870.00	7,892.00	7,579.23	65.65	42.12	-86.52	-807.77	6,318.71	3,908.05	3,818.05	90.00	43.421		
9,400.00	7,870.00	7,892.00	7,579.23	65.24	42.12	-86.52	-807.77	6,318.71	3,860.76	3,771.77	88.98	43.388		
9,500.00	7,870.00	7,912.70	7,599.91	64.85	42.18	-86.87	-808.55	6,319.51	3,815.48	3,727.47	88.01	43.351		
9,600.00	7,870.00	7,932.25	7,619.42	64.48	42.23	-87.19	-809.25	6,320.19	3,772.30	3,685.23	87.07	43.324		
9,700.00	7,870.00	7,950.46	7,637.62	64.13	42.29	-87.50	-809.89	6,320.74	3,731.28	3,645.11	86.17	43.302		
9,800.00	7,870.00	7,967.48	7,654.62	63.80	42.34	-87.78	-810.46	6,321.20	3,692.50	3,607.18	85.32	43.279		
9,900.00	7,870.00	7,983.41	7,670.54	63.50	42.38	-88.05	-810.98	6,321.57	3,656.02	3,571.49	84.53	43.250		
10,000.00	7,870.00	8,078.58	7,765.68	63.22	42.63	-89.64	-813.19	6,322.68	3,621.90	3,538.11	83.79	43.227		
10,100.00	7,870.00	10,100.00	7,723.22	62.96	48.03	-88.93	-812.21	6,322.19	3,589.96	3,500.80	89.16	40.265		
10,200.00	7,870.00	10,200.00	7,725.51	62.72	48.30	-88.97	-812.27	6,322.22	3,560.82	3,471.91	88.92	40.047		
10,300.00	7,870.00	10,300.00	7,727.79	62.50	48.57	-89.01	-812.32	6,322.24	3,534.28	3,445.47	88.81	39.797		
10,400.00	7,870.00	10,400.00	7,730.08	62.31	48.84	-89.05	-812.37	6,322.27	3,510.38	3,421.53	88.85	39.511		
10,500.00	7,870.00	10,500.00	7,732.37	62.15	49.11	-89.08	-812.42	6,322.30	3,489.18	3,400.14	89.05	39.184		
10,600.00	7,870.00	10,600.00	7,734.66	62.01	49.38	-89.12	-812.48	6,322.32	3,470.74	3,381.32	89.42	38.815		
10,700.00	7,870.00	10,700.00	7,736.94	61.90	49.65	-89.16	-812.53	6,322.35	3,455.09	3,365.12	89.97	38.402		
10,800.00	7,870.00	10,800.00	7,739.23	61.82	49.92	-89.20	-812.58	6,322.37	3,442.27	3,351.56	90.71	37.949		
10,900.00	7,870.00	10,900.00	7,741.52	61.78	50.19	-89.24	-812.63	6,322.40	3,432.32	3,340.69	91.63	37.458		
11,000.00	7,870.00	11,000.00	7,743.81	61.77	50.46	-89.28	-812.69	6,322.43	3,425.26	3,332.53	92.74	36.935 ES		
11,100.00	7,870.00	8,109.81	7,796.90	61.81	42.71	-90.17	-813.55	6,322.65	3,421.10	3,335.65	85.45	40.036		
11,192.99	7,870.00	8,111.45	7,798.54	61.89	42.71	-90.19	-813.56	6,322.64	3,419.84	3,333.28	86.56	39.510 CC		
11,200.00	7,870.00	8,111.57	7,798.66	61.90	42.71	-90.20	-813.57	6,322.64	3,419.84	3,333.20	86.64	39.471		
11,300.00	7,870.00	8,113.23	7,800.32	62.03	42.71	-90.22	-813.58	6,322.63	3,421.51	3,333.53	87.98	38.888		
11,400.00	7,870.00	8,114.79	7,801.89	62.23	42.72	-90.25	-813.59	6,322.63	3,426.10	3,336.64	89.45	38.300		
11,500.00	7,870.00	8,116.27	7,803.36	62.50	42.72	-90.27	-813.61	6,322.62	3,433.59	3,342.55	91.04	37.716		
11,600.00	7,870.00	8,117.66	7,804.75	62.84	42.72	-90.30	-813.62	6,322.62	3,443.97	3,351.26	92.71	37.146		
11,700.00	7,870.00	8,118.98	7,806.07	63.25	42.73	-90.32	-813.63	6,322.61	3,457.21	3,362.75	94.46	36.598		
11,800.00	7,870.00	8,120.23	7,807.32	63.76	42.73	-90.34	-813.64	6,322.61	3,473.28	3,377.01	96.27	36.078		
11,900.00	7,870.00	8,121.42	7,808.51	64.34	42.73	-90.36	-813.64	6,322.60	3,492.15	3,394.03	98.12	35.591		
12,000.00	7,870.00	8,122.54	7,809.64	65.01	42.73	-90.38	-813.65	6,322.59	3,513.76	3,413.77	99.99	35.142		
12,100.00	7,870.00	8,123.62	7,810.71	65.77	42.74	-90.40	-813.66	6,322.59	3,538.06	3,436.19	101.87	34.732		
12,200.00	7,870.00	8,124.64	7,811.73	66.61	42.74	-90.41	-813.67	6,322.58	3,565.00	3,461.26	103.74	34.364		
12,300.00	7,870.00	8,125.61	7,812.71	67.51	42.74	-90.43	-813.67	6,322.58	3,594.53	3,488.92	105.60	34.038		
12,400.00	7,870.00	8,126.55	7,813.64	68.49	42.74	-90.45	-813.68	6,322.57	3,626.57	3,519.13	107.44	33.755		
12,500.00	7,870.00	8,127.44	7,814.53	69.52	42.75	-90.46	-813.68	6,322.57	3,661.06	3,551.82	109.24	33.513		
12,600.00	7,870.00	8,128.29	7,815.38	70.61	42.75	-90.48	-813.69	6,322.56	3,697.94	3,586.93	111.01	33.313		
12,700.00	7,870.00	8,129.10	7,816.20	71.75	42.75	-90.49	-813.69	6,322.56	3,737.13	3,624.41	112.72	33.153		
12,800.00	7,870.00	8,129.89	7,816.98	72.93	42.75	-90.50	-813.70	6,322.55	3,778.56	3,664.17	114.39	33.031		
12,900.00	7,870.00	8,130.64	7,817.73	74.14	42.75	-90.51	-813.70	6,322.55	3,822.16	3,706.15	116.01	32.947		
13,000.00	7,870.00	8,131.36	7,818.45	75.39	42.75	-90.53	-813.71	6,322.54	3,867.85	3,750.28	117.57	32.898		
13,100.00	7,870.00	8,132.05	7,819.14	76.67	42.76	-90.54	-813.71	6,322.54	3,915.56	3,796.49	119.07	32.884 SF		
13,200.00	7,870.00	8,132.72	7,819.81	77.98	42.76	-90.55	-813.72	6,322.54	3,965.23	3,844.71	120.52	32.902		
13,300.00	7,870.00	8,133.36	7,820.45	79.31	42.76	-90.56	-813.72	6,322.53	4,016.76	3,894.86	121.90	32.950		
13,400.00	7,870.00	8,133.98	7,821.07	80.67	42.76	-90.57	-813.72	6,322.53	4,070.11	3,946.88	123.23	33.028		
13,500.00	7,870.00	8,134.57	7,821.66	82.04	42.76	-90.58	-813.73	6,322.52	4,125.18	4,000.68	124.50	33.134		
13,600.00	7,870.00	8,135.15	7,822.24	83.43	42.76	-90.59	-813.73	6,322.52	4,181.93	4,056.21	125.71	33.266		
13,700.00	7,870.00	8,135.70	7,822.79	84.84	42.76	-90.60	-813.73	6,322.52	4,240.27	4,113.40	126.87	33.423		
13,800.00	7,870.00	8,136.23	7,823.33	86.27	42.77	-90.61	-813.73	6,322.51	4,300.14	4,172.18	127.97	33.604		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
13,900.00	7,870.00	8,136.75	7,823.84	87.71	42.77	-90.62	-813.74	6,322.51	4,361.49	4,232.48	129.01	33.806		
14,000.00	7,870.00	8,137.25	7,824.34	89.16	42.77	-90.63	-813.74	6,322.51	4,424.25	4,294.24	130.01	34.030		
14,100.00	7,870.00	8,137.74	7,824.83	90.63	42.77	-90.63	-813.74	6,322.50	4,488.36	4,357.40	130.96	34.274		
14,200.00	7,870.00	8,138.20	7,825.30	92.10	42.77	-90.64	-813.74	6,322.50	4,553.76	4,421.90	131.85	34.536		
14,300.00	7,870.00	8,138.66	7,825.75	93.59	42.77	-90.65	-813.74	6,322.50	4,620.40	4,487.69	132.71	34.816		
14,400.00	7,870.00	8,139.10	7,826.19	95.09	42.77	-90.66	-813.75	6,322.49	4,688.22	4,554.71	133.52	35.113		
14,500.00	7,870.00	8,139.52	7,826.61	96.60	42.77	-90.66	-813.75	6,322.49	4,757.19	4,622.90	134.28	35.426		
14,600.00	7,870.00	8,139.94	7,827.03	98.11	42.77	-90.67	-813.75	6,322.49	4,827.23	4,692.22	135.01	35.755		
14,700.00	7,870.00	8,140.34	7,827.43	99.64	42.78	-90.68	-813.75	6,322.48	4,898.32	4,762.62	135.70	36.097		
14,800.00	7,870.00	8,140.73	7,827.82	101.17	42.78	-90.68	-813.75	6,322.48	4,970.40	4,834.05	136.35	36.453		
14,900.00	7,870.00	8,141.10	7,828.20	102.71	42.78	-90.69	-813.75	6,322.48	5,043.44	4,906.47	136.97	36.821		
15,000.00	7,870.00	8,141.47	7,828.56	104.26	42.78	-90.70	-813.76	6,322.47	5,117.39	4,979.83	137.56	37.202		
15,100.00	7,870.00	8,141.83	7,828.92	105.82	42.78	-90.70	-813.76	6,322.47	5,192.21	5,054.09	138.11	37.594		
15,200.00	7,870.00	8,142.18	7,829.27	107.38	42.78	-90.71	-813.76	6,322.47	5,267.86	5,129.23	138.64	37.998		
15,300.00	7,870.00	8,142.51	7,829.60	108.95	42.78	-90.71	-813.76	6,322.47	5,344.32	5,205.18	139.13	38.411		
15,400.00	7,870.00	8,142.84	7,829.93	110.52	42.78	-90.72	-813.76	6,322.46	5,421.54	5,281.93	139.61	38.835		
15,500.00	7,870.00	8,143.16	7,830.25	112.10	42.78	-90.72	-813.76	6,322.46	5,499.50	5,359.44	140.05	39.267		
15,600.00	7,870.00	8,143.47	7,830.56	113.69	42.78	-90.73	-813.76	6,322.46	5,578.16	5,437.68	140.48	39.709		
15,700.00	7,870.00	8,143.78	7,830.87	115.28	42.78	-90.73	-813.77	6,322.46	5,657.49	5,516.61	140.88	40.159		
15,800.00	7,870.00	8,144.07	7,831.16	116.87	42.78	-90.74	-813.77	6,322.45	5,737.47	5,596.21	141.26	40.618		
15,900.00	7,870.00	8,144.36	7,831.45	118.47	42.78	-90.74	-813.77	6,322.45	5,818.07	5,676.45	141.62	41.083		
16,000.00	7,870.00	8,144.64	7,831.73	120.07	42.78	-90.75	-813.77	6,322.45	5,899.26	5,757.30	141.96	41.557		
16,100.00	7,870.00	8,144.91	7,832.01	121.68	42.79	-90.75	-813.77	6,322.45	5,981.02	5,838.74	142.28	42.037		
16,200.00	7,870.00	8,145.18	7,832.27	123.30	42.79	-90.76	-813.77	6,322.44	6,063.33	5,920.74	142.59	42.524		
16,300.00	7,870.00	8,145.44	7,832.53	124.91	42.79	-90.76	-813.77	6,322.44	6,146.17	6,003.29	142.88	43.017		
16,400.00	7,870.00	8,145.70	7,832.79	126.53	42.79	-90.77	-813.77	6,322.44	6,229.50	6,086.35	143.15	43.516		
16,500.00	7,870.00	8,145.95	7,833.04	128.16	42.79	-90.77	-813.77	6,322.44	6,313.33	6,169.91	143.42	44.021		
16,600.00	7,870.00	8,146.19	7,833.28	129.79	42.79	-90.78	-813.77	6,322.44	6,397.61	6,253.95	143.67	44.531		
16,700.00	7,870.00	8,146.43	7,833.52	131.42	42.79	-90.78	-813.77	6,322.43	6,482.35	6,338.44	143.90	45.047		
16,800.00	7,870.00	8,146.66	7,833.75	133.05	42.79	-90.78	-813.78	6,322.43	6,567.51	6,423.38	144.13	45.567		
16,900.00	7,870.00	8,146.89	7,833.98	134.69	42.79	-90.79	-813.78	6,322.43	6,653.08	6,508.74	144.34	46.093		
17,000.00	7,870.00	8,147.11	7,834.20	136.33	42.79	-90.79	-813.78	6,322.43	6,739.06	6,594.51	144.54	46.623		
17,100.00	7,870.00	8,147.33	7,834.42	137.97	42.79	-90.79	-813.78	6,322.43	6,825.41	6,680.67	144.74	47.157		
17,200.00	7,870.00	8,147.54	7,834.63	139.62	42.79	-90.80	-813.78	6,322.43	6,912.13	6,767.21	144.92	47.696		
17,300.00	7,870.00	8,147.75	7,834.84	141.27	42.79	-90.80	-813.78	6,322.42	6,999.21	6,854.12	145.09	48.239		
17,400.00	7,870.00	8,147.95	7,835.04	142.92	42.79	-90.80	-813.78	6,322.42	7,086.63	6,941.37	145.26	48.785		
17,500.00	7,870.00	8,148.15	7,835.24	144.58	42.79	-90.81	-813.78	6,322.42	7,174.38	7,028.96	145.42	49.336		
17,600.00	7,870.00	8,148.34	7,835.43	146.23	42.79	-90.81	-813.78	6,322.42	7,262.44	7,116.87	145.57	49.889		
17,700.00	7,870.00	8,148.53	7,835.63	147.89	42.79	-90.81	-813.78	6,322.42	7,350.81	7,205.09	145.71	50.447		
17,800.00	7,870.00	8,148.72	7,835.81	149.56	42.79	-90.82	-813.78	6,322.41	7,439.47	7,293.62	145.85	51.007		
17,900.00	7,870.00	8,148.91	7,836.00	151.22	42.79	-90.82	-813.78	6,322.41	7,528.42	7,382.44	145.98	51.570		
18,000.00	7,870.00	8,149.09	7,836.18	152.89	42.80	-90.82	-813.78	6,322.41	7,617.64	7,471.53	146.11	52.137		
18,100.00	7,870.00	8,149.26	7,836.35	154.55	42.80	-90.83	-813.78	6,322.41	7,707.13	7,560.90	146.23	52.706		
18,200.00	7,870.00	8,149.43	7,836.53	156.22	42.80	-90.83	-813.78	6,322.41	7,796.87	7,650.53	146.34	53.279		
18,300.00	7,870.00	8,149.60	7,836.69	157.90	42.80	-90.83	-813.78	6,322.41	7,886.86	7,740.41	146.45	53.853		
18,400.00	7,870.00	8,149.77	7,836.86	159.57	42.80	-90.84	-813.78	6,322.41	7,977.09	7,830.53	146.56	54.431		
18,500.00	7,870.00	8,149.93	7,837.02	161.25	42.80	-90.84	-813.78	6,322.40	8,067.54	7,920.89	146.65	55.010		
18,600.00	7,870.00	8,150.09	7,837.18	162.93	42.80	-90.84	-813.79	6,322.40	8,158.22	8,011.47	146.75	55.592		
18,700.00	7,870.00	8,150.25	7,837.34	164.60	42.80	-90.84	-813.79	6,322.40	8,249.12	8,102.28	146.84	56.177		
18,797.52	7,870.00	8,150.40	7,837.49	166.24	42.80	-90.85	-813.79	6,322.40	8,337.96	8,191.03	146.93	56.749		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1,147.90	1,125.32	0.00	5.09	83.35	613.10	5,256.49	5,428.09					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.48	599.21	5,243.60	5,406.22	5,400.94	5.28	1,023.935		
200.00	200.00	1,299.52	1,270.78	0.49	5.99	83.65	581.44	5,227.71	5,384.79	5,378.91	5.87	916.709		
300.00	300.00	1,564.82	1,523.75	0.85	7.64	84.26	520.59	5,176.00	5,363.48	5,355.94	7.54	710.984		
400.00	400.00	1,727.02	1,677.73	1.21	8.68	84.60	485.75	5,138.80	5,337.79	5,329.11	8.69	614.492		
500.00	500.00	1,780.33	1,728.45	1.57	9.03	84.71	474.74	5,126.66	5,312.74	5,303.46	9.28	572.331		
600.00	600.00	1,880.79	1,824.09	1.93	9.67	84.92	453.86	5,104.09	5,288.06	5,277.93	10.13	521.991		
700.00	700.00	1,929.39	1,870.52	2.29	9.97	85.01	444.32	5,093.34	5,263.87	5,253.15	10.72	491.203		
800.00	800.00	1,987.17	1,925.96	2.64	10.32	85.12	433.86	5,080.85	5,240.46	5,229.11	11.35	461.640		
900.00	900.00	2,056.00	1,992.03	3.00	10.74	85.25	421.03	5,066.49	5,217.75	5,205.71	12.04	433.310		
1,000.00	1,000.00	2,227.63	2,156.40	3.36	11.79	85.58	388.56	5,029.32	5,194.10	5,180.87	13.23	392.499		
1,100.00	1,099.98	2,332.33	2,256.66	3.72	12.44	31.44	369.34	5,006.03	5,168.76	5,154.66	14.10	366.564		
1,200.00	1,199.84	2,406.94	2,328.16	4.07	12.90	31.91	355.95	4,989.46	5,140.69	5,125.86	14.82	346.763		
1,300.00	1,299.45	2,500.24	2,417.64	4.43	13.47	32.49	339.23	4,968.97	5,110.09	5,094.46	15.64	326.768		
1,400.00	1,398.70	2,567.14	2,481.76	4.80	13.88	33.06	326.99	4,954.35	5,076.89	5,060.56	16.33	310.828		
1,500.00	1,497.47	2,629.01	2,541.10	5.18	14.26	33.67	315.33	4,941.29	5,041.64	5,024.63	17.01	296.375		
1,600.00	1,595.62	2,710.00	2,618.80	5.57	14.75	34.40	300.07	4,924.26	5,003.92	4,986.14	17.79	281.320		
1,700.00	1,693.06	2,767.08	2,673.67	6.00	15.09	35.11	289.73	4,912.43	4,964.08	4,945.63	18.45	269.036		
1,800.00	1,789.64	1,800.00	2,859.76	6.45	9.23	36.43	257.46	4,871.93	4,922.09	4,907.93	14.16	347.584		
1,900.00	1,885.27	3,043.58	2,939.65	6.94	16.74	37.42	243.44	4,852.84	4,875.58	4,855.04	20.54	237.410		
2,000.00	1,979.82	3,084.00	2,978.52	7.47	16.98	38.29	236.76	4,843.99	4,827.63	4,806.46	21.17	228.084		
2,100.00	2,073.17	3,189.10	3,079.61	8.05	17.61	39.57	219.36	4,821.10	4,777.70	4,755.60	22.10	216.179		
2,200.00	2,165.21	3,262.55	3,150.16	8.67	18.06	40.79	206.93	4,804.89	4,725.41	4,702.49	22.92	206.141		
2,300.00	2,255.84	3,325.63	3,210.72	9.35	18.44	42.05	195.95	4,791.07	4,671.29	4,647.56	23.73	196.827		
2,400.00	2,344.94	3,389.36	3,271.87	10.09	18.83	43.42	184.41	4,777.31	4,615.53	4,590.95	24.58	187.768		
2,500.00	2,432.39	3,459.62	3,339.27	10.89	19.26	44.95	171.57	4,762.18	4,558.09	4,532.60	25.50	178.759		
2,519.29	2,449.07	3,469.37	3,348.62	11.05	19.32	45.23	169.79	4,760.09	4,546.83	4,521.16	25.67	177.157		
2,600.00	2,518.69	3,509.68	3,387.31	11.74	19.56	45.56	162.38	4,751.50	4,499.83	4,473.47	26.36	170.704		
2,700.00	2,604.95	3,554.00	3,429.85	12.62	19.83	45.94	154.16	4,742.22	4,442.25	4,415.03	27.22	163.170		
2,800.00	2,691.22	3,599.61	3,473.69	13.52	20.10	46.33	145.65	4,732.91	4,385.49	4,357.36	28.13	155.928		
2,900.00	2,777.48	3,647.00	3,519.30	14.43	20.39	46.74	136.80	4,723.58	4,329.64	4,300.58	29.06	148.973		
3,000.00	2,863.75	3,672.43	3,543.81	15.35	20.53	46.97	132.05	4,718.76	4,274.79	4,244.86	29.93	142.846		
3,100.00	2,950.01	3,702.64	3,572.98	16.28	20.71	47.23	126.41	4,713.29	4,221.10	4,190.26	30.84	136.889		
3,200.00	3,036.27	3,741.00	3,610.10	17.22	20.93	47.57	119.25	4,706.76	4,168.62	4,136.81	31.81	131.052		
3,300.00	3,122.54	3,300.00	3,751.41	18.17	18.33	48.91	91.61	4,680.96	4,116.43	4,086.16	30.27	136.005		
3,400.00	3,208.80	4,013.24	3,872.74	19.13	22.51	50.09	68.35	4,656.44	4,063.30	4,028.55	34.75	116.940		
3,500.00	3,295.07	4,071.25	3,928.65	20.09	22.85	50.65	58.07	4,644.92	4,010.51	3,974.62	35.89	111.747		
3,600.00	3,381.33	4,134.91	3,990.16	21.05	23.22	51.25	47.26	4,632.55	3,958.57	3,921.49	37.08	106.762		
3,700.00	3,467.59	4,235.72	4,087.51	22.02	23.80	52.23	30.41	4,612.53	3,906.89	3,868.44	38.45	101.602		
3,800.00	3,553.86	4,319.03	4,167.56	22.99	24.30	53.09	14.95	4,595.43	3,855.54	3,815.74	39.80	96.877		
3,900.00	3,640.12	4,426.36	4,270.35	23.97	24.97	54.22	-5.72	4,572.47	3,804.31	3,763.01	41.30	92.114		
4,000.00	3,726.38	4,513.58	4,353.61	24.95	25.52	55.18	-23.09	4,553.14	3,753.37	3,710.62	42.75	87.806		
4,100.00	3,812.65	4,607.10	4,442.55	25.93	26.13	56.24	-42.46	4,531.70	3,702.76	3,658.50	44.27	83.647		
4,200.00	3,898.91	4,694.68	4,525.65	26.91	26.70	57.26	-60.83	4,511.02	3,652.56	3,606.77	45.79	79.762		
4,300.00	3,985.18	4,782.51	4,609.13	27.90	27.28	58.29	-78.17	4,489.96	3,602.84	3,555.50	47.34	76.111		
4,400.00	4,071.44	4,819.54	4,644.34	28.88	27.52	58.73	-85.55	4,481.16	3,554.12	3,505.45	48.67	73.027		
4,500.00	4,157.70	4,866.00	4,688.46	29.87	27.82	59.30	-95.27	4,470.33	3,506.77	3,456.69	50.07	70.032		
4,600.00	4,243.97	4,903.58	4,724.16	30.86	28.07	59.76	-103.32	4,461.78	3,460.85	3,409.39	51.46	67.253		
4,700.00	4,330.23	4,946.15	4,764.70	31.85	28.34	60.29	-112.33	4,452.42	3,416.43	3,363.53	52.89	64.590		
4,800.00	4,416.49	5,030.75	4,845.43	32.84	28.88	61.34	-129.82	4,434.13	3,373.24	3,318.67	54.57	61.820		
4,900.00	4,502.76	5,093.73	4,905.56	33.84	29.28	62.14	-142.45	4,420.32	3,330.79	3,274.64	56.14	59.326		
5,000.00	4,589.02	5,147.00	4,956.55	34.83	29.61	62.81	-152.87	4,408.95	3,289.73	3,232.04	57.69	57.024		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	5,196.78	5,004.39	35.82	29.90	63.44	-162.11	4,398.76	3,250.14	3,190.92	59.22	54.882		
5,200.00	4,761.55	5,240.00	5,046.14	36.82	30.16	63.97	-169.49	4,390.37	3,212.08	3,151.35	60.73	52.892		
5,300.00	4,847.81	5,287.67	5,092.44	37.82	30.41	64.56	-176.88	4,381.80	3,175.70	3,113.46	62.24	51.022		
5,400.00	4,934.08	5,334.00	5,137.72	38.81	30.66	65.11	-183.26	4,374.33	3,141.12	3,077.37	63.75	49.269		
5,500.00	5,020.34	5,374.31	5,177.29	39.81	30.84	65.59	-188.26	4,368.49	3,108.34	3,043.12	65.22	47.659		
5,600.00	5,106.60	5,427.00	5,229.20	40.81	31.09	66.20	-194.21	4,361.71	3,077.37	3,010.64	66.74	46.112		
5,700.00	5,192.87	5,463.17	5,264.94	41.81	31.24	66.62	-197.95	4,357.64	3,048.22	2,980.05	68.17	44.715		
5,800.00	5,279.13	5,521.00	5,322.25	42.81	31.47	67.27	-203.46	4,352.14	3,021.04	2,951.36	69.68	43.356		
5,900.00	5,365.40	5,562.74	5,363.70	43.81	31.63	67.73	-207.06	4,348.82	2,995.57	2,924.46	71.11	42.126		
6,000.00	5,451.66	5,624.01	5,424.65	44.81	31.85	68.41	-211.73	4,344.67	2,971.67	2,899.08	72.60	40.933		
6,100.00	5,537.92	5,685.86	5,486.30	45.81	32.05	69.07	-215.46	4,341.50	2,949.29	2,875.23	74.06	39.823		
6,200.00	5,624.19	5,752.03	5,552.37	46.81	32.24	69.75	-218.27	4,339.31	2,928.34	2,852.84	75.50	38.784		
6,300.00	5,710.45	5,821.83	5,622.15	47.81	32.42	70.45	-220.03	4,338.18	2,908.71	2,831.78	76.93	37.810		
6,400.00	5,796.72	5,894.37	5,694.67	48.81	32.59	71.16	-220.82	4,338.07	2,890.30	2,811.97	78.33	36.900		
6,500.00	5,882.98	5,982.02	5,782.33	49.81	32.77	72.02	-221.25	4,338.49	2,872.84	2,793.10	79.74	36.028		
6,600.00	5,969.24	6,072.65	5,872.95	50.82	32.97	72.91	-221.81	4,338.74	2,856.09	2,774.92	81.17	35.188		
6,700.00	6,055.51	6,155.48	5,955.78	51.82	33.15	73.73	-222.43	4,338.85	2,840.11	2,757.53	82.58	34.392		
6,800.00	6,141.77	6,239.73	6,040.03	52.82	33.35	74.58	-223.14	4,339.03	2,825.06	2,741.07	84.00	33.633		
6,900.00	6,228.03	6,325.98	6,126.27	53.83	33.54	75.45	-223.80	4,339.29	2,810.88	2,725.47	85.41	32.911		
7,000.00	6,314.30	6,415.34	6,215.63	54.83	33.74	76.36	-224.25	4,339.69	2,797.49	2,710.68	86.82	32.223		
7,100.00	6,400.56	6,507.70	6,307.99	55.83	33.94	77.30	-224.61	4,340.00	2,784.82	2,696.59	88.23	31.565		
7,200.00	6,486.83	6,596.06	6,396.35	56.84	34.14	78.21	-224.91	4,340.09	2,772.83	2,683.21	89.62	30.939		
7,300.00	6,573.09	6,683.25	6,483.54	57.84	34.34	79.11	-225.14	4,340.26	2,761.74	2,670.73	91.01	30.346		
7,400.00	6,659.35	6,767.72	6,568.01	58.84	34.53	79.99	-225.26	4,340.42	2,751.46	2,659.08	92.37	29.786		
7,500.00	6,745.62	6,843.63	6,643.92	59.85	34.70	80.78	-225.53	4,340.74	2,742.33	2,648.63	93.71	29.265		
7,600.00	6,831.88	6,926.18	6,726.47	60.85	34.89	81.65	-225.91	4,341.27	2,734.32	2,639.28	95.04	28.769		
7,700.00	6,918.14	7,007.78	6,808.07	61.86	35.07	82.50	-226.25	4,342.03	2,727.35	2,630.99	96.36	28.304		
7,800.00	7,004.41	7,101.27	6,901.54	62.86	35.27	83.48	-226.52	4,343.01	2,721.27	2,623.59	97.69	27.857		
7,900.00	7,090.67	7,187.95	6,988.23	63.87	35.47	84.39	-226.73	4,343.74	2,715.96	2,616.97	98.98	27.438		
8,000.00	7,176.94	7,273.57	7,073.84	64.87	35.66	85.30	-226.99	4,344.44	2,711.58	2,611.32	100.26	27.044		
8,027.52	7,200.68	7,297.12	7,097.39	65.15	35.72	85.55	-227.07	4,344.62	2,710.54	2,609.93	100.61	26.940		
8,050.00	7,220.18	7,316.40	7,116.66	65.37	35.76	82.28	-227.14	4,344.78	2,709.40	2,608.50	100.89	26.854		
8,100.00	7,264.25	7,359.92	7,160.19	65.85	35.86	73.90	-227.31	4,345.11	2,704.44	2,602.95	101.49	26.647		
8,150.00	7,308.99	7,404.89	7,205.16	66.28	35.97	64.13	-227.52	4,345.44	2,696.17	2,594.13	102.04	26.422		
8,200.00	7,354.07	7,452.27	7,252.53	66.67	36.08	53.44	-227.75	4,345.74	2,684.55	2,582.00	102.56	26.177		
8,250.00	7,399.14	7,499.60	7,299.86	67.02	36.20	42.51	-227.97	4,345.98	2,669.61	2,566.60	103.01	25.915		
8,300.00	7,443.85	7,546.53	7,346.79	67.32	36.31	31.99	-228.19	4,346.16	2,651.41	2,548.00	103.41	25.639		
8,350.00	7,487.88	7,592.69	7,392.96	67.56	36.42	22.32	-228.41	4,346.28	2,630.07	2,526.31	103.75	25.349		
8,400.00	7,530.87	7,630.25	7,430.51	67.75	36.52	13.56	-228.60	4,346.43	2,605.78	2,501.76	104.02	25.051		
8,450.00	7,572.51	7,668.43	7,468.69	67.90	36.61	5.64	-228.82	4,346.63	2,578.72	2,474.49	104.23	24.740		
8,500.00	7,612.48	7,709.48	7,509.74	68.00	36.71	-1.67	-229.05	4,346.90	2,549.05	2,444.66	104.39	24.418		
8,550.00	7,650.47	7,749.08	7,549.33	68.05	36.81	-8.68	-229.21	4,347.20	2,516.95	2,412.45	104.50	24.086		
8,600.00	7,686.20	7,785.92	7,586.17	68.06	36.89	-15.63	-229.33	4,347.50	2,482.67	2,378.13	104.54	23.749		
8,650.00	7,719.39	7,819.82	7,620.07	68.03	36.98	-22.73	-229.41	4,347.78	2,446.51	2,341.99	104.52	23.407		
8,700.00	7,749.79	7,850.86	7,651.12	67.97	37.05	-30.16	-229.49	4,348.04	2,408.77	2,304.33	104.44	23.064		
8,750.00	7,777.17	7,878.43	7,678.68	67.87	37.11	-37.99	-229.54	4,348.27	2,369.80	2,265.50	104.30	22.721		
8,800.00	7,801.32	7,902.60	7,702.85	67.74	37.17	-46.18	-229.60	4,348.48	2,329.94	2,225.85	104.10	22.383		
8,850.00	7,822.06	7,923.37	7,723.62	67.59	37.22	-54.58	-229.64	4,348.65	2,289.58	2,185.74	103.83	22.050		
8,900.00	7,839.23	7,940.60	7,740.85	67.41	37.26	-62.89	-229.69	4,348.80	2,249.08	2,145.57	103.51	21.728		
8,950.00	7,852.69	7,954.15	7,754.40	67.22	37.30	-70.79	-229.72	4,348.91	2,208.86	2,105.74	103.13	21.419		
9,000.00	7,862.35	7,963.14	7,763.39	67.00	37.32	-77.95	-229.74	4,348.99	2,169.31	2,066.63	102.68	21.127		
9,050.00	7,868.14	7,968.60	7,768.85	66.78	37.33	-84.19	-229.76	4,349.03	2,130.83	2,028.65	102.17	20.855		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,098.65	7,870.00	7,970.45	7,770.70	66.55	37.34	-89.31	-229.77	4,349.05	2,094.79	1,993.16	101.63	20.613		
9,100.00	7,870.00	7,970.46	7,770.70	66.55	37.34	-89.31	-229.77	4,349.05	2,093.81	1,992.20	101.61	20.606		
9,200.00	7,870.00	7,970.73	7,770.98	66.09	37.34	-89.32	-229.77	4,349.05	2,022.59	1,922.22	100.37	20.151		
9,300.00	7,870.00	7,971.01	7,771.26	65.65	37.34	-89.34	-229.77	4,349.06	1,953.89	1,854.89	99.00	19.736		
9,400.00	7,870.00	7,971.29	7,771.54	65.24	37.34	-89.35	-229.77	4,349.06	1,887.99	1,790.50	97.50	19.365		
9,500.00	7,870.00	7,971.57	7,771.82	64.85	37.34	-89.36	-229.77	4,349.06	1,825.20	1,729.35	95.85	19.043		
9,600.00	7,870.00	7,971.86	7,772.10	64.48	37.34	-89.37	-229.77	4,349.06	1,765.83	1,671.78	94.06	18.774		
9,700.00	7,870.00	7,972.14	7,772.39	64.13	37.34	-89.38	-229.77	4,349.07	1,710.26	1,618.13	92.13	18.564		
9,800.00	7,870.00	7,972.43	7,772.68	63.80	37.34	-89.39	-229.77	4,349.07	1,658.86	1,568.79	90.07	18.416		
9,900.00	7,870.00	7,972.72	7,772.96	63.50	37.34	-89.40	-229.77	4,349.07	1,612.03	1,524.11	87.93	18.334		
10,000.00	7,870.00	7,973.01	7,773.25	63.22	37.34	-89.42	-229.77	4,349.07	1,570.18	1,484.46	85.73	18.316 SF		
10,100.00	7,870.00	7,973.30	7,773.54	62.96	37.34	-89.43	-229.77	4,349.08	1,533.72	1,450.19	83.54	18.360		
10,200.00	7,870.00	7,973.59	7,773.84	62.72	37.34	-89.44	-229.78	4,349.08	1,503.04	1,421.60	81.44	18.456		
10,300.00	7,870.00	7,973.89	7,774.13	62.50	37.34	-89.45	-229.78	4,349.08	1,478.50	1,398.97	79.53	18.591		
10,400.00	7,870.00	7,974.18	7,774.43	62.31	37.34	-89.46	-229.78	4,349.08	1,460.41	1,382.50	77.91	18.745		
10,500.00	7,870.00	7,974.48	7,774.73	62.15	37.34	-89.47	-229.78	4,349.09	1,449.00	1,372.32	76.68	18.896		
10,600.00	7,870.00	7,974.78	7,775.03	62.01	37.35	-89.49	-229.78	4,349.09	1,444.45	1,368.53	75.92	19.025		
10,615.87	7,870.00	7,974.83	7,775.08	61.99	37.35	-89.49	-229.78	4,349.09	1,444.36	1,368.51	75.85	19.041 CC, ES		
10,700.00	7,870.00	7,975.08	7,775.33	61.90	37.35	-89.50	-229.78	4,349.09	1,446.81	1,371.15	75.67	19.121		
10,800.00	7,870.00	7,975.39	7,775.64	61.82	37.35	-89.51	-229.78	4,349.09	1,456.05	1,380.15	75.90	19.183		
10,900.00	7,870.00	7,975.69	7,775.94	61.78	37.35	-89.52	-229.78	4,349.10	1,472.05	1,395.46	76.58	19.222		
11,000.00	7,870.00	7,976.00	7,776.25	61.77	37.35	-89.53	-229.78	4,349.10	1,494.57	1,416.94	77.63	19.253		
11,100.00	7,870.00	7,976.31	7,776.56	61.81	37.35	-89.55	-229.78	4,349.10	1,523.34	1,444.39	78.95	19.294		
11,200.00	7,870.00	7,976.62	7,776.87	61.90	37.35	-89.56	-229.78	4,349.11	1,558.01	1,477.54	80.47	19.361		
11,300.00	7,870.00	7,976.94	7,777.18	62.03	37.35	-89.57	-229.79	4,349.11	1,598.19	1,516.09	82.10	19.466		
11,400.00	7,870.00	7,977.25	7,777.50	62.23	37.35	-89.58	-229.79	4,349.11	1,643.49	1,559.70	83.78	19.616		
11,500.00	7,870.00	7,977.57	7,777.81	62.50	37.35	-89.60	-229.79	4,349.11	1,693.48	1,608.01	85.46	19.815		
11,600.00	7,870.00	7,977.89	7,778.13	62.84	37.35	-89.61	-229.79	4,349.12	1,747.77	1,660.66	87.11	20.063		
11,700.00	7,870.00	7,978.21	7,778.45	63.25	37.35	-89.62	-229.79	4,349.12	1,805.97	1,717.27	88.70	20.360		
11,800.00	7,870.00	7,978.53	7,778.78	63.76	37.35	-89.63	-229.79	4,349.12	1,867.71	1,777.49	90.22	20.703		
11,900.00	7,870.00	7,978.86	7,779.10	64.34	37.36	-89.65	-229.79	4,349.13	1,932.66	1,841.01	91.65	21.088		
12,000.00	7,870.00	7,979.18	7,779.43	65.01	37.36	-89.66	-229.79	4,349.13	2,000.50	1,907.51	92.99	21.514		
12,100.00	7,870.00	7,979.51	7,779.76	65.77	37.36	-89.67	-229.79	4,349.13	2,070.94	1,976.71	94.24	21.975		
12,200.00	7,870.00	7,979.84	7,780.09	66.61	37.36	-89.69	-229.80	4,349.14	2,143.74	2,048.34	95.40	22.470		
12,300.00	7,870.00	7,980.18	7,780.42	67.51	37.36	-89.70	-229.80	4,349.14	2,218.66	2,122.18	96.48	22.995		
12,400.00	7,870.00	7,980.51	7,780.76	68.49	37.36	-89.71	-229.80	4,349.14	2,295.49	2,198.01	97.49	23.547		
12,500.00	7,870.00	7,980.85	7,781.10	69.52	37.36	-89.73	-229.80	4,349.14	2,374.05	2,275.64	98.41	24.123		
12,600.00	7,870.00	7,981.19	7,781.44	70.61	37.36	-89.74	-229.80	4,349.15	2,454.16	2,354.89	99.27	24.722		
12,700.00	7,870.00	7,981.53	7,781.78	71.75	37.36	-89.75	-229.80	4,349.15	2,535.69	2,435.63	100.06	25.341		
12,800.00	7,870.00	7,981.87	7,782.12	72.93	37.36	-89.77	-229.80	4,349.15	2,618.51	2,517.71	100.80	25.978		
12,900.00	7,870.00	7,982.22	7,782.47	74.14	37.36	-89.78	-229.80	4,349.16	2,702.48	2,601.00	101.48	26.631		
13,000.00	7,870.00	7,982.57	7,782.81	75.39	37.36	-89.79	-229.80	4,349.16	2,787.51	2,685.40	102.11	27.299		
13,100.00	7,870.00	7,982.92	7,783.17	76.67	37.37	-89.81	-229.81	4,349.16	2,873.51	2,770.81	102.69	27.981		
13,200.00	7,870.00	7,983.27	7,783.52	77.98	37.37	-89.82	-229.81	4,349.17	2,960.38	2,857.14	103.24	28.675		
13,300.00	7,870.00	7,983.63	7,783.87	79.31	37.37	-89.84	-229.81	4,349.17	3,048.06	2,944.32	103.74	29.381		
13,400.00	7,870.00	7,983.98	7,784.23	80.67	37.37	-89.85	-229.81	4,349.17	3,136.48	3,032.26	104.21	30.096		
13,500.00	7,870.00	7,984.34	7,784.59	82.04	37.37	-89.86	-229.81	4,349.18	3,225.57	3,120.92	104.65	30.821		
13,600.00	7,870.00	7,984.71	7,784.95	83.43	37.37	-89.88	-229.81	4,349.18	3,315.29	3,210.22	105.06	31.555		
13,700.00	7,870.00	7,985.07	7,785.32	84.84	37.37	-89.89	-229.81	4,349.18	3,405.58	3,300.13	105.45	32.296		
13,800.00	7,870.00	7,985.44	7,785.68	86.27	37.37	-89.91	-229.81	4,349.19	3,496.39	3,390.59	105.81	33.045		
13,900.00	7,870.00	7,985.81	7,786.05	87.71	37.37	-89.92	-229.82	4,349.19	3,587.70	3,481.55	106.15	33.800		
14,000.00	7,870.00	7,986.18	7,786.42	89.16	37.37	-89.94	-229.82	4,349.19	3,679.46	3,573.00	106.46	34.561		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,986.55	7,786.80	90.63	37.37	-89.95	-229.82	4,349.20	3,771.64	3,664.87	106.76	35.328		
14,200.00	7,870.00	7,986.93	7,787.17	92.10	37.38	-89.97	-229.82	4,349.20	3,864.20	3,757.16	107.04	36.100		
14,300.00	7,870.00	7,987.31	7,787.55	93.59	37.38	-89.98	-229.82	4,349.20	3,957.13	3,849.82	107.31	36.877		
14,400.00	7,870.00	7,987.69	7,787.94	95.09	37.38	-90.00	-229.82	4,349.21	4,050.39	3,942.84	107.56	37.658		
14,500.00	7,870.00	7,988.07	7,788.32	96.60	37.38	-90.01	-229.82	4,349.21	4,143.97	4,036.18	107.80	38.443		
14,600.00	7,870.00	7,988.46	7,788.71	98.11	37.38	-90.03	-229.83	4,349.21	4,237.84	4,129.82	108.02	39.232		
14,700.00	7,870.00	7,988.85	7,789.10	99.64	37.38	-90.04	-229.83	4,349.22	4,331.99	4,223.76	108.23	40.024		
14,800.00	7,870.00	7,989.24	7,789.49	101.17	37.38	-90.06	-229.83	4,349.22	4,426.39	4,317.96	108.44	40.820		
14,900.00	7,870.00	7,989.64	7,789.88	102.71	37.38	-90.07	-229.83	4,349.23	4,521.04	4,412.41	108.63	41.619		
15,000.00	7,870.00	7,990.03	7,790.28	104.26	37.38	-90.09	-229.83	4,349.23	4,615.91	4,507.09	108.81	42.420		
15,100.00	7,870.00	7,990.43	7,790.68	105.82	37.38	-90.11	-229.83	4,349.23	4,710.99	4,602.00	108.99	43.225		
15,200.00	7,870.00	7,990.84	7,791.08	107.38	37.38	-90.12	-229.83	4,349.24	4,806.27	4,697.11	109.16	44.031		
15,300.00	7,870.00	7,991.24	7,791.49	108.95	37.39	-90.14	-229.84	4,349.24	4,901.74	4,792.42	109.32	44.840		
15,400.00	7,870.00	7,991.65	7,791.90	110.52	37.39	-90.15	-229.84	4,349.24	4,997.38	4,887.91	109.47	45.651		
15,500.00	7,870.00	7,992.06	7,792.31	112.10	37.39	-90.17	-229.84	4,349.25	5,093.20	4,983.58	109.62	46.463		
15,600.00	7,870.00	7,992.48	7,792.72	113.69	37.39	-90.19	-229.84	4,349.25	5,189.17	5,079.41	109.76	47.278		
15,700.00	7,870.00	7,992.89	7,793.14	115.28	37.39	-90.20	-229.84	4,349.26	5,285.29	5,175.40	109.89	48.094		
15,800.00	7,870.00	7,993.32	7,793.56	116.87	37.39	-90.22	-229.84	4,349.26	5,381.55	5,271.53	110.03	48.912		
15,900.00	7,870.00	7,993.74	7,793.98	118.47	37.39	-90.24	-229.84	4,349.26	5,477.95	5,367.80	110.15	49.731		
16,000.00	7,870.00	7,994.16	7,794.41	120.07	37.39	-90.25	-229.85	4,349.27	5,574.47	5,464.20	110.27	50.551		
16,100.00	7,870.00	7,994.59	7,794.84	121.68	37.39	-90.27	-229.85	4,349.27	5,671.12	5,560.72	110.39	51.373		
16,200.00	7,870.00	7,995.03	7,795.27	123.30	37.39	-90.29	-229.85	4,349.28	5,767.87	5,657.37	110.50	52.196		
16,300.00	7,870.00	7,995.46	7,795.71	124.91	37.40	-90.31	-229.85	4,349.28	5,864.74	5,754.13	110.61	53.020		
16,400.00	7,870.00	7,995.90	7,796.15	126.53	37.40	-90.32	-229.85	4,349.28	5,961.71	5,850.99	110.72	53.845		
16,500.00	7,870.00	7,996.34	7,796.59	128.16	37.40	-90.34	-229.85	4,349.29	6,058.78	5,947.95	110.82	54.670		
16,600.00	7,870.00	7,996.79	7,797.03	129.79	37.40	-90.36	-229.86	4,349.29	6,155.94	6,045.02	110.92	55.497		
16,700.00	7,870.00	7,997.23	7,797.48	131.42	37.40	-90.38	-229.86	4,349.30	6,253.19	6,142.17	111.02	56.324		
16,800.00	7,870.00	7,997.69	7,797.93	133.05	37.40	-90.39	-229.86	4,349.30	6,350.53	6,239.41	111.12	57.152		
16,900.00	7,870.00	7,998.14	7,798.39	134.69	37.40	-90.41	-229.86	4,349.31	6,447.95	6,336.74	111.21	57.981		
17,000.00	7,870.00	7,998.60	7,798.84	136.33	37.40	-90.43	-229.86	4,349.31	6,545.44	6,434.15	111.30	58.810		
17,100.00	7,870.00	7,999.06	7,799.31	137.97	37.40	-90.45	-229.86	4,349.31	6,643.02	6,531.63	111.39	59.639		
17,200.00	7,870.00	7,999.52	7,799.77	139.62	37.41	-90.47	-229.87	4,349.32	6,740.66	6,629.19	111.47	60.470		
17,300.00	7,870.00	7,999.99	7,800.24	141.27	37.41	-90.49	-229.87	4,349.32	6,838.37	6,726.81	111.56	61.300		
17,400.00	7,870.00	8,000.46	7,800.71	142.92	37.41	-90.50	-229.87	4,349.33	6,936.14	6,824.51	111.64	62.131		
17,500.00	7,870.00	8,000.94	7,801.19	144.58	37.41	-90.52	-229.87	4,349.33	7,033.98	6,922.26	111.72	62.962		
17,600.00	7,870.00	8,001.42	7,801.66	146.23	37.41	-90.54	-229.87	4,349.34	7,131.88	7,020.08	111.80	63.794		
17,700.00	7,870.00	8,001.90	7,802.15	147.89	37.41	-90.56	-229.88	4,349.34	7,229.83	7,117.96	111.87	64.625		
17,800.00	7,870.00	8,002.39	7,802.63	149.56	37.41	-90.58	-229.88	4,349.35	7,327.85	7,215.90	111.95	65.457		
17,900.00	7,870.00	8,002.88	7,803.12	151.22	37.41	-90.60	-229.88	4,349.35	7,425.91	7,313.89	112.02	66.289		
18,000.00	7,870.00	8,003.37	7,803.62	152.89	37.41	-90.62	-229.88	4,349.36	7,524.02	7,411.93	112.10	67.122		
18,100.00	7,870.00	8,003.87	7,804.11	154.55	37.42	-90.64	-229.88	4,349.36	7,622.19	7,510.02	112.17	67.954		
18,200.00	7,870.00	8,004.37	7,804.62	156.22	37.42	-90.66	-229.89	4,349.37	7,720.40	7,608.16	112.24	68.786		
18,300.00	7,870.00	8,004.87	7,805.12	157.90	37.42	-90.68	-229.89	4,349.37	7,818.65	7,706.35	112.31	69.619		
18,400.00	7,870.00	8,005.38	7,805.63	159.57	37.42	-90.70	-229.89	4,349.38	7,916.95	7,804.58	112.38	70.451		
18,500.00	7,870.00	8,005.90	7,806.14	161.25	37.42	-90.72	-229.89	4,349.38	8,015.29	7,902.85	112.44	71.283		
18,600.00	7,870.00	8,006.41	7,806.66	162.93	37.42	-90.74	-229.89	4,349.39	8,113.68	8,001.17	112.51	72.116		
18,700.00	7,870.00	8,006.93	7,807.18	164.60	37.42	-90.76	-229.90	4,349.39	8,212.10	8,099.52	112.57	72.948		
18,797.52	7,870.00	8,007.45	7,807.69	166.24	37.42	-90.78	-229.90	4,349.40	8,308.11	8,195.47	112.64	73.759		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.85	-2,069.43	2,153.96	2,987.35					
100.00	100.00	70.49	70.49	0.13	0.11	133.85	-2,069.33	2,153.77	2,986.83	2,986.58	0.25	N/A		
200.00	200.00	183.92	183.91	0.49	0.42	133.86	-2,068.76	2,152.86	2,985.89	2,984.98	0.91	3,271.215		
300.00	300.00	299.06	299.04	0.85	0.83	133.86	-2,067.78	2,151.84	2,984.67	2,982.99	1.68	1,772.503		
400.00	400.00	394.60	394.58	1.21	1.17	133.86	-2,066.78	2,150.83	2,983.19	2,980.80	2.38	1,251.079		
500.00	500.00	484.62	484.59	1.57	1.50	133.85	-2,065.68	2,150.36	2,981.96	2,978.90	3.06	973.648		
600.00	600.00	644.98	644.89	1.93	2.07	133.82	-2,062.29	2,148.72	2,979.68	2,975.69	3.99	746.047		
700.00	700.00	765.33	765.17	2.29	2.50	133.80	-2,058.68	2,146.42	2,976.21	2,971.43	4.78	622.179		
800.00	800.00	855.74	855.51	2.64	2.83	133.78	-2,055.56	2,144.90	2,972.62	2,967.15	5.47	543.835		
900.00	900.00	1,732.95	1,717.94	3.00	6.48	133.42	-1,946.35	2,056.58	2,960.73	2,951.85	8.88	333.514		
1,000.00	1,000.00	2,006.76	1,977.08	3.36	8.04	133.26	-1,880.17	1,998.27	2,928.62	2,918.44	10.19	287.524		
1,100.00	1,099.98	2,159.74	2,119.71	3.72	9.01	79.34	-1,838.37	1,962.02	2,892.26	2,881.17	11.09	260.857		
1,200.00	1,199.84	2,220.96	2,176.71	4.07	9.41	80.16	-1,821.74	1,947.14	2,855.00	2,843.31	11.69	244.273		
1,300.00	1,299.45	2,295.83	2,246.70	4.43	9.90	81.05	-1,801.99	1,929.29	2,818.06	2,805.72	12.34	228.388		
1,400.00	1,398.70	2,381.24	2,326.63	4.80	10.47	82.05	-1,780.13	1,908.63	2,780.95	2,767.92	13.03	213.371		
1,500.00	1,497.47	2,466.62	2,406.60	5.18	11.03	83.11	-1,757.84	1,888.67	2,743.67	2,729.93	13.74	199.668		
1,600.00	1,595.62	2,561.23	2,495.25	5.57	11.66	84.28	-1,732.71	1,867.21	2,706.25	2,691.75	14.50	186.684		
1,700.00	1,693.06	2,667.26	2,594.38	6.00	12.38	85.62	-1,704.51	1,842.30	2,668.02	2,652.71	15.31	174.279		
1,800.00	1,789.64	2,748.99	2,670.78	6.45	12.94	86.94	-1,682.84	1,823.00	2,629.71	2,613.64	16.07	163.605		
1,900.00	1,885.27	2,835.36	2,751.63	6.94	13.53	88.35	-1,659.67	1,803.33	2,591.83	2,574.94	16.89	153.489		
2,000.00	1,979.82	2,982.52	2,888.71	7.47	14.56	90.39	-1,619.63	1,767.86	2,553.05	2,535.14	17.91	142.541		
2,100.00	2,073.17	3,080.01	2,978.97	8.05	15.27	92.15	-1,591.90	1,743.59	2,513.37	2,494.53	18.84	133.434		
2,200.00	2,165.21	3,146.46	3,040.52	8.67	15.75	93.69	-1,573.26	1,726.85	2,474.45	2,454.73	19.73	125.419		
2,300.00	2,255.84	3,213.99	3,103.29	9.35	16.24	95.28	-1,554.99	1,709.93	2,437.13	2,416.44	20.68	117.823		
2,400.00	2,344.94	3,303.56	3,186.55	10.09	16.89	97.18	-1,530.40	1,687.88	2,400.92	2,379.17	21.76	110.355		
2,500.00	2,432.39	3,390.80	3,267.53	10.89	17.52	99.12	-1,506.27	1,666.20	2,365.83	2,342.95	22.89	103.368		
2,519.29	2,449.07	3,410.06	3,285.39	11.05	17.66	99.54	-1,500.93	1,661.35	2,359.20	2,336.09	23.12	102.050		
2,600.00	2,518.69	3,493.06	3,362.19	11.74	18.28	100.76	-1,477.63	1,640.21	2,331.69	2,307.59	24.11	96.722		
2,700.00	2,604.95	3,590.46	3,451.90	12.62	19.01	102.22	-1,449.32	1,614.97	2,297.77	2,272.42	25.35	90.645		
2,800.00	2,691.22	3,647.47	3,504.48	13.52	19.44	103.09	-1,432.69	1,600.51	2,265.35	2,238.81	26.55	85.337		
2,900.00	2,777.48	3,701.04	3,554.09	14.43	19.84	103.90	-1,417.35	1,587.34	2,234.99	2,207.23	27.77	80.496		
3,000.00	2,863.75	3,760.00	3,608.96	15.35	20.27	104.82	-1,401.09	1,573.15	2,206.92	2,177.90	29.02	76.049		
3,100.00	2,950.01	3,837.16	3,680.91	16.28	20.82	106.03	-1,380.00	1,554.91	2,180.65	2,150.33	30.33	71.908		
3,200.00	3,036.27	3,941.48	3,777.87	17.22	21.58	107.70	-1,351.02	1,529.60	2,155.26	2,123.56	31.69	68.001		
3,300.00	3,122.54	4,020.09	3,850.69	18.17	22.17	109.00	-1,329.01	1,509.80	2,130.84	2,097.79	33.04	64.483		
3,400.00	3,208.80	4,090.99	3,916.46	19.13	22.69	110.17	-1,308.94	1,492.55	2,108.10	2,073.71	34.40	61.287		
3,500.00	3,295.07	4,160.13	3,980.77	20.09	23.20	111.32	-1,289.45	1,476.23	2,087.32	2,051.56	35.76	58.371		
3,600.00	3,381.33	4,229.95	4,045.78	21.05	23.70	112.49	-1,270.10	1,459.70	2,068.52	2,031.38	37.13	55.705		
3,700.00	3,467.59	4,327.92	4,136.93	22.02	24.42	114.15	-1,242.73	1,436.45	2,051.22	2,012.67	38.55	53.209		
3,800.00	3,553.86	4,410.35	4,213.45	22.99	25.03	115.57	-1,219.32	1,416.66	2,035.18	1,995.23	39.96	50.934		
3,900.00	3,640.12	4,479.35	4,277.48	23.97	25.54	116.78	-1,199.86	1,399.88	2,021.00	1,979.65	41.36	48.868		
4,000.00	3,726.38	4,541.31	4,335.14	24.95	25.99	117.86	-1,182.66	1,385.06	2,009.12	1,966.37	42.75	47.002		
4,100.00	3,812.65	4,597.54	4,387.68	25.93	26.39	118.85	-1,167.56	1,371.91	1,999.90	1,955.78	44.12	45.329		
4,200.00	3,898.91	4,649.53	4,436.49	26.91	26.75	119.76	-1,154.12	1,360.10	1,993.50	1,948.03	45.47	43.842		
4,300.00	3,985.18	4,704.00	4,487.94	27.90	27.13	120.71	-1,140.70	1,348.25	1,990.06	1,943.25	46.80	42.518		
4,367.54	4,043.44	4,736.42	4,518.69	28.56	27.33	121.26	-1,133.04	1,341.45	1,989.39	1,941.71	47.68	41.725		
4,400.00	4,071.44	4,753.56	4,534.99	28.88	27.44	121.56	-1,129.08	1,337.93	1,989.54	1,941.45	48.10	41.366		
4,500.00	4,157.70	4,798.00	4,577.38	29.87	27.73	122.32	-1,119.13	1,329.03	1,991.95	1,942.60	49.35	40.367		
4,600.00	4,243.97	4,851.70	4,628.89	30.86	28.05	123.22	-1,107.87	1,318.85	1,997.34	1,946.78	50.57	39.497		
4,700.00	4,330.23	4,900.55	4,676.05	31.85	28.33	124.02	-1,098.47	1,310.23	2,005.85	1,954.11	51.74	38.766		
4,800.00	4,416.49	4,966.07	4,739.56	32.84	28.69	125.08	-1,086.55	1,299.40	2,016.92	1,964.00	52.91	38.117		
4,900.00	4,502.76	5,024.20	4,796.09	33.84	28.99	126.00	-1,076.48	1,290.40	2,030.29	1,976.27	54.02	37.582		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,589.02	5,081.00	4,851.55	34.83	29.29	126.88	-1,067.41	1,282.12	2,046.24	1,991.15	55.09	37.146		
5,100.00	4,675.29	5,140.64	4,909.97	35.82	29.57	127.78	-1,058.61	1,273.94	2,064.57	2,008.46	56.11	36.794		
5,200.00	4,761.55	5,197.94	4,966.25	36.82	29.83	128.62	-1,050.76	1,266.61	2,085.10	2,028.01	57.08	36.528		
5,300.00	4,847.81	5,249.45	5,017.09	37.82	30.05	129.35	-1,044.55	1,261.10	2,108.07	2,050.08	57.98	36.357		
5,400.00	4,934.08	5,305.48	5,072.61	38.81	30.27	130.09	-1,038.75	1,256.33	2,133.37	2,074.52	58.85	36.253		
5,500.00	5,020.34	5,365.00	5,131.74	39.81	30.49	130.85	-1,033.42	1,252.10	2,160.71	2,101.02	59.69	36.202		
5,600.00	5,106.60	5,427.16	5,193.61	40.81	30.69	131.61	-1,028.70	1,248.59	2,189.90	2,129.41	60.49	36.204		
5,700.00	5,192.87	5,492.45	5,258.72	41.81	30.90	132.37	-1,024.58	1,245.96	2,220.75	2,159.48	61.27	36.246		
5,800.00	5,279.13	5,553.00	5,319.17	42.81	31.07	133.02	-1,021.44	1,244.55	2,253.06	2,191.06	62.00	36.341		
5,900.00	5,365.40	5,611.87	5,377.99	43.81	31.22	133.64	-1,019.22	1,243.81	2,287.02	2,224.34	62.68	36.487		
6,000.00	5,451.66	5,668.13	5,434.24	44.81	31.36	134.20	-1,018.06	1,243.36	2,322.80	2,259.48	63.32	36.682		
6,100.00	5,537.92	5,731.41	5,497.51	45.81	31.50	134.81	-1,017.45	1,242.94	2,360.05	2,296.07	63.97	36.891		
6,200.00	5,624.19	5,818.30	5,584.41	46.81	31.70	135.63	-1,017.19	1,242.60	2,398.26	2,333.53	64.73	37.049		
6,300.00	5,710.45	5,914.34	5,680.45	47.81	31.92	136.50	-1,016.65	1,242.42	2,436.68	2,371.15	65.53	37.182		
6,400.00	5,796.72	5,999.33	5,765.43	48.81	32.12	137.27	-1,015.85	1,241.79	2,475.34	2,409.08	66.27	37.355		
6,500.00	5,882.98	6,085.67	5,851.76	49.81	32.33	138.02	-1,015.08	1,241.02	2,514.51	2,447.51	66.99	37.533		
6,600.00	5,969.24	6,168.64	5,934.72	50.82	32.53	138.73	-1,014.30	1,240.18	2,554.08	2,486.38	67.70	37.728		
6,700.00	6,055.51	6,250.98	6,017.05	51.82	32.73	139.42	-1,013.67	1,239.22	2,594.21	2,525.83	68.38	37.936		
6,800.00	6,141.77	6,338.52	6,104.58	52.82	32.94	140.13	-1,013.02	1,238.19	2,634.75	2,565.66	69.09	38.133		
6,900.00	6,228.03	6,427.28	6,193.34	53.83	33.16	140.83	-1,012.27	1,237.22	2,675.54	2,605.74	69.80	38.330		
7,000.00	6,314.30	6,510.60	6,276.66	54.83	33.37	141.47	-1,011.65	1,236.48	2,716.70	2,646.23	70.47	38.549		
7,100.00	6,400.56	6,595.02	6,361.07	55.83	33.57	142.09	-1,011.21	1,236.03	2,758.25	2,687.11	71.15	38.769		
7,200.00	6,486.83	6,693.18	6,459.23	56.84	33.81	142.77	-1,010.81	1,236.29	2,799.94	2,728.06	71.88	38.951		
7,300.00	6,573.09	6,771.16	6,537.20	57.84	33.99	143.30	-1,010.46	1,236.52	2,841.87	2,769.37	72.50	39.196		
7,400.00	6,659.35	6,867.56	6,633.60	58.84	34.23	143.95	-1,009.81	1,236.26	2,884.07	2,810.84	73.23	39.384		
7,500.00	6,745.62	6,944.05	6,710.09	59.85	34.43	144.46	-1,009.18	1,235.95	2,926.45	2,852.62	73.84	39.634		
7,600.00	6,831.88	7,031.72	6,797.76	60.85	34.65	145.02	-1,008.70	1,235.57	2,969.32	2,894.81	74.51	39.854		
7,700.00	6,918.14	7,128.01	6,894.05	61.86	34.89	145.61	-1,008.05	1,235.50	3,012.19	2,936.97	75.22	40.045		
7,800.00	7,004.41	7,221.17	6,987.20	62.86	35.13	146.16	-1,007.29	1,235.82	3,055.03	2,979.12	75.91	40.244		
7,900.00	7,090.67	7,304.75	7,070.78	63.87	35.34	146.65	-1,006.44	1,235.93	3,098.01	3,021.47	76.55	40.471		
8,000.00	7,176.94	7,395.65	7,161.67	64.87	35.58	147.18	-1,005.36	1,235.43	3,141.32	3,064.09	77.23	40.676		
8,027.52	7,200.68	7,424.66	7,190.68	65.15	35.66	147.35	-1,004.88	1,235.16	3,153.21	3,075.78	77.44	40.719		
8,050.00	7,220.18	7,448.48	7,214.49	65.37	35.73	143.65	-1,004.43	1,234.90	3,162.55	3,084.94	77.61	40.750		
8,100.00	7,264.25	7,489.84	7,255.83	65.85	35.85	134.57	-1,003.58	1,234.33	3,180.72	3,102.80	77.93	40.818		
8,150.00	7,308.99	7,532.76	7,298.74	66.28	35.97	124.56	-1,002.66	1,233.59	3,195.26	3,117.02	78.25	40.835		
8,200.00	7,354.07	7,573.52	7,339.49	66.67	36.08	114.03	-1,001.81	1,232.87	3,206.11	3,127.56	78.55	40.814		
8,250.00	7,399.14	7,614.14	7,380.10	67.02	36.19	103.70	-1,001.12	1,232.36	3,213.24	3,134.39	78.85	40.750		
8,300.00	7,443.85	7,657.73	7,423.68	67.32	36.31	94.29	-1,000.60	1,232.12	3,216.61	3,137.45	79.15	40.638		
8,350.00	7,487.88	7,703.61	7,469.56	67.56	36.42	86.24	-1,000.43	1,232.65	3,216.16	3,136.70	79.46	40.477		
8,400.00	7,530.87	7,742.43	7,508.37	67.75	36.52	79.64	-1,000.58	1,233.66	3,211.93	3,132.23	79.71	40.297		
8,450.00	7,572.51	7,774.12	7,540.05	67.90	36.59	74.41	-1,000.73	1,234.35	3,204.11	3,124.22	79.89	40.104		
8,500.00	7,612.48	7,804.36	7,570.28	68.00	36.66	70.46	-1,000.86	1,234.78	3,192.80	3,112.75	80.06	39.881		
8,550.00	7,650.47	7,832.25	7,598.17	68.05	36.73	67.60	-1,000.99	1,235.01	3,178.11	3,097.91	80.19	39.630		
8,600.00	7,686.20	7,857.77	7,623.69	68.06	36.79	65.69	-1,001.14	1,235.10	3,160.17	3,079.86	80.30	39.352		
8,650.00	7,719.39	7,881.48	7,647.40	68.03	36.84	64.61	-1,001.32	1,235.10	3,139.12	3,058.72	80.39	39.047		
8,700.00	7,749.79	7,903.24	7,669.16	67.97	36.90	64.28	-1,001.51	1,235.03	3,115.12	3,034.66	80.46	38.715		
8,750.00	7,777.17	7,922.97	7,688.89	67.87	36.94	64.67	-1,001.71	1,234.90	3,088.35	3,007.84	80.51	38.359		
8,800.00	7,801.32	7,940.57	7,706.48	67.74	36.99	65.75	-1,001.92	1,234.76	3,059.01	2,978.46	80.55	37.978		
8,850.00	7,822.06	7,955.82	7,721.74	67.59	37.02	67.52	-1,002.13	1,234.61	3,027.30	2,946.73	80.57	37.575		
8,900.00	7,839.23	7,968.62	7,734.53	67.41	37.05	70.02	-1,002.32	1,234.47	2,993.43	2,912.86	80.57	37.152		
8,950.00	7,852.69	7,978.83	7,744.74	67.22	37.08	73.28	-1,002.48	1,234.35	2,957.66	2,877.09	80.57	36.710		
9,000.00	7,862.35	7,986.38	7,752.29	67.00	37.10	77.34	-1,002.61	1,234.25	2,920.21	2,839.66	80.56	36.251		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,991.18	7,757.09	66.78	37.11	82.24	-1,002.70	1,234.19	2,881.35	2,800.81	80.54	35.776		
9,098.65	7,870.00	7,993.16	7,759.07	66.55	37.11	87.81	-1,002.73	1,234.16	2,842.44	2,761.92	80.52	35.302		
9,100.00	7,870.00	7,993.18	7,759.09	66.55	37.11	87.81	-1,002.73	1,234.16	2,841.34	2,760.82	80.52	35.288		
9,200.00	7,870.00	7,994.50	7,760.40	66.09	37.12	87.85	-1,002.75	1,234.14	2,761.04	2,680.57	80.47	34.309		
9,300.00	7,870.00	7,995.83	7,761.74	65.65	37.12	87.90	-1,002.78	1,234.12	2,682.07	2,601.64	80.43	33.346		
9,400.00	7,870.00	7,997.19	7,763.09	65.24	37.12	87.94	-1,002.80	1,234.11	2,604.54	2,524.14	80.39	32.397		
9,500.00	7,870.00	7,998.56	7,764.47	64.85	37.13	87.99	-1,002.83	1,234.09	2,528.58	2,448.22	80.36	31.466		
9,600.00	7,870.00	7,999.96	7,765.86	64.48	37.13	88.04	-1,002.85	1,234.07	2,454.35	2,374.02	80.33	30.554		
9,700.00	7,870.00	8,001.37	7,767.27	64.13	37.13	88.09	-1,002.88	1,234.05	2,382.00	2,301.70	80.30	29.662		
9,800.00	7,870.00	8,002.81	7,768.71	63.80	37.14	88.14	-1,002.91	1,234.03	2,311.72	2,231.43	80.29	28.793		
9,900.00	7,870.00	8,004.26	7,770.17	63.50	37.14	88.19	-1,002.93	1,234.00	2,243.69	2,163.41	80.28	27.948		
10,000.00	7,870.00	8,008.00	7,773.90	63.22	37.15	88.31	-1,003.01	1,233.95	2,178.13	2,097.82	80.31	27.122		
10,100.00	7,870.00	8,008.00	7,773.90	62.96	37.15	88.31	-1,003.01	1,233.95	2,115.26	2,034.95	80.31	26.339		
10,200.00	7,870.00	8,009.21	7,775.11	62.72	37.15	88.36	-1,003.03	1,233.93	2,055.33	1,974.99	80.34	25.583		
10,300.00	7,870.00	8,011.62	7,777.52	62.50	37.16	88.44	-1,003.08	1,233.89	1,998.61	1,918.22	80.40	24.859		
10,400.00	7,870.00	8,014.01	7,779.91	62.31	37.16	88.52	-1,003.12	1,233.86	1,945.38	1,864.91	80.48	24.174		
10,500.00	7,870.00	8,016.38	7,782.28	62.15	37.17	88.60	-1,003.17	1,233.83	1,895.93	1,815.36	80.57	23.531		
10,600.00	7,870.00	8,018.73	7,784.63	62.01	37.17	88.68	-1,003.21	1,233.79	1,850.57	1,769.88	80.69	22.934		
10,700.00	7,870.00	8,021.07	7,786.96	61.90	37.18	88.76	-1,003.26	1,233.76	1,809.60	1,728.77	80.83	22.389		
10,800.00	7,870.00	8,023.39	7,789.28	61.82	37.19	88.84	-1,003.30	1,233.73	1,773.32	1,692.34	80.98	21.898		
10,900.00	7,870.00	8,025.69	7,791.59	61.78	37.19	88.92	-1,003.34	1,233.70	1,742.03	1,660.88	81.15	21.467		
11,000.00	7,870.00	8,027.98	7,793.87	61.77	37.20	89.00	-1,003.39	1,233.67	1,716.01	1,634.68	81.33	21.099		
11,100.00	7,870.00	8,030.25	7,796.14	61.81	37.20	89.08	-1,003.43	1,233.64	1,695.49	1,613.97	81.52	20.799		
11,200.00	7,870.00	8,032.50	7,798.40	61.90	37.21	89.16	-1,003.47	1,233.61	1,680.68	1,598.97	81.71	20.570		
11,300.00	7,870.00	8,034.74	7,800.64	62.03	37.21	89.23	-1,003.51	1,233.58	1,671.72	1,589.83	81.89	20.415		
11,400.00	7,870.00	8,036.97	7,802.86	62.23	37.22	89.31	-1,003.55	1,233.56	1,668.72	1,586.66	82.06	20.336		
11,400.16	7,870.00	8,036.97	7,802.86	62.23	37.22	89.31	-1,003.55	1,233.56	1,668.72	1,586.66	82.06	20.335 CC, ES		
11,500.00	7,870.00	8,039.17	7,805.07	62.50	37.22	89.38	-1,003.59	1,233.53	1,671.70	1,589.49	82.22	20.333 SF		
11,600.00	7,870.00	8,041.37	7,807.26	62.84	37.23	89.46	-1,003.63	1,233.50	1,680.64	1,598.28	82.36	20.407		
11,700.00	7,870.00	8,043.54	7,809.44	63.25	37.23	89.53	-1,003.67	1,233.48	1,695.43	1,612.96	82.48	20.557		
11,800.00	7,870.00	8,045.71	7,811.60	63.76	37.24	89.61	-1,003.71	1,233.45	1,715.93	1,633.36	82.57	20.780		
11,900.00	7,870.00	8,047.85	7,813.75	64.34	37.24	89.68	-1,003.75	1,233.43	1,741.94	1,659.29	82.66	21.075		
12,000.00	7,870.00	8,049.99	7,815.88	65.01	37.25	89.76	-1,003.79	1,233.41	1,773.21	1,690.49	82.72	21.437		
12,100.00	7,870.00	8,052.11	7,818.00	65.77	37.25	89.83	-1,003.83	1,233.38	1,809.48	1,726.71	82.77	21.862		
12,200.00	7,870.00	8,054.21	7,820.10	66.61	37.26	89.90	-1,003.87	1,233.36	1,850.44	1,767.63	82.80	22.347		
12,300.00	7,870.00	8,056.30	7,822.19	67.51	37.26	89.97	-1,003.90	1,233.34	1,895.79	1,812.96	82.83	22.887		
12,400.00	7,870.00	8,058.38	7,824.26	68.49	37.27	90.04	-1,003.94	1,233.32	1,945.23	1,862.37	82.85	23.478		
12,500.00	7,870.00	8,060.44	7,826.33	69.52	37.27	90.11	-1,003.98	1,233.30	1,998.45	1,915.58	82.87	24.115		
12,600.00	7,870.00	8,062.48	7,828.37	70.61	37.28	90.18	-1,004.01	1,233.28	2,055.16	1,972.27	82.88	24.796		
12,700.00	7,870.00	8,064.52	7,830.41	71.75	37.28	90.25	-1,004.05	1,233.26	2,115.08	2,032.18	82.89	25.515		
12,800.00	7,870.00	8,066.54	7,832.43	72.93	37.29	90.32	-1,004.09	1,233.24	2,177.94	2,095.03	82.91	26.270		
12,900.00	7,870.00	8,068.55	7,834.43	74.14	37.29	90.39	-1,004.12	1,233.22	2,243.49	2,160.58	82.92	27.058		
13,000.00	7,870.00	8,070.54	7,836.43	75.39	37.30	90.46	-1,004.16	1,233.20	2,311.52	2,228.59	82.93	27.875		
13,100.00	7,870.00	8,072.52	7,838.41	76.67	37.30	90.53	-1,004.19	1,233.19	2,381.80	2,298.86	82.94	28.718		
13,200.00	7,870.00	8,074.49	7,840.37	77.98	37.31	90.60	-1,004.22	1,233.17	2,454.14	2,371.19	82.95	29.587		
13,300.00	7,870.00	8,076.44	7,842.33	79.31	37.31	90.66	-1,004.26	1,233.15	2,528.36	2,445.41	82.96	30.477		
13,400.00	7,870.00	8,078.39	7,844.27	80.67	37.32	90.73	-1,004.29	1,233.14	2,604.31	2,521.34	82.97	31.388		
13,500.00	7,870.00	8,080.32	7,846.20	82.04	37.32	90.80	-1,004.33	1,233.12	2,681.84	2,598.86	82.99	32.317		
13,600.00	7,870.00	8,082.23	7,848.12	83.43	37.33	90.86	-1,004.36	1,233.11	2,760.81	2,677.81	83.00	33.263		
13,700.00	7,870.00	8,084.14	7,850.02	84.84	37.33	90.93	-1,004.39	1,233.09	2,841.11	2,758.09	83.01	34.225		
13,800.00	7,870.00	8,086.03	7,851.91	86.27	37.34	90.99	-1,004.42	1,233.08	2,922.62	2,839.59	83.03	35.200		
13,900.00	7,870.00	8,087.91	7,853.79	87.71	37.34	91.06	-1,004.45	1,233.07	3,005.24	2,922.20	83.04	36.189		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	8,089.78	7,855.66	89.16	37.34	91.12	-1,004.49	1,233.05	3,088.89	3,005.83	83.06	37.189		
14,100.00	7,870.00	8,091.63	7,857.51	90.63	37.35	91.18	-1,004.52	1,233.04	3,173.49	3,090.41	83.08	38.200		
14,200.00	7,870.00	8,093.48	7,859.36	92.10	37.35	91.25	-1,004.55	1,233.03	3,258.96	3,175.86	83.09	39.221		
14,300.00	7,870.00	8,095.31	7,861.19	93.59	37.36	91.31	-1,004.58	1,233.02	3,345.23	3,262.12	83.11	40.251		
14,400.00	7,870.00	8,097.13	7,863.01	95.09	37.36	91.37	-1,004.61	1,233.01	3,432.25	3,349.12	83.13	41.289		
14,500.00	7,870.00	8,098.94	7,864.82	96.60	37.37	91.44	-1,004.64	1,232.99	3,519.95	3,436.81	83.15	42.335		
14,600.00	7,870.00	8,100.74	7,866.62	98.11	37.37	91.50	-1,004.67	1,232.98	3,608.30	3,525.14	83.16	43.387		
14,700.00	7,870.00	8,102.52	7,868.40	99.64	37.38	91.56	-1,004.70	1,232.97	3,697.24	3,614.05	83.18	44.447		
14,800.00	7,870.00	8,104.37	7,870.25	101.17	37.38	91.62	-1,004.73	1,232.96	3,786.73	3,703.52	83.20	45.512		
14,900.00	7,870.00	8,106.23	7,872.11	102.71	37.38	91.69	-1,004.76	1,232.95	3,876.73	3,793.51	83.22	46.582		
15,000.00	7,870.00	8,108.07	7,873.95	104.26	37.39	91.75	-1,004.79	1,232.95	3,967.21	3,883.97	83.24	47.657		
15,100.00	7,870.00	8,109.89	7,875.77	105.82	37.39	91.81	-1,004.82	1,232.94	4,058.14	3,974.87	83.27	48.737		
15,200.00	7,870.00	8,111.70	7,877.58	107.38	37.40	91.87	-1,004.85	1,232.93	4,149.48	4,066.19	83.29	49.821		
15,300.00	7,870.00	8,113.48	7,879.36	108.95	37.40	91.93	-1,004.88	1,232.92	4,241.21	4,157.90	83.31	50.909		
15,400.00	7,870.00	8,115.25	7,881.13	110.52	37.41	91.99	-1,004.91	1,232.92	4,333.31	4,249.98	83.33	52.001		
15,500.00	7,870.00	8,117.00	7,882.88	112.10	37.41	92.05	-1,004.93	1,232.91	4,425.75	4,342.40	83.35	53.095		
15,600.00	7,870.00	8,118.73	7,884.61	113.69	37.41	92.11	-1,004.96	1,232.90	4,518.51	4,435.14	83.38	54.193		
15,700.00	7,870.00	8,120.45	7,886.33	115.28	37.42	92.17	-1,004.99	1,232.90	4,611.58	4,528.18	83.40	55.293		
15,800.00	7,870.00	8,122.15	7,888.03	116.87	37.42	92.23	-1,005.02	1,232.89	4,704.93	4,621.50	83.43	56.396		
15,900.00	7,870.00	8,123.83	7,889.71	118.47	37.43	92.29	-1,005.04	1,232.89	4,798.54	4,715.09	83.45	57.500		
16,000.00	7,870.00	8,125.50	7,891.37	120.07	37.43	92.35	-1,005.07	1,232.89	4,892.41	4,808.93	83.48	58.607		
16,100.00	7,870.00	8,127.15	7,893.02	121.68	37.43	92.40	-1,005.09	1,232.88	4,986.52	4,903.01	83.50	59.715		
16,200.00	7,870.00	8,128.78	7,894.66	123.30	37.44	92.46	-1,005.12	1,232.88	5,080.85	4,997.31	83.53	60.825		
16,300.00	7,870.00	8,130.40	7,896.27	124.91	37.44	92.51	-1,005.14	1,232.88	5,175.39	5,091.83	83.56	61.937		
16,400.00	7,870.00	8,132.00	7,897.88	126.53	37.45	92.57	-1,005.17	1,232.88	5,270.13	5,186.54	83.59	63.050		
16,500.00	7,870.00	8,133.59	7,899.47	128.16	37.45	92.62	-1,005.19	1,232.88	5,365.07	5,281.45	83.62	64.163		
16,600.00	7,870.00	8,135.16	7,901.04	129.79	37.45	92.68	-1,005.22	1,232.88	5,460.18	5,376.54	83.64	65.278		
16,700.00	7,870.00	8,136.72	7,902.60	131.42	37.46	92.73	-1,005.24	1,232.88	5,555.47	5,471.79	83.67	66.394		
16,800.00	7,870.00	8,138.26	7,904.14	133.05	37.46	92.78	-1,005.26	1,232.88	5,650.91	5,567.21	83.70	67.510		
16,900.00	7,870.00	8,139.79	7,905.67	134.69	37.46	92.84	-1,005.29	1,232.88	5,746.52	5,662.78	83.74	68.627		
17,000.00	7,870.00	8,141.31	7,907.18	136.33	37.47	92.89	-1,005.31	1,232.88	5,842.27	5,758.50	83.77	69.744		
17,100.00	7,870.00	8,142.81	7,908.69	137.97	37.47	92.94	-1,005.33	1,232.88	5,938.16	5,854.36	83.80	70.862		
17,200.00	7,870.00	8,144.30	7,910.17	139.62	37.47	92.99	-1,005.35	1,232.88	6,034.18	5,950.35	83.83	71.980		
17,300.00	7,870.00	8,145.77	7,911.65	141.27	37.48	93.04	-1,005.37	1,232.88	6,130.33	6,046.46	83.86	73.098		
17,400.00	7,870.00	8,147.23	7,913.11	142.92	37.48	93.09	-1,005.40	1,232.88	6,226.60	6,142.70	83.90	74.216		
17,500.00	7,870.00	8,148.68	7,914.55	144.58	37.48	93.14	-1,005.42	1,232.89	6,322.98	6,239.05	83.93	75.334		
17,600.00	7,870.00	8,150.11	7,915.99	146.23	37.49	93.19	-1,005.44	1,232.89	6,419.48	6,335.51	83.97	76.452		
17,700.00	7,870.00	8,151.54	7,917.41	147.89	37.49	93.24	-1,005.46	1,232.89	6,516.08	6,432.08	84.00	77.570		
17,800.00	7,870.00	8,152.94	7,918.82	149.56	37.50	93.29	-1,005.48	1,232.90	6,612.78	6,528.74	84.04	78.687		
17,900.00	7,870.00	8,154.34	7,920.22	151.22	37.50	93.33	-1,005.50	1,232.90	6,709.58	6,625.50	84.08	79.804		
18,000.00	7,870.00	8,155.73	7,921.60	152.89	37.50	93.38	-1,005.52	1,232.90	6,806.47	6,722.36	84.11	80.921		
18,100.00	7,870.00	8,157.10	7,922.97	154.55	37.50	93.43	-1,005.54	1,232.91	6,903.45	6,819.30	84.15	82.037		
18,200.00	7,870.00	8,158.46	7,924.33	156.22	37.51	93.47	-1,005.56	1,232.91	7,000.51	6,916.32	84.19	83.153		
18,300.00	7,870.00	8,159.81	7,925.68	157.90	37.51	93.52	-1,005.58	1,232.92	7,097.66	7,013.43	84.23	84.268		
18,400.00	7,870.00	8,161.14	7,927.02	159.57	37.51	93.57	-1,005.59	1,232.92	7,194.88	7,110.61	84.27	85.383		
18,500.00	7,870.00	8,162.47	7,928.34	161.25	37.52	93.61	-1,005.61	1,232.93	7,292.18	7,207.87	84.31	86.497		
18,600.00	7,870.00	8,163.78	7,929.65	162.93	37.52	93.66	-1,005.63	1,232.93	7,389.55	7,305.20	84.35	87.610		
18,700.00	7,870.00	8,165.08	7,930.96	164.60	37.52	93.70	-1,005.65	1,232.94	7,486.99	7,402.60	84.39	88.722		
18,797.52	7,870.00	8,166.34	7,932.21	166.24	37.53	93.74	-1,005.67	1,232.95	7,582.07	7,497.64	84.43	89.806		

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.02	-2,073.07	2,145.56	2,983.83					
100.00	100.00	61.54	61.54	0.13	0.10	134.01	-2,072.96	2,145.54	2,983.39	2,983.15	0.23	N/A		
200.00	200.00	165.70	165.70	0.49	0.36	134.01	-2,072.38	2,145.45	2,982.93	2,982.08	0.85	3,507.646		
300.00	300.00	264.52	264.52	0.85	0.71	134.00	-2,071.98	2,145.35	2,982.58	2,981.02	1.56	1,908.328		
400.00	400.00	371.90	371.89	1.21	1.10	134.00	-2,071.48	2,145.10	2,982.08	2,979.78	2.30	1,293.768		
500.00	500.00	612.70	612.54	1.57	1.96	134.07	-2,069.50	2,137.98	2,979.80	2,976.28	3.52	845.937		
600.00	600.00	732.84	732.22	1.93	2.40	134.21	-2,069.82	2,127.61	2,973.72	2,969.40	4.31	689.563		
700.00	700.00	821.86	820.75	2.29	2.73	134.36	-2,071.84	2,118.41	2,967.88	2,962.88	5.00	593.787		
800.00	800.00	898.19	896.51	2.64	3.03	134.52	-2,074.92	2,109.70	2,962.55	2,956.91	5.64	524.812		
900.00	900.00	966.21	963.89	3.00	3.29	134.70	-2,079.18	2,101.42	2,958.25	2,951.98	6.27	472.004		
1,000.00	1,000.00	1,032.74	1,029.60	3.36	3.56	134.89	-2,084.92	2,092.78	2,955.08	2,948.18	6.89	428.750		
1,100.00	1,099.98	1,084.71	1,080.79	3.72	3.77	80.50	-2,090.55	2,085.82	2,952.98	2,945.52	7.46	395.761		
1,200.00	1,199.84	1,139.00	1,134.18	4.07	4.00	80.77	-2,097.51	2,078.82	2,952.07	2,944.03	8.04	367.125		
1,217.27	1,217.06	1,139.00	1,134.18	4.13	4.00	80.77	-2,097.51	2,078.82	2,952.03	2,943.93	8.10	364.349		
1,300.00	1,299.45	1,180.02	1,174.44	4.43	4.17	80.98	-2,103.49	2,073.78	2,952.41	2,943.84	8.57	344.441		
1,400.00	1,398.70	1,233.00	1,226.36	4.80	4.40	81.27	-2,112.09	2,067.66	2,954.12	2,944.96	9.16	322.429		
1,500.00	1,497.47	1,262.00	1,254.72	5.18	4.53	81.40	-2,117.26	2,064.51	2,957.26	2,947.60	9.66	306.227		
1,600.00	1,595.62	1,321.45	1,312.74	5.57	4.79	81.76	-2,128.69	2,058.37	2,961.74	2,951.43	10.31	287.234		
1,700.00	1,693.06	1,369.22	1,359.23	6.00	5.00	82.04	-2,138.57	2,053.64	2,967.52	2,956.59	10.94	271.329		
1,800.00	1,789.64	1,413.55	1,402.23	6.45	5.20	82.29	-2,148.50	2,049.40	2,974.81	2,963.24	11.57	257.057		
1,900.00	1,885.27	1,433.00	1,421.04	6.94	5.29	82.30	-2,153.09	2,047.57	2,983.88	2,971.76	12.11	246.307		
2,000.00	1,979.82	1,490.94	1,476.90	7.47	5.57	82.68	-2,167.63	2,042.51	2,994.39	2,981.50	12.89	232.249		
2,100.00	2,073.17	1,527.00	1,511.51	8.05	5.74	82.82	-2,177.32	2,039.69	3,006.91	2,993.32	13.60	221.143		
2,200.00	2,165.21	1,561.91	1,544.93	8.67	5.92	82.93	-2,187.14	2,037.24	3,021.32	3,006.98	14.34	210.716		
2,300.00	2,255.84	1,595.93	1,577.40	9.35	6.09	83.01	-2,197.06	2,035.17	3,037.63	3,022.51	15.12	200.908		
2,400.00	2,344.94	1,634.86	1,614.45	10.09	6.28	83.12	-2,208.84	2,033.19	3,055.87	3,039.89	15.98	191.289		
2,500.00	2,432.39	1,695.22	1,671.91	10.89	6.59	83.49	-2,227.18	2,030.69	3,075.59	3,058.59	17.00	180.890		
2,519.29	2,449.07	1,706.76	1,682.90	11.05	6.65	83.56	-2,230.67	2,030.28	3,079.55	3,062.34	17.21	178.985		
2,600.00	2,518.69	1,815.96	1,787.17	11.74	7.22	84.95	-2,262.85	2,026.46	3,096.29	3,077.88	18.42	168.131		
2,700.00	2,604.95	1,863.79	1,832.95	12.62	7.47	85.55	-2,276.63	2,024.91	3,117.90	3,098.47	19.43	160.503		
2,800.00	2,691.22	1,928.99	1,895.32	13.52	7.82	86.36	-2,295.55	2,023.37	3,141.30	3,120.76	20.54	152.937		
2,900.00	2,777.48	2,025.46	1,987.93	14.43	8.33	87.53	-2,322.54	2,021.80	3,165.54	3,143.71	21.83	144.987		
3,000.00	2,863.75	2,091.52	2,051.41	15.35	8.68	88.32	-2,340.80	2,021.03	3,190.99	3,168.04	22.95	139.037		
3,100.00	2,950.01	2,171.49	2,128.15	16.28	9.11	89.27	-2,363.23	2,019.50	3,217.67	3,193.51	24.15	133.218		
3,200.00	3,036.27	2,222.22	2,176.73	17.22	9.40	89.88	-2,377.78	2,017.99	3,245.66	3,220.48	25.18	128.895		
3,300.00	3,122.54	2,265.50	2,218.09	18.17	9.64	90.40	-2,390.48	2,017.03	3,275.48	3,249.33	26.15	125.237		
3,400.00	3,208.80	2,356.79	2,305.43	19.13	10.15	91.45	-2,417.03	2,016.46	3,306.78	3,279.38	27.40	120.671		
3,500.00	3,295.07	2,420.61	2,366.71	20.09	10.50	92.16	-2,434.85	2,017.03	3,338.74	3,310.27	28.48	117.245		
3,600.00	3,381.33	2,475.03	2,418.80	21.05	10.81	92.77	-2,450.61	2,017.05	3,372.18	3,342.70	29.48	114.382		
3,700.00	3,467.59	2,568.37	2,508.09	22.02	11.34	93.81	-2,477.79	2,016.59	3,406.60	3,375.88	30.72	110.881		
3,800.00	3,553.86	2,626.24	2,563.51	22.99	11.67	94.44	-2,494.42	2,016.90	3,441.98	3,410.25	31.73	108.484		
3,900.00	3,640.12	2,870.27	2,798.16	23.97	13.04	97.06	-2,560.86	2,012.73	3,476.70	3,442.82	33.88	102.627		
4,000.00	3,726.38	2,913.72	2,840.01	24.95	13.29	97.54	-2,572.30	2,010.42	3,510.82	3,476.03	34.80	100.894		
4,100.00	3,812.65	2,963.98	2,888.40	25.93	13.58	98.08	-2,585.73	2,008.50	3,546.50	3,510.76	35.74	99.225		
4,200.00	3,898.91	3,024.73	2,946.92	26.91	13.92	98.71	-2,601.97	2,007.08	3,583.44	3,546.70	36.74	97.544		
4,300.00	3,985.18	3,126.51	3,044.99	27.90	14.50	99.75	-2,629.09	2,004.54	3,621.15	3,583.17	37.98	95.350		
4,400.00	4,071.44	3,181.40	3,097.79	28.88	14.82	100.32	-2,643.87	2,002.11	3,659.55	3,620.63	38.92	94.032		
4,500.00	4,157.70	3,242.05	3,155.99	29.87	15.17	100.95	-2,660.64	1,998.93	3,699.18	3,659.30	39.88	92.753		
4,600.00	4,243.97	3,337.29	3,247.44	30.86	15.73	101.93	-2,686.76	1,993.87	3,739.51	3,698.45	41.06	91.072		
4,700.00	4,330.23	3,394.16	3,302.09	31.85	16.06	102.50	-2,702.28	1,991.35	3,780.66	3,738.68	41.98	90.066		
4,800.00	4,416.49	3,446.61	3,352.49	32.84	16.37	103.01	-2,716.68	1,989.39	3,822.82	3,779.97	42.85	89.210		
4,900.00	4,502.76	3,494.32	3,398.26	33.84	16.65	103.47	-2,730.07	1,987.70	3,866.20	3,822.52	43.68	88.508		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,589.02	3,563.82	3,464.85	34.83	17.06	104.13	-2,749.83	1,985.59	3,910.61	3,865.97	44.65	87.591		
5,100.00	4,675.29	3,636.47	3,534.53	35.82	17.49	104.80	-2,770.33	1,984.16	3,955.66	3,910.03	45.62	86.705		
5,200.00	4,761.55	3,703.63	3,598.97	36.82	17.88	105.40	-2,789.28	1,983.42	4,001.42	3,954.87	46.55	85.956		
5,300.00	4,847.81	3,765.26	3,658.03	37.82	18.25	105.95	-2,806.82	1,982.61	4,047.97	4,000.53	47.43	85.337		
5,400.00	4,934.08	3,822.22	3,712.55	38.81	18.59	106.46	-2,823.28	1,981.30	4,095.35	4,047.07	48.28	84.828		
5,500.00	5,020.34	3,875.07	3,763.00	39.81	18.91	106.94	-2,838.89	1,979.13	4,143.65	4,094.57	49.08	84.425		
5,600.00	5,106.60	5,048.67	4,916.06	40.81	24.23	115.94	-3,029.52	1,951.61	4,177.60	4,121.70	55.90	74.732		
5,700.00	5,192.87	5,149.94	5,017.27	41.81	24.53	116.62	-3,032.91	1,950.37	4,206.24	4,149.30	56.94	73.870		
5,800.00	5,279.13	5,234.55	5,101.83	42.81	24.79	117.17	-3,035.49	1,949.42	4,235.10	4,177.18	57.92	73.125		
5,900.00	5,365.40	5,302.00	5,169.24	43.81	24.99	117.61	-3,037.80	1,948.69	4,264.72	4,205.90	58.82	72.502		
6,000.00	5,451.66	5,460.15	5,327.34	44.81	25.46	118.61	-3,041.34	1,948.29	4,293.53	4,233.48	60.05	71.505		
6,100.00	5,537.92	5,545.72	5,412.91	45.81	25.70	119.13	-3,042.92	1,948.52	4,322.75	4,261.74	61.01	70.859		
6,200.00	5,624.19	5,638.66	5,505.83	46.81	25.97	119.70	-3,044.52	1,948.75	4,352.26	4,290.27	61.99	70.214		
6,300.00	5,710.45	5,736.79	5,603.94	47.81	26.25	120.29	-3,046.01	1,948.87	4,382.01	4,319.03	62.98	69.578		
6,400.00	5,796.72	5,844.06	5,711.21	48.81	26.56	120.92	-3,047.22	1,949.05	4,411.82	4,347.82	64.00	68.937		
6,500.00	5,882.98	5,965.71	5,832.85	49.81	26.89	121.63	-3,047.82	1,949.44	4,441.46	4,376.41	65.05	68.273		
6,600.00	5,969.24	6,079.78	5,946.92	50.82	27.18	122.29	-3,047.43	1,949.29	4,470.74	4,404.68	66.06	67.672		
6,700.00	6,055.51	6,154.32	6,021.46	51.82	27.37	122.72	-3,047.11	1,948.83	4,500.35	4,433.41	66.94	67.228		
6,800.00	6,141.77	6,224.49	6,091.63	52.82	27.56	123.13	-3,047.02	1,948.24	4,530.60	4,462.80	67.80	66.820		
6,900.00	6,228.03	6,310.84	6,177.97	53.83	27.79	123.62	-3,047.11	1,947.68	4,561.43	4,492.72	68.71	66.386		
7,000.00	6,314.30	6,440.90	6,308.03	54.83	28.12	124.33	-3,046.69	1,947.69	4,592.25	4,522.50	69.75	65.838		
7,100.00	6,400.56	6,532.01	6,399.14	55.83	28.35	124.83	-3,045.82	1,947.32	4,622.86	4,552.20	70.66	65.427		
7,200.00	6,486.83	6,618.23	6,485.34	56.84	28.58	125.32	-3,044.88	1,945.86	4,653.76	4,582.22	71.54	65.049		
7,300.00	6,573.09	6,691.50	6,558.57	57.84	28.78	125.73	-3,044.10	1,943.69	4,685.13	4,612.75	72.38	64.732		
7,400.00	6,659.35	6,759.54	6,626.57	58.84	28.96	126.12	-3,043.56	1,941.29	4,717.13	4,643.94	73.19	64.453		
7,500.00	6,745.62	6,824.90	6,691.88	59.85	29.15	126.49	-3,043.29	1,938.84	4,749.85	4,675.86	73.98	64.203		
7,600.00	6,831.88	6,890.44	6,757.39	60.85	29.34	126.85	-3,043.32	1,936.67	4,783.27	4,708.50	74.77	63.972		
7,700.00	6,918.14	6,962.25	6,829.17	61.86	29.55	127.24	-3,043.65	1,934.70	4,817.34	4,741.76	75.58	63.738		
7,800.00	7,004.41	7,000.00	6,941.14	62.86	31.99	127.85	-3,043.85	1,930.84	4,851.57	4,772.60	78.97	61.433		
7,900.00	7,090.67	7,238.30	7,104.99	63.87	30.33	128.75	-3,041.46	1,924.08	4,884.46	4,806.83	77.64	62.914		
8,000.00	7,176.94	7,294.82	7,161.48	64.87	30.49	129.04	-3,040.72	1,922.42	4,918.06	4,839.69	78.37	62.753		
8,027.52	7,200.68	7,316.31	7,182.96	65.15	30.55	129.15	-3,040.53	1,922.00	4,927.43	4,848.84	78.59	62.695		
8,050.00	7,220.18	7,334.04	7,200.70	65.37	30.60	125.74	-3,040.39	1,921.75	4,934.70	4,855.92	78.78	62.642		
8,100.00	7,264.25	7,374.39	7,241.04	65.85	30.71	117.25	-3,040.15	1,921.52	4,947.94	4,868.75	79.19	62.481		
8,150.00	7,308.99	7,411.34	7,277.99	66.28	30.81	107.63	-3,040.00	1,921.57	4,957.09	4,877.50	79.60	62.277		
8,200.00	7,354.07	7,447.08	7,313.73	66.67	30.91	97.37	-3,039.90	1,921.45	4,962.14	4,882.14	80.00	62.030		
8,250.00	7,399.14	7,482.94	7,349.58	67.02	31.01	87.20	-3,039.84	1,921.15	4,963.05	4,882.66	80.39	61.740		
8,300.00	7,443.85	7,521.00	7,387.65	67.32	31.12	77.82	-3,039.82	1,920.74	4,959.81	4,879.03	80.78	61.401		
8,350.00	7,487.88	7,558.48	7,425.12	67.56	31.23	69.68	-3,039.84	1,920.31	4,952.44	4,871.29	81.15	61.028		
8,400.00	7,530.87	7,667.00	7,533.64	67.75	31.54	63.35	-3,039.30	1,920.20	4,940.53	4,858.75	81.78	60.413		
8,450.00	7,572.51	7,700.79	7,567.43	67.90	31.63	57.96	-3,038.96	1,920.63	4,924.40	4,842.29	82.11	59.974		
8,500.00	7,612.48	7,720.24	7,586.88	68.00	31.69	53.67	-3,038.88	1,920.87	4,904.57	4,822.20	82.36	59.547		
8,550.00	7,650.47	7,738.81	7,605.44	68.05	31.74	50.39	-3,038.87	1,921.08	4,881.13	4,798.53	82.60	59.094		
8,600.00	7,686.20	7,761.00	7,627.63	68.06	31.80	48.02	-3,038.96	1,921.32	4,854.24	4,771.41	82.83	58.605		
8,650.00	7,719.39	7,761.00	7,627.63	68.03	31.80	46.23	-3,038.96	1,921.32	4,824.08	4,741.13	82.95	58.153		
8,700.00	7,749.79	7,788.70	7,655.32	67.97	31.89	45.40	-3,039.22	1,921.61	4,790.78	4,707.60	83.18	57.595		
8,750.00	7,777.17	7,802.88	7,669.51	67.87	31.93	45.14	-3,039.41	1,921.75	4,754.65	4,671.31	83.34	57.054		
8,800.00	7,801.32	7,815.56	7,682.18	67.74	31.97	45.61	-3,039.62	1,921.89	4,715.87	4,632.40	83.47	56.497		
8,850.00	7,822.06	7,826.62	7,693.24	67.59	32.00	46.93	-3,039.83	1,922.00	4,674.73	4,591.14	83.59	55.925		
8,900.00	7,839.23	7,835.96	7,702.57	67.41	32.03	49.31	-3,040.02	1,922.10	4,631.49	4,547.80	83.69	55.341		
8,950.00	7,852.69	7,855.00	7,721.61	67.22	32.09	53.45	-3,040.48	1,922.29	4,586.49	4,502.66	83.83	54.713		
9,000.00	7,862.35	7,855.00	7,721.61	67.00	32.09	59.47	-3,040.48	1,922.29	4,539.94	4,456.07	83.88	54.127		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,855.00	7,721.61	66.78	32.09	69.12	-3,040.48	1,922.29	4,492.26	4,408.34	83.92	53.530		
9,098.65	7,870.00	7,855.00	7,721.61	66.55	32.09	84.05	-3,040.48	1,922.29	4,445.08	4,361.12	83.96	52.942		
9,100.00	7,870.00	7,855.00	7,721.61	66.55	32.09	84.05	-3,040.48	1,922.29	4,443.76	4,359.80	83.96	52.925		
9,200.00	7,870.00	7,856.36	7,722.97	66.09	32.10	84.13	-3,040.52	1,922.30	4,346.27	4,262.22	84.06	51.707		
9,300.00	7,870.00	7,858.66	7,725.27	65.65	32.10	84.26	-3,040.58	1,922.33	4,248.90	4,164.74	84.16	50.486		
9,400.00	7,870.00	7,860.98	7,727.58	65.24	32.11	84.40	-3,040.64	1,922.35	4,151.64	4,067.37	84.27	49.266		
9,500.00	7,870.00	7,863.30	7,729.91	64.85	32.12	84.53	-3,040.70	1,922.38	4,054.52	3,970.14	84.39	48.046		
9,600.00	7,870.00	7,865.64	7,732.25	64.48	32.13	84.67	-3,040.76	1,922.40	3,957.54	3,873.03	84.51	46.828		
9,700.00	7,870.00	7,867.99	7,734.59	64.13	32.13	84.81	-3,040.82	1,922.42	3,860.72	3,776.07	84.65	45.610		
9,800.00	7,870.00	7,870.35	7,736.95	63.80	32.14	84.95	-3,040.88	1,922.45	3,764.06	3,679.27	84.79	44.393		
9,900.00	7,870.00	7,872.72	7,739.32	63.50	32.15	85.08	-3,040.94	1,922.47	3,667.57	3,582.63	84.94	43.178		
10,000.00	7,870.00	7,875.10	7,741.70	63.22	32.16	85.22	-3,041.01	1,922.49	3,571.28	3,486.18	85.10	41.964		
10,100.00	7,870.00	7,877.49	7,744.09	62.96	32.16	85.36	-3,041.07	1,922.52	3,475.19	3,389.92	85.28	40.752		
10,200.00	7,870.00	7,879.89	7,746.49	62.72	32.17	85.50	-3,041.14	1,922.54	3,379.33	3,293.87	85.46	39.542		
10,300.00	7,870.00	7,882.31	7,748.91	62.50	32.18	85.64	-3,041.20	1,922.56	3,283.72	3,198.06	85.66	38.333		
10,400.00	7,870.00	7,884.74	7,751.34	62.31	32.19	85.79	-3,041.26	1,922.59	3,188.37	3,102.49	85.88	37.127		
10,500.00	7,870.00	7,887.18	7,753.77	62.15	32.20	85.93	-3,041.33	1,922.61	3,093.32	3,007.21	86.11	35.924		
10,600.00	7,870.00	7,889.63	7,756.22	62.01	32.20	86.07	-3,041.40	1,922.63	2,998.58	2,912.22	86.36	34.723		
10,700.00	7,870.00	7,892.09	7,758.68	61.90	32.21	86.22	-3,041.46	1,922.66	2,904.19	2,817.57	86.63	33.526		
10,800.00	7,870.00	7,894.56	7,761.16	61.82	32.22	86.36	-3,041.53	1,922.68	2,810.19	2,723.28	86.92	32.332		
10,900.00	7,870.00	7,897.05	7,763.64	61.78	32.23	86.51	-3,041.60	1,922.70	2,716.62	2,629.39	87.23	31.143		
11,000.00	7,870.00	7,899.54	7,766.14	61.77	32.24	86.65	-3,041.66	1,922.73	2,623.52	2,535.95	87.57	29.959		
11,100.00	7,870.00	7,902.05	7,768.65	61.81	32.24	86.80	-3,041.73	1,922.75	2,530.94	2,443.00	87.94	28.780		
11,200.00	7,870.00	7,904.58	7,771.17	61.90	32.25	86.95	-3,041.80	1,922.77	2,438.94	2,350.60	88.34	27.608		
11,300.00	7,870.00	7,907.11	7,773.70	62.03	32.26	87.10	-3,041.87	1,922.80	2,347.60	2,258.82	88.78	26.442		
11,400.00	7,870.00	7,909.66	7,776.25	62.23	32.27	87.25	-3,041.94	1,922.82	2,256.99	2,167.72	89.26	25.285		
11,500.00	7,870.00	7,912.22	7,778.80	62.50	32.28	87.40	-3,042.01	1,922.84	2,167.20	2,077.41	89.79	24.138		
11,600.00	7,870.00	7,914.79	7,781.37	62.84	32.29	87.55	-3,042.08	1,922.87	2,078.33	1,987.98	90.36	23.001		
11,700.00	7,870.00	7,917.37	7,783.96	63.25	32.29	87.70	-3,042.15	1,922.89	1,990.53	1,899.54	90.99	21.877		
11,800.00	7,870.00	7,919.97	7,786.55	63.76	32.30	87.85	-3,042.22	1,922.91	1,903.92	1,812.24	91.68	20.767		
11,900.00	7,870.00	7,922.58	7,789.16	64.34	32.31	88.01	-3,042.30	1,922.94	1,818.68	1,726.24	92.44	19.675		
12,000.00	7,870.00	7,925.20	7,791.78	65.01	32.32	88.16	-3,042.37	1,922.96	1,735.02	1,641.75	93.27	18.602		
12,100.00	7,870.00	7,927.84	7,794.42	65.77	32.33	88.32	-3,042.44	1,922.98	1,653.16	1,558.98	94.18	17.553		
12,200.00	7,870.00	7,930.49	7,797.07	66.61	32.34	88.47	-3,042.52	1,923.01	1,573.40	1,478.22	95.18	16.531		
12,300.00	7,870.00	7,933.15	7,799.73	67.51	32.34	88.63	-3,042.59	1,923.03	1,496.07	1,399.80	96.27	15.541		
12,400.00	7,870.00	7,935.83	7,802.40	68.49	32.35	88.79	-3,042.67	1,923.05	1,421.57	1,324.12	97.45	14.588		
12,500.00	7,870.00	7,938.52	7,805.09	69.52	32.36	88.94	-3,042.74	1,923.08	1,350.36	1,251.65	98.71	13.680		
12,600.00	7,870.00	7,941.22	7,807.79	70.61	32.37	89.10	-3,042.82	1,923.10	1,282.99	1,182.94	100.04	12.824		
12,700.00	7,870.00	7,943.93	7,810.51	71.75	32.38	89.26	-3,042.89	1,923.12	1,220.09	1,118.66	101.43	12.029		
12,800.00	7,870.00	7,946.66	7,813.24	72.93	32.39	89.42	-3,042.97	1,923.15	1,162.41	1,059.58	102.83	11.304		
12,900.00	7,870.00	7,949.41	7,815.98	74.14	32.40	89.59	-3,043.05	1,923.17	1,110.74	1,006.55	104.18	10.661		
13,000.00	7,870.00	7,952.17	7,818.74	75.39	32.41	89.75	-3,043.13	1,923.19	1,065.96	960.54	105.42	10.112		
13,100.00	7,870.00	7,954.94	7,821.51	76.67	32.41	89.91	-3,043.21	1,923.22	1,028.97	922.52	106.45	9.667		
13,200.00	7,870.00	7,957.72	7,824.29	77.98	32.42	90.08	-3,043.29	1,923.24	1,000.64	893.47	107.16	9.338		
13,300.00	7,870.00	7,960.22	7,826.79	79.31	32.43	90.22	-3,043.36	1,923.26	981.71	874.24	107.47	9.135		
13,400.00	7,870.00	7,962.96	7,829.52	80.67	32.44	90.38	-3,043.44	1,923.28	972.74	865.42	107.32	9.064 SF		
13,437.73	7,870.00	7,964.00	7,830.56	81.18	32.44	90.45	-3,043.47	1,923.29	972.01	864.87	107.14	9.073 CC, ES		
13,500.00	7,870.00	7,965.71	7,832.27	82.04	32.45	90.55	-3,043.52	1,923.30	974.00	867.32	106.68	9.130		
13,600.00	7,870.00	7,968.48	7,835.04	83.43	32.46	90.71	-3,043.60	1,923.32	985.45	879.86	105.59	9.333		
13,700.00	7,870.00	7,971.26	7,837.82	84.84	32.47	90.87	-3,043.68	1,923.34	1,006.74	902.62	104.12	9.669		
13,800.00	7,870.00	7,974.06	7,840.62	86.27	32.48	91.04	-3,043.76	1,923.36	1,037.27	934.88	102.39	10.131		
13,900.00	7,870.00	7,976.88	7,843.43	87.71	32.49	91.20	-3,043.84	1,923.38	1,076.25	975.74	100.51	10.708		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,979.71	7,846.26	89.16	32.50	91.37	-3,043.92	1,923.40	1,122.81	1,024.21	98.59	11.388		
14,100.00	7,870.00	7,982.55	7,849.11	90.63	32.51	91.54	-3,044.01	1,923.42	1,176.03	1,079.31	96.72	12.159		
14,200.00	7,870.00	7,985.42	7,851.97	92.10	32.51	91.71	-3,044.09	1,923.44	1,235.06	1,140.11	94.96	13.006		
14,300.00	7,870.00	7,988.30	7,854.85	93.59	32.52	91.88	-3,044.18	1,923.46	1,299.12	1,205.78	93.33	13.919		
14,400.00	7,870.00	7,991.19	7,857.74	95.09	32.53	92.05	-3,044.26	1,923.48	1,367.48	1,275.62	91.86	14.886		
14,500.00	7,870.00	7,994.10	7,860.66	96.60	32.54	92.22	-3,044.35	1,923.50	1,439.55	1,348.99	90.55	15.898		
14,600.00	7,870.00	7,997.03	7,863.58	98.11	32.55	92.39	-3,044.44	1,923.51	1,514.78	1,425.39	89.39	16.945		
14,700.00	7,870.00	7,999.98	7,866.53	99.64	32.56	92.56	-3,044.52	1,923.53	1,592.74	1,504.36	88.38	18.022		
14,800.00	7,870.00	8,002.94	7,869.49	101.17	32.57	92.74	-3,044.61	1,923.55	1,673.03	1,585.54	87.49	19.122		
14,900.00	7,870.00	8,005.93	7,872.47	102.71	32.58	92.91	-3,044.70	1,923.57	1,755.35	1,668.63	86.72	20.241		
15,000.00	7,870.00	8,008.92	7,875.47	104.26	32.59	93.09	-3,044.79	1,923.58	1,839.42	1,753.36	86.05	21.375		
15,100.00	7,870.00	8,011.94	7,878.48	105.82	32.60	93.27	-3,044.88	1,923.60	1,925.00	1,839.53	85.47	22.522		
15,200.00	7,870.00	8,014.97	7,881.51	107.38	32.61	93.45	-3,044.98	1,923.61	2,011.91	1,926.94	84.97	23.678		
15,300.00	7,870.00	8,018.02	7,884.56	108.95	32.62	93.63	-3,045.07	1,923.63	2,099.99	2,015.45	84.54	24.841		
15,400.00	7,870.00	8,021.09	7,887.63	110.52	32.63	93.81	-3,045.16	1,923.64	2,189.08	2,104.92	84.16	26.011		
15,500.00	7,870.00	8,024.18	7,890.72	112.10	32.64	93.99	-3,045.26	1,923.66	2,279.07	2,195.24	83.83	27.186		
15,600.00	7,870.00	8,027.29	7,893.82	113.69	32.65	94.17	-3,045.35	1,923.67	2,369.86	2,286.31	83.55	28.364		
15,700.00	7,870.00	8,030.41	7,896.95	115.28	32.66	94.35	-3,045.45	1,923.69	2,461.37	2,378.06	83.31	29.546		
15,800.00	7,870.00	8,033.56	7,900.09	116.87	32.67	94.54	-3,045.55	1,923.70	2,553.50	2,470.41	83.10	30.730		
15,900.00	7,870.00	8,036.72	7,903.25	118.47	32.68	94.72	-3,045.64	1,923.71	2,646.20	2,563.29	82.91	31.915		
16,000.00	7,870.00	8,039.90	7,906.43	120.07	32.69	94.91	-3,045.74	1,923.73	2,739.42	2,656.66	82.76	33.102		
16,100.00	7,870.00	8,043.10	7,909.63	121.68	32.70	95.10	-3,045.84	1,923.74	2,833.09	2,750.47	82.62	34.289		
16,200.00	7,870.00	8,046.32	7,912.84	123.30	32.71	95.28	-3,045.94	1,923.75	2,927.18	2,844.67	82.51	35.478		
16,300.00	7,870.00	8,049.56	7,916.08	124.91	32.73	95.47	-3,046.04	1,923.76	3,021.64	2,939.23	82.41	36.666		
16,400.00	7,870.00	8,052.82	7,919.34	126.53	32.74	95.66	-3,046.15	1,923.77	3,116.45	3,034.12	82.33	37.855		
16,500.00	7,870.00	8,054.90	7,921.42	128.16	32.74	95.78	-3,046.21	1,923.78	3,211.57	3,129.31	82.26	39.044		
16,600.00	7,870.00	8,057.81	7,924.33	129.79	32.75	95.95	-3,046.30	1,923.79	3,306.97	3,224.77	82.20	40.232		
16,700.00	7,870.00	8,060.70	7,927.22	131.42	32.76	96.12	-3,046.39	1,923.80	3,402.64	3,320.49	82.15	41.420		
16,800.00	7,870.00	8,063.59	7,930.11	133.05	32.77	96.29	-3,046.48	1,923.81	3,498.54	3,416.43	82.11	42.608		
16,900.00	7,870.00	8,066.47	7,932.99	134.69	32.78	96.46	-3,046.57	1,923.82	3,594.67	3,512.59	82.08	43.794		
17,000.00	7,870.00	8,069.34	7,935.86	136.33	32.79	96.63	-3,046.65	1,923.83	3,691.00	3,608.94	82.06	44.981		
17,100.00	7,870.00	8,072.20	7,938.72	137.97	32.80	96.79	-3,046.74	1,923.84	3,787.52	3,705.47	82.04	46.166		
17,200.00	7,870.00	8,075.06	7,941.57	139.62	32.81	96.96	-3,046.83	1,923.85	3,884.21	3,802.17	82.03	47.350		
17,300.00	7,870.00	8,077.90	7,944.41	141.27	32.82	97.12	-3,046.92	1,923.86	3,981.06	3,899.03	82.03	48.533		
17,400.00	7,870.00	8,080.73	7,947.24	142.92	32.83	97.29	-3,047.00	1,923.87	4,078.06	3,996.03	82.03	49.716		
17,500.00	7,870.00	8,083.56	7,950.07	144.58	32.84	97.45	-3,047.09	1,923.88	4,175.20	4,093.17	82.03	50.897		
17,600.00	7,870.00	8,086.37	7,952.88	146.23	32.85	97.62	-3,047.18	1,923.89	4,272.48	4,190.43	82.04	52.077		
17,700.00	7,870.00	8,089.18	7,955.69	147.89	32.86	97.78	-3,047.26	1,923.89	4,369.87	4,287.81	82.05	53.256		
17,800.00	7,870.00	8,091.98	7,958.48	149.56	32.87	97.94	-3,047.35	1,923.90	4,467.37	4,385.30	82.07	54.434		
17,900.00	7,870.00	8,094.77	7,961.27	151.22	32.87	98.10	-3,047.43	1,923.91	4,564.99	4,482.90	82.09	55.610		
18,000.00	7,870.00	8,097.55	7,964.05	152.89	32.88	98.26	-3,047.52	1,923.92	4,662.70	4,580.59	82.11	56.785		
18,100.00	7,870.00	8,100.32	7,966.82	154.55	32.89	98.42	-3,047.60	1,923.93	4,760.50	4,678.37	82.14	57.959		
18,200.00	7,870.00	8,103.08	7,969.58	156.22	32.90	98.58	-3,047.68	1,923.94	4,858.40	4,776.23	82.16	59.131		
18,300.00	7,870.00	8,105.84	7,972.33	157.90	32.91	98.74	-3,047.77	1,923.95	4,956.37	4,874.18	82.19	60.302		
18,400.00	7,870.00	8,108.58	7,975.08	159.57	32.92	98.90	-3,047.85	1,923.95	5,054.42	4,972.20	82.22	61.472		
18,500.00	7,870.00	8,111.32	7,977.81	161.25	32.93	99.06	-3,047.93	1,923.96	5,152.55	5,070.29	82.26	62.640		
18,600.00	7,870.00	8,114.05	7,980.54	162.93	32.94	99.21	-3,048.01	1,923.97	5,250.75	5,168.45	82.29	63.806		
18,700.00	7,870.00	8,116.77	7,983.26	164.60	32.95	99.37	-3,048.09	1,923.98	5,349.01	5,266.68	82.33	64.971		
18,797.52	7,870.00	8,119.41	7,985.90	166.24	32.96	99.52	-3,048.17	1,923.98	5,444.89	5,362.52	82.37	66.106		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	109.12	-1,475.37	4,256.85	4,505.55					
100.00	100.00	32.70	32.70	0.13	0.05	109.12	-1,475.36	4,256.92	4,505.37	4,505.19	0.19	N/A		
200.00	200.00	98.10	98.09	0.49	0.16	109.11	-1,475.29	4,257.48	4,506.14	4,505.49	0.65	6,958.959		
300.00	300.00	242.49	242.48	0.85	0.62	109.10	-1,474.80	4,258.93	4,507.06	4,505.58	1.47	3,058.470		
400.00	400.00	521.62	521.21	1.21	1.60	109.24	-1,483.64	4,250.68	4,505.41	4,502.60	2.81	1,601.322		
500.00	500.00	619.05	617.92	1.57	1.97	109.38	-1,492.81	4,243.29	4,501.35	4,497.81	3.54	1,271.018		
600.00	600.00	687.77	685.77	1.93	2.26	109.52	-1,502.11	4,237.66	4,498.06	4,493.88	4.18	1,076.514		
700.00	700.00	792.76	788.63	2.29	2.72	109.78	-1,520.59	4,227.66	4,494.94	4,489.94	5.00	898.919		
800.00	800.00	875.45	869.04	2.64	3.12	110.03	-1,537.78	4,218.94	4,492.03	4,486.28	5.75	780.789		
900.00	900.00	950.00	941.29	3.00	3.49	110.26	-1,554.39	4,211.11	4,489.75	4,483.27	6.49	692.325		
1,000.00	1,000.00	1,106.11	1,092.45	3.36	4.31	110.76	-1,589.53	4,194.17	4,487.54	4,479.88	7.66	586.103		
1,100.00	1,099.98	1,214.00	1,197.02	3.72	4.88	56.56	-1,612.77	4,181.35	4,483.04	4,474.46	8.58	522.452		
1,200.00	1,199.84	1,275.86	1,257.06	4.07	5.20	56.88	-1,625.94	4,174.33	4,477.27	4,468.01	9.26	483.420		
1,300.00	1,299.45	1,364.93	1,343.49	4.43	5.68	57.35	-1,645.21	4,164.85	4,470.47	4,460.37	10.09	442.841		
1,400.00	1,398.70	1,450.51	1,426.20	4.80	6.15	57.89	-1,664.90	4,155.07	4,461.85	4,450.92	10.93	408.290		
1,500.00	1,497.47	1,526.85	1,499.80	5.18	6.58	58.44	-1,683.27	4,146.43	4,452.13	4,440.40	11.73	379.570		
1,600.00	1,595.62	1,612.55	1,582.32	5.57	7.07	59.10	-1,704.21	4,136.64	4,441.01	4,428.41	12.60	352.371		
1,700.00	1,693.06	1,674.99	1,642.45	6.00	7.42	59.68	-1,719.57	4,129.75	4,428.93	4,415.56	13.36	331.390		
1,800.00	1,789.64	1,785.79	1,749.29	6.45	8.05	60.60	-1,746.40	4,117.86	4,415.69	4,401.26	14.42	306.145		
1,900.00	1,885.27	1,890.25	1,850.20	6.94	8.64	61.54	-1,770.86	4,106.44	4,400.82	4,385.35	15.47	284.501		
2,000.00	1,979.82	2,017.67	1,973.55	7.47	9.35	62.71	-1,799.34	4,092.00	4,384.17	4,367.50	16.67	263.018		
2,100.00	2,073.17	2,202.09	2,152.31	8.05	10.36	64.39	-1,838.22	4,068.74	4,365.07	4,346.86	18.21	239.721		
2,200.00	2,165.21	2,279.98	2,227.93	8.67	10.79	65.37	-1,853.79	4,058.44	4,344.43	4,325.22	19.21	226.120		
2,300.00	2,255.84	2,346.00	2,292.03	9.35	11.14	66.30	-1,867.01	4,049.74	4,323.16	4,302.96	20.20	213.979		
2,400.00	2,344.94	2,403.76	2,348.13	10.09	11.46	67.19	-1,878.61	4,042.34	4,301.63	4,280.42	21.20	202.861		
2,500.00	2,432.39	2,456.30	2,399.20	10.89	11.74	68.06	-1,889.16	4,035.99	4,280.11	4,257.87	22.24	192.472		
2,519.29	2,449.07	2,467.85	2,410.43	11.05	11.80	68.24	-1,891.50	4,034.62	4,275.96	4,253.51	22.45	190.452		
2,600.00	2,518.69	2,515.95	2,457.17	11.74	12.06	68.68	-1,901.33	4,028.94	4,258.98	4,235.62	23.36	182.319		
2,700.00	2,604.95	2,700.00	2,552.03	12.62	13.06	69.58	-1,921.32	4,017.00	4,238.55	4,213.36	25.19	168.255		
2,800.00	2,691.22	2,692.46	2,628.62	13.52	13.02	70.31	-1,937.16	4,007.13	4,218.85	4,192.84	26.01	162.231		
2,900.00	2,777.48	2,746.01	2,680.71	14.43	13.31	70.81	-1,947.81	4,000.76	4,200.48	4,173.31	27.17	154.595		
3,000.00	2,863.75	2,800.09	2,733.39	15.35	13.59	71.30	-1,958.41	3,994.73	4,183.48	4,155.13	28.35	147.549		
3,100.00	2,950.01	2,873.39	2,804.91	16.28	13.97	71.98	-1,972.55	3,987.00	4,167.74	4,138.09	29.65	140.569		
3,200.00	3,036.27	2,956.69	2,886.20	17.22	14.41	72.74	-1,988.42	3,978.16	4,152.89	4,121.88	31.01	133.921		
3,300.00	3,122.54	3,032.14	2,959.85	18.17	14.80	73.44	-2,002.70	3,970.06	4,138.93	4,106.59	32.34	127.968		
3,400.00	3,208.80	3,094.58	3,020.64	19.13	15.13	74.03	-2,015.07	3,963.08	4,126.16	4,092.54	33.62	122.726		
3,500.00	3,295.07	3,152.37	3,076.79	20.09	15.45	74.58	-2,027.07	3,956.42	4,114.70	4,079.81	34.89	117.938		
3,600.00	3,381.33	3,208.89	3,131.60	21.05	15.76	75.12	-2,039.17	3,949.90	4,104.64	4,068.48	36.16	113.529		
3,700.00	3,467.59	3,265.27	3,186.38	22.02	16.06	75.65	-2,051.08	3,943.82	4,095.99	4,058.57	37.42	109.458		
3,800.00	3,553.86	3,321.63	3,241.26	22.99	16.36	76.18	-2,062.66	3,938.33	4,088.75	4,050.07	38.68	105.700		
3,900.00	3,640.12	3,378.00	3,296.21	23.97	16.66	76.71	-2,074.16	3,933.24	4,082.94	4,043.00	39.94	102.226		
4,000.00	3,726.38	3,475.45	3,391.15	24.95	17.18	77.63	-2,094.22	3,924.20	4,078.16	4,036.72	41.44	98.413		
4,100.00	3,812.65	3,573.13	3,486.09	25.93	17.70	78.56	-2,114.73	3,913.98	4,074.07	4,031.13	42.94	94.882		
4,200.00	3,898.91	3,697.05	3,606.79	26.91	18.35	79.74	-2,139.48	3,900.68	4,070.43	4,025.86	44.58	91.309		
4,300.00	3,985.18	3,798.65	3,706.18	27.90	18.86	80.69	-2,157.75	3,890.30	4,067.08	4,021.01	46.07	88.278		
4,400.00	4,071.44	3,881.01	3,787.09	28.88	19.26	81.44	-2,171.26	3,882.91	4,064.59	4,017.15	47.44	85.682		
4,500.00	4,157.70	4,001.97	3,906.43	29.87	19.80	82.51	-2,188.74	3,873.89	4,062.88	4,013.91	48.96	82.979		
4,600.00	4,243.97	4,189.39	4,092.59	30.86	20.54	84.08	-2,207.40	3,863.12	4,060.11	4,009.42	50.69	80.096		
4,700.00	4,330.23	4,321.23	4,224.12	31.85	21.00	85.12	-2,214.96	3,858.33	4,056.86	4,004.73	52.13	77.829		
4,800.00	4,416.49	4,432.16	4,334.95	32.84	21.33	85.96	-2,218.67	3,855.80	4,053.56	4,000.13	53.43	75.872		
4,900.00	4,502.76	4,545.12	4,447.88	33.84	21.66	86.80	-2,220.72	3,854.12	4,050.39	3,995.66	54.73	74.005		
5,000.00	4,589.02	4,661.64	4,564.39	34.83	21.98	87.65	-2,221.12	3,853.16	4,047.27	3,991.24	56.03	72.237		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,774.72	4,677.47	35.82	22.27	88.46	-2,220.55	3,852.11	4,044.15	3,986.86	57.29	70.592		
5,200.00	4,761.55	4,870.73	4,773.47	36.82	22.50	89.15	-2,219.48	3,851.22	4,041.27	3,982.77	58.50	69.079		
5,300.00	4,847.81	4,968.56	4,871.29	37.82	22.75	89.86	-2,218.33	3,850.05	4,038.83	3,979.11	59.72	67.629		
5,400.00	4,934.08	5,042.58	4,945.30	38.81	22.95	90.39	-2,217.52	3,848.99	4,036.99	3,976.09	60.89	66.296		
5,500.00	5,020.34	5,112.23	5,014.94	39.81	23.14	90.90	-2,217.06	3,848.05	4,036.13	3,974.07	62.05	65.041		
5,536.00	5,051.40	5,137.27	5,039.98	40.17	23.20	91.08	-2,216.97	3,847.73	4,036.06	3,973.59	62.47	64.606		
5,600.00	5,106.60	5,181.74	5,084.44	40.81	23.33	91.41	-2,216.90	3,847.17	4,036.27	3,973.06	63.21	63.855		
5,700.00	5,192.87	5,251.11	5,153.80	41.81	23.51	91.91	-2,217.05	3,846.36	4,037.41	3,973.05	64.36	62.732		
5,800.00	5,279.13	5,328.34	5,231.03	42.81	23.74	92.48	-2,217.46	3,845.52	4,039.49	3,973.96	65.53	61.640		
5,900.00	5,365.40	5,412.01	5,314.69	43.81	23.98	93.09	-2,218.01	3,844.66	4,042.34	3,975.62	66.72	60.584		
6,000.00	5,451.66	5,510.87	5,413.55	44.81	24.27	93.81	-2,218.57	3,843.61	4,045.78	3,977.83	67.95	59.541		
6,100.00	5,537.92	5,609.88	5,512.55	45.81	24.56	94.53	-2,218.71	3,842.42	4,049.48	3,980.31	69.17	58.545		
6,200.00	5,624.19	5,702.50	5,605.16	46.81	24.82	95.21	-2,218.62	3,841.29	4,053.65	3,983.29	70.36	57.611		
6,300.00	5,710.45	5,779.66	5,682.31	47.81	25.05	95.77	-2,218.49	3,840.36	4,058.43	3,986.93	71.51	56.755		
6,400.00	5,796.72	5,876.92	5,779.56	48.81	25.33	96.47	-2,218.72	3,839.09	4,064.14	3,991.44	72.70	55.900		
6,500.00	5,882.98	5,999.43	5,902.06	49.81	25.67	97.35	-2,217.69	3,837.30	4,069.52	3,995.57	73.96	55.027		
6,600.00	5,969.24	6,078.34	5,980.96	50.82	25.89	97.92	-2,216.81	3,836.15	4,075.40	4,000.32	75.08	54.280		
6,700.00	6,055.51	6,159.63	6,062.24	51.82	26.12	98.50	-2,216.07	3,835.08	4,082.11	4,005.90	76.21	53.567		
6,800.00	6,141.77	6,249.53	6,152.12	52.82	26.38	99.14	-2,215.19	3,833.94	4,089.42	4,012.07	77.35	52.871		
6,900.00	6,228.03	6,336.14	6,238.72	53.83	26.62	99.76	-2,214.39	3,832.55	4,097.27	4,018.80	78.48	52.211		
7,000.00	6,314.30	6,417.27	6,319.83	54.83	26.86	100.34	-2,213.79	3,831.12	4,105.83	4,026.25	79.58	51.592		
7,100.00	6,400.56	6,502.92	6,405.46	55.83	27.11	100.95	-2,213.25	3,829.47	4,115.05	4,034.36	80.70	50.994		
7,200.00	6,486.83	6,587.32	6,489.86	56.84	27.31	101.41	-2,213.00	3,828.34	4,125.15	4,043.40	81.74	50.465		
7,300.00	6,573.09	6,673.31	6,575.83	57.84	27.54	101.94	-2,212.90	3,827.32	4,136.19	4,053.38	82.81	49.947		
7,400.00	6,659.35	6,759.37	6,662.10	58.84	27.77	102.48	-2,212.85	3,826.50	4,147.98	4,064.11	83.87	49.455		
7,500.00	6,745.62	6,845.49	6,748.01	59.85	27.99	102.98	-2,213.03	3,825.78	4,160.66	4,075.74	84.91	48.999		
7,600.00	6,831.88	6,931.51	6,834.02	60.85	28.23	103.52	-2,213.46	3,824.92	4,174.13	4,088.17	85.97	48.556		
7,700.00	6,918.14	7,018.16	6,920.66	61.86	28.48	104.07	-2,214.09	3,823.90	4,188.35	4,101.34	87.01	48.136		
7,800.00	7,004.41	7,104.27	6,999.76	62.86	28.74	104.63	-2,214.94	3,822.63	4,203.30	4,115.24	88.05	47.736		
7,900.00	7,090.67	7,190.51	7,092.97	63.87	29.04	105.27	-2,216.10	3,820.70	4,218.88	4,129.75	89.12	47.338		
8,000.00	7,176.94	7,276.44	7,178.87	64.87	29.31	105.86	-2,217.18	3,818.46	4,234.92	4,144.76	90.16	46.971		
8,027.52	7,200.68	7,223.22	7,125.63	65.15	29.38	106.00	-2,217.48	3,817.87	4,239.47	4,149.03	90.44	46.878		
8,050.00	7,220.18	7,240.27	7,142.68	65.37	29.44	102.81	-2,217.73	3,817.38	4,242.81	4,152.15	90.66	46.799		
8,100.00	7,264.25	7,280.20	7,182.58	65.85	29.57	94.69	-2,218.37	3,816.20	4,247.34	4,156.18	91.16	46.593		
8,150.00	7,308.99	7,321.22	7,223.58	66.28	29.71	85.29	-2,219.07	3,814.95	4,247.83	4,156.19	91.65	46.351		
8,200.00	7,354.07	7,362.56	7,264.89	66.67	29.85	75.09	-2,219.82	3,813.64	4,244.27	4,152.16	92.11	46.076		
8,250.00	7,399.14	7,403.91	7,306.21	67.02	29.99	64.79	-2,220.62	3,812.28	4,236.66	4,144.11	92.56	45.773		
8,300.00	7,443.85	7,448.72	7,308.92	67.32	30.63	56.03	-2,220.12	3,807.02	4,224.13	4,130.62	93.50	45.176		
8,350.00	7,487.88	7,492.07	7,352.25	67.56	30.76	47.40	-2,218.80	3,806.64	4,206.81	4,112.91	93.90	44.801		
8,400.00	7,530.87	7,532.72	7,395.88	67.75	30.87	39.91	-2,217.81	3,806.38	4,185.71	4,091.47	94.24	44.417		
8,450.00	7,572.51	7,572.88	7,431.03	67.90	30.97	33.51	-2,216.88	3,806.13	4,160.96	4,066.42	94.54	44.012		
8,500.00	7,612.48	7,612.28	7,476.42	68.00	31.07	28.03	-2,215.93	3,805.96	4,132.71	4,037.89	94.82	43.585		
8,550.00	7,650.47	7,650.81	7,523.93	68.05	31.17	23.20	-2,215.01	3,805.91	4,101.14	4,006.08	95.06	43.142		
8,600.00	7,686.20	7,686.26	7,573.38	68.06	31.26	18.79	-2,214.13	3,805.95	4,066.48	3,971.21	95.27	42.683		
8,650.00	7,719.39	7,719.32	7,618.42	68.03	31.35	14.56	-2,213.33	3,806.02	4,028.97	3,933.53	95.45	42.212		
8,700.00	7,749.79	7,749.65	7,663.74	67.97	31.43	10.24	-2,212.59	3,806.11	3,988.90	3,893.31	95.59	41.730		
8,750.00	7,777.17	7,777.10	7,712.48	67.87	31.49	5.49	-2,211.95	3,806.21	3,946.54	3,850.85	95.69	41.241		
8,800.00	7,801.32	7,801.32	7,742.34	67.74	31.55	-0.17	-2,211.42	3,806.31	3,902.23	3,806.47	95.77	40.748		
8,850.00	7,822.06	7,822.02	7,780.09	67.59	31.60	-7.48	-2,210.97	3,806.42	3,856.30	3,760.49	95.81	40.250		
8,900.00	7,839.23	7,839.23	7,774.61	67.41	31.64	-17.65	-2,210.60	3,806.53	3,809.09	3,713.27	95.82	39.752		
8,950.00	7,852.69	7,852.69	7,785.76	67.22	31.67	-32.43	-2,210.33	3,806.61	3,760.97	3,665.16	95.81	39.256		
9,000.00	7,862.35	7,862.35	7,793.45	67.00	31.69	-52.88	-2,210.14	3,806.68	3,712.30	3,616.54	95.77	38.764		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,995.54	7,897.60	66.78	31.70	-75.97	-2,210.03	3,806.72	3,663.47	3,567.77	95.70	38.280		
9,098.65	7,870.00	7,996.15	7,898.21	66.55	31.71	-94.92	-2,210.02	3,806.72	3,616.17	3,520.55	95.62	37.819		
9,100.00	7,870.00	7,996.12	7,898.18	66.55	31.71	-94.92	-2,210.02	3,806.72	3,614.86	3,519.25	95.61	37.807		
9,200.00	7,870.00	7,993.88	7,895.94	66.09	31.70	-94.78	-2,210.08	3,806.70	3,518.19	3,422.77	95.42	36.872		
9,300.00	7,870.00	7,991.64	7,893.70	65.65	31.69	-94.64	-2,210.13	3,806.68	3,421.70	3,326.49	95.21	35.940		
9,400.00	7,870.00	7,989.39	7,891.45	65.24	31.69	-94.50	-2,210.19	3,806.66	3,325.42	3,230.43	94.99	35.009		
9,500.00	7,870.00	7,987.13	7,889.20	64.85	31.68	-94.36	-2,210.24	3,806.64	3,229.37	3,134.61	94.75	34.082		
9,600.00	7,870.00	7,984.87	7,886.94	64.48	31.68	-94.21	-2,210.30	3,806.62	3,133.55	3,039.05	94.51	33.157		
9,700.00	7,870.00	7,982.61	7,884.67	64.13	31.67	-94.07	-2,210.35	3,806.61	3,038.01	2,943.77	94.25	32.235		
9,800.00	7,870.00	7,980.33	7,882.40	63.80	31.66	-93.93	-2,210.41	3,806.59	2,942.76	2,848.80	93.97	31.316		
9,900.00	7,870.00	7,978.05	7,880.12	63.50	31.66	-93.79	-2,210.47	3,806.57	2,847.84	2,754.17	93.67	30.402		
10,000.00	7,870.00	7,975.77	7,877.83	63.22	31.65	-93.64	-2,210.52	3,806.55	2,753.27	2,659.91	93.36	29.491		
10,100.00	7,870.00	7,973.48	7,875.54	62.96	31.64	-93.50	-2,210.58	3,806.53	2,659.10	2,566.08	93.02	28.585		
10,200.00	7,870.00	7,971.18	7,873.25	62.72	31.64	-93.35	-2,210.64	3,806.52	2,565.37	2,472.70	92.67	27.684		
10,300.00	7,870.00	7,968.87	7,870.94	62.50	31.63	-93.21	-2,210.70	3,806.50	2,472.12	2,379.84	92.28	26.788		
10,400.00	7,870.00	7,966.56	7,868.63	62.31	31.62	-93.06	-2,210.75	3,806.48	2,379.43	2,287.55	91.87	25.899		
10,500.00	7,870.00	7,964.25	7,866.32	62.15	31.62	-92.92	-2,210.81	3,806.47	2,287.34	2,195.91	91.44	25.016		
10,600.00	7,870.00	7,961.92	7,864.00	62.01	31.61	-92.77	-2,210.87	3,806.45	2,195.95	2,104.98	90.96	24.141		
10,700.00	7,870.00	7,959.59	7,861.67	61.90	31.61	-92.63	-2,210.93	3,806.43	2,105.33	2,014.87	90.46	23.274		
10,800.00	7,870.00	7,957.26	7,859.33	61.82	31.60	-92.48	-2,210.99	3,806.42	2,015.60	1,925.68	89.92	22.416		
10,900.00	7,870.00	7,954.92	7,856.99	61.78	31.59	-92.33	-2,211.05	3,806.40	1,926.88	1,837.54	89.34	21.569		
11,000.00	7,870.00	7,952.57	7,854.64	61.77	31.59	-92.18	-2,211.11	3,806.39	1,839.31	1,750.59	88.71	20.733		
11,100.00	7,870.00	7,950.21	7,852.29	61.81	31.58	-92.04	-2,211.16	3,806.37	1,753.07	1,665.02	88.05	19.909		
11,200.00	7,870.00	7,947.85	7,849.93	61.90	31.57	-91.89	-2,211.22	3,806.36	1,668.36	1,581.01	87.35	19.099		
11,300.00	7,870.00	7,945.49	7,847.56	62.03	31.57	-91.74	-2,211.28	3,806.34	1,585.43	1,498.81	86.62	18.303		
11,400.00	7,870.00	7,943.11	7,845.19	62.23	31.56	-91.59	-2,211.34	3,806.33	1,504.58	1,418.71	85.87	17.523		
11,500.00	7,870.00	7,940.73	7,842.81	62.50	31.55	-91.44	-2,211.40	3,806.32	1,426.15	1,341.04	85.10	16.758		
11,600.00	7,870.00	7,938.34	7,840.42	62.84	31.55	-91.29	-2,211.47	3,806.30	1,350.56	1,266.20	84.36	16.009		
11,700.00	7,870.00	7,935.95	7,838.03	63.25	31.54	-91.14	-2,211.53	3,806.29	1,278.34	1,194.64	83.69	15.274		
11,800.00	7,870.00	7,933.55	7,835.63	63.76	31.53	-90.99	-2,211.59	3,806.28	1,210.06	1,126.92	83.15	14.553		
11,900.00	7,870.00	7,931.14	7,833.23	64.34	31.53	-90.83	-2,211.65	3,806.26	1,146.45	1,063.63	82.82	13.843		
12,000.00	7,870.00	7,928.73	7,830.81	65.01	31.52	-90.68	-2,211.71	3,806.25	1,088.31	1,005.51	82.80	13.143		
12,100.00	7,870.00	7,926.31	7,828.39	65.77	31.51	-90.53	-2,211.77	3,806.24	1,036.58	953.35	83.23	12.454		
12,200.00	7,870.00	7,923.88	7,825.97	66.61	31.51	-90.38	-2,211.84	3,806.23	992.25	908.04	84.20	11.784		
12,300.00	7,870.00	7,921.45	7,823.54	67.51	31.50	-90.22	-2,211.90	3,806.22	956.35	870.57	85.78	11.149		
12,400.00	7,870.00	7,919.01	7,821.10	68.49	31.49	-90.07	-2,211.96	3,806.20	929.85	841.91	87.94	10.574		
12,500.00	7,870.00	7,916.72	7,818.81	69.52	31.49	-89.92	-2,212.02	3,806.19	913.59	823.02	90.57	10.087		
12,600.00	7,870.00	7,914.20	7,816.29	70.61	31.48	-89.77	-2,212.08	3,806.18	908.10	814.62	93.48	9.714 CC		
12,600.00	7,870.00	7,914.20	7,816.29	70.61	31.48	-89.77	-2,212.08	3,806.18	908.10	814.62	93.48	9.714 ES		
12,700.00	7,870.00	7,911.68	7,813.77	71.75	31.47	-89.61	-2,212.15	3,806.17	913.59	817.15	96.44	9.473		
12,800.00	7,870.00	7,909.16	7,811.25	72.93	31.47	-89.45	-2,212.21	3,806.16	929.85	830.61	99.25	9.369 SF		
12,900.00	7,870.00	7,906.64	7,808.73	74.14	31.46	-89.29	-2,212.28	3,806.15	956.35	854.61	101.73	9.401		
13,000.00	7,870.00	7,904.12	7,806.21	75.39	31.45	-89.13	-2,212.34	3,806.14	992.25	888.42	103.83	9.557		
13,100.00	7,870.00	7,901.59	7,803.69	76.67	31.45	-88.97	-2,212.41	3,806.13	1,036.58	931.07	105.51	9.824		
13,200.00	7,870.00	7,899.07	7,801.16	77.98	31.44	-88.81	-2,212.48	3,806.12	1,088.31	981.50	106.82	10.189		
13,300.00	7,870.00	7,896.54	7,798.64	79.31	31.43	-88.65	-2,212.54	3,806.11	1,146.45	1,038.66	107.79	10.636		
13,400.00	7,870.00	7,894.01	7,796.11	80.67	31.42	-88.49	-2,212.61	3,806.10	1,210.06	1,101.57	108.49	11.154		
13,500.00	7,870.00	7,891.48	7,793.58	82.04	31.42	-88.33	-2,212.67	3,806.10	1,278.33	1,169.37	108.97	11.731		
13,600.00	7,870.00	7,888.95	7,791.05	83.43	31.41	-88.17	-2,212.74	3,806.09	1,350.56	1,241.28	109.28	12.359		
13,700.00	7,870.00	7,886.42	7,788.52	84.84	31.40	-88.01	-2,212.80	3,806.08	1,426.14	1,316.68	109.46	13.029		
13,800.00	7,870.00	7,883.88	7,785.98	86.27	31.40	-87.85	-2,212.87	3,806.07	1,504.57	1,395.02	109.55	13.734		
13,900.00	7,870.00	7,881.35	7,783.45	87.71	31.39	-87.69	-2,212.93	3,806.06	1,585.42	1,475.86	109.56	14.470		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,878.81	7,780.91	89.16	31.38	-87.53	-2,213.00	3,806.05	1,668.35	1,558.82	109.53	15.233		
14,100.00	7,870.00	7,876.27	7,778.37	90.63	31.38	-87.38	-2,213.07	3,806.05	1,753.05	1,643.60	109.45	16.017		
14,200.00	7,870.00	7,873.73	7,775.83	92.10	31.37	-87.22	-2,213.13	3,806.04	1,839.29	1,729.94	109.35	16.820		
14,300.00	7,870.00	7,871.19	7,773.29	93.59	31.36	-87.06	-2,213.20	3,806.03	1,926.86	1,817.63	109.23	17.640		
14,400.00	7,870.00	7,868.65	7,770.75	95.09	31.35	-86.90	-2,213.26	3,806.02	2,015.58	1,906.48	109.10	18.475		
14,500.00	7,870.00	7,866.10	7,768.21	96.60	31.35	-86.74	-2,213.33	3,806.02	2,105.30	1,996.34	108.96	19.321		
14,600.00	7,870.00	7,863.56	7,765.66	98.11	31.34	-86.57	-2,213.40	3,806.01	2,195.92	2,087.10	108.82	20.179		
14,700.00	7,870.00	7,861.01	7,763.11	99.64	31.33	-86.41	-2,213.46	3,806.00	2,287.31	2,178.63	108.68	21.047		
14,800.00	7,870.00	7,858.46	7,760.57	101.17	31.33	-86.25	-2,213.53	3,806.00	2,379.39	2,270.85	108.54	21.923		
14,900.00	7,870.00	7,855.91	7,758.02	102.71	31.32	-86.09	-2,213.60	3,805.99	2,472.09	2,363.69	108.40	22.806		
15,000.00	7,870.00	7,853.36	7,755.47	104.26	31.31	-85.93	-2,213.66	3,805.98	2,565.33	2,457.07	108.26	23.696		
15,100.00	7,870.00	7,850.80	7,752.91	105.82	31.31	-85.77	-2,213.73	3,805.98	2,659.06	2,550.93	108.13	24.592		
15,200.00	7,870.00	7,848.25	7,750.36	107.38	31.30	-85.61	-2,213.80	3,805.97	2,753.22	2,645.23	108.00	25.493		
15,300.00	7,870.00	7,845.69	7,747.80	108.95	31.29	-85.45	-2,213.86	3,805.97	2,847.79	2,739.91	107.87	26.399		
15,400.00	7,870.00	7,843.13	7,745.25	110.52	31.28	-85.29	-2,213.93	3,805.96	2,942.71	2,834.95	107.75	27.310		
15,500.00	7,870.00	7,840.57	7,742.69	112.10	31.28	-85.13	-2,214.00	3,805.96	3,037.95	2,930.31	107.64	28.224		
15,600.00	7,870.00	7,838.01	7,740.13	113.69	31.27	-84.97	-2,214.06	3,805.95	3,133.49	3,025.96	107.53	29.141		
15,700.00	7,870.00	7,835.45	7,737.57	115.28	31.26	-84.81	-2,214.13	3,805.95	3,229.30	3,121.88	107.42	30.062		
15,800.00	7,870.00	7,832.89	7,735.00	116.87	31.26	-84.65	-2,214.20	3,805.94	3,325.35	3,218.03	107.32	30.985		
15,900.00	7,870.00	7,830.32	7,732.44	118.47	31.25	-84.49	-2,214.26	3,805.94	3,421.63	3,314.40	107.23	31.911		
16,000.00	7,870.00	7,827.75	7,729.87	120.07	31.24	-84.33	-2,214.33	3,805.93	3,518.11	3,410.97	107.13	32.839		
16,100.00	7,870.00	7,825.19	7,727.31	121.68	31.23	-84.17	-2,214.40	3,805.93	3,614.78	3,507.73	107.05	33.769		
16,200.00	7,870.00	7,822.62	7,724.74	123.30	31.23	-84.01	-2,214.46	3,805.93	3,711.62	3,604.66	106.96	34.701		
16,300.00	7,870.00	7,820.05	7,722.17	124.91	31.22	-83.85	-2,214.53	3,805.92	3,808.63	3,701.75	106.88	35.634		
16,400.00	7,870.00	7,817.47	7,719.59	126.53	31.21	-83.69	-2,214.60	3,805.92	3,905.79	3,798.98	106.81	36.569		
16,500.00	7,870.00	7,815.00	7,717.12	128.16	31.21	-83.53	-2,214.66	3,805.92	4,003.08	3,896.35	106.73	37.505		
16,600.00	7,870.00	7,812.65	7,714.77	129.79	31.20	-83.39	-2,214.72	3,805.91	4,100.51	3,993.84	106.66	38.443		
16,700.00	7,870.00	7,810.31	7,712.43	131.42	31.19	-83.24	-2,214.79	3,805.91	4,198.05	4,091.45	106.60	39.382		
16,800.00	7,870.00	7,807.97	7,710.09	133.05	31.19	-83.10	-2,214.85	3,805.91	4,295.70	4,189.17	106.54	40.321		
16,900.00	7,870.00	7,805.63	7,707.76	134.69	31.18	-82.95	-2,214.91	3,805.91	4,393.46	4,286.98	106.48	41.262		
17,000.00	7,870.00	7,803.30	7,705.43	136.33	31.17	-82.81	-2,214.97	3,805.91	4,491.32	4,384.90	106.42	42.203		
17,100.00	7,870.00	7,800.97	7,703.10	137.97	31.17	-82.66	-2,215.03	3,805.91	4,589.27	4,482.90	106.37	43.145		
17,200.00	7,870.00	7,798.65	7,700.78	139.62	31.16	-82.52	-2,215.09	3,805.91	4,687.30	4,580.98	106.32	44.087		
17,300.00	7,870.00	7,796.33	7,698.46	141.27	31.15	-82.37	-2,215.15	3,805.91	4,785.41	4,679.14	106.27	45.030		
17,400.00	7,870.00	7,794.02	7,696.15	142.92	31.15	-82.23	-2,215.21	3,805.91	4,883.60	4,777.37	106.23	45.974		
17,500.00	7,870.00	7,791.70	7,693.83	144.58	31.14	-82.09	-2,215.27	3,805.91	4,981.86	4,875.67	106.18	46.917		
17,600.00	7,870.00	7,789.40	7,691.53	146.23	31.14	-81.95	-2,215.33	3,805.91	5,080.18	4,974.04	106.14	47.861		
17,700.00	7,870.00	7,787.09	7,689.22	147.89	31.13	-81.80	-2,215.39	3,805.92	5,178.57	5,072.47	106.11	48.806		
17,800.00	7,870.00	7,784.79	7,686.93	149.56	31.12	-81.66	-2,215.45	3,805.92	5,277.02	5,170.95	106.07	49.750		
17,900.00	7,870.00	7,782.50	7,684.63	151.22	31.12	-81.52	-2,215.51	3,805.92	5,375.53	5,269.49	106.04	50.695		
18,000.00	7,870.00	7,780.20	7,682.34	152.89	31.11	-81.38	-2,215.57	3,805.93	5,474.08	5,368.08	106.01	51.639		
18,100.00	7,870.00	7,777.92	7,680.05	154.55	31.10	-81.24	-2,215.63	3,805.93	5,572.69	5,466.71	105.98	52.584		
18,200.00	7,870.00	7,775.63	7,677.77	156.22	31.10	-81.10	-2,215.69	3,805.94	5,671.35	5,565.40	105.95	53.529		
18,300.00	7,870.00	7,773.35	7,675.49	157.90	31.09	-80.96	-2,215.74	3,805.94	5,770.05	5,664.12	105.92	54.474		
18,400.00	7,870.00	7,771.07	7,673.21	159.57	31.08	-80.82	-2,215.80	3,805.95	5,868.79	5,762.89	105.90	55.418		
18,500.00	7,870.00	7,768.80	7,670.94	161.25	31.08	-80.68	-2,215.86	3,805.95	5,967.58	5,861.70	105.88	56.363		
18,600.00	7,870.00	7,766.53	7,668.67	162.93	31.07	-80.54	-2,215.92	3,805.96	6,066.40	5,960.54	105.86	57.307		
18,700.00	7,870.00	7,764.26	7,666.40	164.60	31.07	-80.40	-2,215.98	3,805.97	6,165.26	6,059.42	105.84	58.251		
18,797.52	7,870.00	7,762.06	7,664.20	166.24	31.06	-80.26	-2,216.03	3,805.97	6,261.70	6,155.88	105.82	59.171		

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	123.74	-3,056.32	4,576.37	5,503.31					
100.00	100.00	48.10	48.10	0.13	0.08	123.74	-3,056.41	4,576.34	5,503.13	5,502.93	0.21	N/A		
200.00	200.00	148.91	148.91	0.49	0.35	123.74	-3,056.99	4,576.10	5,503.26	5,502.42	0.84	6,531.897		
300.00	300.00	207.35	207.35	0.85	0.56	123.75	-3,057.36	4,576.01	5,503.58	5,502.17	1.41	3,906.051		
400.00	400.00	245.49	245.48	1.21	0.69	123.75	-3,057.71	4,576.41	5,504.97	5,503.07	1.90	2,893.498		
500.00	500.00	273.00	272.98	1.57	0.79	123.75	-3,058.01	4,576.99	5,507.51	5,505.15	2.36	2,335.371		
600.00	600.00	315.80	315.76	1.93	0.94	123.74	-3,058.55	4,578.45	5,511.19	5,508.32	2.87	1,922.326		
700.00	700.00	364.00	363.88	2.29	1.11	123.74	-3,059.22	4,581.00	5,516.16	5,512.76	3.39	1,626.028		
800.00	800.00	364.00	363.88	2.64	1.11	123.74	-3,059.22	4,581.00	5,522.30	5,518.55	3.75	1,472.464		
900.00	900.00	404.72	404.49	3.00	1.26	123.72	-3,059.94	4,583.99	5,529.67	5,525.42	4.25	1,300.535		
1,000.00	1,000.00	455.00	454.51	3.36	1.45	123.71	-3,061.13	4,588.86	5,538.65	5,533.87	4.78	1,157.659		
1,100.00	1,099.98	455.00	454.51	3.72	1.45	68.91	-3,061.13	4,588.86	5,547.92	5,542.79	5.13	1,080.921		
1,200.00	1,199.84	778.82	774.99	4.07	2.71	68.69	-3,055.28	4,624.70	5,553.15	5,546.47	6.68	831.530		
1,300.00	1,299.45	824.00	819.44	4.43	2.88	68.60	-3,054.99	4,632.53	5,560.39	5,553.20	7.20	772.629		
1,400.00	1,398.70	824.00	819.44	4.80	2.88	68.52	-3,054.99	4,632.53	5,564.65	5,557.10	7.55	736.616		
1,500.00	1,497.47	824.00	819.44	5.18	2.88	68.43	-3,054.99	4,632.53	5,569.43	5,561.51	7.92	703.067		
1,600.00	1,595.62	824.00	819.44	5.57	2.88	68.34	-3,054.99	4,632.53	5,574.71	5,566.41	8.30	671.401		
1,700.00	1,693.06	824.00	819.44	6.00	2.88	68.23	-3,054.99	4,632.53	5,580.50	5,571.80	8.70	641.162		
1,800.00	1,789.64	824.00	819.44	6.45	2.88	68.11	-3,054.99	4,632.53	5,586.78	5,577.65	9.13	612.012		
1,900.00	1,885.27	824.00	819.44	6.94	2.88	67.99	-3,054.99	4,632.53	5,593.55	5,583.96	9.58	583.721		
2,000.00	1,979.82	824.00	819.44	7.47	2.88	67.85	-3,054.99	4,632.53	5,600.78	5,590.71	10.07	556.150		
2,100.00	2,073.17	824.00	819.44	8.05	2.88	67.71	-3,054.99	4,632.53	5,608.48	5,597.89	10.60	529.237		
2,200.00	2,165.21	864.84	859.14	8.67	3.08	67.68	-3,057.20	4,641.85	5,616.22	5,604.89	11.33	495.601		
2,300.00	2,255.84	919.00	911.53	9.35	3.35	67.71	-3,060.02	4,655.27	5,623.94	5,611.77	12.18	461.819		
2,400.00	2,344.94	919.00	911.53	10.09	3.35	67.58	-3,060.02	4,655.27	5,631.38	5,618.54	12.84	438.484		
2,500.00	2,432.39	955.93	947.07	10.89	3.55	67.57	-3,062.02	4,665.11	5,638.83	5,625.10	13.73	410.698		
2,519.29	2,449.07	960.98	951.92	11.05	3.57	67.56	-3,062.32	4,666.50	5,640.28	5,626.38	13.90	405.861		
2,600.00	2,518.69	1,013.00	1,001.65	11.74	3.85	67.76	-3,065.64	4,681.37	5,647.05	5,632.30	14.75	382.890		
2,700.00	2,604.95	1,013.00	1,001.65	12.62	3.85	67.76	-3,065.64	4,681.37	5,655.99	5,640.45	15.53	364.130		
2,800.00	2,691.22	1,013.00	1,001.65	13.52	3.85	67.76	-3,065.64	4,681.37	5,666.67	5,650.34	16.33	347.027		
2,900.00	2,777.48	1,058.79	1,045.15	14.43	4.13	67.93	-3,069.14	4,695.26	5,678.42	5,661.07	17.36	327.164		
3,000.00	2,863.75	1,107.00	1,090.64	15.35	4.42	68.12	-3,073.58	4,710.58	5,691.81	5,673.40	18.41	309.188		
3,100.00	2,950.01	1,107.00	1,090.64	16.28	4.42	68.12	-3,073.58	4,710.58	5,706.17	5,686.94	19.23	296.786		
3,200.00	3,036.27	1,155.27	1,135.92	17.22	4.73	68.30	-3,078.32	4,726.61	5,721.83	5,701.53	20.30	281.851		
3,300.00	3,122.54	1,214.00	1,190.73	18.17	5.12	68.51	-3,083.84	4,746.98	5,738.50	5,717.06	21.44	267.688		
3,400.00	3,208.80	1,266.90	1,239.95	19.13	5.49	68.70	-3,088.82	4,765.71	5,755.95	5,733.39	22.56	255.175		
3,500.00	3,295.07	1,353.44	1,320.46	20.09	6.10	69.01	-3,097.32	4,796.30	5,773.89	5,750.02	23.88	241.830		
3,600.00	3,381.33	1,451.09	1,411.18	21.05	6.81	69.35	-3,106.20	4,831.30	5,791.98	5,766.70	25.28	229.129		
3,700.00	3,467.59	1,524.94	1,479.70	22.02	7.36	69.60	-3,112.50	4,858.12	5,810.30	5,783.75	26.56	218.799		
3,800.00	3,553.86	1,591.00	1,540.83	22.99	7.86	69.83	-3,118.32	4,882.48	5,829.37	5,801.57	27.79	209.729		
3,900.00	3,640.12	1,656.78	1,601.59	23.97	8.37	70.05	-3,124.29	4,906.98	5,849.04	5,820.00	29.04	201.406		
4,000.00	3,726.38	1,805.13	1,738.83	24.95	9.51	70.54	-3,137.09	4,961.83	5,868.42	5,837.60	30.82	190.401		
4,100.00	3,812.65	1,859.67	1,789.29	25.93	9.93	70.72	-3,141.78	4,981.97	5,887.97	5,855.95	32.01	183.926		
4,200.00	3,898.91	4,200.00	1,942.02	26.91	27.74	71.27	-3,156.70	5,042.08	5,907.81	5,862.68	45.14	130.888		
4,300.00	3,985.18	2,158.00	2,066.63	27.90	12.20	71.71	-3,167.87	5,088.69	5,925.86	5,890.23	35.63	166.320		
4,400.00	4,071.44	2,208.69	2,113.85	28.88	12.59	71.88	-3,171.94	5,106.67	5,944.65	5,907.83	36.82	161.467		
4,500.00	4,157.70	2,252.00	2,153.97	29.87	12.93	72.02	-3,175.56	5,122.58	5,964.55	5,926.60	37.95	157.155		
4,600.00	4,243.97	2,376.57	2,269.40	30.86	13.90	72.42	-3,186.05	5,168.21	5,984.65	5,945.01	39.65	150.952		
4,700.00	4,330.23	2,456.59	2,343.56	31.85	14.52	72.67	-3,192.74	5,197.54	6,004.89	5,963.85	41.04	146.313		
4,800.00	4,416.49	2,562.25	2,441.69	32.84	15.35	73.01	-3,201.60	5,235.70	6,024.90	5,982.29	42.62	141.370		
4,900.00	4,502.76	2,604.15	2,480.51	33.84	15.67	73.14	-3,205.24	5,251.04	6,045.69	6,001.93	43.76	138.166		
5,000.00	4,589.02	2,653.42	2,525.98	34.83	16.07	73.29	-3,209.66	5,269.49	6,067.39	6,022.45	44.95	134.990		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,100.00	4,675.29	2,724.00	2,590.91	35.82	16.64	73.51	-3,216.02	5,296.41	6,089.80	6,043.51	46.29	131.544		
5,200.00	4,761.55	2,797.26	2,658.19	36.82	17.24	73.73	-3,222.69	5,324.61	6,112.67	6,065.01	47.67	128.237		
5,300.00	4,847.81	2,938.81	2,788.50	37.82	18.40	74.16	-3,235.46	5,378.42	6,135.29	6,085.74	49.55	123.822		
5,400.00	4,934.08	3,007.00	2,851.34	38.81	18.95	74.37	-3,241.75	5,404.11	6,157.99	6,107.10	50.89	121.008		
5,500.00	5,020.34	3,077.20	2,915.94	39.81	19.52	74.58	-3,248.36	5,430.79	6,181.20	6,128.95	52.25	118.306		
5,600.00	5,106.60	3,136.84	2,970.69	40.81	20.02	74.75	-3,253.92	5,453.78	6,204.91	6,151.38	53.53	115.916		
5,700.00	5,192.87	3,196.00	3,024.80	41.81	20.51	74.93	-3,259.51	5,477.03	6,229.34	6,174.53	54.81	113.657		
5,800.00	5,279.13	3,351.25	3,167.04	42.81	21.81	75.37	-3,273.04	5,537.73	6,253.03	6,196.18	56.85	109.986		
5,900.00	5,365.40	3,473.36	3,279.31	43.81	22.81	75.72	-3,284.57	5,584.35	6,277.04	6,218.41	58.63	107.061		
6,000.00	5,451.66	3,574.32	3,372.36	44.81	23.64	76.02	-3,293.87	5,622.42	6,300.64	6,240.39	60.24	104.585		
6,100.00	5,537.92	3,605.81	3,401.28	45.81	23.90	76.11	-3,296.70	5,634.55	6,324.78	6,263.46	61.32	103.148		
6,200.00	5,624.19	3,637.43	3,430.20	46.81	24.17	76.20	-3,299.69	5,646.98	6,349.95	6,287.56	62.38	101.788		
6,300.00	5,710.45	3,821.85	3,598.86	47.81	25.72	76.71	-3,316.94	5,719.53	6,375.35	6,310.64	64.70	98.530		
6,400.00	5,796.72	3,922.75	3,691.83	48.81	26.55	77.00	-3,326.87	5,757.46	6,399.86	6,333.53	66.33	96.483		
6,500.00	5,882.98	4,039.62	3,799.63	49.81	27.49	77.33	-3,338.13	5,801.16	6,424.25	6,356.17	68.09	94.350		
6,600.00	5,969.24	4,187.58	3,936.21	50.82	28.69	77.75	-3,351.28	5,856.52	6,448.31	6,378.20	70.11	91.980		
6,700.00	6,055.51	4,278.39	4,020.26	51.82	29.42	78.00	-3,358.92	5,890.06	6,471.80	6,400.14	71.66	90.309		
6,800.00	6,141.77	4,464.04	4,139.99	52.82	39.89	85.82	-3,455.41	6,295.61	6,487.94	6,404.85	83.09	78.088		
6,900.00	6,228.03	4,554.62	4,230.57	53.83	40.05	86.23	-3,454.87	6,295.25	6,483.05	6,398.61	84.44	76.776		
7,000.00	6,314.30	4,645.26	4,321.22	54.83	40.22	86.63	-3,454.16	6,294.95	6,478.46	6,392.66	85.80	75.509		
7,100.00	6,400.56	4,724.83	4,400.77	55.83	40.37	86.98	-3,453.51	6,294.72	6,474.26	6,387.13	87.14	74.300		
7,200.00	6,486.83	4,787.00	4,462.95	56.84	40.49	87.26	-3,452.94	6,294.81	6,470.64	6,382.19	88.45	73.157		
7,300.00	6,573.09	4,849.13	4,525.07	57.84	40.62	87.53	-3,452.34	6,295.31	6,467.73	6,377.96	89.76	72.053		
7,400.00	6,659.35	4,913.15	4,589.08	58.84	40.76	87.81	-3,451.73	6,296.34	6,465.59	6,374.51	91.08	70.986		
7,500.00	6,745.62	4,980.26	4,676.16	59.85	40.96	88.18	-3,450.83	6,298.13	6,464.02	6,371.57	92.45	69.921		
7,600.00	6,831.88	5,049.40	4,761.28	60.85	41.27	88.78	-3,448.92	6,300.47	6,462.38	6,368.46	93.92	68.810		
7,700.00	6,918.14	5,121.41	4,847.26	61.86	41.47	89.18	-3,447.32	6,301.73	6,460.69	6,365.40	95.29	67.803		
7,800.00	7,004.41	5,202.33	4,938.15	62.86	41.74	89.71	-3,445.25	6,303.00	6,459.25	6,362.54	96.71	66.792		
7,900.00	7,090.67	5,282.65	5,033.48	63.87	41.84	89.93	-3,444.59	6,303.21	6,458.11	6,360.13	97.98	65.912		
8,000.00	7,176.94	5,364.51	5,130.33	64.87	41.97	90.21	-3,444.43	6,303.20	6,457.85	6,358.58	99.27	65.053		
8,027.52	7,200.68	5,398.85	5,155.67	65.15	42.07	90.45	-3,444.30	6,302.92	6,457.81	6,358.12	99.69	64.778		
8,032.68	7,205.14	5,430.24	5,206.06	65.20	42.09	89.74	-3,444.26	6,302.92	6,457.77	6,358.00	99.77	64.727		
8,050.00	7,220.18	5,460.00	5,230.95	65.37	43.11	87.06	-3,444.24	6,302.92	6,457.34	6,356.13	101.20	63.805		
8,100.00	7,264.25	5,539.33	5,315.11	65.85	42.50	79.23	-3,441.25	6,300.65	6,453.25	6,352.38	100.87	63.974		
8,150.00	7,308.99	5,619.71	5,405.48	66.28	42.56	69.24	-3,440.45	6,300.27	6,445.02	6,343.58	101.45	63.532		
8,200.00	7,354.07	5,699.21	5,496.96	66.67	42.64	58.39	-3,439.42	6,299.81	6,433.22	6,331.24	101.98	63.082		
8,250.00	7,399.14	5,783.00	5,593.75	67.02	42.67	47.24	-3,439.07	6,299.66	6,417.98	6,315.55	102.42	62.661		
8,300.00	7,443.85	5,873.00	5,698.75	67.32	42.67	36.55	-3,439.07	6,299.66	6,399.59	6,296.80	102.78	62.262		
8,350.00	7,487.88	5,963.00	5,803.75	67.56	42.67	26.79	-3,439.07	6,299.66	6,378.18	6,275.10	103.08	61.875		
8,400.00	7,530.87	6,053.89	5,914.63	67.75	42.76	18.13	-3,438.27	6,299.44	6,353.35	6,249.95	103.40	61.444		
8,450.00	7,572.51	6,144.08	6,015.82	67.90	42.78	10.31	-3,438.17	6,299.46	6,326.00	6,222.40	103.60	61.062		
8,500.00	7,612.48	6,234.00	6,116.74	68.00	42.87	3.18	-3,438.14	6,299.83	6,296.30	6,192.50	103.80	60.659		
8,550.00	7,650.47	6,324.00	6,217.74	68.05	42.87	-3.56	-3,438.14	6,299.83	6,263.76	6,159.91	103.86	60.311		
8,600.00	7,688.20	6,414.00	6,318.74	68.06	42.87	-10.11	-3,438.14	6,299.83	6,229.10	6,125.24	103.86	59.976		
8,650.00	7,719.39	6,504.00	6,419.74	68.03	42.87	-16.69	-3,438.14	6,299.83	6,192.52	6,088.72	103.81	59.654		
8,700.00	7,749.79	6,594.24	6,514.97	67.97	42.93	-23.62	-3,438.27	6,300.16	6,154.25	6,050.50	103.75	59.318		
8,750.00	7,777.17	6,684.41	6,616.14	67.87	42.98	-31.02	-3,438.39	6,300.54	6,114.48	6,010.84	103.64	58.995		
8,800.00	7,801.32	6,774.14	6,717.87	67.74	43.02	-38.97	-3,438.50	6,300.90	6,073.54	5,970.05	103.49	58.690		
8,850.00	7,822.06	6,864.00	6,819.38	67.59	43.24	-48.28	-3,438.11	6,303.03	6,031.56	5,925.86	105.70	57.063		
8,900.00	7,839.23	6,954.34	6,919.95	67.41	43.52	-58.84	-3,435.51	6,306.27	5,988.83	5,885.44	103.39	57.925		
8,950.00	7,852.69	7,044.74	7,010.34	67.22	43.57	-68.14	-3,434.93	6,306.71	5,945.93	5,842.82	103.11	57.666		
9,000.00	7,862.35	7,134.69	7,100.28	67.00	43.60	-76.89	-3,434.54	6,306.97	5,903.28	5,800.50	102.78	57.435		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,050.00	7,868.14	8,220.10	7,895.68	66.78	43.62	-84.71	-3,434.34	6,307.11	5,861.25	5,758.84	102.41	57.232		
9,098.65	7,870.00	8,220.97	7,896.55	66.55	43.62	-91.23	-3,434.31	6,307.12	5,821.29	5,719.27	102.01	57.064		
9,100.00	7,870.00	8,220.90	7,896.49	66.55	43.62	-91.23	-3,434.32	6,307.12	5,820.19	5,718.19	102.00	57.060		
9,200.00	7,870.00	8,216.24	7,891.83	66.09	43.61	-91.16	-3,434.45	6,307.04	5,739.50	5,638.36	101.14	56.747		
9,300.00	7,870.00	8,211.56	7,887.15	65.65	43.60	-91.08	-3,434.58	6,306.95	5,659.42	5,559.16	100.27	56.443		
9,400.00	7,870.00	8,206.86	7,882.46	65.24	43.59	-91.00	-3,434.71	6,306.87	5,579.99	5,480.61	99.38	56.148		
9,500.00	7,870.00	8,202.15	7,877.74	64.85	43.58	-90.92	-3,434.84	6,306.78	5,501.22	5,402.74	98.48	55.862		
9,600.00	7,870.00	8,197.41	7,873.01	64.48	43.57	-90.84	-3,434.97	6,306.68	5,423.15	5,325.58	97.57	55.585		
9,700.00	7,870.00	8,192.66	7,868.26	64.13	43.55	-90.76	-3,435.11	6,306.58	5,345.81	5,249.16	96.64	55.316		
9,800.00	7,870.00	8,187.88	7,863.49	63.80	43.54	-90.68	-3,435.24	6,306.48	5,269.22	5,173.51	95.71	55.055		
9,900.00	7,870.00	8,183.09	7,858.70	63.50	43.53	-90.60	-3,435.38	6,306.38	5,193.43	5,098.67	94.77	54.802		
10,000.00	7,870.00	8,178.28	7,853.89	63.22	43.52	-90.52	-3,435.51	6,306.27	5,118.47	5,024.65	93.82	54.555		
10,100.00	7,870.00	8,173.45	7,849.06	62.96	43.51	-90.44	-3,435.65	6,306.16	5,044.38	4,951.51	92.87	54.314		
10,200.00	7,870.00	8,168.60	7,844.21	62.72	43.50	-90.36	-3,435.79	6,306.04	4,971.19	4,879.26	91.93	54.077		
10,300.00	7,870.00	8,163.73	7,839.35	62.50	43.48	-90.27	-3,435.93	6,305.92	4,898.95	4,807.96	90.98	53.844		
10,400.00	7,870.00	8,158.84	7,834.46	62.31	43.47	-90.19	-3,436.06	6,305.80	4,827.69	4,737.64	90.05	53.611		
10,500.00	7,870.00	8,153.93	7,829.55	62.15	43.46	-90.11	-3,436.20	6,305.67	4,757.46	4,668.33	89.13	53.377		
10,600.00	7,870.00	8,149.00	7,824.63	62.01	43.45	-90.03	-3,436.35	6,305.54	4,688.32	4,600.09	88.23	53.140		
10,700.00	7,870.00	8,144.05	7,819.68	61.90	43.44	-89.94	-3,436.49	6,305.41	4,620.30	4,532.95	87.35	52.896		
10,800.00	7,870.00	8,139.08	7,814.71	61.82	43.42	-89.86	-3,436.63	6,305.27	4,553.45	4,466.95	86.50	52.642		
10,900.00	7,870.00	8,134.09	7,809.73	61.78	43.41	-89.78	-3,436.77	6,305.13	4,487.84	4,402.15	85.69	52.373		
11,000.00	7,870.00	11,000.00	7,760.57	61.77	50.74	-88.95	-3,437.84	6,303.68	4,423.49	4,329.69	93.80	47.159		
11,100.00	7,870.00	11,100.00	7,759.39	61.81	51.00	-88.93	-3,437.85	6,303.65	4,360.48	4,267.04	93.44	46.666		
11,200.00	7,870.00	11,200.00	7,758.21	61.90	51.26	-88.91	-3,437.86	6,303.61	4,298.88	4,205.73	93.15	46.151		
11,300.00	7,870.00	8,117.99	7,793.64	62.03	43.38	-89.51	-3,437.21	6,304.67	4,238.80	4,155.79	83.01	51.065		
11,400.00	7,870.00	8,109.89	7,785.55	62.23	43.35	-89.37	-3,437.47	6,304.40	4,180.20	4,097.68	82.53	50.653		
11,500.00	7,870.00	8,103.11	7,778.78	62.50	43.34	-89.26	-3,437.67	6,304.18	4,123.19	4,041.05	82.14	50.197		
11,600.00	7,870.00	8,097.36	7,773.04	62.84	43.32	-89.16	-3,437.83	6,304.00	4,067.83	3,985.97	81.86	49.692		
11,700.00	7,870.00	8,092.42	7,768.10	63.25	43.31	-89.08	-3,437.95	6,303.84	4,014.19	3,932.50	81.70	49.134		
11,800.00	7,870.00	8,088.12	7,763.81	63.76	43.30	-89.01	-3,438.05	6,303.71	3,962.36	3,880.69	81.67	48.519		
11,900.00	7,870.00	8,084.36	7,760.04	64.34	43.29	-88.94	-3,438.13	6,303.59	3,912.38	3,830.62	81.77	47.847		
12,000.00	7,870.00	8,081.03	7,756.72	65.01	43.28	-88.89	-3,438.20	6,303.49	3,864.35	3,782.34	82.02	47.117		
12,100.00	7,870.00	8,078.07	7,753.76	65.77	43.27	-88.84	-3,438.26	6,303.40	3,818.34	3,735.92	82.42	46.331		
12,200.00	7,870.00	8,075.42	7,751.11	66.61	43.27	-88.79	-3,438.31	6,303.32	3,774.41	3,691.43	82.97	45.491		
12,300.00	7,870.00	8,073.03	7,748.72	67.51	43.26	-88.75	-3,438.35	6,303.25	3,732.64	3,648.95	83.69	44.602		
12,400.00	7,870.00	8,070.86	7,746.55	68.49	43.26	-88.72	-3,438.38	6,303.19	3,693.10	3,608.54	84.57	43.672		
12,500.00	7,870.00	8,068.89	7,744.58	69.52	43.25	-88.68	-3,438.41	6,303.13	3,655.88	3,570.27	85.61	42.706		
12,600.00	7,870.00	8,067.09	7,742.78	70.61	43.25	-88.65	-3,438.44	6,303.08	3,621.03	3,534.22	86.80	41.715		
12,700.00	7,870.00	8,065.43	7,741.13	71.75	43.24	-88.62	-3,438.47	6,303.03	3,588.63	3,500.47	88.16	40.706		
12,800.00	7,870.00	8,063.91	7,739.61	72.93	43.24	-88.60	-3,438.49	6,302.99	3,558.75	3,469.08	89.67	39.689		
12,900.00	7,870.00	8,062.51	7,738.20	74.14	43.23	-88.58	-3,438.51	6,302.95	3,531.44	3,440.13	91.31	38.674		
13,000.00	7,870.00	8,061.20	7,736.90	75.39	43.23	-88.55	-3,438.52	6,302.91	3,506.78	3,413.68	93.10	37.669		
13,100.00	7,870.00	8,059.99	7,735.69	76.67	43.23	-88.53	-3,438.54	6,302.88	3,484.81	3,389.81	95.00	36.682		
13,200.00	7,870.00	8,058.87	7,734.57	77.98	43.23	-88.51	-3,438.55	6,302.85	3,465.59	3,368.57	97.02	35.720		
13,300.00	7,870.00	8,057.81	7,733.51	79.31	43.22	-88.50	-3,438.56	6,302.82	3,449.16	3,350.01	99.14	34.790		
13,400.00	7,870.00	8,056.83	7,732.53	80.67	43.22	-88.48	-3,438.57	6,302.79	3,435.56	3,334.21	101.35	33.897		
13,500.00	7,870.00	8,055.90	7,731.61	82.04	43.22	-88.46	-3,438.58	6,302.76	3,424.83	3,321.19	103.64	33.046		
13,600.00	7,870.00	8,055.04	7,730.74	83.43	43.22	-88.45	-3,438.59	6,302.74	3,416.99	3,311.01	105.99	32.240		
13,700.00	7,870.00	8,054.22	7,729.92	84.84	43.21	-88.44	-3,438.60	6,302.72	3,412.07	3,303.68	108.39	31.480		
13,800.00	7,870.00	8,053.45	7,729.15	86.27	43.21	-88.42	-3,438.61	6,302.69	3,410.08	3,299.25	110.82	30.771		
13,818.08	7,870.00	8,053.31	7,729.01	86.53	43.21	-88.42	-3,438.61	6,302.69	3,410.03	3,298.76	111.27	30.647 CC		
13,900.00	7,870.00	8,052.72	7,728.42	87.71	43.21	-88.41	-3,438.62	6,302.67	3,411.01	3,297.73	113.28	30.111 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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	8,052.03	7,727.73	89.16	43.21	-88.40	-3,438.62	6,302.66	3,414.88	3,299.13	115.75	29.502		
14,100.00	7,870.00	8,051.38	7,727.08	90.63	43.21	-88.39	-3,438.63	6,302.64	3,421.66	3,303.44	118.22	28.943		
14,200.00	7,870.00	8,050.76	7,726.46	92.10	43.20	-88.38	-3,438.63	6,302.62	3,431.35	3,310.67	120.67	28.435		
14,300.00	7,870.00	8,050.17	7,725.87	93.59	43.20	-88.37	-3,438.64	6,302.60	3,443.91	3,320.81	123.10	27.976		
14,400.00	7,870.00	8,049.61	7,725.31	95.09	43.20	-88.36	-3,438.64	6,302.59	3,459.32	3,333.82	125.50	27.564		
14,500.00	7,870.00	8,049.07	7,724.78	96.60	43.20	-88.35	-3,438.65	6,302.57	3,477.54	3,349.69	127.85	27.200		
14,600.00	7,870.00	8,048.56	7,724.27	98.11	43.20	-88.34	-3,438.65	6,302.56	3,498.52	3,368.37	130.15	26.880		
14,700.00	7,870.00	8,048.08	7,723.78	99.64	43.20	-88.33	-3,438.65	6,302.55	3,522.22	3,389.83	132.39	26.604		
14,800.00	7,870.00	8,047.61	7,723.31	101.17	43.20	-88.32	-3,438.66	6,302.53	3,548.58	3,414.01	134.57	26.370		
14,900.00	7,870.00	8,047.17	7,722.87	102.71	43.20	-88.32	-3,438.66	6,302.52	3,577.54	3,440.86	136.67	26.176		
15,000.00	7,870.00	8,046.74	7,722.44	104.26	43.19	-88.31	-3,438.66	6,302.51	3,609.04	3,470.33	138.70	26.020		
15,100.00	7,870.00	8,046.33	7,722.04	105.82	43.19	-88.30	-3,438.67	6,302.50	3,643.01	3,502.35	140.66	25.900		
15,200.00	7,870.00	8,045.94	7,721.64	107.38	43.19	-88.30	-3,438.67	6,302.49	3,679.39	3,536.86	142.53	25.815		
15,300.00	7,870.00	8,045.56	7,721.27	108.95	43.19	-88.29	-3,438.67	6,302.48	3,718.10	3,573.78	144.32	25.763		
15,400.00	7,870.00	8,045.20	7,720.91	110.52	43.19	-88.28	-3,438.68	6,302.47	3,759.07	3,613.05	146.02	25.743 SF		
15,500.00	7,870.00	8,044.86	7,720.56	112.10	43.19	-88.28	-3,438.68	6,302.46	3,802.24	3,654.59	147.65	25.752		
15,600.00	7,870.00	8,044.52	7,720.23	113.69	43.19	-88.27	-3,438.68	6,302.45	3,847.51	3,698.32	149.19	25.789		
15,700.00	7,870.00	8,044.20	7,719.90	115.28	43.19	-88.27	-3,438.68	6,302.44	3,894.83	3,744.18	150.65	25.853		
15,800.00	7,870.00	8,043.89	7,719.59	116.87	43.19	-88.26	-3,438.68	6,302.43	3,944.12	3,792.09	152.03	25.943		
15,900.00	7,870.00	8,043.59	7,719.29	118.47	43.19	-88.26	-3,438.69	6,302.43	3,995.31	3,841.97	153.34	26.056		
16,000.00	7,870.00	8,043.30	7,719.01	120.07	43.19	-88.25	-3,438.69	6,302.42	4,048.31	3,893.75	154.56	26.192		
16,100.00	7,870.00	8,043.02	7,718.73	121.68	43.18	-88.25	-3,438.69	6,302.41	4,103.07	3,947.36	155.72	26.350		
16,200.00	7,870.00	8,042.75	7,718.46	123.30	43.18	-88.24	-3,438.69	6,302.40	4,159.52	4,002.72	156.80	26.527		
16,300.00	7,870.00	8,042.49	7,718.20	124.91	43.18	-88.24	-3,438.69	6,302.40	4,217.58	4,059.76	157.82	26.725		
16,400.00	7,870.00	8,042.24	7,717.94	126.53	43.18	-88.23	-3,438.69	6,302.39	4,277.18	4,118.42	158.77	26.940		
16,500.00	7,870.00	8,041.99	7,717.70	128.16	43.18	-88.23	-3,438.69	6,302.38	4,338.28	4,178.63	159.65	27.173		
16,600.00	7,870.00	8,041.76	7,717.46	129.79	43.18	-88.23	-3,438.70	6,302.38	4,400.80	4,240.32	160.48	27.422		
16,700.00	7,870.00	8,041.53	7,717.24	131.42	43.18	-88.22	-3,438.70	6,302.37	4,464.68	4,303.43	161.25	27.687		
16,800.00	7,870.00	8,041.31	7,717.01	133.05	43.18	-88.22	-3,438.70	6,302.37	4,529.88	4,367.90	161.97	27.967		
16,900.00	7,870.00	8,041.09	7,716.80	134.69	43.18	-88.22	-3,438.70	6,302.36	4,596.32	4,433.68	162.64	28.260		
17,000.00	7,870.00	8,040.88	7,716.59	136.33	43.18	-88.21	-3,438.70	6,302.35	4,663.96	4,500.70	163.26	28.567		
17,100.00	7,870.00	8,040.68	7,716.39	137.97	43.18	-88.21	-3,438.70	6,302.35	4,732.74	4,568.91	163.84	28.887		
17,200.00	7,870.00	8,040.48	7,716.19	139.62	43.18	-88.21	-3,438.70	6,302.34	4,802.63	4,638.26	164.37	29.218		
17,300.00	7,870.00	8,040.29	7,716.00	141.27	43.18	-88.20	-3,438.70	6,302.34	4,873.56	4,708.70	164.86	29.561		
17,400.00	7,870.00	8,040.11	7,715.81	142.92	43.18	-88.20	-3,438.70	6,302.33	4,945.50	4,780.18	165.32	29.915		
17,500.00	7,870.00	8,039.93	7,715.63	144.58	43.18	-88.20	-3,438.71	6,302.33	5,018.40	4,852.66	165.74	30.279		
17,600.00	7,870.00	8,039.75	7,715.46	146.23	43.18	-88.19	-3,438.71	6,302.32	5,092.22	4,926.09	166.13	30.653		
17,700.00	7,870.00	8,039.58	7,715.29	147.89	43.18	-88.19	-3,438.71	6,302.32	5,166.92	5,000.44	166.48	31.036		
17,800.00	7,870.00	8,039.41	7,715.12	149.56	43.18	-88.19	-3,438.71	6,302.32	5,242.46	5,075.65	166.81	31.428		
17,900.00	7,870.00	8,039.25	7,714.96	151.22	43.18	-88.18	-3,438.71	6,302.31	5,318.81	5,151.70	167.11	31.828		
18,000.00	7,870.00	8,012.00	7,687.72	152.89	43.11	-87.73	-3,438.69	6,301.63	5,396.13	5,228.74	167.39	32.236		
18,100.00	7,870.00	8,012.00	7,687.72	154.55	43.11	-87.73	-3,438.69	6,301.63	5,473.99	5,306.35	167.64	32.653		
18,200.00	7,870.00	8,012.00	7,687.72	156.22	43.11	-87.73	-3,438.69	6,301.63	5,552.56	5,384.70	167.87	33.077		
18,300.00	7,870.00	8,012.00	7,687.72	157.90	43.11	-87.73	-3,438.69	6,301.63	5,631.82	5,463.74	168.08	33.507		
18,400.00	7,870.00	8,012.00	7,687.72	159.57	43.11	-87.73	-3,438.69	6,301.63	5,711.72	5,543.45	168.26	33.945		
18,500.00	7,870.00	8,012.00	7,687.72	161.25	43.11	-87.73	-3,438.69	6,301.63	5,792.24	5,623.81	168.43	34.389		
18,600.00	7,870.00	8,012.00	7,687.72	162.93	43.11	-87.73	-3,438.69	6,301.63	5,873.37	5,704.78	168.59	34.839		
18,700.00	7,870.00	8,012.00	7,687.72	164.60	43.11	-87.73	-3,438.69	6,301.63	5,955.07	5,786.34	168.73	35.294		
18,797.52	7,870.00	8,012.00	7,687.72	166.24	43.11	-87.73	-3,438.69	6,301.63	6,035.27	5,866.42	168.85	35.744		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	81.93	771.80	5,445.04	5,500.20					
100.00	100.00	10.00	10.00	0.13	0.08	81.93	771.80	5,445.04	5,499.47	5,499.26	0.21	N/A		
200.00	200.00	110.00	110.00	0.49	0.95	81.93	771.80	5,445.04	5,499.47	5,498.02	1.44	3,808.222		
300.00	300.00	210.00	210.00	0.85	2.70	81.93	771.80	5,445.04	5,499.47	5,495.92	3.55	1,550.061		
400.00	400.00	310.00	310.00	1.21	4.44	81.93	771.80	5,445.04	5,499.47	5,493.82	5.65	973.063		
500.00	500.00	410.00	410.00	1.57	6.19	81.93	771.80	5,445.04	5,499.47	5,491.71	7.76	709.105		
600.00	600.00	510.00	510.00	1.93	7.93	81.93	771.80	5,445.04	5,499.47	5,489.61	9.86	557.795		
700.00	700.00	610.00	610.00	2.29	9.68	81.93	771.80	5,445.04	5,499.47	5,487.51	11.96	459.702		
800.00	800.00	710.00	710.00	2.64	11.42	81.93	771.80	5,445.04	5,499.47	5,485.40	14.07	390.951		
900.00	900.00	810.00	810.00	3.00	13.17	81.93	771.80	5,445.04	5,499.47	5,483.30	16.17	340.088		
1,000.00	1,000.00	910.00	910.00	3.36	14.91	81.93	771.80	5,445.04	5,499.47	5,481.19	18.27	300.937		
1,100.00	1,099.98	1,009.98	1,009.98	3.72	16.66	27.33	771.80	5,445.04	5,497.92	5,477.54	20.37	269.847		
1,200.00	1,199.84	1,109.84	1,109.84	4.07	18.40	27.40	771.80	5,445.04	5,493.27	5,470.80	22.47	244.474		
1,300.00	1,299.45	1,209.45	1,209.45	4.43	20.14	27.52	771.80	5,445.04	5,485.53	5,460.97	24.56	223.328		
1,400.00	1,398.70	1,308.70	1,308.70	4.80	21.87	27.67	771.80	5,445.04	5,474.71	5,448.06	26.65	205.419		
1,500.00	1,497.47	1,407.47	1,407.47	5.18	23.60	27.88	771.80	5,445.04	5,460.83	5,432.10	28.73	190.041		
1,600.00	1,595.62	1,505.62	1,505.62	5.57	25.31	28.14	771.80	5,445.04	5,443.92	5,413.11	30.81	176.680		
1,700.00	1,693.06	1,603.06	1,603.06	6.00	27.01	28.44	771.80	5,445.04	5,424.00	5,391.11	32.88	164.948		
1,800.00	1,789.64	1,700.36	1,699.64	6.45	28.71	28.80	771.80	5,445.04	5,401.10	5,366.14	34.96	154.497		
1,900.00	1,885.27	1,804.73	1,795.27	6.94	30.53	29.21	771.80	5,445.04	5,375.27	5,338.10	37.17	144.619		
2,000.00	1,979.82	1,889.82	1,889.82	7.47	32.01	29.67	771.80	5,445.04	5,346.55	5,307.49	39.05	136.906		
2,100.00	2,073.17	1,983.17	1,983.17	8.05	33.64	30.19	771.80	5,445.04	5,314.98	5,273.89	41.09	129.335		
2,200.00	2,165.21	2,075.21	2,075.21	8.67	35.25	30.77	771.80	5,445.04	5,280.63	5,237.50	43.13	122.436		
2,300.00	2,255.84	2,165.84	2,165.84	9.35	36.83	31.42	771.80	5,445.04	5,243.54	5,198.38	45.16	116.115		
2,400.00	2,344.94	2,254.94	2,254.94	10.09	38.39	32.13	771.80	5,445.04	5,203.79	5,156.61	47.18	110.295		
2,500.00	2,432.39	2,342.39	2,342.39	10.89	39.91	32.91	771.80	5,445.04	5,161.45	5,112.25	49.20	104.914		
2,519.29	2,449.07	2,359.07	2,359.07	11.05	40.20	33.07	771.80	5,445.04	5,152.99	5,103.40	49.59	103.916		
2,600.00	2,518.69	2,428.69	2,428.69	11.74	41.42	33.31	771.80	5,445.04	5,117.43	5,066.22	51.21	99.922		
2,700.00	2,604.95	2,514.95	2,514.95	12.62	42.93	33.61	771.80	5,445.04	5,073.49	5,020.24	53.24	95.286		
2,800.00	2,691.22	2,601.22	2,601.22	13.52	44.43	33.91	771.80	5,445.04	5,029.67	4,974.37	55.29	90.964		
2,900.00	2,777.48	2,687.48	2,687.48	14.43	45.94	34.22	771.80	5,445.04	4,985.97	4,928.62	57.36	86.930		
3,000.00	2,863.75	2,773.75	2,773.75	15.35	47.44	34.54	771.80	5,445.04	4,942.41	4,882.98	59.43	83.157		
3,100.00	2,950.01	2,860.01	2,860.01	16.28	48.95	34.86	771.80	5,445.04	4,898.99	4,837.46	61.53	79.623		
3,200.00	3,036.27	2,946.27	2,946.27	17.22	50.45	35.19	771.80	5,445.04	4,855.70	4,792.07	63.63	76.309		
3,300.00	3,122.54	3,032.54	3,032.54	18.17	51.96	35.52	771.80	5,445.04	4,812.56	4,746.81	65.75	73.195		
3,400.00	3,208.80	3,118.80	3,118.80	19.13	53.46	35.86	771.80	5,445.04	4,769.56	4,701.68	67.88	70.265		
3,500.00	3,295.07	3,205.07	3,205.07	20.09	54.97	36.20	771.80	5,445.04	4,726.71	4,656.69	70.02	67.503		
3,600.00	3,381.33	3,308.67	3,291.33	21.05	56.78	36.55	771.80	5,445.04	4,684.02	4,611.54	72.48	64.627		
3,700.00	3,467.59	3,377.59	3,377.59	22.02	57.98	36.90	771.80	5,445.04	4,641.48	4,567.14	74.34	62.436		
3,800.00	3,553.86	3,463.86	3,463.86	22.99	59.49	37.26	771.80	5,445.04	4,599.11	4,522.60	76.51	60.107		
3,900.00	3,640.12	3,550.12	3,550.12	23.97	60.99	37.63	771.80	5,445.04	4,556.91	4,478.20	78.70	57.901		
4,000.00	3,726.38	3,636.38	3,636.38	24.95	62.50	38.00	771.80	5,445.04	4,514.87	4,433.97	80.90	55.809		
4,100.00	3,812.65	3,722.65	3,722.65	25.93	64.00	38.38	771.80	5,445.04	4,473.02	4,389.91	83.11	53.823		
4,200.00	3,898.91	3,808.91	3,808.91	26.91	65.51	38.76	771.80	5,445.04	4,431.34	4,346.02	85.33	51.934		
4,300.00	3,985.18	3,904.82	3,895.18	27.90	67.18	39.16	771.80	5,445.04	4,389.86	4,302.13	87.72	50.041		
4,400.00	4,071.44	3,981.44	3,981.44	28.88	68.52	39.55	771.80	5,445.04	4,348.56	4,258.77	89.80	48.427		
4,500.00	4,157.70	4,067.70	4,067.70	29.87	70.03	39.96	771.80	5,445.04	4,307.47	4,215.42	92.05	46.795		
4,600.00	4,243.97	4,153.97	4,153.97	30.86	71.53	40.37	771.80	5,445.04	4,266.57	4,172.26	94.31	45.239		
4,700.00	4,330.23	4,240.23	4,240.23	31.85	73.04	40.79	771.80	5,445.04	4,225.89	4,129.31	96.59	43.752		
4,800.00	4,416.49	4,326.49	4,326.49	32.84	74.54	41.22	771.80	5,445.04	4,185.43	4,086.55	98.87	42.331		
4,900.00	4,502.76	4,412.76	4,412.76	33.84	76.05	41.65	771.80	5,445.04	4,145.18	4,044.01	101.17	40.972		
5,000.00	4,589.02	4,500.98	4,499.02	34.83	77.59	42.09	771.80	5,445.04	4,105.17	4,001.65	103.51	39.658		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	4,585.29	4,585.29	35.82	79.06	42.54	771.80	5,445.04	4,065.39	3,959.59	105.80	38.425		
5,200.00	4,761.55	4,671.55	4,671.55	36.82	80.57	43.00	771.80	5,445.04	4,025.85	3,917.72	108.13	37.230		
5,300.00	4,847.81	4,757.81	4,757.81	37.82	82.07	43.46	771.80	5,445.04	3,986.56	3,876.08	110.48	36.084		
5,400.00	4,934.08	4,844.08	4,844.08	38.81	83.58	43.94	771.80	5,445.04	3,947.53	3,834.69	112.84	34.984		
5,500.00	5,020.34	4,930.34	4,930.34	39.81	85.08	44.42	771.80	5,445.04	3,908.77	3,793.56	115.21	33.928		
5,600.00	5,106.60	5,016.60	5,016.60	40.81	86.59	44.91	771.80	5,445.04	3,870.27	3,752.68	117.59	32.913		
5,700.00	5,192.87	5,102.87	5,102.87	41.81	88.09	45.40	771.80	5,445.04	3,832.06	3,712.07	119.99	31.937		
5,800.00	5,279.13	5,189.13	5,189.13	42.81	89.60	45.91	771.80	5,445.04	3,794.14	3,671.74	122.40	30.999		
5,900.00	5,365.40	5,275.40	5,275.40	43.81	91.10	46.43	771.80	5,445.04	3,756.51	3,631.69	124.82	30.096		
6,000.00	5,451.66	5,361.66	5,361.66	44.81	92.61	46.95	771.80	5,445.04	3,719.20	3,591.94	127.26	29.226		
6,100.00	5,537.92	5,447.92	5,447.92	45.81	94.12	47.49	771.80	5,445.04	3,682.20	3,552.49	129.71	28.389		
6,200.00	5,624.19	5,534.19	5,534.19	46.81	95.62	48.03	771.80	5,445.04	3,645.52	3,513.35	132.17	27.582		
6,300.00	5,710.45	5,620.45	5,620.45	47.81	97.13	48.58	771.80	5,445.04	3,609.19	3,474.54	134.65	26.805		
6,400.00	5,796.72	5,706.72	5,706.72	48.81	98.63	49.14	771.80	5,445.04	3,573.19	3,436.05	137.14	26.055		
6,500.00	5,882.98	5,802.98	5,792.98	49.81	100.38	49.71	771.80	5,445.04	3,537.56	3,397.67	139.89	25.288		
6,600.00	5,969.24	5,879.24	5,879.24	50.82	101.64	50.30	771.80	5,445.04	3,502.29	3,360.13	142.17	24.635		
6,700.00	6,055.51	5,965.51	5,965.51	51.82	103.15	50.89	771.80	5,445.04	3,467.41	3,322.70	144.70	23.962		
6,800.00	6,141.77	6,051.77	6,051.77	52.82	104.65	51.49	771.80	5,445.04	3,432.91	3,285.66	147.26	23.313		
6,900.00	6,228.03	6,138.03	6,138.03	53.83	106.16	52.10	771.80	5,445.04	3,398.82	3,249.00	149.82	22.686		
7,000.00	6,314.30	6,224.30	6,224.30	54.83	107.67	52.72	771.80	5,445.04	3,365.14	3,212.74	152.40	22.081		
7,100.00	6,400.56	6,310.56	6,310.56	55.83	109.17	53.36	771.80	5,445.04	3,331.89	3,176.89	155.00	21.497		
7,200.00	6,486.83	6,403.17	6,396.83	56.84	110.79	54.00	771.80	5,445.04	3,299.08	3,141.36	157.72	20.918		
7,300.00	6,573.09	6,483.09	6,483.09	57.84	112.18	54.65	771.80	5,445.04	3,266.72	3,106.49	160.23	20.388		
7,400.00	6,659.35	6,569.35	6,569.35	58.84	113.69	55.32	771.80	5,445.04	3,234.83	3,071.96	162.87	19.861		
7,500.00	6,745.62	6,655.62	6,655.62	59.85	115.19	55.99	771.80	5,445.04	3,203.43	3,037.90	165.53	19.353		
7,600.00	6,831.88	6,741.88	6,741.88	60.85	116.70	56.68	771.80	5,445.04	3,172.51	3,004.32	168.19	18.862		
7,700.00	6,918.14	6,828.14	6,828.14	61.86	118.20	57.38	771.80	5,445.04	3,142.11	2,971.23	170.88	18.388		
7,800.00	7,004.41	6,914.41	6,914.41	62.86	119.71	58.08	771.80	5,445.04	3,112.23	2,938.66	173.57	17.930		
7,900.00	7,090.67	7,000.67	7,000.67	63.87	121.22	58.80	771.80	5,445.04	3,082.90	2,906.61	176.29	17.488		
8,000.00	7,176.94	7,086.94	7,086.94	64.87	122.72	59.53	771.80	5,445.04	3,054.12	2,875.11	179.01	17.061		
8,027.52	7,200.68	7,110.68	7,110.68	65.15	123.14	59.74	771.80	5,445.04	3,046.29	2,866.53	179.76	16.946		
8,050.00	7,220.18	7,130.18	7,130.18	65.37	123.48	55.90	771.80	5,445.04	3,039.74	2,859.37	180.37	16.853		
8,100.00	7,264.25	7,174.25	7,174.25	65.85	124.25	46.21	771.80	5,445.04	3,023.86	2,842.19	181.67	16.645		
8,150.00	7,308.99	7,218.99	7,218.99	66.28	125.03	35.10	771.80	5,445.04	3,006.23	2,823.33	182.89	16.437		
8,200.00	7,354.07	7,264.07	7,264.07	66.67	125.81	23.02	771.80	5,445.04	2,986.93	2,802.91	184.02	16.231		
8,250.00	7,399.14	7,309.14	7,309.14	67.02	126.60	10.67	771.80	5,445.04	2,966.08	2,781.02	185.05	16.028		
8,300.00	7,443.85	7,353.85	7,353.85	67.32	127.38	-1.25	771.80	5,445.04	2,943.80	2,757.83	185.97	15.829		
8,350.00	7,487.88	7,402.12	7,397.88	67.56	128.22	-12.30	771.80	5,445.04	2,920.26	2,733.41	186.84	15.629		
8,400.00	7,530.87	7,440.87	7,440.87	67.75	128.90	-22.30	771.80	5,445.04	2,895.65	2,708.20	187.45	15.448		
8,450.00	7,572.51	7,482.51	7,482.51	67.90	129.63	-31.30	771.80	5,445.04	2,870.19	2,682.18	188.00	15.267		
8,500.00	7,612.48	7,522.48	7,522.48	68.00	130.32	-39.43	771.80	5,445.04	2,844.11	2,655.68	188.42	15.094		
8,550.00	7,650.47	7,560.47	7,560.47	68.05	130.99	-46.81	771.80	5,445.04	2,817.68	2,628.96	188.72	14.931		
8,600.00	7,686.20	7,603.80	7,596.20	68.06	131.74	-53.55	771.80	5,445.04	2,791.17	2,602.17	189.00	14.768		
8,650.00	7,719.39	7,629.39	7,629.39	68.03	132.19	-59.70	771.80	5,445.04	2,764.89	2,576.00	188.89	14.637		
8,700.00	7,749.79	7,659.79	7,659.79	67.97	132.72	-65.29	771.80	5,445.04	2,739.14	2,550.36	188.78	14.510		
8,750.00	7,777.17	7,687.17	7,687.17	67.87	133.20	-70.33	771.80	5,445.04	2,714.22	2,525.69	188.54	14.396		
8,800.00	7,801.32	7,711.32	7,711.32	67.74	133.62	-74.82	771.80	5,445.04	2,690.46	2,502.29	188.17	14.298		
8,850.00	7,822.06	7,732.06	7,732.06	67.59	133.98	-78.74	771.80	5,445.04	2,668.15	2,480.47	187.68	14.216		
8,900.00	7,839.23	7,749.23	7,749.23	67.41	134.28	-82.11	771.80	5,445.04	2,647.59	2,460.51	187.08	14.152		
8,950.00	7,852.69	7,762.69	7,762.69	67.22	134.52	-84.91	771.80	5,445.04	2,629.04	2,442.66	186.38	14.106		
9,000.00	7,862.35	7,772.35	7,772.35	67.00	134.68	-87.16	771.80	5,445.04	2,612.75	2,427.17	185.58	14.079		
9,050.00	7,868.14	7,778.14	7,778.14	66.78	134.79	-88.86	771.80	5,445.04	2,598.93	2,414.22	184.70	14.071 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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,098.65	7,870.00	7,780.00	7,780.00	66.55	134.82	-90.00	771.80	5,445.04	2,588.01	2,404.23	183.78	14.082		
9,100.00	7,870.00	7,780.00	7,780.00	66.55	134.82	-90.00	771.80	5,445.04	2,587.74	2,403.99	183.76	14.082		
9,200.00	7,870.00	7,780.00	7,780.00	66.09	134.82	-90.00	771.80	5,445.04	2,569.88	2,388.03	181.86	14.131		
9,300.00	7,870.00	7,780.00	7,780.00	65.65	134.82	-90.00	771.80	5,445.04	2,555.81	2,375.75	180.06	14.194		
9,400.00	7,870.00	7,780.00	7,780.00	65.24	134.82	-90.00	771.80	5,445.04	2,545.60	2,367.18	178.42	14.268		
9,500.00	7,870.00	7,780.00	7,780.00	64.85	134.82	-90.00	771.80	5,445.04	2,539.28	2,362.33	176.95	14.350		
9,600.00	7,870.00	7,780.00	7,780.00	64.48	134.82	-90.00	771.80	5,445.04	2,536.89	2,361.18	175.71	14.438 ES		
9,610.60	7,870.00	7,780.00	7,780.00	64.44	134.82	-90.00	771.80	5,445.04	2,536.87	2,361.27	175.60	14.447 CC		
9,700.00	7,870.00	7,780.00	7,780.00	64.13	134.82	-90.00	771.80	5,445.04	2,538.44	2,363.72	174.72	14.528		
9,800.00	7,870.00	7,780.00	7,780.00	63.80	134.82	-90.00	771.80	5,445.04	2,543.93	2,369.91	174.02	14.619		
9,900.00	7,870.00	7,780.00	7,780.00	63.50	134.82	-90.00	771.80	5,445.04	2,553.32	2,379.71	173.62	14.707		
10,000.00	7,870.00	7,780.00	7,780.00	63.22	134.82	-90.00	771.80	5,445.04	2,566.58	2,393.06	173.52	14.791		
10,100.00	7,870.00	7,780.00	7,780.00	62.96	134.82	-90.00	771.80	5,445.04	2,583.64	2,409.92	173.73	14.872		
10,200.00	7,870.00	7,780.00	7,780.00	62.72	134.82	-90.00	771.80	5,445.04	2,604.44	2,430.22	174.22	14.949		
10,300.00	7,870.00	7,780.00	7,780.00	62.50	134.82	-90.00	771.80	5,445.04	2,628.87	2,453.91	174.96	15.025		
10,400.00	7,870.00	7,780.00	7,780.00	62.31	134.82	-90.00	771.80	5,445.04	2,656.85	2,480.92	175.93	15.102		
10,500.00	7,870.00	7,780.00	7,780.00	62.15	134.82	-90.00	771.80	5,445.04	2,688.26	2,511.18	177.08	15.181		
10,600.00	7,870.00	7,780.00	7,780.00	62.01	134.82	-90.00	771.80	5,445.04	2,722.98	2,544.60	178.38	15.265		
10,700.00	7,870.00	7,780.00	7,780.00	61.90	134.82	-90.00	771.80	5,445.04	2,760.89	2,581.09	179.79	15.356		
10,800.00	7,870.00	7,780.00	7,780.00	61.82	134.82	-90.00	771.80	5,445.04	2,801.85	2,620.57	181.29	15.455		
10,900.00	7,870.00	7,780.00	7,780.00	61.78	134.82	-90.00	771.80	5,445.04	2,845.74	2,662.91	182.83	15.565		
11,000.00	7,870.00	7,780.00	7,780.00	61.77	134.82	-90.00	771.80	5,445.04	2,892.43	2,708.02	184.41	15.685		
11,100.00	7,870.00	7,780.00	7,780.00	61.81	134.82	-90.00	771.80	5,445.04	2,941.77	2,755.78	185.99	15.817		
11,200.00	7,870.00	7,780.00	7,780.00	61.90	134.82	-90.00	771.80	5,445.04	2,993.64	2,806.08	187.56	15.961		
11,300.00	7,870.00	7,780.00	7,780.00	62.03	134.82	-90.00	771.80	5,445.04	3,047.92	2,858.80	189.12	16.117		
11,400.00	7,870.00	7,780.00	7,780.00	62.23	134.82	-90.00	771.80	5,445.04	3,104.46	2,913.82	190.64	16.284		
11,500.00	7,870.00	7,780.00	7,780.00	62.50	134.82	-90.00	771.80	5,445.04	3,163.15	2,971.03	192.13	16.464		
11,600.00	7,870.00	7,780.00	7,780.00	62.84	134.82	-90.00	771.80	5,445.04	3,223.88	3,030.31	193.57	16.655		
11,700.00	7,870.00	7,780.00	7,780.00	63.25	134.82	-90.00	771.80	5,445.04	3,286.53	3,091.57	194.97	16.857		
11,800.00	7,870.00	7,780.00	7,780.00	63.76	134.82	-90.00	771.80	5,445.04	3,351.00	3,154.69	196.31	17.070		
11,900.00	7,870.00	7,780.00	7,780.00	64.34	134.82	-90.00	771.80	5,445.04	3,417.17	3,219.57	197.60	17.293		
12,000.00	7,870.00	7,780.00	7,780.00	65.01	134.82	-90.00	771.80	5,445.04	3,484.96	3,286.11	198.85	17.526		
12,100.00	7,870.00	7,780.00	7,780.00	65.77	134.82	-90.00	771.80	5,445.04	3,554.27	3,354.23	200.04	17.768		
12,200.00	7,870.00	7,780.00	7,780.00	66.61	134.82	-90.00	771.80	5,445.04	3,625.01	3,423.84	201.18	18.019		
12,300.00	7,870.00	7,780.00	7,780.00	67.51	134.82	-90.00	771.80	5,445.04	3,697.11	3,494.84	202.26	18.279		
12,400.00	7,870.00	7,780.00	7,780.00	68.49	134.82	-90.00	771.80	5,445.04	3,770.47	3,567.17	203.30	18.546		
12,500.00	7,870.00	7,780.00	7,780.00	69.52	134.82	-90.00	771.80	5,445.04	3,845.04	3,640.74	204.30	18.821		
12,600.00	7,870.00	7,780.00	7,780.00	70.61	134.82	-90.00	771.80	5,445.04	3,920.74	3,715.50	205.25	19.103		
12,700.00	7,870.00	7,780.00	7,780.00	71.75	134.82	-90.00	771.80	5,445.04	3,997.51	3,791.36	206.15	19.391		
12,800.00	7,870.00	7,780.00	7,780.00	72.93	134.82	-90.00	771.80	5,445.04	4,075.29	3,868.28	207.01	19.686		
12,900.00	7,870.00	7,780.00	7,780.00	74.14	134.82	-90.00	771.80	5,445.04	4,154.02	3,946.18	207.83	19.987		
13,000.00	7,870.00	7,780.00	7,780.00	75.39	134.82	-90.00	771.80	5,445.04	4,233.65	4,025.03	208.62	20.294		
13,100.00	7,870.00	7,780.00	7,780.00	76.67	134.82	-90.00	771.80	5,445.04	4,314.12	4,104.75	209.37	20.606		
13,200.00	7,870.00	7,780.00	7,780.00	77.98	134.82	-90.00	771.80	5,445.04	4,395.40	4,185.32	210.08	20.922		
13,300.00	7,870.00	7,780.00	7,780.00	79.31	134.82	-90.00	771.80	5,445.04	4,477.43	4,266.67	210.76	21.244		
13,400.00	7,870.00	7,780.00	7,780.00	80.67	134.82	-90.00	771.80	5,445.04	4,560.18	4,348.77	211.41	21.570		
13,500.00	7,870.00	7,780.00	7,780.00	82.04	134.82	-90.00	771.80	5,445.04	4,643.61	4,431.58	212.03	21.900		
13,600.00	7,870.00	7,780.00	7,780.00	83.43	134.82	-90.00	771.80	5,445.04	4,727.69	4,515.06	212.63	22.235		
13,700.00	7,870.00	7,780.00	7,780.00	84.84	134.82	-90.00	771.80	5,445.04	4,812.37	4,599.18	213.19	22.573		
13,800.00	7,870.00	7,780.00	7,780.00	86.27	134.82	-90.00	771.80	5,445.04	4,897.63	4,683.89	213.74	22.914		
13,900.00	7,870.00	7,780.00	7,780.00	87.71	134.82	-90.00	771.80	5,445.04	4,983.44	4,769.18	214.26	23.259		
14,000.00	7,870.00	7,780.00	7,780.00	89.16	134.82	-90.00	771.80	5,445.04	5,069.77	4,855.02	214.75	23.607		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	7,870.00	7,780.00	7,780.00	90.63	134.82	-90.00	771.80	5,445.04	5,156.59	4,941.36	215.23	23.959		
14,200.00	7,870.00	7,780.00	7,780.00	92.10	134.82	-90.00	771.80	5,445.04	5,243.88	5,028.20	215.68	24.313		
14,300.00	7,870.00	7,780.00	7,780.00	93.59	134.82	-90.00	771.80	5,445.04	5,331.62	5,115.50	216.12	24.670		
14,400.00	7,870.00	7,780.00	7,780.00	95.09	134.82	-90.00	771.80	5,445.04	5,419.79	5,203.25	216.54	25.029		
14,500.00	7,870.00	7,780.00	7,780.00	96.60	134.82	-90.00	771.80	5,445.04	5,508.35	5,291.41	216.94	25.391		
14,600.00	7,870.00	7,780.00	7,780.00	98.11	134.82	-90.00	771.80	5,445.04	5,597.31	5,379.98	217.33	25.755		
14,700.00	7,870.00	7,780.00	7,780.00	99.64	134.82	-90.00	771.80	5,445.04	5,686.63	5,468.93	217.70	26.121		
14,800.00	7,870.00	7,780.00	7,780.00	101.17	134.82	-90.00	771.80	5,445.04	5,776.30	5,558.24	218.06	26.490		
14,900.00	7,870.00	7,780.00	7,780.00	102.71	134.82	-90.00	771.80	5,445.04	5,866.30	5,647.90	218.40	26.860		
15,000.00	7,870.00	7,780.00	7,780.00	104.26	134.82	-90.00	771.80	5,445.04	5,956.62	5,737.89	218.73	27.233		
15,100.00	7,870.00	7,780.00	7,780.00	105.82	134.82	-90.00	771.80	5,445.04	6,047.25	5,828.20	219.05	27.607		
15,200.00	7,870.00	7,780.00	7,780.00	107.38	134.82	-90.00	771.80	5,445.04	6,138.17	5,918.81	219.36	27.983		
15,300.00	7,870.00	7,780.00	7,780.00	108.95	134.82	-90.00	771.80	5,445.04	6,229.37	6,009.71	219.65	28.360		
15,400.00	7,870.00	7,780.00	7,780.00	110.52	134.82	-90.00	771.80	5,445.04	6,320.83	6,100.89	219.94	28.739		
15,500.00	7,870.00	7,780.00	7,780.00	112.10	134.82	-90.00	771.80	5,445.04	6,412.55	6,192.34	220.21	29.120		
15,600.00	7,870.00	7,780.00	7,780.00	113.69	134.82	-90.00	771.80	5,445.04	6,504.51	6,284.03	220.48	29.502		
15,700.00	7,870.00	7,780.00	7,780.00	115.28	134.82	-90.00	771.80	5,445.04	6,596.71	6,375.97	220.73	29.885		
15,800.00	7,870.00	7,780.00	7,780.00	116.87	134.82	-90.00	771.80	5,445.04	6,689.13	6,468.14	220.98	30.270		
15,900.00	7,870.00	7,780.00	7,780.00	118.47	134.82	-90.00	771.80	5,445.04	6,781.76	6,560.54	221.22	30.656		
16,000.00	7,870.00	7,780.00	7,780.00	120.07	134.82	-90.00	771.80	5,445.04	6,874.60	6,653.15	221.46	31.043		
16,100.00	7,870.00	7,780.00	7,780.00	121.68	134.82	-90.00	771.80	5,445.04	6,967.64	6,745.96	221.68	31.431		
16,200.00	7,870.00	7,780.00	7,780.00	123.30	134.82	-90.00	771.80	5,445.04	7,060.87	6,838.97	221.90	31.820		
16,300.00	7,870.00	7,780.00	7,780.00	124.91	134.82	-90.00	771.80	5,445.04	7,154.29	6,932.17	222.11	32.210		
16,400.00	7,870.00	7,780.00	7,780.00	126.53	134.82	-90.00	771.80	5,445.04	7,247.87	7,025.56	222.32	32.602		
16,500.00	7,870.00	7,780.00	7,780.00	128.16	134.82	-90.00	771.80	5,445.04	7,341.63	7,119.12	222.52	32.994		
16,600.00	7,870.00	7,780.00	7,780.00	129.79	134.82	-90.00	771.80	5,445.04	7,435.55	7,212.84	222.71	33.387		
16,700.00	7,870.00	7,780.00	7,780.00	131.42	134.82	-90.00	771.80	5,445.04	7,529.63	7,306.73	222.90	33.781		
16,800.00	7,870.00	7,780.00	7,780.00	133.05	134.82	-90.00	771.80	5,445.04	7,623.86	7,400.78	223.08	34.175		
16,900.00	7,870.00	7,780.00	7,780.00	134.69	134.82	-90.00	771.80	5,445.04	7,718.23	7,494.97	223.26	34.571		
17,000.00	7,870.00	7,780.00	7,780.00	136.33	134.82	-90.00	771.80	5,445.04	7,812.74	7,589.31	223.43	34.967		
17,100.00	7,870.00	7,780.00	7,780.00	137.97	134.82	-90.00	771.80	5,445.04	7,907.39	7,683.79	223.60	35.364		
17,200.00	7,870.00	7,780.00	7,780.00	139.62	134.82	-90.00	771.80	5,445.04	8,002.17	7,778.41	223.76	35.762		
17,300.00	7,870.00	7,780.00	7,780.00	141.27	134.82	-90.00	771.80	5,445.04	8,097.07	7,873.15	223.92	36.160		
17,400.00	7,870.00	7,780.00	7,780.00	142.92	134.82	-90.00	771.80	5,445.04	8,192.10	7,968.02	224.08	36.559		
17,500.00	7,870.00	7,780.00	7,780.00	144.58	134.82	-90.00	771.80	5,445.04	8,287.24	8,063.01	224.23	36.958		
17,600.00	7,870.00	7,780.00	7,780.00	146.23	134.82	-90.00	771.80	5,445.04	8,382.50	8,158.12	224.38	37.358		
17,700.00	7,870.00	7,780.00	7,780.00	147.89	134.82	-90.00	771.80	5,445.04	8,477.86	8,253.34	224.53	37.759		
17,800.00	7,870.00	7,780.00	7,780.00	149.56	134.82	-90.00	771.80	5,445.04	8,573.33	8,348.66	224.67	38.160		
17,900.00	7,870.00	7,780.00	7,780.00	151.22	134.82	-90.00	771.80	5,445.04	8,668.90	8,444.10	224.81	38.562		
18,000.00	7,870.00	7,780.00	7,780.00	152.89	134.82	-90.00	771.80	5,445.04	8,764.58	8,539.63	224.94	38.964		
18,100.00	7,870.00	7,780.00	7,780.00	154.55	134.82	-90.00	771.80	5,445.04	8,860.34	8,635.27	225.07	39.367		
18,200.00	7,870.00	7,780.00	7,780.00	156.22	134.82	-90.00	771.80	5,445.04	8,956.20	8,731.00	225.20	39.770		
18,300.00	7,870.00	7,780.00	7,780.00	157.90	134.82	-90.00	771.80	5,445.04	9,052.15	8,826.82	225.33	40.173		
18,400.00	7,870.00	7,780.00	7,780.00	159.57	134.82	-90.00	771.80	5,445.04	9,148.19	8,922.73	225.45	40.577		
18,500.00	7,870.00	7,780.00	7,780.00	161.25	134.82	-90.00	771.80	5,445.04	9,244.31	9,018.73	225.58	40.981		
18,600.00	7,870.00	7,780.00	7,780.00	162.93	134.82	-90.00	771.80	5,445.04	9,340.51	9,114.81	225.70	41.386		
18,700.00	7,870.00	7,780.00	7,780.00	164.60	134.82	-90.00	771.80	5,445.04	9,436.79	9,210.97	225.81	41.790		
18,797.52	7,870.00	7,780.00	7,780.00	166.24	134.82	-90.00	771.80	5,445.04	9,530.75	9,304.82	225.92	42.186		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	115.65	-1,439.12	2,996.76	3,324.93					
100.00	100.00	41.00	41.00	0.13	0.31	115.65	-1,439.12	2,996.76	3,324.40	3,323.95	0.45	7,399.323		
200.00	200.00	141.00	141.00	0.49	1.48	115.65	-1,439.12	2,996.76	3,324.40	3,322.43	1.98	1,682.025		
300.00	300.00	241.00	241.00	0.85	3.23	115.65	-1,439.12	2,996.76	3,324.40	3,320.32	4.08	814.759		
400.00	400.00	341.00	341.00	1.21	4.97	115.65	-1,439.12	2,996.76	3,324.40	3,318.22	6.18	537.579		
500.00	500.00	441.00	441.00	1.57	6.72	115.65	-1,439.12	2,996.76	3,324.40	3,316.12	8.29	401.119		
600.00	600.00	541.00	541.00	1.93	8.46	115.65	-1,439.12	2,996.76	3,324.40	3,314.01	10.39	319.912		
700.00	700.00	641.00	641.00	2.29	10.21	115.65	-1,439.12	2,996.76	3,324.40	3,311.91	12.50	266.049		
800.00	800.00	741.00	741.00	2.64	11.96	115.65	-1,439.12	2,996.76	3,324.40	3,309.80	14.60	227.711		
900.00	900.00	841.00	841.00	3.00	13.70	115.65	-1,439.12	2,996.76	3,324.40	3,307.70	16.70	199.030		
1,000.00	1,000.00	941.00	941.00	3.36	15.45	115.65	-1,439.12	2,996.76	3,324.40	3,305.60	18.81	176.766		
1,100.00	1,099.98	1,040.98	1,040.98	3.72	17.19	61.07	-1,439.12	2,996.76	3,323.56	3,302.65	20.91	158.973		
1,200.00	1,199.84	1,140.84	1,140.84	4.07	18.93	61.19	-1,439.12	2,996.76	3,321.03	3,298.03	23.00	144.381		
1,300.00	1,299.45	1,240.45	1,240.45	4.43	20.67	61.40	-1,439.12	2,996.76	3,316.83	3,291.73	25.10	132.163		
1,400.00	1,398.70	1,339.70	1,339.70	4.80	22.40	61.69	-1,439.12	2,996.76	3,310.99	3,283.80	27.19	121.766		
1,500.00	1,497.47	1,438.47	1,438.47	5.18	24.13	62.06	-1,439.12	2,996.76	3,303.54	3,274.25	29.29	112.796		
1,600.00	1,595.62	1,536.62	1,536.62	5.57	25.84	62.50	-1,439.12	2,996.76	3,294.54	3,263.15	31.39	104.960		
1,700.00	1,693.06	1,634.06	1,634.06	6.00	27.54	63.03	-1,439.12	2,996.76	3,284.03	3,250.54	33.50	98.043		
1,800.00	1,789.64	1,730.64	1,730.64	6.45	29.23	63.64	-1,439.12	2,996.76	3,272.09	3,236.48	35.61	91.879		
1,900.00	1,885.27	1,826.27	1,826.27	6.94	30.90	64.33	-1,439.12	2,996.76	3,258.80	3,221.06	37.74	86.340		
2,000.00	1,979.82	1,920.82	1,920.82	7.47	32.55	65.09	-1,439.12	2,996.76	3,244.25	3,204.35	39.89	81.327		
2,100.00	2,073.17	2,014.17	2,014.17	8.05	34.18	65.92	-1,439.12	2,996.76	3,228.53	3,186.47	42.06	76.761		
2,200.00	2,165.21	2,106.21	2,106.21	8.67	35.78	66.83	-1,439.12	2,996.76	3,211.76	3,167.51	44.25	72.579		
2,300.00	2,255.84	2,203.16	2,196.84	9.35	37.48	67.81	-1,439.12	2,996.76	3,194.06	3,147.48	46.58	68.568		
2,400.00	2,344.94	2,285.94	2,285.94	10.09	38.92	68.84	-1,439.12	2,996.76	3,175.57	3,126.84	48.72	65.176		
2,500.00	2,432.39	2,373.39	2,373.39	10.89	40.45	69.94	-1,439.12	2,996.76	3,156.42	3,105.41	51.01	61.882		
2,519.29	2,449.07	2,409.93	2,390.07	11.05	41.08	70.16	-1,439.12	2,996.76	3,152.66	3,100.86	51.80	60.864		
2,600.00	2,518.69	2,459.69	2,459.69	11.74	41.95	70.77	-1,439.12	2,996.76	3,137.13	3,083.81	53.33	58.830		
2,700.00	2,604.95	2,545.95	2,545.95	12.62	43.46	71.54	-1,439.12	2,996.76	3,118.53	3,062.85	55.67	56.013		
2,800.00	2,691.22	2,632.22	2,632.22	13.52	44.96	72.32	-1,439.12	2,996.76	3,100.63	3,042.58	58.05	53.412		
2,900.00	2,777.48	2,718.48	2,718.48	14.43	46.47	73.10	-1,439.12	2,996.76	3,083.47	3,023.02	60.45	51.008		
3,000.00	2,863.75	2,804.75	2,804.75	15.35	47.97	73.89	-1,439.12	2,996.76	3,067.04	3,004.17	62.87	48.784		
3,100.00	2,950.01	2,908.99	2,891.01	16.28	49.79	74.69	-1,439.12	2,996.76	3,051.36	2,985.74	65.62	46.501		
3,200.00	3,036.27	2,977.27	2,977.27	17.22	50.99	75.49	-1,439.12	2,996.76	3,036.44	2,968.69	67.76	44.813		
3,300.00	3,122.54	3,063.54	3,063.54	18.17	52.49	76.30	-1,439.12	2,996.76	3,022.30	2,952.08	70.22	43.038		
3,400.00	3,208.80	3,149.80	3,149.80	19.13	54.00	77.12	-1,439.12	2,996.76	3,008.94	2,936.24	72.70	41.388		
3,500.00	3,295.07	3,236.07	3,236.07	20.09	55.50	77.94	-1,439.12	2,996.76	2,996.38	2,921.19	75.19	39.852		
3,600.00	3,381.33	3,322.33	3,322.33	21.05	57.01	78.76	-1,439.12	2,996.76	2,984.62	2,906.93	77.68	38.420		
3,700.00	3,467.59	3,408.59	3,408.59	22.02	58.51	79.59	-1,439.12	2,996.76	2,973.67	2,893.48	80.19	37.083		
3,800.00	3,553.86	3,505.14	3,494.86	22.99	60.20	80.42	-1,439.12	2,996.76	2,963.55	2,880.67	82.88	35.758		
3,900.00	3,640.12	3,581.12	3,581.12	23.97	61.52	81.26	-1,439.12	2,996.76	2,954.25	2,869.04	85.21	34.669		
4,000.00	3,726.38	3,667.38	3,667.38	24.95	63.03	82.10	-1,439.12	2,996.76	2,945.80	2,858.07	87.73	33.577		
4,100.00	3,812.65	3,753.65	3,753.65	25.93	64.54	82.95	-1,439.12	2,996.76	2,938.20	2,847.94	90.26	32.554		
4,200.00	3,898.91	3,839.91	3,839.91	26.91	66.04	83.80	-1,439.12	2,996.76	2,931.44	2,838.66	92.78	31.596		
4,300.00	3,985.18	3,926.18	3,926.18	27.90	67.55	84.65	-1,439.12	2,996.76	2,925.55	2,830.25	95.30	30.697		
4,400.00	4,071.44	4,012.44	4,012.44	28.88	69.05	85.50	-1,439.12	2,996.76	2,920.52	2,822.69	97.83	29.854		
4,500.00	4,157.70	4,101.30	4,098.70	29.87	70.60	86.36	-1,439.12	2,996.76	2,916.36	2,815.96	100.40	29.048		
4,600.00	4,243.97	4,184.97	4,184.97	30.86	72.06	87.21	-1,439.12	2,996.76	2,913.07	2,810.20	102.87	28.317		
4,700.00	4,330.23	4,271.23	4,271.23	31.85	73.57	88.07	-1,439.12	2,996.76	2,910.66	2,805.27	105.39	27.618		
4,800.00	4,416.49	4,357.49	4,357.49	32.84	75.08	88.93	-1,439.12	2,996.76	2,909.12	2,801.22	107.90	26.960		
4,900.00	4,502.76	4,443.76	4,443.76	33.84	76.58	89.79	-1,439.12	2,996.76	2,908.47	2,798.05	110.41	26.342		
4,924.59	4,523.97	4,464.97	4,464.97	34.08	76.95	90.00	-1,439.12	2,996.76	2,908.44	2,797.41	111.03	26.195		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,589.02	4,530.02	4,530.02	34.83	78.09	90.65	-1,439.12	2,996.76	2,908.69	2,795.77	112.92	25.760		
5,100.00	4,675.29	4,616.29	4,616.29	35.82	79.59	91.51	-1,439.12	2,996.76	2,909.79	2,794.38	115.41	25.212		
5,200.00	4,761.55	4,702.55	4,702.55	36.82	81.10	92.37	-1,439.12	2,996.76	2,911.77	2,793.87	117.90	24.697		
5,300.00	4,847.81	4,788.81	4,788.81	37.82	82.60	93.22	-1,439.12	2,996.76	2,914.63	2,794.25	120.38	24.212		
5,400.00	4,934.08	4,875.08	4,875.08	38.81	84.11	94.08	-1,439.12	2,996.76	2,918.36	2,795.51	122.85	23.755		
5,500.00	5,020.34	4,961.34	4,961.34	39.81	85.61	94.93	-1,439.12	2,996.76	2,922.97	2,797.65	125.32	23.325		
5,600.00	5,106.60	5,047.60	5,047.60	40.81	87.12	95.79	-1,439.12	2,996.76	2,928.44	2,800.67	127.77	22.920		
5,700.00	5,192.87	5,133.87	5,133.87	41.81	88.63	96.64	-1,439.12	2,996.76	2,934.77	2,804.56	130.21	22.539		
5,800.00	5,279.13	5,220.13	5,220.13	42.81	90.13	97.48	-1,439.12	2,996.76	2,941.95	2,809.32	132.64	22.180		
5,900.00	5,365.40	5,306.40	5,306.40	43.81	91.64	98.33	-1,439.12	2,996.76	2,949.99	2,814.93	135.06	21.843		
6,000.00	5,451.66	5,407.34	5,392.66	44.81	93.40	99.17	-1,439.12	2,996.76	2,958.87	2,821.15	137.72	21.485		
6,100.00	5,537.92	5,478.92	5,478.92	45.81	94.65	100.00	-1,439.12	2,996.76	2,968.59	2,828.73	139.86	21.226		
6,200.00	5,624.19	5,565.19	5,565.19	46.81	96.15	100.83	-1,439.12	2,996.76	2,979.13	2,836.90	142.23	20.945		
6,300.00	5,710.45	5,651.45	5,651.45	47.81	97.66	101.66	-1,439.12	2,996.76	2,990.49	2,845.89	144.60	20.681		
6,400.00	5,796.72	5,737.72	5,737.72	48.81	99.16	102.48	-1,439.12	2,996.76	3,002.66	2,855.71	146.95	20.433		
6,500.00	5,882.98	5,823.98	5,823.98	49.81	100.67	103.30	-1,439.12	2,996.76	3,015.63	2,866.34	149.29	20.200		
6,600.00	5,969.24	5,910.24	5,910.24	50.82	102.18	104.11	-1,439.12	2,996.76	3,029.39	2,877.77	151.62	19.981		
6,700.00	6,055.51	6,003.49	5,996.51	51.82	103.80	104.91	-1,439.12	2,996.76	3,043.93	2,889.88	154.05	19.759		
6,800.00	6,141.77	6,082.77	6,082.77	52.82	105.19	105.71	-1,439.12	2,996.76	3,059.23	2,903.01	156.22	19.582		
6,900.00	6,228.03	6,169.03	6,169.03	53.83	106.69	106.51	-1,439.12	2,996.76	3,075.29	2,916.79	158.50	19.402		
7,000.00	6,314.30	6,255.30	6,255.30	54.83	108.20	107.29	-1,439.12	2,996.76	3,092.10	2,931.33	160.77	19.233		
7,100.00	6,400.56	6,341.56	6,341.56	55.83	109.70	108.07	-1,439.12	2,996.76	3,109.64	2,946.61	163.02	19.075		
7,200.00	6,486.83	6,427.83	6,427.83	56.84	111.21	108.85	-1,439.12	2,996.76	3,127.89	2,962.63	165.26	18.927		
7,300.00	6,573.09	6,514.09	6,514.09	57.84	112.71	109.61	-1,439.12	2,996.76	3,146.86	2,979.37	167.49	18.789		
7,400.00	6,659.35	6,600.35	6,600.35	58.84	114.22	110.37	-1,439.12	2,996.76	3,166.51	2,996.82	169.70	18.660		
7,500.00	6,745.62	6,686.62	6,686.62	59.85	115.73	111.13	-1,439.12	2,996.76	3,186.85	3,014.96	171.89	18.540		
7,600.00	6,831.88	6,772.88	6,772.88	60.85	117.23	111.87	-1,439.12	2,996.76	3,207.86	3,033.79	174.08	18.428		
7,700.00	6,918.14	6,859.14	6,859.14	61.86	118.74	112.61	-1,439.12	2,996.76	3,229.53	3,053.28	176.25	18.324		
7,800.00	7,004.41	6,945.41	6,945.41	62.86	120.24	113.33	-1,439.12	2,996.76	3,251.84	3,073.43	178.40	18.228		
7,900.00	7,090.67	7,031.67	7,031.67	63.87	121.75	114.06	-1,439.12	2,996.76	3,274.77	3,094.23	180.54	18.138		
8,000.00	7,176.94	7,117.94	7,117.94	64.87	123.25	114.77	-1,439.12	2,996.76	3,298.32	3,115.65	182.67	18.056		
8,027.52	7,200.68	7,141.68	7,141.68	65.15	123.67	114.96	-1,439.12	2,996.76	3,304.91	3,121.66	183.26	18.034		
8,050.00	7,220.18	7,161.18	7,161.18	65.37	124.01	111.78	-1,439.12	2,996.76	3,309.90	3,126.17	183.74	18.015		
8,100.00	7,264.25	7,205.25	7,205.25	65.85	124.78	103.70	-1,439.12	2,996.76	3,318.02	3,133.21	184.81	17.954		
8,150.00	7,308.99	7,249.99	7,249.99	66.28	125.56	94.41	-1,439.12	2,996.76	3,321.98	3,136.10	185.88	17.871		
8,200.00	7,354.07	7,304.93	7,295.07	66.67	126.52	84.38	-1,439.12	2,996.76	3,321.75	3,134.62	187.13	17.751		
8,250.00	7,399.14	7,340.14	7,340.14	67.02	127.13	74.32	-1,439.12	2,996.76	3,317.31	3,129.31	188.01	17.644		
8,300.00	7,443.85	7,384.85	7,384.85	67.32	127.91	64.95	-1,439.12	2,996.76	3,308.71	3,119.67	189.04	17.503		
8,350.00	7,487.88	7,428.88	7,428.88	67.56	128.68	56.73	-1,439.12	2,996.76	3,295.98	3,105.95	190.03	17.344		
8,400.00	7,530.87	7,471.87	7,471.87	67.75	129.43	49.79	-1,439.12	2,996.76	3,279.22	3,088.23	190.99	17.170		
8,450.00	7,572.51	7,513.51	7,513.51	67.90	130.16	44.07	-1,439.12	2,996.76	3,258.53	3,066.63	191.90	16.981		
8,500.00	7,612.48	7,553.48	7,553.48	68.00	130.86	39.41	-1,439.12	2,996.76	3,234.06	3,041.31	192.75	16.778		
8,550.00	7,650.47	7,608.53	7,591.47	68.05	131.82	35.61	-1,439.12	2,996.76	3,205.98	3,012.13	193.85	16.538		
8,600.00	7,686.20	7,627.20	7,627.20	68.06	132.14	32.50	-1,439.12	2,996.76	3,174.49	2,980.19	194.29	16.339		
8,650.00	7,719.39	7,660.39	7,660.39	68.03	132.72	29.92	-1,439.12	2,996.76	3,139.80	2,944.83	194.97	16.104		
8,700.00	7,749.79	7,709.21	7,690.79	67.97	133.57	27.76	-1,439.12	2,996.76	3,102.17	2,906.27	195.90	15.835		
8,750.00	7,777.17	7,718.17	7,718.17	67.87	133.73	25.90	-1,439.12	2,996.76	3,061.87	2,865.75	196.12	15.612		
8,800.00	7,801.32	7,742.32	7,742.32	67.74	134.15	24.24	-1,439.12	2,996.76	3,019.18	2,822.59	196.59	15.358		
8,850.00	7,822.06	7,763.06	7,763.06	67.59	134.51	22.63	-1,439.12	2,996.76	2,974.42	2,777.44	196.98	15.100		
8,900.00	7,839.23	7,780.23	7,780.23	67.41	134.81	20.88	-1,439.12	2,996.76	2,927.91	2,730.61	197.30	14.840		
8,950.00	7,852.69	7,806.31	7,793.69	67.22	135.27	18.55	-1,439.12	2,996.76	2,880.00	2,682.23	197.77	14.563		
9,000.00	7,862.35	7,803.35	7,803.35	67.00	135.22	14.33	-1,439.12	2,996.76	2,831.04	2,633.32	197.72	14.319		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,809.14	7,809.14	66.78	135.32	1.31	-1,439.12	2,996.76	2,781.41	2,583.59	197.82	14.061		
9,098.65	7,870.00	7,811.00	7,811.00	66.55	135.35	-90.00	-1,439.12	2,996.76	2,732.81	2,534.97	197.84	13.813		
9,100.00	7,870.00	7,811.00	7,811.00	66.55	135.35	-90.00	-1,439.12	2,996.76	2,731.46	2,533.62	197.84	13.806		
9,200.00	7,870.00	7,811.00	7,811.00	66.09	135.35	-90.00	-1,439.12	2,996.76	2,631.53	2,433.71	197.82	13.303		
9,300.00	7,870.00	7,811.00	7,811.00	65.65	135.35	-90.00	-1,439.12	2,996.76	2,531.60	2,333.80	197.80	12.799		
9,400.00	7,870.00	7,811.00	7,811.00	65.24	135.35	-90.00	-1,439.12	2,996.76	2,431.67	2,233.89	197.78	12.295		
9,500.00	7,870.00	7,811.00	7,811.00	64.85	135.35	-90.00	-1,439.12	2,996.76	2,331.75	2,134.00	197.76	11.791		
9,600.00	7,870.00	7,811.00	7,811.00	64.48	135.35	-90.00	-1,439.12	2,996.76	2,231.84	2,034.11	197.73	11.287		
9,700.00	7,870.00	7,811.00	7,811.00	64.13	135.35	-90.00	-1,439.12	2,996.76	2,131.94	1,934.23	197.71	10.783		
9,800.00	7,870.00	7,811.00	7,811.00	63.80	135.35	-90.00	-1,439.12	2,996.76	2,032.05	1,834.36	197.68	10.279		
9,900.00	7,870.00	7,811.00	7,811.00	63.50	135.35	-90.00	-1,439.12	2,996.76	1,932.16	1,734.51	197.65	9.776		
10,000.00	7,870.00	7,811.00	7,811.00	63.22	135.35	-90.00	-1,439.12	2,996.76	1,832.29	1,634.67	197.62	9.272		
10,100.00	7,870.00	7,811.00	7,811.00	62.96	135.35	-90.00	-1,439.12	2,996.76	1,732.44	1,534.85	197.58	8.768		
10,200.00	7,870.00	7,811.00	7,811.00	62.72	135.35	-90.00	-1,439.12	2,996.76	1,632.60	1,435.06	197.55	8.264		
10,300.00	7,870.00	7,811.00	7,811.00	62.50	135.35	-90.00	-1,439.12	2,996.76	1,532.79	1,335.28	197.50	7.761		
10,400.00	7,870.00	7,811.00	7,811.00	62.31	135.35	-90.00	-1,439.12	2,996.76	1,433.00	1,235.54	197.45	7.257		
10,500.00	7,870.00	7,811.00	7,811.00	62.15	135.35	-90.00	-1,439.12	2,996.76	1,333.24	1,135.84	197.40	6.754		
10,600.00	7,870.00	7,811.00	7,811.00	62.01	135.35	-90.00	-1,439.12	2,996.76	1,233.52	1,036.19	197.33	6.251		
10,700.00	7,870.00	7,811.00	7,811.00	61.90	135.35	-90.00	-1,439.12	2,996.76	1,133.85	936.60	197.25	5.748		
10,800.00	7,870.00	7,811.00	7,811.00	61.82	135.35	-90.00	-1,439.12	2,996.76	1,034.24	837.09	197.16	5.246		
10,900.00	7,870.00	7,811.00	7,811.00	61.78	135.35	-90.00	-1,439.12	2,996.76	934.72	737.68	197.04	4.744		
11,000.00	7,870.00	7,811.00	7,811.00	61.77	135.35	-90.00	-1,439.12	2,996.76	835.32	638.42	196.89	4.242		
11,100.00	7,870.00	7,811.00	7,811.00	61.81	135.35	-90.00	-1,439.12	2,996.76	736.07	539.36	196.70	3.742		
11,200.00	7,870.00	7,811.00	7,811.00	61.90	135.35	-90.00	-1,439.12	2,996.76	637.06	440.61	196.45	3.243		
11,300.00	7,870.00	7,811.00	7,811.00	62.03	135.35	-90.00	-1,439.12	2,996.76	538.41	342.32	196.09	2.746		
11,400.00	7,870.00	7,811.00	7,811.00	62.23	135.35	-90.00	-1,439.12	2,996.76	440.38	244.82	195.56	2.252		
11,500.00	7,870.00	7,811.00	7,811.00	62.50	135.35	-90.00	-1,439.12	2,996.76	343.48	148.80	194.68	1.764		
11,600.00	7,870.00	7,811.00	7,811.00	62.84	135.35	-90.00	-1,439.12	2,996.76	249.05	55.99	193.05	1.290 Level 3		
11,700.00	7,870.00	7,811.00	7,811.00	63.25	135.35	-90.00	-1,439.12	2,996.76	161.46	-28.14	189.60	0.852 Level 1		
11,800.00	7,870.00	7,811.00	7,811.00	63.76	135.35	-90.00	-1,439.12	2,996.76	100.58	-85.39	185.97	0.541 Level 1		
11,829.77	7,870.00	7,811.00	7,811.00	63.92	135.35	-90.00	-1,439.12	2,996.76	96.07	-92.43	188.50	0.510 Level 1, CC, ES, SF		
11,900.00	7,870.00	7,811.00	7,811.00	64.34	135.35	-90.00	-1,439.12	2,996.76	119.00	-78.19	197.19	0.603 Level 1		
12,000.00	7,870.00	7,811.00	7,811.00	65.01	135.35	-90.00	-1,439.12	2,996.76	195.47	-4.90	200.36	0.976 Level 1		
12,100.00	7,870.00	7,811.00	7,811.00	65.77	135.35	-90.00	-1,439.12	2,996.76	286.80	86.41	200.39	1.431 Level 3		
12,200.00	7,870.00	7,811.00	7,811.00	66.61	135.35	-90.00	-1,439.12	2,996.76	382.49	182.37	200.11	1.911		
12,300.00	7,870.00	7,811.00	7,811.00	67.51	135.35	-90.00	-1,439.12	2,996.76	479.94	280.08	199.86	2.401		
12,400.00	7,870.00	7,811.00	7,811.00	68.49	135.35	-90.00	-1,439.12	2,996.76	578.26	378.60	199.66	2.896		
12,500.00	7,870.00	7,811.00	7,811.00	69.52	135.35	-90.00	-1,439.12	2,996.76	677.08	477.58	199.50	3.394		
12,600.00	7,870.00	7,811.00	7,811.00	70.61	135.35	-90.00	-1,439.12	2,996.76	776.20	576.82	199.38	3.893		
12,700.00	7,870.00	7,811.00	7,811.00	71.75	135.35	-90.00	-1,439.12	2,996.76	875.51	676.23	199.28	4.393		
12,800.00	7,870.00	7,811.00	7,811.00	72.93	135.35	-90.00	-1,439.12	2,996.76	974.97	775.77	199.20	4.894		
12,900.00	7,870.00	7,811.00	7,811.00	74.14	135.35	-90.00	-1,439.12	2,996.76	1,074.53	875.39	199.14	5.396		
13,000.00	7,870.00	7,811.00	7,811.00	75.39	135.35	-90.00	-1,439.12	2,996.76	1,174.16	975.08	199.08	5.898		
13,100.00	7,870.00	7,811.00	7,811.00	76.67	135.35	-90.00	-1,439.12	2,996.76	1,273.85	1,074.81	199.04	6.400		
13,200.00	7,870.00	7,811.00	7,811.00	77.98	135.35	-90.00	-1,439.12	2,996.76	1,373.59	1,174.59	199.00	6.902		
13,300.00	7,870.00	7,811.00	7,811.00	79.31	135.35	-90.00	-1,439.12	2,996.76	1,473.36	1,274.39	198.98	7.405		
13,400.00	7,870.00	7,811.00	7,811.00	80.67	135.35	-90.00	-1,439.12	2,996.76	1,573.16	1,374.21	198.95	7.907		
13,500.00	7,870.00	7,811.00	7,811.00	82.04	135.35	-90.00	-1,439.12	2,996.76	1,672.99	1,474.06	198.93	8.410		
13,600.00	7,870.00	7,811.00	7,811.00	83.43	135.35	-90.00	-1,439.12	2,996.76	1,772.83	1,573.92	198.92	8.912		
13,700.00	7,870.00	7,811.00	7,811.00	84.84	135.35	-90.00	-1,439.12	2,996.76	1,872.69	1,673.79	198.90	9.415		
13,800.00	7,870.00	7,811.00	7,811.00	86.27	135.35	-90.00	-1,439.12	2,996.76	1,972.57	1,773.67	198.89	9.918		
13,900.00	7,870.00	7,811.00	7,811.00	87.71	135.35	-90.00	-1,439.12	2,996.76	2,072.46	1,873.57	198.89	10.420		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,811.00	7,811.00	89.16	135.35	-90.00	-1,439.12	2,996.76	2,172.35	1,973.47	198.88	10.923		
14,100.00	7,870.00	7,811.00	7,811.00	90.63	135.35	-90.00	-1,439.12	2,996.76	2,272.26	2,073.38	198.88	11.425		
14,200.00	7,870.00	7,811.00	7,811.00	92.10	135.35	-90.00	-1,439.12	2,996.76	2,372.17	2,173.29	198.88	11.928		
14,300.00	7,870.00	7,811.00	7,811.00	93.59	135.35	-90.00	-1,439.12	2,996.76	2,472.09	2,273.21	198.88	12.430		
14,400.00	7,870.00	7,811.00	7,811.00	95.09	135.35	-90.00	-1,439.12	2,996.76	2,572.02	2,373.14	198.89	12.932		
14,500.00	7,870.00	7,811.00	7,811.00	96.60	135.35	-90.00	-1,439.12	2,996.76	2,671.95	2,473.07	198.89	13.434		
14,600.00	7,870.00	7,811.00	7,811.00	98.11	135.35	-90.00	-1,439.12	2,996.76	2,771.89	2,573.00	198.89	13.936		
14,700.00	7,870.00	7,811.00	7,811.00	99.64	135.35	-90.00	-1,439.12	2,996.76	2,871.83	2,672.93	198.90	14.438		
14,800.00	7,870.00	7,811.00	7,811.00	101.17	135.35	-90.00	-1,439.12	2,996.76	2,971.78	2,772.87	198.91	14.940		
14,900.00	7,870.00	7,811.00	7,811.00	102.71	135.35	-90.00	-1,439.12	2,996.76	3,071.73	2,872.81	198.92	15.442		
15,000.00	7,870.00	7,811.00	7,811.00	104.26	135.35	-90.00	-1,439.12	2,996.76	3,171.68	2,972.75	198.93	15.944		
15,100.00	7,870.00	7,811.00	7,811.00	105.82	135.35	-90.00	-1,439.12	2,996.76	3,271.64	3,072.70	198.94	16.445		
15,200.00	7,870.00	7,811.00	7,811.00	107.38	135.35	-90.00	-1,439.12	2,996.76	3,371.60	3,172.64	198.95	16.947		
15,300.00	7,870.00	7,811.00	7,811.00	108.95	135.35	-90.00	-1,439.12	2,996.76	3,471.56	3,272.59	198.96	17.448		
15,400.00	7,870.00	7,811.00	7,811.00	110.52	135.35	-90.00	-1,439.12	2,996.76	3,571.52	3,372.54	198.98	17.949		
15,500.00	7,870.00	7,811.00	7,811.00	112.10	135.35	-90.00	-1,439.12	2,996.76	3,671.48	3,472.49	198.99	18.450		
15,600.00	7,870.00	7,811.00	7,811.00	113.69	135.35	-90.00	-1,439.12	2,996.76	3,771.45	3,572.44	199.01	18.951		
15,700.00	7,870.00	7,811.00	7,811.00	115.28	135.35	-90.00	-1,439.12	2,996.76	3,871.42	3,672.40	199.02	19.452		
15,800.00	7,870.00	7,811.00	7,811.00	116.87	135.35	-90.00	-1,439.12	2,996.76	3,971.39	3,772.35	199.04	19.953		
15,900.00	7,870.00	7,811.00	7,811.00	118.47	135.35	-90.00	-1,439.12	2,996.76	4,071.36	3,872.30	199.06	20.453		
16,000.00	7,870.00	7,811.00	7,811.00	120.07	135.35	-90.00	-1,439.12	2,996.76	4,171.33	3,972.26	199.08	20.953		
16,100.00	7,870.00	7,811.00	7,811.00	121.68	135.35	-90.00	-1,439.12	2,996.76	4,271.31	4,072.21	199.10	21.454		
16,200.00	7,870.00	7,811.00	7,811.00	123.30	135.35	-90.00	-1,439.12	2,996.76	4,371.28	4,172.17	199.12	21.954		
16,300.00	7,870.00	7,811.00	7,811.00	124.91	135.35	-90.00	-1,439.12	2,996.76	4,471.26	4,272.12	199.14	22.453		
16,400.00	7,870.00	7,811.00	7,811.00	126.53	135.35	-90.00	-1,439.12	2,996.76	4,571.24	4,372.08	199.16	22.953		
16,500.00	7,870.00	7,811.00	7,811.00	128.16	135.35	-90.00	-1,439.12	2,996.76	4,671.22	4,472.04	199.18	23.453		
16,600.00	7,870.00	7,811.00	7,811.00	129.79	135.35	-90.00	-1,439.12	2,996.76	4,771.19	4,572.00	199.20	23.952		
16,700.00	7,870.00	7,811.00	7,811.00	131.42	135.35	-90.00	-1,439.12	2,996.76	4,871.17	4,671.95	199.22	24.451		
16,800.00	7,870.00	7,811.00	7,811.00	133.05	135.35	-90.00	-1,439.12	2,996.76	4,971.16	4,771.91	199.24	24.950		
16,900.00	7,870.00	7,811.00	7,811.00	134.69	135.35	-90.00	-1,439.12	2,996.76	5,071.14	4,871.87	199.27	25.449		
17,000.00	7,870.00	7,811.00	7,811.00	136.33	135.35	-90.00	-1,439.12	2,996.76	5,171.12	4,971.83	199.29	25.947		
17,100.00	7,870.00	7,811.00	7,811.00	137.97	135.35	-90.00	-1,439.12	2,996.76	5,271.10	5,071.79	199.32	26.446		
17,200.00	7,870.00	7,811.00	7,811.00	139.62	135.35	-90.00	-1,439.12	2,996.76	5,371.09	5,171.74	199.34	26.944		
17,300.00	7,870.00	7,811.00	7,811.00	141.27	135.35	-90.00	-1,439.12	2,996.76	5,471.07	5,271.70	199.37	27.442		
17,400.00	7,870.00	7,811.00	7,811.00	142.92	135.35	-90.00	-1,439.12	2,996.76	5,571.06	5,371.66	199.39	27.940		
17,500.00	7,870.00	7,811.00	7,811.00	144.58	135.35	-90.00	-1,439.12	2,996.76	5,671.04	5,471.62	199.42	28.437		
17,600.00	7,870.00	7,811.00	7,811.00	146.23	135.35	-90.00	-1,439.12	2,996.76	5,771.03	5,571.58	199.45	28.935		
17,700.00	7,870.00	7,811.00	7,811.00	147.89	135.35	-90.00	-1,439.12	2,996.76	5,871.01	5,671.54	199.48	29.432		
17,800.00	7,870.00	7,811.00	7,811.00	149.56	135.35	-90.00	-1,439.12	2,996.76	5,971.00	5,771.49	199.51	29.929		
17,900.00	7,870.00	7,811.00	7,811.00	151.22	135.35	-90.00	-1,439.12	2,996.76	6,070.99	5,871.45	199.53	30.426		
18,000.00	7,870.00	7,811.00	7,811.00	152.89	135.35	-90.00	-1,439.12	2,996.76	6,170.98	5,971.41	199.56	30.922		
18,100.00	7,870.00	7,811.00	7,811.00	154.55	135.35	-90.00	-1,439.12	2,996.76	6,270.96	6,071.37	199.59	31.419		
18,200.00	7,870.00	7,811.00	7,811.00	156.22	135.35	-90.00	-1,439.12	2,996.76	6,370.95	6,171.33	199.62	31.915		
18,300.00	7,870.00	7,811.00	7,811.00	157.90	135.35	-90.00	-1,439.12	2,996.76	6,470.94	6,271.29	199.65	32.411		
18,400.00	7,870.00	7,811.00	7,811.00	159.57	135.35	-90.00	-1,439.12	2,996.76	6,570.93	6,371.24	199.69	32.906		
18,500.00	7,870.00	7,811.00	7,811.00	161.25	135.35	-90.00	-1,439.12	2,996.76	6,670.92	6,471.20	199.72	33.402		
18,600.00	7,870.00	7,811.00	7,811.00	162.93	135.35	-90.00	-1,439.12	2,996.76	6,770.91	6,571.16	199.75	33.897		
18,700.00	7,870.00	7,811.00	7,811.00	164.60	135.35	-90.00	-1,439.12	2,996.76	6,870.90	6,671.12	199.78	34.392		
18,797.52	7,870.00	7,811.00	7,811.00	166.24	135.35	-90.00	-1,439.12	2,996.76	6,968.41	6,768.59	199.81	34.874		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	108.51	-1,435.29	4,287.65	4,521.66					
100.00	100.00	62.00	62.00	0.13	0.47	108.51	-1,435.29	4,287.65	4,521.50	4,520.90	0.61	7,471.793		
200.00	200.00	162.00	162.00	0.49	1.84	108.51	-1,435.29	4,287.65	4,521.50	4,519.17	2.33	1,937.049		
300.00	300.00	262.00	262.00	0.85	3.59	108.51	-1,435.29	4,287.65	4,521.50	4,517.06	4.44	1,018.810		
400.00	400.00	362.00	362.00	1.21	5.33	108.51	-1,435.29	4,287.65	4,521.50	4,514.96	6.54	691.169		
500.00	500.00	462.00	462.00	1.57	7.08	108.51	-1,435.29	4,287.65	4,521.50	4,512.86	8.65	522.982		
600.00	600.00	562.00	562.00	1.93	8.82	108.51	-1,435.29	4,287.65	4,521.50	4,510.75	10.75	420.627		
700.00	700.00	662.00	662.00	2.29	10.57	108.51	-1,435.29	4,287.65	4,521.50	4,508.65	12.85	351.780		
800.00	800.00	762.00	762.00	2.64	12.31	108.51	-1,435.29	4,287.65	4,521.50	4,506.55	14.96	302.300		
900.00	900.00	862.00	862.00	3.00	14.06	108.51	-1,435.29	4,287.65	4,521.50	4,504.44	17.06	265.022		
1,000.00	1,000.00	962.00	962.00	3.36	15.80	108.51	-1,435.29	4,287.65	4,521.50	4,502.34	19.16	235.930		
1,100.00	1,099.98	1,061.98	1,061.98	3.72	17.55	53.92	-1,435.29	4,287.65	4,520.47	4,499.21	21.26	212.586		
1,200.00	1,199.84	1,161.84	1,161.84	4.07	19.29	54.02	-1,435.29	4,287.65	4,517.39	4,494.03	23.36	193.386		
1,300.00	1,299.45	1,261.45	1,261.45	4.43	21.03	54.20	-1,435.29	4,287.65	4,512.27	4,486.82	25.45	177.274		
1,400.00	1,398.70	1,360.70	1,360.70	4.80	22.76	54.44	-1,435.29	4,287.65	4,505.13	4,477.58	27.55	163.543		
1,500.00	1,497.47	1,459.47	1,459.47	5.18	24.49	54.75	-1,435.29	4,287.65	4,495.99	4,466.35	29.64	151.684		
1,600.00	1,595.62	1,557.62	1,557.62	5.57	26.20	55.13	-1,435.29	4,287.65	4,484.89	4,453.15	31.74	141.319		
1,700.00	1,693.06	1,655.06	1,655.06	6.00	27.90	55.58	-1,435.29	4,287.65	4,471.88	4,438.04	33.84	132.166		
1,800.00	1,789.64	1,751.64	1,751.64	6.45	29.59	56.09	-1,435.29	4,287.65	4,457.00	4,421.06	35.94	124.009		
1,900.00	1,885.27	1,847.27	1,847.27	6.94	31.25	56.68	-1,435.29	4,287.65	4,440.31	4,402.25	38.06	116.679		
2,000.00	1,979.82	1,941.82	1,941.82	7.47	32.90	57.34	-1,435.29	4,287.65	4,421.88	4,381.70	40.18	110.045		
2,100.00	2,073.17	2,035.17	2,035.17	8.05	34.53	58.06	-1,435.29	4,287.65	4,401.78	4,359.46	42.32	104.002		
2,200.00	2,165.21	2,127.21	2,127.21	8.67	36.14	58.84	-1,435.29	4,287.65	4,380.10	4,335.62	44.48	98.466		
2,300.00	2,255.84	2,217.84	2,217.84	9.35	37.72	59.70	-1,435.29	4,287.65	4,356.92	4,310.26	46.66	93.368		
2,400.00	2,344.94	2,306.94	2,306.94	10.09	39.28	60.62	-1,435.29	4,287.65	4,332.34	4,283.47	48.87	88.655		
2,500.00	2,432.39	2,405.61	2,394.39	10.89	41.00	61.59	-1,435.29	4,287.65	4,306.47	4,255.17	51.29	83.957		
2,519.29	2,449.07	2,411.07	2,411.07	11.05	41.09	61.79	-1,435.29	4,287.65	4,301.34	4,249.80	51.53	83.470		
2,600.00	2,518.69	2,480.69	2,480.69	11.74	42.31	62.22	-1,435.29	4,287.65	4,279.92	4,226.56	53.36	80.215		
2,700.00	2,604.95	2,566.95	2,566.95	12.62	43.82	62.76	-1,435.29	4,287.65	4,253.78	4,198.13	55.64	76.448		
2,800.00	2,691.22	2,653.22	2,653.22	13.52	45.32	63.30	-1,435.29	4,287.65	4,228.08	4,170.12	57.96	72.954		
2,900.00	2,777.48	2,739.48	2,739.48	14.43	46.83	63.85	-1,435.29	4,287.65	4,202.83	4,142.54	60.29	69.709		
3,000.00	2,863.75	2,825.75	2,825.75	15.35	48.33	64.41	-1,435.29	4,287.65	4,178.04	4,115.39	62.65	66.692		
3,100.00	2,950.01	2,912.01	2,912.01	16.28	49.84	64.97	-1,435.29	4,287.65	4,153.72	4,088.70	65.02	63.882		
3,200.00	3,036.27	3,001.73	2,998.27	17.22	51.40	65.53	-1,435.29	4,287.65	4,129.88	4,062.41	67.47	61.208		
3,300.00	3,122.54	3,084.54	3,084.54	18.17	52.85	66.10	-1,435.29	4,287.65	4,106.52	4,036.70	69.82	58.816		
3,400.00	3,208.80	3,170.80	3,170.80	19.13	54.35	66.67	-1,435.29	4,287.65	4,083.65	4,011.41	72.24	56.529		
3,500.00	3,295.07	3,257.07	3,257.07	20.09	55.86	67.25	-1,435.29	4,287.65	4,061.29	3,986.62	74.67	54.387		
3,600.00	3,381.33	3,343.33	3,343.33	21.05	57.37	67.84	-1,435.29	4,287.65	4,039.43	3,962.31	77.12	52.378		
3,700.00	3,467.59	3,429.59	3,429.59	22.02	58.87	68.43	-1,435.29	4,287.65	4,018.10	3,938.52	79.58	50.492		
3,800.00	3,553.86	3,515.86	3,515.86	22.99	60.38	69.02	-1,435.29	4,287.65	3,997.29	3,915.24	82.05	48.719		
3,900.00	3,640.12	3,602.12	3,602.12	23.97	61.88	69.62	-1,435.29	4,287.65	3,977.01	3,892.48	84.53	47.051		
4,000.00	3,726.38	3,688.38	3,688.38	24.95	63.39	70.22	-1,435.29	4,287.65	3,957.28	3,870.26	87.01	45.479		
4,100.00	3,812.65	3,774.65	3,774.65	25.93	64.89	70.83	-1,435.29	4,287.65	3,938.09	3,848.58	89.51	43.996		
4,200.00	3,898.91	3,860.91	3,860.91	26.91	66.40	71.45	-1,435.29	4,287.65	3,919.47	3,827.45	92.02	42.595		
4,300.00	3,985.18	3,947.18	3,947.18	27.90	67.91	72.06	-1,435.29	4,287.65	3,901.41	3,806.88	94.53	41.272		
4,400.00	4,071.44	4,033.44	4,033.44	28.88	69.41	72.68	-1,435.29	4,287.65	3,883.93	3,786.88	97.05	40.020		
4,500.00	4,157.70	4,119.70	4,119.70	29.87	70.92	73.31	-1,435.29	4,287.65	3,867.03	3,767.45	99.58	38.834		
4,600.00	4,243.97	4,205.97	4,205.97	30.86	72.42	73.94	-1,435.29	4,287.65	3,850.72	3,748.61	102.11	37.711		
4,700.00	4,330.23	4,307.77	4,292.23	31.85	74.20	74.57	-1,435.29	4,287.65	3,835.01	3,730.09	104.92	36.551		
4,800.00	4,416.49	4,378.49	4,378.49	32.84	75.43	75.21	-1,435.29	4,287.65	3,819.91	3,712.71	107.19	35.635		
4,900.00	4,502.76	4,464.76	4,464.76	33.84	76.94	75.85	-1,435.29	4,287.65	3,805.41	3,695.67	109.74	34.675		
5,000.00	4,589.02	4,551.02	4,551.02	34.83	78.44	76.50	-1,435.29	4,287.65	3,791.54	3,679.24	112.30	33.763		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,675.29	4,637.29	4,637.29	35.82	79.95	77.15	-1,435.29	4,287.65	3,778.29	3,663.44	114.85	32.896		
5,200.00	4,761.55	4,723.55	4,723.55	36.82	81.46	77.80	-1,435.29	4,287.65	3,765.67	3,648.26	117.41	32.072		
5,300.00	4,847.81	4,809.81	4,809.81	37.82	82.96	78.46	-1,435.29	4,287.65	3,753.70	3,633.72	119.98	31.287		
5,400.00	4,934.08	4,903.92	4,896.08	38.81	84.60	79.11	-1,435.29	4,287.65	3,742.37	3,619.69	122.68	30.506		
5,500.00	5,020.34	4,982.34	4,982.34	39.81	85.97	79.78	-1,435.29	4,287.65	3,731.69	3,606.58	125.11	29.828		
5,600.00	5,106.60	5,068.60	5,068.60	40.81	87.48	80.44	-1,435.29	4,287.65	3,721.67	3,593.99	127.67	29.150		
5,700.00	5,192.87	5,154.87	5,154.87	41.81	88.98	81.11	-1,435.29	4,287.65	3,712.31	3,582.07	130.24	28.504		
5,800.00	5,279.13	5,241.13	5,241.13	42.81	90.49	81.78	-1,435.29	4,287.65	3,703.61	3,570.81	132.81	27.887		
5,900.00	5,365.40	5,327.40	5,327.40	43.81	91.99	82.45	-1,435.29	4,287.65	3,695.59	3,560.22	135.37	27.299		
6,000.00	5,451.66	5,413.66	5,413.66	44.81	93.50	83.12	-1,435.29	4,287.65	3,688.25	3,550.31	137.94	26.739		
6,100.00	5,537.92	5,500.08	5,499.92	45.81	95.01	83.80	-1,435.29	4,287.65	3,681.59	3,541.08	140.50	26.203		
6,200.00	5,624.19	5,586.19	5,586.19	46.81	96.51	84.47	-1,435.29	4,287.65	3,675.61	3,532.55	143.06	25.693		
6,300.00	5,710.45	5,672.45	5,672.45	47.81	98.02	85.15	-1,435.29	4,287.65	3,670.31	3,524.70	145.62	25.205		
6,400.00	5,796.72	5,758.72	5,758.72	48.81	99.52	85.83	-1,435.29	4,287.65	3,665.71	3,517.54	148.17	24.740		
6,500.00	5,882.98	5,844.98	5,844.98	49.81	101.03	86.52	-1,435.29	4,287.65	3,661.80	3,511.08	150.72	24.296		
6,600.00	5,969.24	5,931.24	5,931.24	50.82	102.53	87.20	-1,435.29	4,287.65	3,658.59	3,505.33	153.26	23.871		
6,700.00	6,055.51	6,017.51	6,017.51	51.82	104.04	87.88	-1,435.29	4,287.65	3,656.07	3,500.27	155.80	23.466		
6,800.00	6,141.77	6,103.77	6,103.77	52.82	105.54	88.56	-1,435.29	4,287.65	3,654.25	3,495.92	158.33	23.079		
6,900.00	6,228.03	6,209.97	6,190.03	53.83	107.40	89.25	-1,435.29	4,287.65	3,653.13	3,491.92	161.21	22.661		
7,000.00	6,314.30	6,276.30	6,276.30	54.83	108.56	89.93	-1,435.29	4,287.65	3,652.71	3,489.33	163.38	22.357		
7,009.78	6,322.73	6,284.73	6,284.73	54.93	108.70	90.00	-1,435.29	4,287.65	3,652.71	3,489.08	163.63	22.323		
7,100.00	6,400.56	6,362.56	6,362.56	55.83	110.06	90.62	-1,435.29	4,287.65	3,653.00	3,487.10	165.89	22.020		
7,200.00	6,486.83	6,448.83	6,448.83	56.84	111.57	91.30	-1,435.29	4,287.65	3,653.98	3,485.58	168.40	21.698		
7,300.00	6,573.09	6,535.09	6,535.09	57.84	113.07	91.99	-1,435.29	4,287.65	3,655.66	3,484.77	170.89	21.391		
7,400.00	6,659.35	6,621.35	6,621.35	58.84	114.58	92.67	-1,435.29	4,287.65	3,658.04	3,484.66	173.38	21.098		
7,500.00	6,745.62	6,707.62	6,707.62	59.85	116.08	93.35	-1,435.29	4,287.65	3,661.12	3,485.26	175.86	20.818		
7,600.00	6,831.88	6,806.12	6,793.88	60.85	117.80	94.03	-1,435.29	4,287.65	3,664.89	3,486.35	178.54	20.527		
7,700.00	6,918.14	6,880.14	6,880.14	61.86	119.10	94.71	-1,435.29	4,287.65	3,669.36	3,488.57	180.79	20.296		
7,800.00	7,004.41	6,966.41	6,966.41	62.86	120.60	95.39	-1,435.29	4,287.65	3,674.52	3,491.28	183.24	20.053		
7,900.00	7,090.67	7,052.67	7,052.67	63.87	122.11	96.07	-1,435.29	4,287.65	3,680.36	3,494.69	185.67	19.822		
8,000.00	7,176.94	7,138.94	7,138.94	64.87	123.61	96.75	-1,435.29	4,287.65	3,686.89	3,498.79	188.10	19.601		
8,027.52	7,200.68	7,162.68	7,162.68	65.15	124.03	96.93	-1,435.29	4,287.65	3,688.81	3,500.04	188.77	19.542		
8,050.00	7,220.18	7,182.18	7,182.18	65.37	124.37	93.73	-1,435.29	4,287.65	3,690.01	3,500.70	189.31	19.492		
8,100.00	7,264.25	7,226.25	7,226.25	65.85	125.14	85.54	-1,435.29	4,287.65	3,689.93	3,499.41	190.51	19.368		
8,150.00	7,308.99	7,270.99	7,270.99	66.28	125.92	76.01	-1,435.29	4,287.65	3,686.01	3,494.31	191.70	19.228		
8,200.00	7,354.07	7,316.07	7,316.07	66.67	126.70	65.61	-1,435.29	4,287.65	3,678.26	3,485.40	192.86	19.072		
8,250.00	7,399.14	7,361.14	7,361.14	67.02	127.49	55.05	-1,435.29	4,287.65	3,666.70	3,472.71	193.99	18.902		
8,300.00	7,443.85	7,405.85	7,405.85	67.32	128.27	45.01	-1,435.29	4,287.65	3,651.40	3,456.33	195.07	18.719		
8,350.00	7,487.88	7,449.88	7,449.88	67.56	129.04	35.93	-1,435.29	4,287.65	3,632.44	3,436.35	196.09	18.524		
8,400.00	7,530.87	7,507.13	7,492.87	67.75	130.04	27.91	-1,435.29	4,287.65	3,609.94	3,412.63	197.31	18.296		
8,450.00	7,572.51	7,534.51	7,534.51	67.90	130.52	20.85	-1,435.29	4,287.65	3,584.06	3,386.10	197.96	18.105		
8,500.00	7,612.48	7,574.48	7,574.48	68.00	131.21	14.52	-1,435.29	4,287.65	3,554.97	3,356.17	198.80	17.882		
8,550.00	7,650.47	7,612.47	7,612.47	68.05	131.88	8.65	-1,435.29	4,287.65	3,522.87	3,323.31	199.56	17.653		
8,600.00	7,686.20	7,648.20	7,648.20	68.06	132.50	2.95	-1,435.29	4,287.65	3,488.01	3,287.76	200.24	17.419		
8,650.00	7,719.39	7,681.39	7,681.39	68.03	133.08	-2.85	-1,435.29	4,287.65	3,450.63	3,249.79	200.84	17.181		
8,700.00	7,749.79	7,711.79	7,711.79	67.97	133.61	-9.07	-1,435.29	4,287.65	3,411.04	3,209.67	201.36	16.940		
8,750.00	7,777.17	7,739.17	7,739.17	67.87	134.09	-16.04	-1,435.29	4,287.65	3,369.52	3,167.73	201.79	16.698		
8,800.00	7,801.32	7,763.32	7,763.32	67.74	134.51	-24.12	-1,435.29	4,287.65	3,326.41	3,124.28	202.13	16.457		
8,850.00	7,822.06	7,784.06	7,784.06	67.59	134.87	-33.61	-1,435.29	4,287.65	3,282.06	3,079.68	202.38	16.217		
8,900.00	7,839.23	7,801.23	7,801.23	67.41	135.17	-44.58	-1,435.29	4,287.65	3,236.83	3,034.29	202.54	15.981		
8,950.00	7,852.69	7,814.69	7,814.69	67.22	135.41	-56.69	-1,435.29	4,287.65	3,191.08	2,988.48	202.60	15.750		
9,000.00	7,862.35	7,824.35	7,824.35	67.00	135.57	-69.02	-1,435.29	4,287.65	3,145.20	2,942.63	202.58	15.526		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,830.14	7,830.14	66.78	135.68	-80.47	-1,435.29	4,287.65	3,099.58	2,897.12	202.46	15.310		
9,098.65	7,870.00	7,832.00	7,832.00	66.55	135.71	-90.00	-1,435.29	4,287.65	3,055.81	2,853.55	202.25	15.109		
9,100.00	7,870.00	7,832.00	7,832.00	66.55	135.71	-90.00	-1,435.29	4,287.65	3,054.60	2,852.36	202.25	15.103		
9,200.00	7,870.00	7,832.00	7,832.00	66.09	135.71	-90.00	-1,435.29	4,287.65	2,965.85	2,764.13	201.73	14.702		
9,300.00	7,870.00	7,832.00	7,832.00	65.65	135.71	-90.00	-1,435.29	4,287.65	2,877.84	2,676.67	201.17	14.305		
9,400.00	7,870.00	7,832.00	7,832.00	65.24	135.71	-90.00	-1,435.29	4,287.65	2,790.64	2,590.05	200.58	13.913		
9,500.00	7,870.00	7,832.00	7,832.00	64.85	135.71	-90.00	-1,435.29	4,287.65	2,704.32	2,504.37	199.95	13.525		
9,600.00	7,870.00	7,832.00	7,832.00	64.48	135.71	-90.00	-1,435.29	4,287.65	2,618.97	2,419.69	199.28	13.142		
9,700.00	7,870.00	7,832.00	7,832.00	64.13	135.71	-90.00	-1,435.29	4,287.65	2,534.70	2,336.14	198.56	12.765		
9,800.00	7,870.00	7,832.00	7,832.00	63.80	135.71	-90.00	-1,435.29	4,287.65	2,451.61	2,253.82	197.79	12.395		
9,900.00	7,870.00	7,832.00	7,832.00	63.50	135.71	-90.00	-1,435.29	4,287.65	2,369.82	2,172.85	196.97	12.031		
10,000.00	7,870.00	7,832.00	7,832.00	63.22	135.71	-90.00	-1,435.29	4,287.65	2,289.49	2,093.38	196.10	11.675		
10,100.00	7,870.00	7,832.00	7,832.00	62.96	135.71	-90.00	-1,435.29	4,287.65	2,210.75	2,015.58	195.18	11.327		
10,200.00	7,870.00	7,832.00	7,832.00	62.72	135.71	-90.00	-1,435.29	4,287.65	2,133.80	1,939.61	194.20	10.988		
10,300.00	7,870.00	7,832.00	7,832.00	62.50	135.71	-90.00	-1,435.29	4,287.65	2,058.83	1,865.67	193.16	10.658		
10,400.00	7,870.00	7,832.00	7,832.00	62.31	135.71	-90.00	-1,435.29	4,287.65	1,986.07	1,793.99	192.08	10.340		
10,500.00	7,870.00	7,832.00	7,832.00	62.15	135.71	-90.00	-1,435.29	4,287.65	1,915.77	1,724.81	190.96	10.032		
10,600.00	7,870.00	7,832.00	7,832.00	62.01	135.71	-90.00	-1,435.29	4,287.65	1,848.20	1,658.39	189.81	9.737		
10,700.00	7,870.00	7,832.00	7,832.00	61.90	135.71	-90.00	-1,435.29	4,287.65	1,783.69	1,595.03	188.66	9.455		
10,800.00	7,870.00	7,832.00	7,832.00	61.82	135.71	-90.00	-1,435.29	4,287.65	1,722.56	1,535.04	187.52	9.186		
10,900.00	7,870.00	7,832.00	7,832.00	61.78	135.71	-90.00	-1,435.29	4,287.65	1,665.20	1,478.76	186.44	8.932		
11,000.00	7,870.00	7,832.00	7,832.00	61.77	135.71	-90.00	-1,435.29	4,287.65	1,612.01	1,426.55	185.47	8.692		
11,100.00	7,870.00	7,832.00	7,832.00	61.81	135.71	-90.00	-1,435.29	4,287.65	1,563.42	1,378.76	184.66	8.467		
11,200.00	7,870.00	7,832.00	7,832.00	61.90	135.71	-90.00	-1,435.29	4,287.65	1,519.85	1,335.78	184.08	8.257		
11,300.00	7,870.00	7,832.00	7,832.00	62.03	135.71	-90.00	-1,435.29	4,287.65	1,481.77	1,297.97	183.80	8.062		
11,400.00	7,870.00	7,832.00	7,832.00	62.23	135.71	-90.00	-1,435.29	4,287.65	1,449.59	1,265.71	183.89	7.883		
11,500.00	7,870.00	7,832.00	7,832.00	62.50	135.71	-90.00	-1,435.29	4,287.65	1,423.73	1,239.35	184.38	7.722		
11,600.00	7,870.00	7,832.00	7,832.00	62.84	135.71	-90.00	-1,435.29	4,287.65	1,404.52	1,219.22	185.31	7.579		
11,700.00	7,870.00	7,832.00	7,832.00	63.25	135.71	-90.00	-1,435.29	4,287.65	1,392.25	1,205.61	186.65	7.459		
11,800.00	7,870.00	7,832.00	7,832.00	63.76	135.71	-90.00	-1,435.29	4,287.65	1,387.10	1,198.76	188.35	7.365		
11,821.58	7,870.00	7,832.00	7,832.00	63.87	135.71	-90.00	-1,435.29	4,287.65	1,386.94	1,198.18	188.76	7.348 CC, ES		
11,900.00	7,870.00	7,832.00	7,832.00	64.34	135.71	-90.00	-1,435.29	4,287.65	1,389.15	1,198.81	190.34	7.298		
12,000.00	7,870.00	7,832.00	7,832.00	65.01	135.71	-90.00	-1,435.29	4,287.65	1,398.37	1,205.84	192.53	7.263		
12,100.00	7,870.00	7,832.00	7,832.00	65.77	135.71	-90.00	-1,435.29	4,287.65	1,414.61	1,219.79	194.82	7.261 SF		
12,200.00	7,870.00	7,832.00	7,832.00	66.61	135.71	-90.00	-1,435.29	4,287.65	1,437.63	1,240.50	197.13	7.293		
12,300.00	7,870.00	7,832.00	7,832.00	67.51	135.71	-90.00	-1,435.29	4,287.65	1,467.13	1,267.74	199.39	7.358		
12,400.00	7,870.00	7,832.00	7,832.00	68.49	135.71	-90.00	-1,435.29	4,287.65	1,502.72	1,301.18	201.54	7.456		
12,500.00	7,870.00	7,832.00	7,832.00	69.52	135.71	-90.00	-1,435.29	4,287.65	1,543.97	1,340.43	203.54	7.585		
12,600.00	7,870.00	7,832.00	7,832.00	70.61	135.71	-90.00	-1,435.29	4,287.65	1,590.45	1,385.07	205.38	7.744		
12,700.00	7,870.00	7,832.00	7,832.00	71.75	135.71	-90.00	-1,435.29	4,287.65	1,641.71	1,434.67	207.04	7.929		
12,800.00	7,870.00	7,832.00	7,832.00	72.93	135.71	-90.00	-1,435.29	4,287.65	1,697.32	1,488.79	208.53	8.139		
12,900.00	7,870.00	7,832.00	7,832.00	74.14	135.71	-90.00	-1,435.29	4,287.65	1,756.87	1,547.02	209.85	8.372		
13,000.00	7,870.00	7,832.00	7,832.00	75.39	135.71	-90.00	-1,435.29	4,287.65	1,819.96	1,608.95	211.01	8.625		
13,100.00	7,870.00	7,832.00	7,832.00	76.67	135.71	-90.00	-1,435.29	4,287.65	1,886.25	1,674.22	212.03	8.896		
13,200.00	7,870.00	7,832.00	7,832.00	77.98	135.71	-90.00	-1,435.29	4,287.65	1,955.41	1,742.49	212.92	9.184		
13,300.00	7,870.00	7,832.00	7,832.00	79.31	135.71	-90.00	-1,435.29	4,287.65	2,027.14	1,813.45	213.69	9.486		
13,400.00	7,870.00	7,832.00	7,832.00	80.67	135.71	-90.00	-1,435.29	4,287.65	2,101.19	1,886.83	214.36	9.802		
13,500.00	7,870.00	7,832.00	7,832.00	82.04	135.71	-90.00	-1,435.29	4,287.65	2,177.31	1,962.36	214.95	10.130		
13,600.00	7,870.00	7,832.00	7,832.00	83.43	135.71	-90.00	-1,435.29	4,287.65	2,255.30	2,039.85	215.45	10.468		
13,700.00	7,870.00	7,832.00	7,832.00	84.84	135.71	-90.00	-1,435.29	4,287.65	2,334.96	2,119.08	215.89	10.816		
13,800.00	7,870.00	7,832.00	7,832.00	86.27	135.71	-90.00	-1,435.29	4,287.65	2,416.14	2,199.88	216.26	11.172		
13,900.00	7,870.00	7,832.00	7,832.00	87.71	135.71	-90.00	-1,435.29	4,287.65	2,498.68	2,282.09	216.59	11.536		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,832.00	7,832.00	89.16	135.71	-90.00	-1,435.29	4,287.65	2,582.46	2,365.59	216.87	11.908		
14,100.00	7,870.00	7,832.00	7,832.00	90.63	135.71	-90.00	-1,435.29	4,287.65	2,667.36	2,450.24	217.12	12.285		
14,200.00	7,870.00	7,832.00	7,832.00	92.10	135.71	-90.00	-1,435.29	4,287.65	2,753.26	2,535.94	217.33	12.669		
14,300.00	7,870.00	7,832.00	7,832.00	93.59	135.71	-90.00	-1,435.29	4,287.65	2,840.10	2,622.59	217.51	13.057		
14,400.00	7,870.00	7,832.00	7,832.00	95.09	135.71	-90.00	-1,435.29	4,287.65	2,927.77	2,710.10	217.67	13.451		
14,500.00	7,870.00	7,832.00	7,832.00	96.60	135.71	-90.00	-1,435.29	4,287.65	3,016.21	2,798.41	217.80	13.848		
14,600.00	7,870.00	7,832.00	7,832.00	98.11	135.71	-90.00	-1,435.29	4,287.65	3,105.35	2,887.43	217.92	14.250		
14,700.00	7,870.00	7,832.00	7,832.00	99.64	135.71	-90.00	-1,435.29	4,287.65	3,195.13	2,977.12	218.02	14.655		
14,800.00	7,870.00	7,832.00	7,832.00	101.17	135.71	-90.00	-1,435.29	4,287.65	3,285.51	3,067.40	218.11	15.064		
14,900.00	7,870.00	7,832.00	7,832.00	102.71	135.71	-90.00	-1,435.29	4,287.65	3,376.43	3,158.25	218.18	15.475		
15,000.00	7,870.00	7,832.00	7,832.00	104.26	135.71	-90.00	-1,435.29	4,287.65	3,467.84	3,249.60	218.24	15.890		
15,100.00	7,870.00	7,832.00	7,832.00	105.82	135.71	-90.00	-1,435.29	4,287.65	3,559.72	3,341.42	218.30	16.307		
15,200.00	7,870.00	7,832.00	7,832.00	107.38	135.71	-90.00	-1,435.29	4,287.65	3,652.03	3,433.68	218.35	16.726		
15,300.00	7,870.00	7,832.00	7,832.00	108.95	135.71	-90.00	-1,435.29	4,287.65	3,744.73	3,526.34	218.38	17.147		
15,400.00	7,870.00	7,832.00	7,832.00	110.52	135.71	-90.00	-1,435.29	4,287.65	3,837.80	3,619.38	218.42	17.571		
15,500.00	7,870.00	7,832.00	7,832.00	112.10	135.71	-90.00	-1,435.29	4,287.65	3,931.20	3,712.76	218.45	17.996		
15,600.00	7,870.00	7,832.00	7,832.00	113.69	135.71	-90.00	-1,435.29	4,287.65	4,024.93	3,806.46	218.47	18.423		
15,700.00	7,870.00	7,832.00	7,832.00	115.28	135.71	-90.00	-1,435.29	4,287.65	4,118.95	3,900.46	218.49	18.852		
15,800.00	7,870.00	7,832.00	7,832.00	116.87	135.71	-90.00	-1,435.29	4,287.65	4,213.24	3,994.73	218.51	19.282		
15,900.00	7,870.00	7,832.00	7,832.00	118.47	135.71	-90.00	-1,435.29	4,287.65	4,307.79	4,089.27	218.52	19.713		
16,000.00	7,870.00	7,832.00	7,832.00	120.07	135.71	-90.00	-1,435.29	4,287.65	4,402.59	4,184.05	218.53	20.146		
16,100.00	7,870.00	7,832.00	7,832.00	121.68	135.71	-90.00	-1,435.29	4,287.65	4,497.61	4,279.06	218.54	20.580		
16,200.00	7,870.00	7,832.00	7,832.00	123.30	135.71	-90.00	-1,435.29	4,287.65	4,592.84	4,374.29	218.55	21.015		
16,300.00	7,870.00	7,832.00	7,832.00	124.91	135.71	-90.00	-1,435.29	4,287.65	4,688.26	4,469.71	218.56	21.451		
16,400.00	7,870.00	7,832.00	7,832.00	126.53	135.71	-90.00	-1,435.29	4,287.65	4,783.88	4,565.32	218.56	21.888		
16,500.00	7,870.00	7,832.00	7,832.00	128.16	135.71	-90.00	-1,435.29	4,287.65	4,879.67	4,661.11	218.57	22.326		
16,600.00	7,870.00	7,832.00	7,832.00	129.79	135.71	-90.00	-1,435.29	4,287.65	4,975.63	4,757.06	218.57	22.765		
16,700.00	7,870.00	7,832.00	7,832.00	131.42	135.71	-90.00	-1,435.29	4,287.65	5,071.74	4,853.17	218.57	23.204		
16,800.00	7,870.00	7,832.00	7,832.00	133.05	135.71	-90.00	-1,435.29	4,287.65	5,168.00	4,949.43	218.57	23.644		
16,900.00	7,870.00	7,832.00	7,832.00	134.69	135.71	-90.00	-1,435.29	4,287.65	5,264.40	5,045.83	218.57	24.085		
17,000.00	7,870.00	7,832.00	7,832.00	136.33	135.71	-90.00	-1,435.29	4,287.65	5,360.93	5,142.36	218.58	24.527		
17,100.00	7,870.00	7,832.00	7,832.00	137.97	135.71	-90.00	-1,435.29	4,287.65	5,457.59	5,239.01	218.58	24.969		
17,200.00	7,870.00	7,832.00	7,832.00	139.62	135.71	-90.00	-1,435.29	4,287.65	5,554.37	5,335.79	218.58	25.411		
17,300.00	7,870.00	7,832.00	7,832.00	141.27	135.71	-90.00	-1,435.29	4,287.65	5,651.25	5,432.68	218.58	25.855		
17,400.00	7,870.00	7,832.00	7,832.00	142.92	135.71	-90.00	-1,435.29	4,287.65	5,748.25	5,529.67	218.58	26.298		
17,500.00	7,870.00	7,832.00	7,832.00	144.58	135.71	-90.00	-1,435.29	4,287.65	5,845.34	5,626.76	218.58	26.742		
17,600.00	7,870.00	7,832.00	7,832.00	146.23	135.71	-90.00	-1,435.29	4,287.65	5,942.53	5,723.95	218.58	27.187		
17,700.00	7,870.00	7,832.00	7,832.00	147.89	135.71	-90.00	-1,435.29	4,287.65	6,039.82	5,821.24	218.58	27.632		
17,800.00	7,870.00	7,832.00	7,832.00	149.56	135.71	-90.00	-1,435.29	4,287.65	6,137.19	5,918.60	218.58	28.077		
17,900.00	7,870.00	7,832.00	7,832.00	151.22	135.71	-90.00	-1,435.29	4,287.65	6,234.64	6,016.06	218.59	28.522		
18,000.00	7,870.00	7,832.00	7,832.00	152.89	135.71	-90.00	-1,435.29	4,287.65	6,332.18	6,113.59	218.59	28.968		
18,100.00	7,870.00	7,832.00	7,832.00	154.55	135.71	-90.00	-1,435.29	4,287.65	6,429.79	6,211.19	218.59	29.415		
18,200.00	7,870.00	7,832.00	7,832.00	156.22	135.71	-90.00	-1,435.29	4,287.65	6,527.47	6,308.87	218.60	29.861		
18,300.00	7,870.00	7,832.00	7,832.00	157.90	135.71	-90.00	-1,435.29	4,287.65	6,625.22	6,406.62	218.60	30.308		
18,400.00	7,870.00	7,832.00	7,832.00	159.57	135.71	-90.00	-1,435.29	4,287.65	6,723.03	6,504.43	218.60	30.755		
18,500.00	7,870.00	7,832.00	7,832.00	161.25	135.71	-90.00	-1,435.29	4,287.65	6,820.91	6,602.31	218.61	31.202		
18,600.00	7,870.00	7,832.00	7,832.00	162.93	135.71	-90.00	-1,435.29	4,287.65	6,918.86	6,700.24	218.61	31.649		
18,700.00	7,870.00	7,832.00	7,832.00	164.60	135.71	-90.00	-1,435.29	4,287.65	7,016.85	6,798.24	218.62	32.096		
18,797.52	7,870.00	7,832.00	7,832.00	166.24	135.71	-90.00	-1,435.29	4,287.65	7,112.47	6,893.85	218.62	32.533		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	123.79	-3,056.32	4,567.97	5,496.33					
100.00	100.00	53.00	53.00	0.13	0.41	123.79	-3,056.32	4,567.97	5,496.13	5,495.59	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	123.79	-3,056.32	4,567.97	5,496.13	5,493.94	2.19	2,514.390		
300.00	300.00	253.00	253.00	0.85	3.44	123.79	-3,056.32	4,567.97	5,496.13	5,491.84	4.29	1,281.247		
400.00	400.00	353.00	353.00	1.21	5.18	123.79	-3,056.32	4,567.97	5,496.13	5,489.73	6.39	859.647		
500.00	500.00	453.00	453.00	1.57	6.93	123.79	-3,056.32	4,567.97	5,496.13	5,487.63	8.50	646.811		
600.00	600.00	553.00	553.00	1.93	8.67	123.79	-3,056.32	4,567.97	5,496.13	5,485.53	10.60	518.450		
700.00	700.00	653.00	653.00	2.29	10.42	123.79	-3,056.32	4,567.97	5,496.13	5,483.42	12.70	432.600		
800.00	800.00	753.00	753.00	2.64	12.16	123.79	-3,056.32	4,567.97	5,496.13	5,481.32	14.81	371.142		
900.00	900.00	853.00	853.00	3.00	13.91	123.79	-3,056.32	4,567.97	5,496.13	5,479.22	16.91	324.975		
1,000.00	1,000.00	953.00	953.00	3.36	15.66	123.79	-3,056.32	4,567.97	5,496.13	5,477.11	19.02	289.022		
1,100.00	1,099.98	1,052.98	1,052.98	3.72	17.40	69.19	-3,056.32	4,567.97	5,495.51	5,474.39	21.12	260.254		
1,200.00	1,199.84	1,152.84	1,152.84	4.07	19.14	69.28	-3,056.32	4,567.97	5,493.65	5,470.44	23.21	236.678		
1,300.00	1,299.45	1,252.45	1,252.45	4.43	20.88	69.42	-3,056.32	4,567.97	5,490.57	5,465.26	25.31	216.960		
1,400.00	1,398.70	1,351.70	1,351.70	4.80	22.61	69.62	-3,056.32	4,567.97	5,486.27	5,458.87	27.40	200.206		
1,500.00	1,497.47	1,450.47	1,450.47	5.18	24.34	69.87	-3,056.32	4,567.97	5,480.80	5,451.30	29.50	185.774		
1,600.00	1,595.62	1,548.62	1,548.62	5.57	26.05	70.18	-3,056.32	4,567.97	5,474.17	5,442.57	31.61	173.191		
1,700.00	1,693.06	1,646.06	1,646.06	6.00	27.75	70.55	-3,056.32	4,567.97	5,466.44	5,432.72	33.72	162.104		
1,800.00	1,789.64	1,742.64	1,742.64	6.45	29.44	70.96	-3,056.32	4,567.97	5,457.64	5,421.79	35.85	152.243		
1,900.00	1,885.27	1,838.27	1,838.27	6.94	31.11	71.43	-3,056.32	4,567.97	5,447.83	5,409.84	37.99	143.400		
2,000.00	1,979.82	1,932.82	1,932.82	7.47	32.76	71.94	-3,056.32	4,567.97	5,437.07	5,396.92	40.15	135.413		
2,100.00	2,073.17	2,026.17	2,026.17	8.05	34.39	72.50	-3,056.32	4,567.97	5,425.43	5,383.10	42.34	128.153		
2,200.00	2,165.21	2,118.21	2,118.21	8.67	35.99	73.11	-3,056.32	4,567.97	5,412.98	5,368.44	44.55	121.517		
2,300.00	2,255.84	2,208.84	2,208.84	9.35	37.57	73.76	-3,056.32	4,567.97	5,399.80	5,353.02	46.78	115.423		
2,400.00	2,344.94	2,302.06	2,297.94	10.09	39.20	74.44	-3,056.32	4,567.97	5,385.98	5,336.86	49.12	109.642		
2,500.00	2,432.39	2,385.39	2,385.39	10.89	40.66	75.16	-3,056.32	4,567.97	5,371.60	5,320.25	51.35	104.602		
2,519.29	2,449.07	2,402.07	2,402.07	11.05	40.95	75.31	-3,056.32	4,567.97	5,368.77	5,316.97	51.80	103.644		
2,600.00	2,518.69	2,471.69	2,471.69	11.74	42.16	75.68	-3,056.32	4,567.97	5,357.04	5,303.36	53.69	99.786		
2,700.00	2,604.95	2,557.95	2,557.95	12.62	43.67	76.13	-3,056.32	4,567.97	5,342.90	5,286.86	56.05	95.332		
2,800.00	2,691.22	2,644.22	2,644.22	13.52	45.17	76.59	-3,056.32	4,567.97	5,329.21	5,270.78	58.43	91.211		
2,900.00	2,777.48	2,730.48	2,730.48	14.43	46.68	77.05	-3,056.32	4,567.97	5,315.96	5,255.13	60.83	87.392		
3,000.00	2,863.75	2,816.75	2,816.75	15.35	48.18	77.52	-3,056.32	4,567.97	5,303.16	5,239.92	63.25	83.850		
3,100.00	2,950.01	2,903.01	2,903.01	16.28	49.69	77.98	-3,056.32	4,567.97	5,290.81	5,225.14	65.68	80.558		
3,200.00	3,036.27	2,989.27	2,989.27	17.22	51.20	78.45	-3,056.32	4,567.97	5,278.92	5,210.80	68.12	77.494		
3,300.00	3,122.54	3,075.54	3,075.54	18.17	52.70	78.92	-3,056.32	4,567.97	5,267.49	5,196.92	70.57	74.638		
3,400.00	3,208.80	3,161.80	3,161.80	19.13	54.21	79.39	-3,056.32	4,567.97	5,256.52	5,183.49	73.04	71.972		
3,500.00	3,295.07	3,248.07	3,248.07	20.09	55.71	79.86	-3,056.32	4,567.97	5,246.02	5,170.51	75.51	69.478		
3,600.00	3,381.33	3,334.33	3,334.33	21.05	57.22	80.33	-3,056.32	4,567.97	5,235.98	5,157.99	77.98	67.142		
3,700.00	3,467.59	3,420.59	3,420.59	22.02	58.72	80.80	-3,056.32	4,567.97	5,226.41	5,145.94	80.47	64.950		
3,800.00	3,553.86	3,506.86	3,506.86	22.99	60.23	81.28	-3,056.32	4,567.97	5,217.32	5,134.36	82.96	62.892		
3,900.00	3,640.12	3,606.88	3,593.12	23.97	61.97	81.75	-3,056.32	4,567.97	5,208.70	5,123.01	85.69	60.784		
4,000.00	3,726.38	3,679.38	3,679.38	24.95	63.24	82.23	-3,056.32	4,567.97	5,200.56	5,112.61	87.95	59.131		
4,100.00	3,812.65	3,765.65	3,765.65	25.93	64.75	82.71	-3,056.32	4,567.97	5,192.89	5,102.44	90.45	57.411		
4,200.00	3,898.91	3,851.91	3,851.91	26.91	66.25	83.19	-3,056.32	4,567.97	5,185.72	5,092.76	92.96	55.786		
4,300.00	3,985.18	3,938.18	3,938.18	27.90	67.76	83.67	-3,056.32	4,567.97	5,179.02	5,083.56	95.46	54.251		
4,400.00	4,071.44	4,024.44	4,024.44	28.88	69.26	84.15	-3,056.32	4,567.97	5,172.81	5,074.84	97.97	52.797		
4,500.00	4,157.70	4,110.70	4,110.70	29.87	70.77	84.63	-3,056.32	4,567.97	5,167.09	5,066.60	100.49	51.421		
4,600.00	4,243.97	4,203.03	4,196.97	30.86	72.38	85.11	-3,056.32	4,567.97	5,161.86	5,058.75	103.11	50.064		
4,700.00	4,330.23	4,283.23	4,283.23	31.85	73.78	85.60	-3,056.32	4,567.97	5,157.12	5,051.60	105.51	48.876		
4,800.00	4,416.49	4,369.49	4,369.49	32.84	75.28	86.08	-3,056.32	4,567.97	5,152.87	5,044.84	108.03	47.699		
4,900.00	4,502.76	4,455.76	4,455.76	33.84	76.79	86.57	-3,056.32	4,567.97	5,149.11	5,038.56	110.55	46.579		
5,000.00	4,589.02	4,542.02	4,542.02	34.83	78.30	87.05	-3,056.32	4,567.97	5,145.85	5,032.79	113.06	45.514		

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

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,628.29	4,628.29	35.82	79.80	87.54	-3,056.32	4,567.97	5,143.08	5,027.51	115.58	44.500		
5,200.00	4,761.55	4,714.55	4,714.55	36.82	81.31	88.02	-3,056.32	4,567.97	5,140.81	5,022.72	118.09	43.533		
5,300.00	4,847.81	4,800.81	4,800.81	37.82	82.81	88.51	-3,056.32	4,567.97	5,139.04	5,018.44	120.60	42.611		
5,400.00	4,934.08	4,887.08	4,887.08	38.81	84.32	89.00	-3,056.32	4,567.97	5,137.76	5,014.65	123.12	41.731		
5,500.00	5,020.34	4,973.34	4,973.34	39.81	85.82	89.48	-3,056.32	4,567.97	5,136.99	5,011.36	125.63	40.891		
5,600.00	5,106.60	5,059.60	5,059.60	40.81	87.33	89.97	-3,056.32	4,567.97	5,136.71	5,008.57	128.14	40.088		
5,606.14	5,111.90	5,064.90	5,064.90	40.87	87.42	90.00	-3,056.32	4,567.97	5,136.71	5,008.42	128.29	40.040		
5,700.00	5,192.87	5,145.87	5,145.87	41.81	88.83	90.46	-3,056.32	4,567.97	5,136.93	5,006.28	130.64	39.321		
5,800.00	5,279.13	5,232.13	5,232.13	42.81	90.34	90.94	-3,056.32	4,567.97	5,137.64	5,004.50	133.15	38.586		
5,900.00	5,365.40	5,318.40	5,318.40	43.81	91.85	91.43	-3,056.32	4,567.97	5,138.86	5,003.21	135.65	37.884		
6,000.00	5,451.66	5,404.66	5,404.66	44.81	93.35	91.92	-3,056.32	4,567.97	5,140.57	5,002.42	138.15	37.211		
6,100.00	5,537.92	5,509.08	5,490.92	45.81	95.17	92.40	-3,056.32	4,567.97	5,142.78	5,001.82	140.96	36.484		
6,200.00	5,624.19	5,577.19	5,577.19	46.81	96.36	92.89	-3,056.32	4,567.97	5,145.48	5,002.35	143.13	35.949		
6,300.00	5,710.45	5,663.45	5,663.45	47.81	97.87	93.37	-3,056.32	4,567.97	5,148.68	5,003.06	145.62	35.356		
6,400.00	5,796.72	5,749.72	5,749.72	48.81	99.37	93.86	-3,056.32	4,567.97	5,152.38	5,004.27	148.11	34.788		
6,500.00	5,882.98	5,835.98	5,835.98	49.81	100.88	94.34	-3,056.32	4,567.97	5,156.57	5,005.98	150.59	34.243		
6,600.00	5,969.24	5,922.24	5,922.24	50.82	102.39	94.83	-3,056.32	4,567.97	5,161.25	5,008.19	153.06	33.720		
6,700.00	6,055.51	6,008.51	6,008.51	51.82	103.89	95.31	-3,056.32	4,567.97	5,166.42	5,010.89	155.53	33.217		
6,800.00	6,141.77	6,105.23	6,094.77	52.82	105.58	95.79	-3,056.32	4,567.97	5,172.08	5,013.90	158.18	32.697		
6,900.00	6,228.03	6,181.03	6,181.03	53.83	106.90	96.27	-3,056.32	4,567.97	5,178.23	5,017.77	160.46	32.271		
7,000.00	6,314.30	6,267.30	6,267.30	54.83	108.41	96.75	-3,056.32	4,567.97	5,184.87	5,021.95	162.92	31.825		
7,100.00	6,400.56	6,353.56	6,353.56	55.83	109.91	97.23	-3,056.32	4,567.97	5,191.99	5,026.62	165.37	31.397		
7,200.00	6,486.83	6,439.83	6,439.83	56.84	111.42	97.71	-3,056.32	4,567.97	5,199.59	5,031.78	167.81	30.984		
7,300.00	6,573.09	6,526.09	6,526.09	57.84	112.92	98.19	-3,056.32	4,567.97	5,207.67	5,037.42	170.25	30.588		
7,400.00	6,659.35	6,612.35	6,612.35	58.84	114.43	98.66	-3,056.32	4,567.97	5,216.23	5,043.55	172.69	30.207		
7,500.00	6,745.62	6,701.38	6,698.62	59.85	115.98	99.14	-3,056.32	4,567.97	5,225.27	5,050.11	175.16	29.831		
7,600.00	6,831.88	6,784.88	6,784.88	60.85	117.44	99.61	-3,056.32	4,567.97	5,234.78	5,057.24	177.53	29.486		
7,700.00	6,918.14	6,871.14	6,871.14	61.86	118.95	100.09	-3,056.32	4,567.97	5,244.76	5,064.81	179.95	29.146		
7,800.00	7,004.41	6,957.41	6,957.41	62.86	120.45	100.56	-3,056.32	4,567.97	5,255.21	5,072.85	182.36	28.818		
7,900.00	7,090.67	7,043.67	7,043.67	63.87	121.96	101.03	-3,056.32	4,567.97	5,266.12	5,081.36	184.76	28.503		
8,000.00	7,176.94	7,129.94	7,129.94	64.87	123.46	101.49	-3,056.32	4,567.97	5,277.49	5,090.34	187.15	28.199		
8,027.52	7,200.68	7,153.68	7,153.68	65.15	123.88	101.62	-3,056.32	4,567.97	5,280.71	5,092.89	187.81	28.117		
8,050.00	7,220.18	7,173.18	7,173.18	65.37	124.22	98.41	-3,056.32	4,567.97	5,282.94	5,094.59	188.35	28.049		
8,100.00	7,264.25	7,217.25	7,217.25	65.85	124.99	90.19	-3,056.32	4,567.97	5,285.03	5,095.48	189.54	27.883		
8,150.00	7,308.99	7,261.99	7,261.99	66.28	125.77	80.66	-3,056.32	4,567.97	5,283.10	5,092.37	190.73	27.699		
8,200.00	7,354.07	7,307.07	7,307.07	66.67	126.56	70.30	-3,056.32	4,567.97	5,277.17	5,085.27	191.89	27.500		
8,250.00	7,399.14	7,352.14	7,352.14	67.02	127.34	59.81	-3,056.32	4,567.97	5,267.25	5,074.22	193.03	27.287		
8,300.00	7,443.85	7,403.15	7,396.85	67.32	128.23	49.89	-3,056.32	4,567.97	5,253.40	5,059.17	194.23	27.047		
8,350.00	7,487.88	7,440.88	7,440.88	67.56	128.89	40.97	-3,056.32	4,567.97	5,235.71	5,040.55	195.16	26.827		
8,400.00	7,530.87	7,483.87	7,483.87	67.75	129.64	33.17	-3,056.32	4,567.97	5,214.30	5,018.15	196.15	26.583		
8,450.00	7,572.51	7,525.51	7,525.51	67.90	130.37	26.39	-3,056.32	4,567.97	5,189.32	4,992.24	197.08	26.331		
8,500.00	7,612.48	7,565.48	7,565.48	68.00	131.07	20.41	-3,056.32	4,567.97	5,160.94	4,963.01	197.94	26.073		
8,550.00	7,650.47	7,603.47	7,603.47	68.05	131.73	14.99	-3,056.32	4,567.97	5,129.37	4,930.65	198.73	25.811		
8,600.00	7,686.20	7,639.20	7,639.20	68.06	132.35	9.85	-3,056.32	4,567.97	5,094.84	4,895.40	199.44	25.545		
8,650.00	7,719.39	7,672.39	7,672.39	68.03	132.93	4.73	-3,056.32	4,567.97	5,057.60	4,857.52	200.08	25.278		
8,700.00	7,749.79	7,702.79	7,702.79	67.97	133.46	-0.68	-3,056.32	4,567.97	5,017.94	4,817.30	200.63	25.010		
8,750.00	7,777.17	7,730.17	7,730.17	67.87	133.94	-6.74	-3,056.32	4,567.97	4,976.14	4,775.04	201.10	24.744		
8,800.00	7,801.32	7,754.32	7,754.32	67.74	134.36	-13.89	-3,056.32	4,567.97	4,932.54	4,731.06	201.49	24.481		
8,850.00	7,822.06	7,775.06	7,775.06	67.59	134.72	-22.69	-3,056.32	4,567.97	4,887.47	4,685.69	201.78	24.222		
8,900.00	7,839.23	7,807.77	7,792.23	67.41	135.29	-33.69	-3,056.32	4,567.97	4,841.29	4,639.03	202.26	23.936		
8,950.00	7,852.69	7,805.69	7,805.69	67.22	135.26	-47.13	-3,056.32	4,567.97	4,794.35	4,592.24	202.11	23.722		
9,000.00	7,862.35	7,815.35	7,815.35	67.00	135.43	-62.28	-3,056.32	4,567.97	4,747.02	4,544.89	202.14	23.484		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,821.14	7,821.14	66.78	135.53	-77.30	-3,056.32	4,567.97	4,699.70	4,497.61	202.08	23.256		
9,098.65	7,870.00	7,823.00	7,823.00	66.55	135.56	-90.00	-3,056.32	4,567.97	4,654.00	4,452.06	201.95	23.046		
9,100.00	7,870.00	7,823.00	7,823.00	66.55	135.56	-90.00	-3,056.32	4,567.97	4,652.74	4,450.80	201.94	23.040		
9,200.00	7,870.00	7,823.00	7,823.00	66.09	135.56	-90.00	-3,056.32	4,567.97	4,559.57	4,358.00	201.57	22.620		
9,300.00	7,870.00	7,823.00	7,823.00	65.65	135.56	-90.00	-3,056.32	4,567.97	4,466.69	4,265.50	201.19	22.201		
9,400.00	7,870.00	7,823.00	7,823.00	65.24	135.56	-90.00	-3,056.32	4,567.97	4,374.13	4,173.33	200.80	21.784		
9,500.00	7,870.00	7,823.00	7,823.00	64.85	135.56	-90.00	-3,056.32	4,567.97	4,281.90	4,081.51	200.39	21.368		
9,600.00	7,870.00	7,823.00	7,823.00	64.48	135.56	-90.00	-3,056.32	4,567.97	4,190.03	3,990.06	199.97	20.954		
9,700.00	7,870.00	7,823.00	7,823.00	64.13	135.56	-90.00	-3,056.32	4,567.97	4,098.54	3,899.01	199.53	20.541		
9,800.00	7,870.00	7,823.00	7,823.00	63.80	135.56	-90.00	-3,056.32	4,567.97	4,007.45	3,808.38	199.07	20.130		
9,900.00	7,870.00	7,823.00	7,823.00	63.50	135.56	-90.00	-3,056.32	4,567.97	3,916.80	3,718.20	198.60	19.722		
10,000.00	7,870.00	7,823.00	7,823.00	63.22	135.56	-90.00	-3,056.32	4,567.97	3,826.62	3,628.50	198.12	19.315		
10,100.00	7,870.00	7,823.00	7,823.00	62.96	135.56	-90.00	-3,056.32	4,567.97	3,736.94	3,539.32	197.61	18.910		
10,200.00	7,870.00	7,823.00	7,823.00	62.72	135.56	-90.00	-3,056.32	4,567.97	3,647.79	3,450.70	197.09	18.508		
10,300.00	7,870.00	7,823.00	7,823.00	62.50	135.56	-90.00	-3,056.32	4,567.97	3,559.22	3,362.66	196.55	18.108		
10,400.00	7,870.00	7,823.00	7,823.00	62.31	135.56	-90.00	-3,056.32	4,567.97	3,471.27	3,275.27	196.00	17.711		
10,500.00	7,870.00	7,823.00	7,823.00	62.15	135.56	-90.00	-3,056.32	4,567.97	3,383.99	3,188.56	195.43	17.316		
10,600.00	7,870.00	7,823.00	7,823.00	62.01	135.56	-90.00	-3,056.32	4,567.97	3,297.43	3,102.59	194.84	16.924		
10,700.00	7,870.00	7,823.00	7,823.00	61.90	135.56	-90.00	-3,056.32	4,567.97	3,211.65	3,017.41	194.24	16.535		
10,800.00	7,870.00	7,823.00	7,823.00	61.82	135.56	-90.00	-3,056.32	4,567.97	3,126.72	2,933.10	193.62	16.149		
10,900.00	7,870.00	7,823.00	7,823.00	61.78	135.56	-90.00	-3,056.32	4,567.97	3,042.70	2,849.71	192.99	15.766		
11,000.00	7,870.00	7,823.00	7,823.00	61.77	135.56	-90.00	-3,056.32	4,567.97	2,959.68	2,767.32	192.36	15.386		
11,100.00	7,870.00	7,823.00	7,823.00	61.81	135.56	-90.00	-3,056.32	4,567.97	2,877.74	2,686.01	191.72	15.010		
11,200.00	7,870.00	7,823.00	7,823.00	61.90	135.56	-90.00	-3,056.32	4,567.97	2,796.97	2,605.88	191.09	14.637		
11,300.00	7,870.00	7,823.00	7,823.00	62.03	135.56	-90.00	-3,056.32	4,567.97	2,717.48	2,527.02	190.46	14.268		
11,400.00	7,870.00	7,823.00	7,823.00	62.23	135.56	-90.00	-3,056.32	4,567.97	2,639.39	2,449.54	189.85	13.902		
11,500.00	7,870.00	7,823.00	7,823.00	62.50	135.56	-90.00	-3,056.32	4,567.97	2,562.82	2,373.55	189.28	13.540		
11,600.00	7,870.00	7,823.00	7,823.00	62.84	135.56	-90.00	-3,056.32	4,567.97	2,487.91	2,299.17	188.74	13.182		
11,700.00	7,870.00	7,823.00	7,823.00	63.25	135.56	-90.00	-3,056.32	4,567.97	2,414.83	2,226.56	188.26	12.827		
11,800.00	7,870.00	7,823.00	7,823.00	63.76	135.56	-90.00	-3,056.32	4,567.97	2,343.73	2,155.86	187.87	12.476		
11,900.00	7,870.00	7,823.00	7,823.00	64.34	135.56	-90.00	-3,056.32	4,567.97	2,274.80	2,087.23	187.57	12.128		
12,000.00	7,870.00	7,823.00	7,823.00	65.01	135.56	-90.00	-3,056.32	4,567.97	2,208.26	2,020.85	187.40	11.784		
12,100.00	7,870.00	7,823.00	7,823.00	65.77	135.56	-90.00	-3,056.32	4,567.97	2,144.31	1,956.92	187.39	11.443		
12,200.00	7,870.00	7,823.00	7,823.00	66.61	135.56	-90.00	-3,056.32	4,567.97	2,083.20	1,895.63	187.57	11.106		
12,300.00	7,870.00	7,823.00	7,823.00	67.51	135.56	-90.00	-3,056.32	4,567.97	2,025.19	1,837.23	187.96	10.775		
12,400.00	7,870.00	7,823.00	7,823.00	68.49	135.56	-90.00	-3,056.32	4,567.97	1,970.55	1,781.95	188.60	10.448		
12,500.00	7,870.00	7,823.00	7,823.00	69.52	135.56	-90.00	-3,056.32	4,567.97	1,919.57	1,730.06	189.51	10.129		
12,600.00	7,870.00	7,823.00	7,823.00	70.61	135.56	-90.00	-3,056.32	4,567.97	1,872.54	1,681.83	190.71	9.819		
12,700.00	7,870.00	7,823.00	7,823.00	71.75	135.56	-90.00	-3,056.32	4,567.97	1,829.77	1,637.57	192.20	9.520		
12,800.00	7,870.00	7,823.00	7,823.00	72.93	135.56	-90.00	-3,056.32	4,567.97	1,791.57	1,597.58	193.99	9.235		
12,900.00	7,870.00	7,823.00	7,823.00	74.14	135.56	-90.00	-3,056.32	4,567.97	1,758.24	1,562.18	196.06	8.968		
13,000.00	7,870.00	7,823.00	7,823.00	75.39	135.56	-90.00	-3,056.32	4,567.97	1,730.05	1,531.67	198.38	8.721		
13,100.00	7,870.00	7,823.00	7,823.00	76.67	135.56	-90.00	-3,056.32	4,567.97	1,707.26	1,506.36	200.90	8.498		
13,200.00	7,870.00	7,823.00	7,823.00	77.98	135.56	-90.00	-3,056.32	4,567.97	1,690.09	1,486.51	203.58	8.302		
13,300.00	7,870.00	7,823.00	7,823.00	79.31	135.56	-90.00	-3,056.32	4,567.97	1,678.71	1,472.35	206.37	8.135		
13,400.00	7,870.00	7,823.00	7,823.00	80.67	135.56	-90.00	-3,056.32	4,567.97	1,673.24	1,464.05	209.19	7.999		
13,441.66	7,870.00	7,823.00	7,823.00	81.24	135.56	-90.00	-3,056.32	4,567.97	1,672.73	1,462.36	210.37	7.951 CC		
13,500.00	7,870.00	7,823.00	7,823.00	82.04	135.56	-90.00	-3,056.32	4,567.97	1,673.74	1,461.74	212.00	7.895 ES		
13,600.00	7,870.00	7,823.00	7,823.00	83.43	135.56	-90.00	-3,056.32	4,567.97	1,680.20	1,465.46	214.74	7.824		
13,700.00	7,870.00	7,823.00	7,823.00	84.84	135.56	-90.00	-3,056.32	4,567.97	1,692.56	1,475.20	217.36	7.787		
13,800.00	7,870.00	7,823.00	7,823.00	86.27	135.56	-90.00	-3,056.32	4,567.97	1,710.68	1,490.86	219.82	7.782 SF		
13,900.00	7,870.00	7,823.00	7,823.00	87.71	135.56	-90.00	-3,056.32	4,567.97	1,734.38	1,512.29	222.09	7.809		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,823.00	7,823.00	89.16	135.56	-90.00	-3,056.32	4,567.97	1,763.45	1,539.29	224.16	7.867		
14,100.00	7,870.00	7,823.00	7,823.00	90.63	135.56	-90.00	-3,056.32	4,567.97	1,797.62	1,571.60	226.02	7.953		
14,200.00	7,870.00	7,823.00	7,823.00	92.10	135.56	-90.00	-3,056.32	4,567.97	1,836.60	1,608.94	227.66	8.067		
14,300.00	7,870.00	7,823.00	7,823.00	93.59	135.56	-90.00	-3,056.32	4,567.97	1,880.10	1,651.01	229.08	8.207		
14,400.00	7,870.00	7,823.00	7,823.00	95.09	135.56	-90.00	-3,056.32	4,567.97	1,927.80	1,697.49	230.31	8.370		
14,500.00	7,870.00	7,823.00	7,823.00	96.60	135.56	-90.00	-3,056.32	4,567.97	1,979.42	1,748.06	231.36	8.556		
14,600.00	7,870.00	7,823.00	7,823.00	98.11	135.56	-90.00	-3,056.32	4,567.97	2,034.64	1,802.41	232.23	8.761		
14,700.00	7,870.00	7,823.00	7,823.00	99.64	135.56	-90.00	-3,056.32	4,567.97	2,093.19	1,860.24	232.95	8.986		
14,800.00	7,870.00	7,823.00	7,823.00	101.17	135.56	-90.00	-3,056.32	4,567.97	2,154.79	1,921.25	233.54	9.227		
14,900.00	7,870.00	7,823.00	7,823.00	102.71	135.56	-90.00	-3,056.32	4,567.97	2,219.18	1,985.18	234.00	9.484		
15,000.00	7,870.00	7,823.00	7,823.00	104.26	135.56	-90.00	-3,056.32	4,567.97	2,286.14	2,051.78	234.36	9.755		
15,100.00	7,870.00	7,823.00	7,823.00	105.82	135.56	-90.00	-3,056.32	4,567.97	2,355.44	2,120.81	234.63	10.039		
15,200.00	7,870.00	7,823.00	7,823.00	107.38	135.56	-90.00	-3,056.32	4,567.97	2,426.89	2,192.06	234.82	10.335		
15,300.00	7,870.00	7,823.00	7,823.00	108.95	135.56	-90.00	-3,056.32	4,567.97	2,500.29	2,265.34	234.95	10.642		
15,400.00	7,870.00	7,823.00	7,823.00	110.52	135.56	-90.00	-3,056.32	4,567.97	2,575.48	2,340.46	235.02	10.959		
15,500.00	7,870.00	7,823.00	7,823.00	112.10	135.56	-90.00	-3,056.32	4,567.97	2,652.32	2,417.27	235.04	11.284		
15,600.00	7,870.00	7,823.00	7,823.00	113.69	135.56	-90.00	-3,056.32	4,567.97	2,730.65	2,495.63	235.03	11.619		
15,700.00	7,870.00	7,823.00	7,823.00	115.28	135.56	-90.00	-3,056.32	4,567.97	2,810.36	2,575.38	234.98	11.960		
15,800.00	7,870.00	7,823.00	7,823.00	116.87	135.56	-90.00	-3,056.32	4,567.97	2,891.33	2,656.43	234.90	12.309		
15,900.00	7,870.00	7,823.00	7,823.00	118.47	135.56	-90.00	-3,056.32	4,567.97	2,973.46	2,738.66	234.80	12.664		
16,000.00	7,870.00	7,823.00	7,823.00	120.07	135.56	-90.00	-3,056.32	4,567.97	3,056.65	2,821.97	234.68	13.025		
16,100.00	7,870.00	7,823.00	7,823.00	121.68	135.56	-90.00	-3,056.32	4,567.97	3,140.83	2,906.28	234.55	13.391		
16,200.00	7,870.00	7,823.00	7,823.00	123.30	135.56	-90.00	-3,056.32	4,567.97	3,225.90	2,991.50	234.40	13.762		
16,300.00	7,870.00	7,823.00	7,823.00	124.91	135.56	-90.00	-3,056.32	4,567.97	3,311.82	3,077.57	234.25	14.138		
16,400.00	7,870.00	7,823.00	7,823.00	126.53	135.56	-90.00	-3,056.32	4,567.97	3,398.50	3,164.41	234.09	14.518		
16,500.00	7,870.00	7,823.00	7,823.00	128.16	135.56	-90.00	-3,056.32	4,567.97	3,485.90	3,251.97	233.92	14.902		
16,600.00	7,870.00	7,823.00	7,823.00	129.79	135.56	-90.00	-3,056.32	4,567.97	3,573.95	3,340.20	233.75	15.290		
16,700.00	7,870.00	7,823.00	7,823.00	131.42	135.56	-90.00	-3,056.32	4,567.97	3,662.62	3,429.04	233.58	15.680		
16,800.00	7,870.00	7,823.00	7,823.00	133.05	135.56	-90.00	-3,056.32	4,567.97	3,751.86	3,518.46	233.41	16.074		
16,900.00	7,870.00	7,823.00	7,823.00	134.69	135.56	-90.00	-3,056.32	4,567.97	3,841.63	3,608.40	233.23	16.471		
17,000.00	7,870.00	7,823.00	7,823.00	136.33	135.56	-90.00	-3,056.32	4,567.97	3,931.90	3,698.83	233.06	16.871		
17,100.00	7,870.00	7,823.00	7,823.00	137.97	135.56	-90.00	-3,056.32	4,567.97	4,022.62	3,789.73	232.89	17.273		
17,200.00	7,870.00	7,823.00	7,823.00	139.62	135.56	-90.00	-3,056.32	4,567.97	4,113.77	3,881.05	232.72	17.677		
17,300.00	7,870.00	7,823.00	7,823.00	141.27	135.56	-90.00	-3,056.32	4,567.97	4,205.33	3,972.78	232.55	18.083		
17,400.00	7,870.00	7,823.00	7,823.00	142.92	135.56	-90.00	-3,056.32	4,567.97	4,297.26	4,064.88	232.39	18.492		
17,500.00	7,870.00	7,823.00	7,823.00	144.58	135.56	-90.00	-3,056.32	4,567.97	4,389.55	4,157.32	232.23	18.902		
17,600.00	7,870.00	7,823.00	7,823.00	146.23	135.56	-90.00	-3,056.32	4,567.97	4,482.17	4,250.10	232.07	19.314		
17,700.00	7,870.00	7,823.00	7,823.00	147.89	135.56	-90.00	-3,056.32	4,567.97	4,575.09	4,343.18	231.91	19.728		
17,800.00	7,870.00	7,823.00	7,823.00	149.56	135.56	-90.00	-3,056.32	4,567.97	4,668.31	4,436.56	231.76	20.143		
17,900.00	7,870.00	7,823.00	7,823.00	151.22	135.56	-90.00	-3,056.32	4,567.97	4,761.81	4,530.20	231.61	20.560		
18,000.00	7,870.00	7,823.00	7,823.00	152.89	135.56	-90.00	-3,056.32	4,567.97	4,855.56	4,624.10	231.46	20.978		
18,100.00	7,870.00	7,823.00	7,823.00	154.55	135.56	-90.00	-3,056.32	4,567.97	4,949.56	4,718.24	231.32	21.397		
18,200.00	7,870.00	7,823.00	7,823.00	156.22	135.56	-90.00	-3,056.32	4,567.97	5,043.79	4,812.61	231.18	21.817		
18,300.00	7,870.00	7,823.00	7,823.00	157.90	135.56	-90.00	-3,056.32	4,567.97	5,138.24	4,907.19	231.05	22.239		
18,400.00	7,870.00	7,823.00	7,823.00	159.57	135.56	-90.00	-3,056.32	4,567.97	5,232.89	5,001.98	230.92	22.661		
18,500.00	7,870.00	7,823.00	7,823.00	161.25	135.56	-90.00	-3,056.32	4,567.97	5,327.74	5,096.95	230.79	23.085		
18,600.00	7,870.00	7,823.00	7,823.00	162.93	135.56	-90.00	-3,056.32	4,567.97	5,422.78	5,192.11	230.66	23.509		
18,700.00	7,870.00	7,823.00	7,823.00	164.60	135.56	-90.00	-3,056.32	4,567.97	5,517.99	5,287.44	230.54	23.935		
18,797.52	7,870.00	7,823.00	7,823.00	166.24	135.56	-90.00	-3,056.32	4,567.97	5,610.99	5,380.56	230.43	24.350		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	104.99	-1,580.67	5,903.39	6,111.59					
100.00	100.00	45.00	45.00	0.13	0.35	104.99	-1,580.67	5,903.39	6,111.35	6,110.87	0.48	N/A		
200.00	200.00	145.00	145.00	0.49	1.55	104.99	-1,580.67	5,903.39	6,111.35	6,109.30	2.05	2,986.619		
300.00	300.00	245.00	245.00	0.85	3.30	104.99	-1,580.67	5,903.39	6,111.35	6,107.20	4.15	1,472.598		
400.00	400.00	345.00	345.00	1.21	5.04	104.99	-1,580.67	5,903.39	6,111.35	6,105.09	6.25	977.214		
500.00	500.00	445.00	445.00	1.57	6.79	104.99	-1,580.67	5,903.39	6,111.35	6,102.99	8.36	731.228		
600.00	600.00	545.00	545.00	1.93	8.53	104.99	-1,580.67	5,903.39	6,111.35	6,100.89	10.46	584.178		
700.00	700.00	645.00	645.00	2.29	10.28	104.99	-1,580.67	5,903.39	6,111.35	6,098.78	12.57	486.369		
800.00	800.00	745.00	745.00	2.64	12.03	104.99	-1,580.67	5,903.39	6,111.35	6,096.68	14.67	416.615		
900.00	900.00	845.00	845.00	3.00	13.77	104.99	-1,580.67	5,903.39	6,111.35	6,094.57	16.77	364.360		
1,000.00	1,000.00	945.00	945.00	3.36	15.52	104.99	-1,580.67	5,903.39	6,111.35	6,092.47	18.88	323.752		
1,100.00	1,099.98	1,044.98	1,044.98	3.72	17.26	50.40	-1,580.67	5,903.39	6,110.23	6,089.26	20.98	291.294		
1,200.00	1,199.84	1,144.84	1,144.84	4.07	19.00	50.49	-1,580.67	5,903.39	6,106.90	6,083.83	23.07	264.694		
1,300.00	1,299.45	1,244.45	1,244.45	4.43	20.74	50.64	-1,580.67	5,903.39	6,101.35	6,076.18	25.17	242.450		
1,400.00	1,398.70	1,343.70	1,343.70	4.80	22.47	50.85	-1,580.67	5,903.39	6,093.60	6,066.34	27.26	223.553		
1,500.00	1,497.47	1,442.47	1,442.47	5.18	24.20	51.11	-1,580.67	5,903.39	6,083.68	6,054.33	29.35	207.280		
1,600.00	1,595.62	1,540.62	1,540.62	5.57	25.91	51.44	-1,580.67	5,903.39	6,071.61	6,040.16	31.44	193.101		
1,700.00	1,693.06	1,638.06	1,638.06	6.00	27.61	51.83	-1,580.67	5,903.39	6,057.42	6,023.88	33.54	180.615		
1,800.00	1,789.64	1,734.64	1,734.64	6.45	29.30	52.28	-1,580.67	5,903.39	6,041.16	6,005.53	35.64	169.518		
1,900.00	1,885.27	1,830.27	1,830.27	6.94	30.97	52.79	-1,580.67	5,903.39	6,022.88	5,985.14	37.74	159.575		
2,000.00	1,979.82	1,924.82	1,924.82	7.47	32.62	53.36	-1,580.67	5,903.39	6,002.62	5,962.76	39.86	150.600		
2,100.00	2,073.17	2,018.17	2,018.17	8.05	34.25	53.99	-1,580.67	5,903.39	5,980.45	5,938.46	41.98	142.445		
2,200.00	2,165.21	2,110.21	2,110.21	8.67	35.85	54.68	-1,580.67	5,903.39	5,956.42	5,912.30	44.12	134.992		
2,300.00	2,255.84	2,200.84	2,200.84	9.35	37.43	55.43	-1,580.67	5,903.39	5,930.62	5,884.34	46.28	128.146		
2,400.00	2,344.94	2,289.94	2,289.94	10.09	38.99	56.24	-1,580.67	5,903.39	5,903.11	5,854.65	48.45	121.827		
2,500.00	2,432.39	2,377.39	2,377.39	10.89	40.52	57.11	-1,580.67	5,903.39	5,873.98	5,823.33	50.65	115.972		
2,519.29	2,449.07	2,405.93	2,394.07	11.05	41.01	57.29	-1,580.67	5,903.39	5,868.18	5,816.89	51.28	114.426		
2,600.00	2,518.69	2,463.69	2,463.69	11.74	42.02	57.59	-1,580.67	5,903.39	5,843.89	5,791.02	52.87	110.538		
2,700.00	2,604.95	2,549.95	2,549.95	12.62	43.53	57.97	-1,580.67	5,903.39	5,814.05	5,758.94	55.11	105.497		
2,800.00	2,691.22	2,636.22	2,636.22	13.52	45.03	58.35	-1,580.67	5,903.39	5,784.50	5,727.12	57.38	100.814		
2,900.00	2,777.48	2,722.48	2,722.48	14.43	46.54	58.74	-1,580.67	5,903.39	5,755.24	5,695.58	59.67	96.459		
3,000.00	2,863.75	2,808.75	2,808.75	15.35	48.04	59.13	-1,580.67	5,903.39	5,726.28	5,664.31	61.97	92.403		
3,100.00	2,950.01	2,904.99	2,895.01	16.28	49.72	59.52	-1,580.67	5,903.39	5,697.63	5,633.16	64.47	88.380		
3,200.00	3,036.27	2,981.27	2,981.27	17.22	51.06	59.92	-1,580.67	5,903.39	5,669.27	5,602.64	66.63	85.084		
3,300.00	3,122.54	3,067.54	3,067.54	18.17	52.56	60.32	-1,580.67	5,903.39	5,641.23	5,572.25	68.98	81.777		
3,400.00	3,208.80	3,153.80	3,153.80	19.13	54.07	60.72	-1,580.67	5,903.39	5,613.51	5,542.16	71.35	78.678		
3,500.00	3,295.07	3,240.07	3,240.07	20.09	55.57	61.13	-1,580.67	5,903.39	5,586.11	5,512.38	73.72	75.770		
3,600.00	3,381.33	3,326.33	3,326.33	21.05	57.08	61.54	-1,580.67	5,903.39	5,559.03	5,482.91	76.11	73.037		
3,700.00	3,467.59	3,412.59	3,412.59	22.02	58.58	61.95	-1,580.67	5,903.39	5,532.28	5,453.77	78.51	70.465		
3,800.00	3,553.86	3,501.14	3,498.86	22.99	60.13	62.36	-1,580.67	5,903.39	5,505.86	5,424.90	80.96	68.007		
3,900.00	3,640.12	3,585.12	3,585.12	23.97	61.59	62.78	-1,580.67	5,903.39	5,479.79	5,396.45	83.34	65.752		
4,000.00	3,726.38	3,671.38	3,671.38	24.95	63.10	63.20	-1,580.67	5,903.39	5,454.06	5,368.29	85.77	63.591		
4,100.00	3,812.65	3,757.65	3,757.65	25.93	64.61	63.63	-1,580.67	5,903.39	5,428.68	5,340.47	88.21	61.546		
4,200.00	3,898.91	3,843.91	3,843.91	26.91	66.11	64.06	-1,580.67	5,903.39	5,403.65	5,313.00	90.65	59.609		
4,300.00	3,985.18	3,930.18	3,930.18	27.90	67.62	64.49	-1,580.67	5,903.39	5,378.98	5,285.88	93.11	57.773		
4,400.00	4,071.44	4,016.44	4,016.44	28.88	69.12	64.92	-1,580.67	5,903.39	5,354.68	5,259.11	95.57	56.030		
4,500.00	4,157.70	4,102.70	4,102.70	29.87	70.63	65.36	-1,580.67	5,903.39	5,330.75	5,232.71	98.04	54.374		
4,600.00	4,243.97	4,188.97	4,188.97	30.86	72.13	65.80	-1,580.67	5,903.39	5,307.19	5,206.67	100.52	52.800		
4,700.00	4,330.23	4,275.23	4,275.23	31.85	73.64	66.24	-1,580.67	5,903.39	5,284.01	5,181.01	103.00	51.301		
4,800.00	4,416.49	4,361.49	4,361.49	32.84	75.15	66.69	-1,580.67	5,903.39	5,261.21	5,155.72	105.49	49.873		
4,900.00	4,502.76	4,447.76	4,447.76	33.84	76.65	67.14	-1,580.67	5,903.39	5,238.80	5,130.81	107.99	48.511		
5,000.00	4,589.02	4,534.02	4,534.02	34.83	78.16	67.59	-1,580.67	5,903.39	5,216.79	5,106.29	110.50	47.212		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	4,620.29	4,620.29	35.82	79.66	68.05	-1,580.67	5,903.39	5,195.18	5,082.17	113.01	45.971		
5,200.00	4,761.55	4,706.55	4,706.55	36.82	81.17	68.51	-1,580.67	5,903.39	5,173.97	5,058.44	115.53	44.786		
5,300.00	4,847.81	4,807.19	4,792.81	37.82	82.92	68.97	-1,580.67	5,903.39	5,153.17	5,034.87	118.30	43.559		
5,400.00	4,934.08	4,879.08	4,879.08	38.81	84.18	69.43	-1,580.67	5,903.39	5,132.78	5,012.20	120.58	42.567		
5,500.00	5,020.34	4,965.34	4,965.34	39.81	85.68	69.90	-1,580.67	5,903.39	5,112.82	4,989.70	123.12	41.528		
5,600.00	5,106.60	5,051.60	5,051.60	40.81	87.19	70.37	-1,580.67	5,903.39	5,093.27	4,967.62	125.66	40.533		
5,700.00	5,192.87	5,137.87	5,137.87	41.81	88.70	70.84	-1,580.67	5,903.39	5,074.16	4,945.96	128.20	39.579		
5,800.00	5,279.13	5,224.13	5,224.13	42.81	90.20	71.32	-1,580.67	5,903.39	5,055.48	4,924.73	130.75	38.664		
5,900.00	5,365.40	5,310.40	5,310.40	43.81	91.71	71.79	-1,580.67	5,903.39	5,037.24	4,903.93	133.31	37.786		
6,000.00	5,451.66	5,403.34	5,396.66	44.81	93.33	72.27	-1,580.67	5,903.39	5,019.44	4,883.46	135.98	36.912		
6,100.00	5,537.92	5,482.92	5,482.92	45.81	94.72	72.76	-1,580.67	5,903.39	5,002.09	4,863.66	138.43	36.134		
6,200.00	5,624.19	5,569.19	5,569.19	46.81	96.22	73.24	-1,580.67	5,903.39	4,985.19	4,844.19	141.00	35.356		
6,300.00	5,710.45	5,655.45	5,655.45	47.81	97.73	73.73	-1,580.67	5,903.39	4,968.75	4,825.18	143.57	34.609		
6,400.00	5,796.72	5,741.72	5,741.72	48.81	99.23	74.22	-1,580.67	5,903.39	4,952.78	4,806.63	146.14	33.890		
6,500.00	5,882.98	5,827.98	5,827.98	49.81	100.74	74.72	-1,580.67	5,903.39	4,937.27	4,788.55	148.72	33.198		
6,600.00	5,969.24	5,914.24	5,914.24	50.82	102.25	75.21	-1,580.67	5,903.39	4,922.23	4,770.93	151.30	32.533		
6,700.00	6,055.51	6,000.51	6,000.51	51.82	103.75	75.71	-1,580.67	5,903.39	4,907.66	4,753.78	153.88	31.892		
6,800.00	6,141.77	6,086.77	6,086.77	52.82	105.26	76.21	-1,580.67	5,903.39	4,893.58	4,737.11	156.47	31.276		
6,900.00	6,228.03	6,173.03	6,173.03	53.83	106.76	76.71	-1,580.67	5,903.39	4,879.98	4,720.92	159.05	30.681		
7,000.00	6,314.30	6,259.30	6,259.30	54.83	108.27	77.21	-1,580.67	5,903.39	4,866.86	4,705.22	161.64	30.109		
7,100.00	6,400.56	6,345.56	6,345.56	55.83	109.77	77.72	-1,580.67	5,903.39	4,854.24	4,690.01	164.23	29.558		
7,200.00	6,486.83	6,431.83	6,431.83	56.84	111.28	78.23	-1,580.67	5,903.39	4,842.11	4,675.29	166.82	29.026		
7,300.00	6,573.09	6,518.09	6,518.09	57.84	112.78	78.74	-1,580.67	5,903.39	4,830.49	4,661.08	169.41	28.514		
7,400.00	6,659.35	6,604.35	6,604.35	58.84	114.29	79.25	-1,580.67	5,903.39	4,819.36	4,647.36	172.00	28.019		
7,500.00	6,745.62	6,709.38	6,690.62	59.85	116.12	79.76	-1,580.67	5,903.39	4,808.74	4,633.83	174.92	27.491		
7,600.00	6,831.88	6,776.88	6,776.88	60.85	117.30	80.28	-1,580.67	5,903.39	4,798.64	4,621.45	177.18	27.083		
7,700.00	6,918.14	6,863.14	6,863.14	61.86	118.81	80.80	-1,580.67	5,903.39	4,789.04	4,609.27	179.77	26.640		
7,800.00	7,004.41	6,949.41	6,949.41	62.86	120.31	81.31	-1,580.67	5,903.39	4,779.96	4,597.60	182.36	26.212		
7,900.00	7,090.67	7,035.67	7,035.67	63.87	121.82	81.83	-1,580.67	5,903.39	4,771.40	4,586.45	184.95	25.799		
8,000.00	7,176.94	7,121.94	7,121.94	64.87	123.32	82.36	-1,580.67	5,903.39	4,763.36	4,575.83	187.53	25.400		
8,027.52	7,200.68	7,145.68	7,145.68	65.15	123.74	82.50	-1,580.67	5,903.39	4,761.24	4,573.00	188.24	25.293		
8,050.00	7,220.18	7,165.18	7,165.18	65.37	124.08	79.09	-1,580.67	5,903.39	4,759.20	4,570.38	188.82	25.205		
8,100.00	7,264.25	7,209.25	7,209.25	65.85	124.85	70.38	-1,580.67	5,903.39	4,752.30	4,562.22	190.09	25.001		
8,150.00	7,308.99	7,253.99	7,253.99	66.28	125.63	60.26	-1,580.67	5,903.39	4,742.18	4,550.87	191.32	24.787		
8,200.00	7,354.07	7,300.93	7,299.07	66.67	126.45	49.21	-1,580.67	5,903.39	4,728.88	4,536.35	192.53	24.562		
8,250.00	7,399.14	7,344.14	7,344.14	67.02	127.20	37.89	-1,580.67	5,903.39	4,712.46	4,518.85	193.61	24.340		
8,300.00	7,443.85	7,388.85	7,388.85	67.32	127.98	27.00	-1,580.67	5,903.39	4,693.03	4,498.37	194.66	24.108		
8,350.00	7,487.88	7,432.88	7,432.88	67.56	128.75	16.94	-1,580.67	5,903.39	4,670.71	4,475.07	195.64	23.874		
8,400.00	7,530.87	7,475.87	7,475.87	67.75	129.50	7.82	-1,580.67	5,903.39	4,645.65	4,449.11	196.54	23.638		
8,450.00	7,572.51	7,517.51	7,517.51	67.90	130.23	-0.47	-1,580.67	5,903.39	4,618.04	4,420.69	197.35	23.401		
8,500.00	7,612.48	7,557.48	7,557.48	68.00	130.93	-8.16	-1,580.67	5,903.39	4,588.08	4,390.01	198.07	23.164		
8,550.00	7,650.47	7,604.53	7,595.47	68.05	131.75	-15.48	-1,580.67	5,903.39	4,556.00	4,357.16	198.85	22.912		
8,600.00	7,686.20	7,631.20	7,631.20	68.06	132.21	-22.66	-1,580.67	5,903.39	4,522.07	4,322.85	199.22	22.699		
8,650.00	7,719.39	7,664.39	7,664.39	68.03	132.79	-29.85	-1,580.67	5,903.39	4,486.55	4,286.90	199.65	22.472		
8,700.00	7,749.79	7,705.21	7,694.79	67.97	133.50	-37.17	-1,580.67	5,903.39	4,449.75	4,249.59	200.16	22.231		
8,750.00	7,777.17	7,722.17	7,722.17	67.87	133.80	-44.63	-1,580.67	5,903.39	4,411.96	4,211.76	200.20	22.038		
8,800.00	7,801.32	7,746.32	7,746.32	67.74	134.22	-52.18	-1,580.67	5,903.39	4,373.53	4,173.20	200.32	21.832		
8,850.00	7,822.06	7,767.06	7,767.06	67.59	134.58	-59.69	-1,580.67	5,903.39	4,334.77	4,134.43	200.34	21.637		
8,900.00	7,839.23	7,784.23	7,784.23	67.41	134.88	-66.95	-1,580.67	5,903.39	4,296.04	4,095.79	200.25	21.453		
8,950.00	7,852.69	7,802.31	7,797.69	67.22	135.20	-73.77	-1,580.67	5,903.39	4,257.67	4,057.53	200.15	21.273		
9,000.00	7,862.35	7,807.35	7,807.35	67.00	135.29	-79.97	-1,580.67	5,903.39	4,220.02	4,020.23	199.78	21.123		
9,050.00	7,868.14	7,813.14	7,813.14	66.78	135.39	-85.44	-1,580.67	5,903.39	4,183.40	3,984.00	199.40	20.980		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,098.65	7,870.00	7,815.00	7,815.00	66.55	135.42	-90.00	-1,580.67	5,903.39	4,149.09	3,950.14	198.95	20.855		
9,100.00	7,870.00	7,815.00	7,815.00	66.55	135.42	-90.00	-1,580.67	5,903.39	4,148.16	3,949.22	198.93	20.852		
9,200.00	7,870.00	7,815.00	7,815.00	66.09	135.42	-90.00	-1,580.67	5,903.39	4,079.82	3,881.92	197.90	20.616		
9,300.00	7,870.00	7,815.00	7,815.00	65.65	135.42	-90.00	-1,580.67	5,903.39	4,012.80	3,815.96	196.84	20.386		
9,400.00	7,870.00	7,815.00	7,815.00	65.24	135.42	-90.00	-1,580.67	5,903.39	3,947.19	3,751.42	195.77	20.162		
9,500.00	7,870.00	7,815.00	7,815.00	64.85	135.42	-90.00	-1,580.67	5,903.39	3,883.04	3,688.36	194.68	19.946		
9,600.00	7,870.00	7,815.00	7,815.00	64.48	135.42	-90.00	-1,580.67	5,903.39	3,820.43	3,626.85	193.58	19.736		
9,700.00	7,870.00	7,815.00	7,815.00	64.13	135.42	-90.00	-1,580.67	5,903.39	3,759.44	3,566.97	192.47	19.532		
9,800.00	7,870.00	7,815.00	7,815.00	63.80	135.42	-90.00	-1,580.67	5,903.39	3,700.15	3,508.78	191.37	19.335		
9,900.00	7,870.00	7,815.00	7,815.00	63.50	135.42	-90.00	-1,580.67	5,903.39	3,642.63	3,452.37	190.27	19.145		
10,000.00	7,870.00	7,815.00	7,815.00	63.22	135.42	-90.00	-1,580.67	5,903.39	3,586.99	3,397.80	189.19	18.960		
10,100.00	7,870.00	7,815.00	7,815.00	62.96	135.42	-90.00	-1,580.67	5,903.39	3,533.30	3,345.17	188.13	18.781		
10,200.00	7,870.00	7,815.00	7,815.00	62.72	135.42	-90.00	-1,580.67	5,903.39	3,481.65	3,294.54	187.11	18.607		
10,300.00	7,870.00	7,815.00	7,815.00	62.50	135.42	-90.00	-1,580.67	5,903.39	3,432.14	3,246.00	186.14	18.438		
10,400.00	7,870.00	7,815.00	7,815.00	62.31	135.42	-90.00	-1,580.67	5,903.39	3,384.86	3,199.62	185.24	18.273		
10,500.00	7,870.00	7,815.00	7,815.00	62.15	135.42	-90.00	-1,580.67	5,903.39	3,339.91	3,155.48	184.42	18.110		
10,600.00	7,870.00	7,815.00	7,815.00	62.01	135.42	-90.00	-1,580.67	5,903.39	3,297.37	3,113.67	183.70	17.950		
10,700.00	7,870.00	7,815.00	7,815.00	61.90	135.42	-90.00	-1,580.67	5,903.39	3,257.36	3,074.26	183.10	17.790		
10,800.00	7,870.00	7,815.00	7,815.00	61.82	135.42	-90.00	-1,580.67	5,903.39	3,219.95	3,037.32	182.63	17.631		
10,900.00	7,870.00	7,815.00	7,815.00	61.78	135.42	-90.00	-1,580.67	5,903.39	3,185.24	3,002.94	182.31	17.472		
11,000.00	7,870.00	7,815.00	7,815.00	61.77	135.42	-90.00	-1,580.67	5,903.39	3,153.33	2,971.17	182.15	17.311		
11,100.00	7,870.00	7,815.00	7,815.00	61.81	135.42	-90.00	-1,580.67	5,903.39	3,124.29	2,942.11	182.18	17.149		
11,200.00	7,870.00	7,815.00	7,815.00	61.90	135.42	-90.00	-1,580.67	5,903.39	3,098.20	2,915.81	182.40	16.986		
11,300.00	7,870.00	7,815.00	7,815.00	62.03	135.42	-90.00	-1,580.67	5,903.39	3,075.15	2,892.35	182.81	16.822		
11,400.00	7,870.00	7,815.00	7,815.00	62.23	135.42	-90.00	-1,580.67	5,903.39	3,055.20	2,871.79	183.42	16.657		
11,500.00	7,870.00	7,815.00	7,815.00	62.50	135.42	-90.00	-1,580.67	5,903.39	3,038.41	2,854.20	184.22	16.494		
11,600.00	7,870.00	7,815.00	7,815.00	62.84	135.42	-90.00	-1,580.67	5,903.39	3,024.84	2,839.64	185.20	16.333		
11,700.00	7,870.00	7,815.00	7,815.00	63.25	135.42	-90.00	-1,580.67	5,903.39	3,014.53	2,828.16	186.36	16.176		
11,800.00	7,870.00	7,815.00	7,815.00	63.76	135.42	-90.00	-1,580.67	5,903.39	3,007.50	2,819.82	187.68	16.025		
11,900.00	7,870.00	7,815.00	7,815.00	64.34	135.42	-90.00	-1,580.67	5,903.39	3,003.79	2,814.65	189.14	15.881		
11,961.51	7,870.00	7,815.00	7,815.00	64.74	135.42	-90.00	-1,580.67	5,903.39	3,003.16	2,813.06	190.10	15.798 CC		
12,000.00	7,870.00	7,815.00	7,815.00	65.01	135.42	-90.00	-1,580.67	5,903.39	3,003.41	2,812.69	190.72	15.748 ES		
12,100.00	7,870.00	7,815.00	7,815.00	65.77	135.42	-90.00	-1,580.67	5,903.39	3,006.35	2,813.95	192.40	15.625		
12,200.00	7,870.00	7,815.00	7,815.00	66.61	135.42	-90.00	-1,580.67	5,903.39	3,012.62	2,818.45	194.17	15.516		
12,300.00	7,870.00	7,815.00	7,815.00	67.51	135.42	-90.00	-1,580.67	5,903.39	3,022.18	2,826.19	195.99	15.420		
12,400.00	7,870.00	7,815.00	7,815.00	68.49	135.42	-90.00	-1,580.67	5,903.39	3,035.00	2,837.14	197.86	15.339		
12,500.00	7,870.00	7,815.00	7,815.00	69.52	135.42	-90.00	-1,580.67	5,903.39	3,051.06	2,851.30	199.75	15.274		
12,600.00	7,870.00	7,815.00	7,815.00	70.61	135.42	-90.00	-1,580.67	5,903.39	3,070.28	2,868.63	201.66	15.225		
12,700.00	7,870.00	7,815.00	7,815.00	71.75	135.42	-90.00	-1,580.67	5,903.39	3,092.63	2,889.07	203.56	15.193		
12,800.00	7,870.00	7,815.00	7,815.00	72.93	135.42	-90.00	-1,580.67	5,903.39	3,118.02	2,912.58	205.44	15.177 SF		
12,900.00	7,870.00	7,815.00	7,815.00	74.14	135.42	-90.00	-1,580.67	5,903.39	3,146.39	2,939.10	207.29	15.179		
13,000.00	7,870.00	7,815.00	7,815.00	75.39	135.42	-90.00	-1,580.67	5,903.39	3,177.65	2,968.54	209.10	15.197		
13,100.00	7,870.00	7,815.00	7,815.00	76.67	135.42	-90.00	-1,580.67	5,903.39	3,211.72	3,000.85	210.87	15.231		
13,200.00	7,870.00	7,815.00	7,815.00	77.98	135.42	-90.00	-1,580.67	5,903.39	3,248.51	3,035.93	212.59	15.281		
13,300.00	7,870.00	7,815.00	7,815.00	79.31	135.42	-90.00	-1,580.67	5,903.39	3,287.94	3,073.69	214.25	15.347		
13,400.00	7,870.00	7,815.00	7,815.00	80.67	135.42	-90.00	-1,580.67	5,903.39	3,329.90	3,114.06	215.84	15.427		
13,500.00	7,870.00	7,815.00	7,815.00	82.04	135.42	-90.00	-1,580.67	5,903.39	3,374.31	3,156.93	217.38	15.523		
13,600.00	7,870.00	7,815.00	7,815.00	83.43	135.42	-90.00	-1,580.67	5,903.39	3,421.06	3,202.21	218.85	15.632		
13,700.00	7,870.00	7,815.00	7,815.00	84.84	135.42	-90.00	-1,580.67	5,903.39	3,470.06	3,249.81	220.25	15.755		
13,800.00	7,870.00	7,815.00	7,815.00	86.27	135.42	-90.00	-1,580.67	5,903.39	3,521.23	3,299.64	221.58	15.891		
13,900.00	7,870.00	7,815.00	7,815.00	87.71	135.42	-90.00	-1,580.67	5,903.39	3,574.46	3,351.60	222.85	16.039		
14,000.00	7,870.00	7,815.00	7,815.00	89.16	135.42	-90.00	-1,580.67	5,903.39	3,629.66	3,405.60	224.06	16.199		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,870.00	7,815.00	7,815.00	90.63	135.42	-90.00	-1,580.67	5,903.39	3,686.75	3,461.55	225.20	16.371		
14,200.00	7,870.00	7,815.00	7,815.00	92.10	135.42	-90.00	-1,580.67	5,903.39	3,745.64	3,519.35	226.29	16.553		
14,300.00	7,870.00	7,815.00	7,815.00	93.59	135.42	-90.00	-1,580.67	5,903.39	3,806.25	3,578.94	227.31	16.745		
14,400.00	7,870.00	7,815.00	7,815.00	95.09	135.42	-90.00	-1,580.67	5,903.39	3,868.49	3,640.22	228.27	16.947		
14,500.00	7,870.00	7,815.00	7,815.00	96.60	135.42	-90.00	-1,580.67	5,903.39	3,932.29	3,703.11	229.19	17.158		
14,600.00	7,870.00	7,815.00	7,815.00	98.11	135.42	-90.00	-1,580.67	5,903.39	3,997.58	3,767.53	230.04	17.377		
14,700.00	7,870.00	7,815.00	7,815.00	99.64	135.42	-90.00	-1,580.67	5,903.39	4,064.27	3,833.42	230.85	17.605		
14,800.00	7,870.00	7,815.00	7,815.00	101.17	135.42	-90.00	-1,580.67	5,903.39	4,132.31	3,900.70	231.62	17.841		
14,900.00	7,870.00	7,815.00	7,815.00	102.71	135.42	-90.00	-1,580.67	5,903.39	4,201.63	3,969.30	232.33	18.085		
15,000.00	7,870.00	7,815.00	7,815.00	104.26	135.42	-90.00	-1,580.67	5,903.39	4,272.17	4,039.16	233.01	18.335		
15,100.00	7,870.00	7,815.00	7,815.00	105.82	135.42	-90.00	-1,580.67	5,903.39	4,343.86	4,110.22	233.64	18.592		
15,200.00	7,870.00	7,815.00	7,815.00	107.38	135.42	-90.00	-1,580.67	5,903.39	4,416.65	4,182.41	234.24	18.855		
15,300.00	7,870.00	7,815.00	7,815.00	108.95	135.42	-90.00	-1,580.67	5,903.39	4,490.49	4,255.69	234.80	19.125		
15,400.00	7,870.00	7,815.00	7,815.00	110.52	135.42	-90.00	-1,580.67	5,903.39	4,565.33	4,330.00	235.33	19.400		
15,500.00	7,870.00	7,815.00	7,815.00	112.10	135.42	-90.00	-1,580.67	5,903.39	4,641.11	4,405.29	235.82	19.681		
15,600.00	7,870.00	7,815.00	7,815.00	113.69	135.42	-90.00	-1,580.67	5,903.39	4,717.80	4,481.51	236.29	19.966		
15,700.00	7,870.00	7,815.00	7,815.00	115.28	135.42	-90.00	-1,580.67	5,903.39	4,795.34	4,558.62	236.72	20.257		
15,800.00	7,870.00	7,815.00	7,815.00	116.87	135.42	-90.00	-1,580.67	5,903.39	4,873.71	4,636.57	237.14	20.552		
15,900.00	7,870.00	7,815.00	7,815.00	118.47	135.42	-90.00	-1,580.67	5,903.39	4,952.85	4,715.33	237.52	20.852		
16,000.00	7,870.00	7,815.00	7,815.00	120.07	135.42	-90.00	-1,580.67	5,903.39	5,032.73	4,794.85	237.89	21.156		
16,100.00	7,870.00	7,815.00	7,815.00	121.68	135.42	-90.00	-1,580.67	5,903.39	5,113.33	4,875.10	238.23	21.464		
16,200.00	7,870.00	7,815.00	7,815.00	123.30	135.42	-90.00	-1,580.67	5,903.39	5,194.59	4,956.04	238.55	21.776		
16,300.00	7,870.00	7,815.00	7,815.00	124.91	135.42	-90.00	-1,580.67	5,903.39	5,276.50	5,037.65	238.85	22.091		
16,400.00	7,870.00	7,815.00	7,815.00	126.53	135.42	-90.00	-1,580.67	5,903.39	5,359.03	5,119.89	239.14	22.410		
16,500.00	7,870.00	7,815.00	7,815.00	128.16	135.42	-90.00	-1,580.67	5,903.39	5,442.14	5,202.73	239.41	22.732		
16,600.00	7,870.00	7,815.00	7,815.00	129.79	135.42	-90.00	-1,580.67	5,903.39	5,525.81	5,286.15	239.66	23.057		
16,700.00	7,870.00	7,815.00	7,815.00	131.42	135.42	-90.00	-1,580.67	5,903.39	5,610.02	5,370.12	239.90	23.385		
16,800.00	7,870.00	7,815.00	7,815.00	133.05	135.42	-90.00	-1,580.67	5,903.39	5,694.73	5,454.61	240.12	23.716		
16,900.00	7,870.00	7,815.00	7,815.00	134.69	135.42	-90.00	-1,580.67	5,903.39	5,779.94	5,539.60	240.34	24.049		
17,000.00	7,870.00	7,815.00	7,815.00	136.33	135.42	-90.00	-1,580.67	5,903.39	5,865.61	5,625.08	240.54	24.386		
17,100.00	7,870.00	7,815.00	7,815.00	137.97	135.42	-90.00	-1,580.67	5,903.39	5,951.73	5,711.01	240.72	24.724		
17,200.00	7,870.00	7,815.00	7,815.00	139.62	135.42	-90.00	-1,580.67	5,903.39	6,038.28	5,797.37	240.90	25.065		
17,300.00	7,870.00	7,815.00	7,815.00	141.27	135.42	-90.00	-1,580.67	5,903.39	6,125.23	5,884.16	241.07	25.409		
17,400.00	7,870.00	7,815.00	7,815.00	142.92	135.42	-90.00	-1,580.67	5,903.39	6,212.58	5,971.35	241.23	25.754		
17,500.00	7,870.00	7,815.00	7,815.00	144.58	135.42	-90.00	-1,580.67	5,903.39	6,300.31	6,058.93	241.38	26.101		
17,600.00	7,870.00	7,815.00	7,815.00	146.23	135.42	-90.00	-1,580.67	5,903.39	6,388.39	6,146.87	241.52	26.451		
17,700.00	7,870.00	7,815.00	7,815.00	147.89	135.42	-90.00	-1,580.67	5,903.39	6,476.83	6,235.17	241.66	26.802		
17,800.00	7,870.00	7,815.00	7,815.00	149.56	135.42	-90.00	-1,580.67	5,903.39	6,565.59	6,323.81	241.78	27.155		
17,900.00	7,870.00	7,815.00	7,815.00	151.22	135.42	-90.00	-1,580.67	5,903.39	6,654.67	6,412.77	241.90	27.510		
18,000.00	7,870.00	7,815.00	7,815.00	152.89	135.42	-90.00	-1,580.67	5,903.39	6,744.06	6,502.04	242.02	27.866		
18,100.00	7,870.00	7,815.00	7,815.00	154.55	135.42	-90.00	-1,580.67	5,903.39	6,833.74	6,591.62	242.13	28.224		
18,200.00	7,870.00	7,815.00	7,815.00	156.22	135.42	-90.00	-1,580.67	5,903.39	6,923.71	6,681.48	242.23	28.583		
18,300.00	7,870.00	7,815.00	7,815.00	157.90	135.42	-90.00	-1,580.67	5,903.39	7,013.95	6,771.62	242.33	28.944		
18,400.00	7,870.00	7,815.00	7,815.00	159.57	135.42	-90.00	-1,580.67	5,903.39	7,104.45	6,862.03	242.42	29.306		
18,500.00	7,870.00	7,815.00	7,815.00	161.25	135.42	-90.00	-1,580.67	5,903.39	7,195.20	6,952.69	242.51	29.670		
18,600.00	7,870.00	7,815.00	7,815.00	162.93	135.42	-90.00	-1,580.67	5,903.39	7,286.19	7,043.60	242.59	30.035		
18,700.00	7,870.00	7,815.00	7,815.00	164.60	135.42	-90.00	-1,580.67	5,903.39	7,377.42	7,134.74	242.67	30.401		
18,797.52	7,870.00	7,815.00	7,815.00	166.24	135.42	-90.00	-1,580.67	5,903.39	7,466.59	7,223.85	242.75	30.759		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	114.88	-2,506.81	5,406.56	5,959.64					
100.00	100.00	51.00	51.00	0.13	0.39	114.88	-2,506.81	5,406.56	5,959.44	5,958.92	0.53	N/A		
200.00	200.00	151.00	151.00	0.49	1.66	114.88	-2,506.81	5,406.56	5,959.44	5,957.29	2.15	2,770.593		
300.00	300.00	251.00	251.00	0.85	3.40	114.88	-2,506.81	5,406.56	5,959.44	5,955.19	4.25	1,400.652		
400.00	400.00	351.00	351.00	1.21	5.15	114.88	-2,506.81	5,406.56	5,959.44	5,953.08	6.36	937.231		
500.00	500.00	451.00	451.00	1.57	6.89	114.88	-2,506.81	5,406.56	5,959.44	5,950.98	8.46	704.229		
600.00	600.00	551.00	551.00	1.93	8.64	114.88	-2,506.81	5,406.56	5,959.44	5,948.88	10.57	564.012		
700.00	700.00	651.00	651.00	2.29	10.38	114.88	-2,506.81	5,406.56	5,959.44	5,946.77	12.67	470.360		
800.00	800.00	751.00	751.00	2.64	12.13	114.88	-2,506.81	5,406.56	5,959.44	5,944.67	14.77	403.380		
900.00	900.00	851.00	851.00	3.00	13.88	114.88	-2,506.81	5,406.56	5,959.44	5,942.56	16.88	353.098		
1,000.00	1,000.00	951.00	951.00	3.36	15.62	114.88	-2,506.81	5,406.56	5,959.44	5,940.46	18.98	313.963		
1,100.00	1,099.98	1,050.98	1,050.98	3.72	17.37	60.28	-2,506.81	5,406.56	5,958.58	5,937.49	21.08	282.652		
1,200.00	1,199.84	1,150.84	1,150.84	4.07	19.11	60.37	-2,506.81	5,406.56	5,955.98	5,932.81	23.18	256.986		
1,300.00	1,299.45	1,250.45	1,250.45	4.43	20.85	60.52	-2,506.81	5,406.56	5,951.67	5,926.40	25.27	235.514		
1,400.00	1,398.70	1,349.70	1,349.70	4.80	22.58	60.73	-2,506.81	5,406.56	5,945.66	5,918.29	27.37	217.268		
1,500.00	1,497.47	1,448.47	1,448.47	5.18	24.30	60.99	-2,506.81	5,406.56	5,937.97	5,908.51	29.46	201.549		
1,600.00	1,595.62	1,546.62	1,546.62	5.57	26.02	61.32	-2,506.81	5,406.56	5,928.63	5,897.07	31.56	187.845		
1,700.00	1,693.06	1,644.06	1,644.06	6.00	27.72	61.70	-2,506.81	5,406.56	5,917.68	5,884.01	33.67	175.770		
1,800.00	1,789.64	1,740.64	1,740.64	6.45	29.40	62.13	-2,506.81	5,406.56	5,905.17	5,869.38	35.78	165.032		
1,900.00	1,885.27	1,836.27	1,836.27	6.94	31.07	62.63	-2,506.81	5,406.56	5,891.13	5,853.22	37.91	155.403		
2,000.00	1,979.82	1,930.82	1,930.82	7.47	32.72	63.18	-2,506.81	5,406.56	5,875.64	5,835.59	40.05	146.706		
2,100.00	2,073.17	2,024.17	2,024.17	8.05	34.35	63.78	-2,506.81	5,406.56	5,858.74	5,816.53	42.21	138.800		
2,200.00	2,165.21	2,116.21	2,116.21	8.67	35.96	64.44	-2,506.81	5,406.56	5,840.52	5,796.13	44.39	131.571		
2,300.00	2,255.84	2,206.84	2,206.84	9.35	37.54	65.14	-2,506.81	5,406.56	5,821.03	5,774.44	46.60	124.928		
2,400.00	2,344.94	2,304.06	2,295.94	10.09	39.24	65.90	-2,506.81	5,406.56	5,800.38	5,751.41	48.97	118.454		
2,500.00	2,432.39	2,383.39	2,383.39	10.89	40.62	66.70	-2,506.81	5,406.56	5,778.63	5,727.54	51.08	113.120		
2,519.29	2,449.07	2,400.07	2,400.07	11.05	40.91	66.86	-2,506.81	5,406.56	5,774.32	5,722.79	51.52	112.071		
2,600.00	2,518.69	2,469.69	2,469.69	11.74	42.13	67.19	-2,506.81	5,406.56	5,756.31	5,702.94	53.37	107.854		
2,700.00	2,604.95	2,555.95	2,555.95	12.62	43.63	67.60	-2,506.81	5,406.56	5,734.32	5,678.64	55.69	102.976		
2,800.00	2,691.22	2,642.22	2,642.22	13.52	45.14	68.02	-2,506.81	5,406.56	5,712.70	5,654.68	58.02	98.454		
2,900.00	2,777.48	2,728.48	2,728.48	14.43	46.64	68.43	-2,506.81	5,406.56	5,691.45	5,631.07	60.38	94.257		
3,000.00	2,863.75	2,814.75	2,814.75	15.35	48.15	68.85	-2,506.81	5,406.56	5,670.56	5,607.81	62.76	90.356		
3,100.00	2,950.01	2,901.01	2,901.01	16.28	49.65	69.27	-2,506.81	5,406.56	5,650.06	5,584.91	65.15	86.724		
3,200.00	3,036.27	2,987.27	2,987.27	17.22	51.16	69.70	-2,506.81	5,406.56	5,629.93	5,562.37	67.56	83.338		
3,300.00	3,122.54	3,073.54	3,073.54	18.17	52.67	70.12	-2,506.81	5,406.56	5,610.19	5,540.21	69.97	80.176		
3,400.00	3,208.80	3,159.80	3,159.80	19.13	54.17	70.55	-2,506.81	5,406.56	5,590.83	5,518.43	72.40	77.219		
3,500.00	3,295.07	3,246.07	3,246.07	20.09	55.68	70.98	-2,506.81	5,406.56	5,571.87	5,497.02	74.84	74.448		
3,600.00	3,381.33	3,332.33	3,332.33	21.05	57.18	71.42	-2,506.81	5,406.56	5,553.30	5,476.01	77.29	71.849		
3,700.00	3,467.59	3,418.59	3,418.59	22.02	58.69	71.85	-2,506.81	5,406.56	5,535.13	5,455.38	79.75	69.407		
3,800.00	3,553.86	3,504.86	3,504.86	22.99	60.19	72.29	-2,506.81	5,406.56	5,517.37	5,435.15	82.22	67.109		
3,900.00	3,640.12	3,608.88	3,591.12	23.97	62.01	72.73	-2,506.81	5,406.56	5,500.01	5,415.01	85.00	64.707		
4,000.00	3,726.38	3,677.38	3,677.38	24.95	63.21	73.17	-2,506.81	5,406.56	5,483.06	5,395.90	87.17	62.902		
4,100.00	3,812.65	3,763.65	3,763.65	25.93	64.71	73.61	-2,506.81	5,406.56	5,466.54	5,376.88	89.66	60.972		
4,200.00	3,898.91	3,849.91	3,849.91	26.91	66.22	74.06	-2,506.81	5,406.56	5,450.43	5,358.28	92.15	59.148		
4,300.00	3,985.18	3,936.18	3,936.18	27.90	67.72	74.51	-2,506.81	5,406.56	5,434.74	5,340.09	94.65	57.421		
4,400.00	4,071.44	4,022.44	4,022.44	28.88	69.23	74.96	-2,506.81	5,406.56	5,419.48	5,322.33	97.15	55.784		
4,500.00	4,157.70	4,108.70	4,108.70	29.87	70.73	75.41	-2,506.81	5,406.56	5,404.65	5,304.99	99.66	54.230		
4,600.00	4,243.97	4,205.03	4,194.97	30.86	72.41	75.86	-2,506.81	5,406.56	5,390.25	5,287.90	102.35	52.665		
4,700.00	4,330.23	4,281.23	4,281.23	31.85	73.74	76.32	-2,506.81	5,406.56	5,376.30	5,271.60	104.69	51.353		
4,800.00	4,416.49	4,367.49	4,367.49	32.84	75.25	76.77	-2,506.81	5,406.56	5,362.78	5,255.56	107.21	50.019		
4,900.00	4,502.76	4,453.76	4,453.76	33.84	76.76	77.23	-2,506.81	5,406.56	5,349.70	5,239.97	109.74	48.749		
5,000.00	4,589.02	4,540.02	4,540.02	34.83	78.26	77.69	-2,506.81	5,406.56	5,337.08	5,224.81	112.27	47.539		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,675.29	4,626.29	4,626.29	35.82	79.77	78.16	-2,506.81	5,406.56	5,324.90	5,210.10	114.80	46.384		
5,200.00	4,761.55	4,712.55	4,712.55	36.82	81.27	78.62	-2,506.81	5,406.56	5,313.18	5,195.85	117.34	45.282		
5,300.00	4,847.81	4,801.19	4,798.81	37.82	82.82	79.08	-2,506.81	5,406.56	5,301.92	5,182.00	119.91	44.214		
5,400.00	4,934.08	4,885.08	4,885.08	38.81	84.28	79.55	-2,506.81	5,406.56	5,291.11	5,168.70	122.41	43.224		
5,500.00	5,020.34	4,971.34	4,971.34	39.81	85.79	80.02	-2,506.81	5,406.56	5,280.77	5,155.82	124.95	42.262		
5,600.00	5,106.60	5,057.60	5,057.60	40.81	87.29	80.49	-2,506.81	5,406.56	5,270.89	5,143.39	127.50	41.342		
5,700.00	5,192.87	5,143.87	5,143.87	41.81	88.80	80.96	-2,506.81	5,406.56	5,261.48	5,131.44	130.04	40.461		
5,800.00	5,279.13	5,230.13	5,230.13	42.81	90.31	81.43	-2,506.81	5,406.56	5,252.54	5,119.95	132.58	39.617		
5,900.00	5,365.40	5,316.40	5,316.40	43.81	91.81	81.90	-2,506.81	5,406.56	5,244.07	5,108.94	135.13	38.807		
6,000.00	5,451.66	5,402.66	5,402.66	44.81	93.32	82.38	-2,506.81	5,406.56	5,236.08	5,098.40	137.68	38.032		
6,100.00	5,537.92	5,488.92	5,488.92	45.81	94.82	82.85	-2,506.81	5,406.56	5,228.56	5,088.34	140.22	37.287		
6,200.00	5,624.19	5,575.19	5,575.19	46.81	96.33	83.33	-2,506.81	5,406.56	5,221.53	5,078.76	142.77	36.573		
6,300.00	5,710.45	5,661.45	5,661.45	47.81	97.83	83.81	-2,506.81	5,406.56	5,214.97	5,069.66	145.32	35.887		
6,400.00	5,796.72	5,747.72	5,747.72	48.81	99.34	84.28	-2,506.81	5,406.56	5,208.90	5,061.04	147.86	35.228		
6,500.00	5,882.98	5,833.98	5,833.98	49.81	100.84	84.76	-2,506.81	5,406.56	5,203.31	5,052.91	150.41	34.595		
6,600.00	5,969.24	5,920.24	5,920.24	50.82	102.35	85.24	-2,506.81	5,406.56	5,198.21	5,045.26	152.95	33.987		
6,700.00	6,055.51	6,006.51	6,006.51	51.82	103.86	85.72	-2,506.81	5,406.56	5,193.60	5,038.11	155.49	33.401		
6,800.00	6,141.77	6,107.23	6,107.23	52.82	105.61	86.20	-2,506.81	5,406.56	5,189.48	5,031.19	158.28	32.786		
6,900.00	6,228.03	6,179.03	6,179.03	53.83	106.87	86.68	-2,506.81	5,406.56	5,185.84	5,025.27	160.57	32.297		
7,000.00	6,314.30	6,265.30	6,265.30	54.83	108.37	87.17	-2,506.81	5,406.56	5,182.70	5,019.59	163.11	31.775		
7,100.00	6,400.56	6,351.56	6,351.56	55.83	109.88	87.65	-2,506.81	5,406.56	5,180.05	5,014.41	165.64	31.273		
7,200.00	6,486.83	6,437.83	6,437.83	56.84	111.38	88.13	-2,506.81	5,406.56	5,177.89	5,009.72	168.17	30.790		
7,300.00	6,573.09	6,524.09	6,524.09	57.84	112.89	88.61	-2,506.81	5,406.56	5,176.22	5,005.53	170.70	30.324		
7,400.00	6,659.35	6,610.35	6,610.35	58.84	114.40	89.10	-2,506.81	5,406.56	5,175.05	5,001.83	173.22	29.876		
7,500.00	6,745.62	6,703.38	6,696.62	59.85	116.02	89.58	-2,506.81	5,406.56	5,174.38	4,998.52	175.86	29.423		
7,586.88	6,820.56	6,771.56	6,771.56	60.72	117.21	90.00	-2,506.81	5,406.56	5,174.19	4,996.26	177.93	29.080		
7,600.00	6,831.88	6,782.88	6,782.88	60.85	117.41	90.06	-2,506.81	5,406.56	5,174.19	4,995.94	178.26	29.027		
7,700.00	6,918.14	6,869.14	6,869.14	61.86	118.91	90.55	-2,506.81	5,406.56	5,174.51	4,993.74	180.77	28.625		
7,800.00	7,004.41	6,955.41	6,955.41	62.86	120.42	91.03	-2,506.81	5,406.56	5,175.31	4,992.03	183.28	28.237		
7,900.00	7,090.67	7,041.67	7,041.67	63.87	121.92	91.51	-2,506.81	5,406.56	5,176.61	4,990.83	185.78	27.864		
8,000.00	7,176.94	7,127.94	7,127.94	64.87	123.43	92.00	-2,506.81	5,406.56	5,178.41	4,990.13	188.28	27.504		
8,027.52	7,200.68	7,151.68	7,151.68	65.15	123.84	92.13	-2,506.81	5,406.56	5,178.99	4,990.02	188.97	27.407		
8,050.00	7,220.18	7,171.18	7,171.18	65.37	124.18	88.84	-2,506.81	5,406.56	5,179.11	4,989.58	189.53	27.326		
8,100.00	7,264.25	7,215.25	7,215.25	65.85	124.95	80.44	-2,506.81	5,406.56	5,176.70	4,985.93	190.76	27.137		
8,150.00	7,308.99	7,259.99	7,259.99	66.28	125.73	70.68	-2,506.81	5,406.56	5,170.60	4,978.62	191.98	26.934		
8,200.00	7,354.07	7,305.07	7,305.07	66.67	126.52	60.02	-2,506.81	5,406.56	5,160.82	4,967.67	193.15	26.719		
8,250.00	7,399.14	7,350.14	7,350.14	67.02	127.31	49.16	-2,506.81	5,406.56	5,147.43	4,953.14	194.29	26.494		
8,300.00	7,443.85	7,405.15	7,394.85	67.32	128.27	38.79	-2,506.81	5,406.56	5,130.50	4,934.95	195.55	26.236		
8,350.00	7,487.88	7,438.88	7,438.88	67.56	128.86	29.32	-2,506.81	5,406.56	5,110.13	4,913.74	196.39	26.021		
8,400.00	7,530.87	7,481.87	7,481.87	67.75	129.61	20.86	-2,506.81	5,406.56	5,086.47	4,889.13	197.34	25.775		
8,450.00	7,572.51	7,523.51	7,523.51	67.90	130.33	13.30	-2,506.81	5,406.56	5,059.67	4,861.45	198.22	25.526		
8,500.00	7,612.48	7,563.48	7,563.48	68.00	131.03	6.40	-2,506.81	5,406.56	5,029.94	4,830.91	199.02	25.273		
8,550.00	7,650.47	7,601.47	7,601.47	68.05	131.69	-0.12	-2,506.81	5,406.56	4,997.48	4,797.74	199.74	25.020		
8,600.00	7,686.20	7,637.20	7,637.20	68.06	132.32	-6.52	-2,506.81	5,406.56	4,962.56	4,762.18	200.38	24.766		
8,650.00	7,719.39	7,670.39	7,670.39	68.03	132.90	-13.08	-2,506.81	5,406.56	4,925.43	4,724.50	200.93	24.514		
8,700.00	7,749.79	7,700.79	7,700.79	67.97	133.43	-20.04	-2,506.81	5,406.56	4,886.38	4,685.00	201.38	24.264		
8,750.00	7,777.17	7,728.17	7,728.17	67.87	133.90	-27.62	-2,506.81	5,406.56	4,845.72	4,643.98	201.74	24.019		
8,800.00	7,801.32	7,752.32	7,752.32	67.74	134.33	-35.97	-2,506.81	5,406.56	4,803.79	4,601.78	202.01	23.780		
8,850.00	7,822.06	7,773.06	7,773.06	67.59	134.69	-45.10	-2,506.81	5,406.56	4,760.91	4,558.73	202.19	23.547		
8,900.00	7,839.23	7,809.77	7,790.23	67.41	135.33	-54.81	-2,506.81	5,406.56	4,717.45	4,514.85	202.60	23.284		
8,950.00	7,852.69	7,803.69	7,803.69	67.22	135.22	-64.68	-2,506.81	5,406.56	4,673.75	4,471.51	202.25	23.109		
9,000.00	7,862.35	7,813.35	7,813.35	67.00	135.39	-74.16	-2,506.81	5,406.56	4,630.19	4,428.06	202.14	22.906		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,050.00	7,868.14	7,819.14	7,819.14	66.78	135.49	-82.76	-2,506.81	5,406.56	4,587.13	4,385.19	201.93	22.716		
9,098.65	7,870.00	7,821.00	7,821.00	66.55	135.52	-90.00	-2,506.81	5,406.56	4,546.05	4,344.39	201.65	22.544		
9,100.00	7,870.00	7,821.00	7,821.00	66.55	135.52	-90.00	-2,506.81	5,406.56	4,544.92	4,343.28	201.64	22.540		
9,200.00	7,870.00	7,821.00	7,821.00	66.09	135.52	-90.00	-2,506.81	5,406.56	4,461.88	4,260.92	200.97	22.202		
9,300.00	7,870.00	7,821.00	7,821.00	65.65	135.52	-90.00	-2,506.81	5,406.56	4,379.56	4,179.28	200.28	21.867		
9,400.00	7,870.00	7,821.00	7,821.00	65.24	135.52	-90.00	-2,506.81	5,406.56	4,297.99	4,098.42	199.57	21.537		
9,500.00	7,870.00	7,821.00	7,821.00	64.85	135.52	-90.00	-2,506.81	5,406.56	4,217.21	4,018.37	198.83	21.210		
9,600.00	7,870.00	7,821.00	7,821.00	64.48	135.52	-90.00	-2,506.81	5,406.56	4,137.27	3,939.18	198.08	20.886		
9,700.00	7,870.00	7,821.00	7,821.00	64.13	135.52	-90.00	-2,506.81	5,406.56	4,058.21	3,860.90	197.32	20.567		
9,800.00	7,870.00	7,821.00	7,821.00	63.80	135.52	-90.00	-2,506.81	5,406.56	3,980.11	3,783.57	196.53	20.252		
9,900.00	7,870.00	7,821.00	7,821.00	63.50	135.52	-90.00	-2,506.81	5,406.56	3,903.00	3,707.26	195.73	19.940		
10,000.00	7,870.00	7,821.00	7,821.00	63.22	135.52	-90.00	-2,506.81	5,406.56	3,826.95	3,632.03	194.92	19.633		
10,100.00	7,870.00	7,821.00	7,821.00	62.96	135.52	-90.00	-2,506.81	5,406.56	3,752.02	3,557.92	194.10	19.331		
10,200.00	7,870.00	7,821.00	7,821.00	62.72	135.52	-90.00	-2,506.81	5,406.56	3,678.29	3,485.02	193.26	19.032		
10,300.00	7,870.00	7,821.00	7,821.00	62.50	135.52	-90.00	-2,506.81	5,406.56	3,605.82	3,413.39	192.43	18.738		
10,400.00	7,870.00	7,821.00	7,821.00	62.31	135.52	-90.00	-2,506.81	5,406.56	3,534.69	3,343.10	191.60	18.449		
10,500.00	7,870.00	7,821.00	7,821.00	62.15	135.52	-90.00	-2,506.81	5,406.56	3,465.00	3,274.22	190.77	18.163		
10,600.00	7,870.00	7,821.00	7,821.00	62.01	135.52	-90.00	-2,506.81	5,406.56	3,396.81	3,206.85	189.96	17.882		
10,700.00	7,870.00	7,821.00	7,821.00	61.90	135.52	-90.00	-2,506.81	5,406.56	3,330.24	3,141.06	189.17	17.604		
10,800.00	7,870.00	7,821.00	7,821.00	61.82	135.52	-90.00	-2,506.81	5,406.56	3,265.36	3,076.94	188.42	17.330		
10,900.00	7,870.00	7,821.00	7,821.00	61.78	135.52	-90.00	-2,506.81	5,406.56	3,202.30	3,014.59	187.71	17.060		
11,000.00	7,870.00	7,821.00	7,821.00	61.77	135.52	-90.00	-2,506.81	5,406.56	3,141.16	2,954.09	187.06	16.792		
11,100.00	7,870.00	7,821.00	7,821.00	61.81	135.52	-90.00	-2,506.81	5,406.56	3,082.05	2,895.56	186.49	16.527		
11,200.00	7,870.00	7,821.00	7,821.00	61.90	135.52	-90.00	-2,506.81	5,406.56	3,025.09	2,839.08	186.00	16.264		
11,300.00	7,870.00	7,821.00	7,821.00	62.03	135.52	-90.00	-2,506.81	5,406.56	2,970.40	2,784.78	185.63	16.002		
11,400.00	7,870.00	7,821.00	7,821.00	62.23	135.52	-90.00	-2,506.81	5,406.56	2,918.12	2,732.75	185.37	15.742		
11,500.00	7,870.00	7,821.00	7,821.00	62.50	135.52	-90.00	-2,506.81	5,406.56	2,868.37	2,683.11	185.26	15.483		
11,600.00	7,870.00	7,821.00	7,821.00	62.84	135.52	-90.00	-2,506.81	5,406.56	2,821.29	2,635.98	185.31	15.224		
11,700.00	7,870.00	7,821.00	7,821.00	63.25	135.52	-90.00	-2,506.81	5,406.56	2,777.02	2,591.48	185.54	14.967		
11,800.00	7,870.00	7,821.00	7,821.00	63.76	135.52	-90.00	-2,506.81	5,406.56	2,735.69	2,549.73	185.96	14.711		
11,900.00	7,870.00	7,821.00	7,821.00	64.34	135.52	-90.00	-2,506.81	5,406.56	2,697.43	2,510.85	186.58	14.458		
12,000.00	7,870.00	7,821.00	7,821.00	65.01	135.52	-90.00	-2,506.81	5,406.56	2,662.38	2,474.98	187.40	14.207		
12,100.00	7,870.00	7,821.00	7,821.00	65.77	135.52	-90.00	-2,506.81	5,406.56	2,630.66	2,442.24	188.42	13.961		
12,200.00	7,870.00	7,821.00	7,821.00	66.61	135.52	-90.00	-2,506.81	5,406.56	2,602.41	2,412.76	189.65	13.722		
12,300.00	7,870.00	7,821.00	7,821.00	67.51	135.52	-90.00	-2,506.81	5,406.56	2,577.72	2,386.65	191.07	13.491		
12,400.00	7,870.00	7,821.00	7,821.00	68.49	135.52	-90.00	-2,506.81	5,406.56	2,556.72	2,364.05	192.67	13.270		
12,500.00	7,870.00	7,821.00	7,821.00	69.52	135.52	-90.00	-2,506.81	5,406.56	2,539.48	2,345.06	194.42	13.062		
12,600.00	7,870.00	7,821.00	7,821.00	70.61	135.52	-90.00	-2,506.81	5,406.56	2,526.08	2,329.77	196.31	12.868		
12,700.00	7,870.00	7,821.00	7,821.00	71.75	135.52	-90.00	-2,506.81	5,406.56	2,516.59	2,318.27	198.32	12.690		
12,800.00	7,870.00	7,821.00	7,821.00	72.93	135.52	-90.00	-2,506.81	5,406.56	2,511.05	2,310.64	200.41	12.530		
12,889.31	7,870.00	7,821.00	7,821.00	74.01	135.52	-90.00	-2,506.81	5,406.56	2,509.46	2,307.12	202.34	12.402 CC		
12,900.00	7,870.00	7,821.00	7,821.00	74.14	135.52	-90.00	-2,506.81	5,406.56	2,509.48	2,306.91	202.57	12.388 ES		
13,000.00	7,870.00	7,821.00	7,821.00	75.39	135.52	-90.00	-2,506.81	5,406.56	2,511.90	2,307.13	204.76	12.267		
13,100.00	7,870.00	7,821.00	7,821.00	76.67	135.52	-90.00	-2,506.81	5,406.56	2,518.29	2,311.31	206.97	12.167		
13,200.00	7,870.00	7,821.00	7,821.00	77.98	135.52	-90.00	-2,506.81	5,406.56	2,528.62	2,319.44	209.18	12.088		
13,300.00	7,870.00	7,821.00	7,821.00	79.31	135.52	-90.00	-2,506.81	5,406.56	2,542.84	2,331.49	211.35	12.031		
13,400.00	7,870.00	7,821.00	7,821.00	80.67	135.52	-90.00	-2,506.81	5,406.56	2,560.89	2,347.41	213.48	11.996		
13,500.00	7,870.00	7,821.00	7,821.00	82.04	135.52	-90.00	-2,506.81	5,406.56	2,582.69	2,367.14	215.55	11.982 SF		
13,600.00	7,870.00	7,821.00	7,821.00	83.43	135.52	-90.00	-2,506.81	5,406.56	2,608.15	2,390.61	217.55	11.989		
13,700.00	7,870.00	7,821.00	7,821.00	84.84	135.52	-90.00	-2,506.81	5,406.56	2,637.15	2,417.70	219.46	12.017		
13,800.00	7,870.00	7,821.00	7,821.00	86.27	135.52	-90.00	-2,506.81	5,406.56	2,669.59	2,448.31	221.28	12.064		
13,900.00	7,870.00	7,821.00	7,821.00	87.71	135.52	-90.00	-2,506.81	5,406.56	2,705.34	2,482.34	223.00	12.131		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,870.00	7,821.00	7,821.00	89.16	135.52	-90.00	-2,506.81	5,406.56	2,744.27	2,519.64	224.63	12.217		
14,100.00	7,870.00	7,821.00	7,821.00	90.63	135.52	-90.00	-2,506.81	5,406.56	2,786.24	2,560.09	226.15	12.320		
14,200.00	7,870.00	7,821.00	7,821.00	92.10	135.52	-90.00	-2,506.81	5,406.56	2,831.13	2,603.55	227.57	12.441		
14,300.00	7,870.00	7,821.00	7,821.00	93.59	135.52	-90.00	-2,506.81	5,406.56	2,878.79	2,649.89	228.90	12.577		
14,400.00	7,870.00	7,821.00	7,821.00	95.09	135.52	-90.00	-2,506.81	5,406.56	2,929.09	2,698.96	230.12	12.728		
14,500.00	7,870.00	7,821.00	7,821.00	96.60	135.52	-90.00	-2,506.81	5,406.56	2,981.89	2,750.64	231.25	12.894		
14,600.00	7,870.00	7,821.00	7,821.00	98.11	135.52	-90.00	-2,506.81	5,406.56	3,037.07	2,804.78	232.30	13.074		
14,700.00	7,870.00	7,821.00	7,821.00	99.64	135.52	-90.00	-2,506.81	5,406.56	3,094.50	2,861.25	233.25	13.267		
14,800.00	7,870.00	7,821.00	7,821.00	101.17	135.52	-90.00	-2,506.81	5,406.56	3,154.06	2,919.93	234.13	13.471		
14,900.00	7,870.00	7,821.00	7,821.00	102.71	135.52	-90.00	-2,506.81	5,406.56	3,215.62	2,980.69	234.93	13.687		
15,000.00	7,870.00	7,821.00	7,821.00	104.26	135.52	-90.00	-2,506.81	5,406.56	3,279.08	3,043.42	235.66	13.914		
15,100.00	7,870.00	7,821.00	7,821.00	105.82	135.52	-90.00	-2,506.81	5,406.56	3,344.32	3,108.00	236.33	14.151		
15,200.00	7,870.00	7,821.00	7,821.00	107.38	135.52	-90.00	-2,506.81	5,406.56	3,411.25	3,174.32	236.93	14.398		
15,300.00	7,870.00	7,821.00	7,821.00	108.95	135.52	-90.00	-2,506.81	5,406.56	3,479.77	3,242.29	237.48	14.653		
15,400.00	7,870.00	7,821.00	7,821.00	110.52	135.52	-90.00	-2,506.81	5,406.56	3,549.78	3,311.81	237.97	14.917		
15,500.00	7,870.00	7,821.00	7,821.00	112.10	135.52	-90.00	-2,506.81	5,406.56	3,621.20	3,382.78	238.42	15.189		
15,600.00	7,870.00	7,821.00	7,821.00	113.69	135.52	-90.00	-2,506.81	5,406.56	3,693.94	3,455.12	238.82	15.468		
15,700.00	7,870.00	7,821.00	7,821.00	115.28	135.52	-90.00	-2,506.81	5,406.56	3,767.93	3,528.76	239.18	15.754		
15,800.00	7,870.00	7,821.00	7,821.00	116.87	135.52	-90.00	-2,506.81	5,406.56	3,843.11	3,603.60	239.50	16.046		
15,900.00	7,870.00	7,821.00	7,821.00	118.47	135.52	-90.00	-2,506.81	5,406.56	3,919.39	3,679.60	239.79	16.345		
16,000.00	7,870.00	7,821.00	7,821.00	120.07	135.52	-90.00	-2,506.81	5,406.56	3,996.72	3,756.67	240.05	16.649		
16,100.00	7,870.00	7,821.00	7,821.00	121.68	135.52	-90.00	-2,506.81	5,406.56	4,075.03	3,834.75	240.28	16.959		
16,200.00	7,870.00	7,821.00	7,821.00	123.30	135.52	-90.00	-2,506.81	5,406.56	4,154.28	3,913.79	240.49	17.275		
16,300.00	7,870.00	7,821.00	7,821.00	124.91	135.52	-90.00	-2,506.81	5,406.56	4,234.40	3,993.73	240.67	17.595		
16,400.00	7,870.00	7,821.00	7,821.00	126.53	135.52	-90.00	-2,506.81	5,406.56	4,315.35	4,074.53	240.83	17.919		
16,500.00	7,870.00	7,821.00	7,821.00	128.16	135.52	-90.00	-2,506.81	5,406.56	4,397.09	4,156.13	240.97	18.248		
16,600.00	7,870.00	7,821.00	7,821.00	129.79	135.52	-90.00	-2,506.81	5,406.56	4,479.57	4,238.48	241.09	18.581		
16,700.00	7,870.00	7,821.00	7,821.00	131.42	135.52	-90.00	-2,506.81	5,406.56	4,562.75	4,321.56	241.19	18.917		
16,800.00	7,870.00	7,821.00	7,821.00	133.05	135.52	-90.00	-2,506.81	5,406.56	4,646.59	4,405.31	241.29	19.258		
16,900.00	7,870.00	7,821.00	7,821.00	134.69	135.52	-90.00	-2,506.81	5,406.56	4,731.06	4,489.70	241.36	19.601		
17,000.00	7,870.00	7,821.00	7,821.00	136.33	135.52	-90.00	-2,506.81	5,406.56	4,816.13	4,574.70	241.43	19.948		
17,100.00	7,870.00	7,821.00	7,821.00	137.97	135.52	-90.00	-2,506.81	5,406.56	4,901.76	4,660.27	241.48	20.298		
17,200.00	7,870.00	7,821.00	7,821.00	139.62	135.52	-90.00	-2,506.81	5,406.56	4,987.92	4,746.39	241.53	20.651		
17,300.00	7,870.00	7,821.00	7,821.00	141.27	135.52	-90.00	-2,506.81	5,406.56	5,074.60	4,833.03	241.57	21.007		
17,400.00	7,870.00	7,821.00	7,821.00	142.92	135.52	-90.00	-2,506.81	5,406.56	5,161.75	4,920.15	241.60	21.365		
17,500.00	7,870.00	7,821.00	7,821.00	144.58	135.52	-90.00	-2,506.81	5,406.56	5,249.36	5,007.74	241.62	21.726		
17,600.00	7,870.00	7,821.00	7,821.00	146.23	135.52	-90.00	-2,506.81	5,406.56	5,337.41	5,095.78	241.63	22.089		
17,700.00	7,870.00	7,821.00	7,821.00	147.89	135.52	-90.00	-2,506.81	5,406.56	5,425.87	5,184.23	241.64	22.454		
17,800.00	7,870.00	7,821.00	7,821.00	149.56	135.52	-90.00	-2,506.81	5,406.56	5,514.73	5,273.08	241.65	22.822		
17,900.00	7,870.00	7,821.00	7,821.00	151.22	135.52	-90.00	-2,506.81	5,406.56	5,603.96	5,362.31	241.64	23.191		
18,000.00	7,870.00	7,821.00	7,821.00	152.89	135.52	-90.00	-2,506.81	5,406.56	5,693.55	5,451.91	241.64	23.562		
18,100.00	7,870.00	7,821.00	7,821.00	154.55	135.52	-90.00	-2,506.81	5,406.56	5,783.48	5,541.85	241.63	23.935		
18,200.00	7,870.00	7,821.00	7,821.00	156.22	135.52	-90.00	-2,506.81	5,406.56	5,873.73	5,632.12	241.62	24.310		
18,300.00	7,870.00	7,821.00	7,821.00	157.90	135.52	-90.00	-2,506.81	5,406.56	5,964.30	5,722.70	241.60	24.686		
18,400.00	7,870.00	7,821.00	7,821.00	159.57	135.52	-90.00	-2,506.81	5,406.56	6,055.17	5,813.58	241.58	25.064		
18,500.00	7,870.00	7,821.00	7,821.00	161.25	135.52	-90.00	-2,506.81	5,406.56	6,146.31	5,904.75	241.56	25.444		
18,600.00	7,870.00	7,821.00	7,821.00	162.93	135.52	-90.00	-2,506.81	5,406.56	6,237.73	5,996.19	241.54	25.825		
18,700.00	7,870.00	7,821.00	7,821.00	164.60	135.52	-90.00	-2,506.81	5,406.56	6,329.41	6,087.89	241.52	26.207		
18,797.52	7,870.00	7,821.00	7,821.00	166.24	135.52	-90.00	-2,506.81	5,406.56	6,419.05	6,177.56	241.49	26.581		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	143.40	-4,237.57	3,146.93	5,278.34					
100.00	100.00	73.00	73.00	0.13	0.61	143.40	-4,237.57	3,146.93	5,278.27	5,277.53	0.74	7,136.455		
200.00	200.00	173.00	173.00	0.49	2.10	143.40	-4,237.57	3,146.93	5,278.27	5,275.67	2.60	2,033.215		
300.00	300.00	273.00	273.00	0.85	3.85	143.40	-4,237.57	3,146.93	5,278.27	5,273.57	4.70	1,123.078		
400.00	400.00	373.00	373.00	1.21	5.59	143.40	-4,237.57	3,146.93	5,278.27	5,271.47	6.80	775.803		
500.00	500.00	473.00	473.00	1.57	7.34	143.40	-4,237.57	3,146.93	5,278.27	5,269.36	8.91	592.570		
600.00	600.00	573.00	573.00	1.93	9.08	143.40	-4,237.57	3,146.93	5,278.27	5,267.26	11.01	479.353		
700.00	700.00	673.00	673.00	2.29	10.83	143.40	-4,237.57	3,146.93	5,278.27	5,265.15	13.12	402.460		
800.00	800.00	773.00	773.00	2.64	12.58	143.40	-4,237.57	3,146.93	5,278.27	5,263.05	15.22	346.825		
900.00	900.00	873.00	873.00	3.00	14.32	143.40	-4,237.57	3,146.93	5,278.27	5,260.95	17.32	304.704		
1,000.00	1,000.00	973.00	973.00	3.36	16.07	143.40	-4,237.57	3,146.93	5,278.27	5,258.84	19.43	271.706		
1,100.00	1,099.98	1,072.98	1,072.98	3.72	17.81	88.80	-4,237.57	3,146.93	5,278.23	5,256.71	21.53	245.199		
1,200.00	1,199.84	1,172.84	1,172.84	4.07	19.55	88.86	-4,237.57	3,146.93	5,278.12	5,254.50	23.62	223.437		
1,300.00	1,299.45	1,272.45	1,272.45	4.43	21.29	88.96	-4,237.57	3,146.93	5,277.96	5,252.24	25.72	205.214		
1,400.00	1,398.70	1,371.70	1,371.70	4.80	23.02	89.09	-4,237.57	3,146.93	5,277.75	5,249.93	27.82	189.722		
1,500.00	1,497.47	1,470.47	1,470.47	5.18	24.75	89.26	-4,237.57	3,146.93	5,277.52	5,247.60	29.92	176.374		
1,600.00	1,595.62	1,568.62	1,568.62	5.57	26.46	89.47	-4,237.57	3,146.93	5,277.31	5,245.27	32.03	164.739		
1,700.00	1,693.06	1,666.06	1,666.06	6.00	28.16	89.71	-4,237.57	3,146.93	5,277.14	5,242.99	34.16	154.492		
1,800.00	1,789.64	1,762.64	1,762.64	6.45	29.85	89.99	-4,237.57	3,146.93	5,277.07	5,240.78	36.30	145.386		
1,805.00	1,794.45	1,767.45	1,767.45	6.48	29.93	90.00	-4,237.57	3,146.93	5,277.07	5,240.67	36.41	144.954		
1,900.00	1,885.27	1,858.27	1,858.27	6.94	31.52	90.29	-4,237.57	3,146.93	5,277.15	5,238.69	38.45	137.229		
2,000.00	1,979.82	1,952.82	1,952.82	7.47	33.17	90.62	-4,237.57	3,146.93	5,277.42	5,236.78	40.64	129.873		
2,100.00	2,073.17	2,046.17	2,046.17	8.05	34.80	90.97	-4,237.57	3,146.93	5,277.95	5,235.11	42.84	123.200		
2,200.00	2,165.21	2,138.21	2,138.21	8.67	36.40	91.34	-4,237.57	3,146.93	5,278.81	5,233.73	45.07	117.114		
2,300.00	2,255.84	2,228.84	2,228.84	9.35	37.98	91.73	-4,237.57	3,146.93	5,280.06	5,232.72	47.34	111.541		
2,400.00	2,344.94	2,317.94	2,317.94	10.09	39.54	92.14	-4,237.57	3,146.93	5,281.78	5,232.15	49.63	106.420		
2,500.00	2,432.39	2,405.39	2,405.39	10.89	41.07	92.55	-4,237.57	3,146.93	5,284.05	5,232.09	51.96	101.698		
2,519.29	2,449.07	2,422.07	2,422.07	11.05	41.36	92.63	-4,237.57	3,146.93	5,284.56	5,232.15	52.41	100.831		
2,600.00	2,518.69	2,508.31	2,491.69	11.74	42.86	93.01	-4,237.57	3,146.93	5,286.89	5,232.28	54.60	96.823		
2,700.00	2,604.95	2,577.95	2,577.95	12.62	44.08	93.49	-4,237.57	3,146.93	5,290.21	5,233.52	56.69	93.314		
2,800.00	2,691.22	2,664.22	2,664.22	13.52	45.58	93.96	-4,237.57	3,146.93	5,294.01	5,234.92	59.09	89.595		
2,900.00	2,777.48	2,750.48	2,750.48	14.43	47.09	94.43	-4,237.57	3,146.93	5,298.29	5,236.80	61.50	86.154		
3,000.00	2,863.75	2,836.75	2,836.75	15.35	48.59	94.90	-4,237.57	3,146.93	5,303.05	5,239.14	63.92	82.967		
3,100.00	2,950.01	2,923.01	2,923.01	16.28	50.10	95.37	-4,237.57	3,146.93	5,308.29	5,241.95	66.35	80.010		
3,200.00	3,036.27	3,009.27	3,009.27	17.22	51.61	95.84	-4,237.57	3,146.93	5,314.01	5,245.23	68.78	77.261		
3,300.00	3,122.54	3,104.46	3,095.54	18.17	53.27	96.31	-4,237.57	3,146.93	5,320.20	5,248.83	71.38	74.538		
3,400.00	3,208.80	3,181.80	3,181.80	19.13	54.62	96.77	-4,237.57	3,146.93	5,326.87	5,253.20	73.66	72.315		
3,500.00	3,295.07	3,268.07	3,268.07	20.09	56.12	97.24	-4,237.57	3,146.93	5,334.00	5,257.89	76.11	70.085		
3,600.00	3,381.33	3,354.33	3,354.33	21.05	57.63	97.71	-4,237.57	3,146.93	5,341.61	5,263.05	78.55	67.999		
3,700.00	3,467.59	3,440.59	3,440.59	22.02	59.13	98.17	-4,237.57	3,146.93	5,349.68	5,268.68	81.00	66.044		
3,800.00	3,553.86	3,526.86	3,526.86	22.99	60.64	98.63	-4,237.57	3,146.93	5,358.21	5,274.77	83.45	64.209		
3,900.00	3,640.12	3,613.12	3,613.12	23.97	62.14	99.10	-4,237.57	3,146.93	5,367.22	5,281.32	85.90	62.485		
4,000.00	3,726.38	3,700.62	3,699.38	24.95	63.67	99.56	-4,237.57	3,146.93	5,376.68	5,288.31	88.36	60.848		
4,100.00	3,812.65	3,785.65	3,785.65	25.93	65.16	100.02	-4,237.57	3,146.93	5,386.60	5,295.81	90.79	59.333		
4,200.00	3,898.91	3,871.91	3,871.91	26.91	66.66	100.48	-4,237.57	3,146.93	5,396.97	5,303.75	93.23	57.890		
4,300.00	3,985.18	3,958.18	3,958.18	27.90	68.17	100.93	-4,237.57	3,146.93	5,407.80	5,312.13	95.67	56.527		
4,400.00	4,071.44	4,044.44	4,044.44	28.88	69.67	101.39	-4,237.57	3,146.93	5,419.08	5,320.98	98.10	55.238		
4,500.00	4,157.70	4,130.70	4,130.70	29.87	71.18	101.85	-4,237.57	3,146.93	5,430.81	5,330.27	100.54	54.018		
4,600.00	4,243.97	4,216.97	4,216.97	30.86	72.68	102.30	-4,237.57	3,146.93	5,442.98	5,340.01	102.97	52.861		
4,700.00	4,330.23	4,303.23	4,303.23	31.85	74.19	102.75	-4,237.57	3,146.93	5,455.59	5,350.20	105.39	51.764		
4,800.00	4,416.49	4,389.49	4,389.49	32.84	75.69	103.20	-4,237.57	3,146.93	5,468.65	5,360.83	107.82	50.721		
4,900.00	4,502.76	4,475.76	4,475.76	33.84	77.20	103.65	-4,237.57	3,146.93	5,482.14	5,371.90	110.24	49.731		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,589.02	4,562.02	4,562.02	34.83	78.71	104.09	-4,237.57	3,146.93	5,496.06	5,383.41	112.65	48.789		
5,100.00	4,675.29	4,648.29	4,648.29	35.82	80.21	104.54	-4,237.57	3,146.93	5,510.41	5,395.35	115.06	47.891		
5,200.00	4,761.55	4,734.55	4,734.55	36.82	81.72	104.98	-4,237.57	3,146.93	5,525.18	5,407.72	117.47	47.037		
5,300.00	4,847.81	4,820.81	4,820.81	37.82	83.22	105.42	-4,237.57	3,146.93	5,540.38	5,420.51	119.87	46.221		
5,400.00	4,934.08	4,907.08	4,907.08	38.81	84.73	105.86	-4,237.57	3,146.93	5,556.00	5,433.74	122.26	45.444		
5,500.00	5,020.34	4,993.34	4,993.34	39.81	86.23	106.30	-4,237.57	3,146.93	5,572.03	5,447.38	124.65	44.701		
5,600.00	5,106.60	5,050.00	5,050.00	40.81	87.22	106.59	-4,237.57	3,146.93	5,588.55	5,462.04	126.51	44.175		
5,700.00	5,192.87	5,050.00	5,050.00	41.81	87.22	106.59	-4,237.57	3,146.93	5,606.52	5,479.19	127.33	44.030		
5,800.00	5,279.13	5,050.00	5,050.00	42.81	87.22	106.59	-4,237.57	3,146.93	5,626.22	5,498.10	128.12	43.914		
5,900.00	5,365.40	5,050.00	5,050.00	43.81	87.22	106.59	-4,237.57	3,146.93	5,647.61	5,518.74	128.87	43.824		
6,000.00	5,451.66	5,050.00	5,050.00	44.81	87.22	106.59	-4,237.57	3,146.93	5,670.69	5,541.10	129.58	43.761		
6,100.00	5,537.92	5,050.00	5,050.00	45.81	87.22	106.59	-4,237.57	3,146.93	5,695.43	5,565.16	130.26	43.723		
6,200.00	5,624.19	5,050.00	5,050.00	46.81	87.22	106.59	-4,237.57	3,146.93	5,721.81	5,590.90	130.91	43.709		
6,300.00	5,710.45	5,050.00	5,050.00	47.81	87.22	106.59	-4,237.57	3,146.93	5,749.81	5,618.29	131.51	43.720		
6,400.00	5,796.72	5,050.00	5,050.00	48.81	87.22	106.59	-4,237.57	3,146.93	5,779.40	5,647.31	132.09	43.755		
6,500.00	5,882.98	5,050.00	5,050.00	49.81	87.22	106.59	-4,237.57	3,146.93	5,810.56	5,677.94	132.62	43.812		
6,600.00	5,969.24	5,050.00	5,050.00	50.82	87.22	106.59	-4,237.57	3,146.93	5,843.27	5,710.14	133.13	43.892		
6,700.00	6,055.51	5,050.00	5,050.00	51.82	87.22	106.59	-4,237.57	3,146.93	5,877.50	5,743.90	133.60	43.993		
6,800.00	6,141.77	5,050.00	5,050.00	52.82	87.22	106.59	-4,237.57	3,146.93	5,913.23	5,779.18	134.04	44.115		
6,900.00	6,228.03	5,050.00	5,050.00	53.83	87.22	106.59	-4,237.57	3,146.93	5,950.41	5,815.96	134.45	44.257		
7,000.00	6,314.30	5,050.00	5,050.00	54.83	87.22	106.59	-4,237.57	3,146.93	5,989.04	5,854.21	134.83	44.419		
7,100.00	6,400.56	5,050.00	5,050.00	55.83	87.22	106.59	-4,237.57	3,146.93	6,029.08	5,893.90	135.18	44.600		
7,200.00	6,486.83	5,050.00	5,050.00	56.84	87.22	106.59	-4,237.57	3,146.93	6,070.50	5,935.00	135.50	44.800		
7,300.00	6,573.09	5,050.00	5,050.00	57.84	87.22	106.59	-4,237.57	3,146.93	6,113.28	5,977.49	135.79	45.018		
7,400.00	6,659.35	5,050.00	5,050.00	58.84	87.22	106.59	-4,237.57	3,146.93	6,157.39	6,021.32	136.06	45.254		
7,500.00	6,745.62	5,050.00	5,050.00	59.85	87.22	106.59	-4,237.57	3,146.93	6,202.79	6,066.49	136.30	45.507		
7,600.00	6,831.88	5,050.00	5,050.00	60.85	87.22	106.59	-4,237.57	3,146.93	6,249.46	6,112.94	136.52	45.777		
7,700.00	6,918.14	5,050.00	5,050.00	61.86	87.22	106.59	-4,237.57	3,146.93	6,297.38	6,160.66	136.71	46.062		
7,800.00	7,004.41	5,050.00	5,050.00	62.86	87.22	106.59	-4,237.57	3,146.93	6,346.51	6,209.62	136.89	46.363		
7,900.00	7,090.67	5,050.00	5,050.00	63.87	87.22	106.59	-4,237.57	3,146.93	6,396.82	6,259.79	137.04	46.680		
8,000.00	7,176.94	5,050.00	5,050.00	64.87	87.22	106.59	-4,237.57	3,146.93	6,448.30	6,311.13	137.17	47.011		
8,027.52	7,200.68	5,050.00	5,050.00	65.15	87.22	106.59	-4,237.57	3,146.93	6,462.67	6,325.47	137.20	47.105		
8,050.00	7,220.18	5,050.00	5,050.00	65.37	87.22	103.53	-4,237.57	3,146.93	6,474.10	6,336.88	137.22	47.180		
8,100.00	7,264.25	5,050.00	5,050.00	65.85	87.22	95.66	-4,237.57	3,146.93	6,497.06	6,359.80	137.26	47.335		
8,150.00	7,308.99	5,050.00	5,050.00	66.28	87.22	86.49	-4,237.57	3,146.93	6,516.50	6,379.23	137.27	47.471		
8,200.00	7,354.07	5,050.00	5,050.00	66.67	87.22	76.51	-4,237.57	3,146.93	6,532.32	6,395.06	137.26	47.590		
8,250.00	7,399.14	5,050.00	5,050.00	67.02	87.22	66.45	-4,237.57	3,146.93	6,544.41	6,407.19	137.22	47.692		
8,300.00	7,443.85	5,050.00	5,050.00	67.32	87.22	57.01	-4,237.57	3,146.93	6,552.71	6,415.56	137.15	47.777		
8,350.00	7,487.88	5,050.00	5,050.00	67.56	87.22	48.66	-4,237.57	3,146.93	6,557.16	6,420.11	137.05	47.845		
8,400.00	7,530.87	5,050.00	5,050.00	67.75	87.22	41.55	-4,237.57	3,146.93	6,557.75	6,420.83	136.92	47.896		
8,450.00	7,572.51	5,050.00	5,050.00	67.90	87.22	35.61	-4,237.57	3,146.93	6,554.46	6,417.71	136.75	47.930		
8,500.00	7,612.48	5,050.00	5,050.00	68.00	87.22	30.67	-4,237.57	3,146.93	6,547.31	6,410.75	136.56	47.945		
8,550.00	7,650.47	5,050.00	5,050.00	68.05	87.22	26.54	-4,237.57	3,146.93	6,536.36	6,400.02	136.34	47.942		
8,600.00	7,686.20	5,050.00	5,050.00	68.06	87.22	23.03	-4,237.57	3,146.93	6,521.65	6,385.55	136.10	47.919		
8,650.00	7,719.39	5,050.00	5,050.00	68.03	87.22	20.00	-4,237.57	3,146.93	6,503.29	6,367.45	135.83	47.877		
8,700.00	7,749.79	5,050.00	5,050.00	67.97	87.22	17.32	-4,237.57	3,146.93	6,481.37	6,345.82	135.55	47.814		
8,750.00	7,777.17	5,050.00	5,050.00	67.87	87.22	14.88	-4,237.57	3,146.93	6,456.03	6,320.77	135.26	47.731		
8,800.00	7,801.32	5,050.00	5,050.00	67.74	87.22	12.57	-4,237.57	3,146.93	6,427.43	6,292.47	134.96	47.626		
8,850.00	7,822.06	5,050.00	5,050.00	67.59	87.22	10.30	-4,237.57	3,146.93	6,395.73	6,261.09	134.65	47.500		
8,900.00	7,839.23	5,050.00	5,050.00	67.41	87.22	7.97	-4,237.57	3,146.93	6,361.15	6,226.81	134.33	47.353		
8,950.00	7,852.69	5,050.00	5,050.00	67.22	87.22	5.44	-4,237.57	3,146.93	6,323.88	6,189.86	134.03	47.184		
9,000.00	7,862.35	5,050.00	5,050.00	67.00	87.22	2.55	-4,237.57	3,146.93	6,284.18	6,150.45	133.73	46.993		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	5,050.00	5,050.00	66.78	87.22	-0.93	-4,237.57	3,146.93	6,242.30	6,108.86	133.44	46.781		
9,098.65	7,870.00	5,050.00	5,050.00	66.55	87.22	-5.23	-4,237.57	3,146.93	6,199.72	6,066.55	133.17	46.555		
9,100.00	7,870.00	5,050.00	5,050.00	66.55	87.22	-5.23	-4,237.57	3,146.93	6,198.52	6,065.35	133.16	46.548		
9,200.00	7,870.00	5,050.00	5,050.00	66.09	87.22	-5.23	-4,237.57	3,146.93	6,109.51	5,976.89	132.62	46.068		
9,300.00	7,870.00	5,050.00	5,050.00	65.65	87.22	-5.23	-4,237.57	3,146.93	6,020.84	5,888.78	132.06	45.592		
9,400.00	7,870.00	5,050.00	5,050.00	65.24	87.22	-5.23	-4,237.57	3,146.93	5,932.54	5,801.06	131.48	45.121		
9,500.00	7,870.00	5,050.00	5,050.00	64.85	87.22	-5.23	-4,237.57	3,146.93	5,844.61	5,713.73	130.88	44.655		
9,600.00	7,870.00	5,050.00	5,050.00	64.48	87.22	-5.23	-4,237.57	3,146.93	5,757.08	5,626.81	130.27	44.195		
9,700.00	7,870.00	5,050.00	5,050.00	64.13	87.22	-5.23	-4,237.57	3,146.93	5,669.96	5,540.33	129.63	43.740		
9,800.00	7,870.00	5,050.00	5,050.00	63.80	87.22	-5.23	-4,237.57	3,146.93	5,583.27	5,454.29	128.97	43.291		
9,900.00	7,870.00	5,050.00	5,050.00	63.50	87.22	-5.23	-4,237.57	3,146.93	5,497.03	5,368.74	128.29	42.848		
10,000.00	7,870.00	5,050.00	5,050.00	63.22	87.22	-5.23	-4,237.57	3,146.93	5,411.26	5,283.68	127.59	42.412		
10,100.00	7,870.00	5,050.00	5,050.00	62.96	87.22	-5.23	-4,237.57	3,146.93	5,326.00	5,199.13	126.86	41.982		
10,200.00	7,870.00	5,050.00	5,050.00	62.72	87.22	-5.23	-4,237.57	3,146.93	5,241.25	5,115.14	126.11	41.560		
10,300.00	7,870.00	5,050.00	5,050.00	62.50	87.22	-5.23	-4,237.57	3,146.93	5,157.05	5,031.71	125.34	41.145		
10,400.00	7,870.00	5,050.00	5,050.00	62.31	87.22	-5.23	-4,237.57	3,146.93	5,073.42	4,948.89	124.54	40.739		
10,500.00	7,870.00	5,050.00	5,050.00	62.15	87.22	-5.23	-4,237.57	3,146.93	4,990.40	4,866.69	123.71	40.340		
10,600.00	7,870.00	5,050.00	5,050.00	62.01	87.22	-5.23	-4,237.57	3,146.93	4,908.01	4,785.16	122.85	39.950		
10,700.00	7,870.00	5,050.00	5,050.00	61.90	87.22	-5.23	-4,237.57	3,146.93	4,826.28	4,704.31	121.97	39.570		
10,800.00	7,870.00	5,050.00	5,050.00	61.82	87.22	-5.23	-4,237.57	3,146.93	4,745.26	4,624.20	121.06	39.198		
10,900.00	7,870.00	5,050.00	5,050.00	61.78	87.22	-5.23	-4,237.57	3,146.93	4,664.97	4,544.85	120.12	38.837		
11,000.00	7,870.00	5,050.00	5,050.00	61.77	87.22	-5.23	-4,237.57	3,146.93	4,585.45	4,466.31	119.14	38.487		
11,100.00	7,870.00	5,050.00	5,050.00	61.81	87.22	-5.23	-4,237.57	3,146.93	4,506.76	4,388.62	118.14	38.147		
11,200.00	7,870.00	5,050.00	5,050.00	61.90	87.22	-5.23	-4,237.57	3,146.93	4,428.92	4,311.81	117.11	37.819		
11,300.00	7,870.00	5,050.00	5,050.00	62.03	87.22	-5.23	-4,237.57	3,146.93	4,351.98	4,235.94	116.04	37.504		
11,400.00	7,870.00	5,050.00	5,050.00	62.23	87.22	-5.23	-4,237.57	3,146.93	4,276.01	4,161.06	114.95	37.200		
11,500.00	7,870.00	5,050.00	5,050.00	62.50	87.22	-5.23	-4,237.57	3,146.93	4,201.03	4,087.22	113.82	36.910		
11,600.00	7,870.00	5,050.00	5,050.00	62.84	87.22	-5.23	-4,237.57	3,146.93	4,127.12	4,014.47	112.66	36.634		
11,700.00	7,870.00	5,050.00	5,050.00	63.25	87.22	-5.23	-4,237.57	3,146.93	4,054.33	3,942.86	111.47	36.372		
11,800.00	7,870.00	5,050.00	5,050.00	63.76	87.22	-5.23	-4,237.57	3,146.93	3,982.72	3,872.47	110.25	36.124		
11,900.00	7,870.00	5,050.00	5,050.00	64.34	87.22	-5.23	-4,237.57	3,146.93	3,912.36	3,803.36	109.00	35.893		
12,000.00	7,870.00	5,050.00	5,050.00	65.01	87.22	-5.23	-4,237.57	3,146.93	3,843.31	3,735.58	107.73	35.677		
12,100.00	7,870.00	5,050.00	5,050.00	65.77	87.22	-5.23	-4,237.57	3,146.93	3,775.64	3,669.22	106.42	35.477		
12,200.00	7,870.00	5,050.00	5,050.00	66.61	87.22	-5.23	-4,237.57	3,146.93	3,709.44	3,604.34	105.10	35.295		
12,300.00	7,870.00	5,050.00	5,050.00	67.51	87.22	-5.23	-4,237.57	3,146.93	3,644.77	3,541.02	103.75	35.130		
12,400.00	7,870.00	5,050.00	5,050.00	68.49	87.22	-5.23	-4,237.57	3,146.93	3,581.74	3,479.35	102.39	34.982		
12,500.00	7,870.00	5,050.00	5,050.00	69.52	87.22	-5.23	-4,237.57	3,146.93	3,520.41	3,419.41	101.01	34.854		
12,600.00	7,870.00	5,050.00	5,050.00	70.61	87.22	-5.23	-4,237.57	3,146.93	3,460.89	3,361.28	99.61	34.744		
12,700.00	7,870.00	5,050.00	5,050.00	71.75	87.22	-5.23	-4,237.57	3,146.93	3,403.27	3,305.06	98.21	34.653		
12,800.00	7,870.00	5,050.00	5,050.00	72.93	87.22	-5.23	-4,237.57	3,146.93	3,347.64	3,250.84	96.80	34.583		
12,900.00	7,870.00	5,050.00	5,050.00	74.14	87.22	-5.23	-4,237.57	3,146.93	3,294.11	3,198.71	95.39	34.532		
13,000.00	7,870.00	5,050.00	5,050.00	75.39	87.22	-5.23	-4,237.57	3,146.93	3,242.78	3,148.79	93.99	34.501		
13,100.00	7,870.00	5,050.00	5,050.00	76.67	87.22	-5.23	-4,237.57	3,146.93	3,193.76	3,101.16	92.60	34.491		
13,200.00	7,870.00	5,050.00	5,050.00	77.98	87.22	-5.23	-4,237.57	3,146.93	3,147.15	3,055.93	91.22	34.502		
13,300.00	7,870.00	5,050.00	5,050.00	79.31	87.22	-5.23	-4,237.57	3,146.93	3,103.06	3,013.20	89.86	34.533		
13,400.00	7,870.00	5,050.00	5,050.00	80.67	87.22	-5.23	-4,237.57	3,146.93	3,061.61	2,973.08	88.53	34.584		
13,500.00	7,870.00	5,050.00	5,050.00	82.04	87.22	-5.23	-4,237.57	3,146.93	3,022.90	2,935.67	87.23	34.654		
13,600.00	7,870.00	5,050.00	5,050.00	83.43	87.22	-5.23	-4,237.57	3,146.93	2,987.04	2,901.06	85.98	34.742		
13,700.00	7,870.00	5,050.00	5,050.00	84.84	87.22	-5.23	-4,237.57	3,146.93	2,954.12	2,869.34	84.78	34.843		
13,800.00	7,870.00	5,050.00	5,050.00	86.27	87.22	-5.23	-4,237.57	3,146.93	2,924.26	2,840.60	83.66	34.954		
13,900.00	7,870.00	5,050.00	5,050.00	87.71	87.22	-5.23	-4,237.57	3,146.93	2,897.54	2,814.91	82.63	35.066		
14,000.00	7,870.00	5,050.00	5,050.00	89.16	87.22	-5.23	-4,237.57	3,146.93	2,874.06	2,792.34	81.72	35.169		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,050.00	5,050.00	90.63	87.22	-5.23	-4,237.57	3,146.93	2,853.89	2,772.92	80.97	35.246		
14,200.00	7,870.00	5,050.00	5,050.00	92.10	87.22	-5.23	-4,237.57	3,146.93	2,837.10	2,756.67	80.43	35.275		
14,300.00	7,870.00	5,050.00	5,050.00	93.59	87.22	-5.23	-4,237.57	3,146.93	2,823.76	2,743.60	80.15	35.229		
14,400.00	7,870.00	5,050.00	5,050.00	95.09	87.22	-5.23	-4,237.57	3,146.93	2,813.91	2,733.68	80.22	35.076		
14,500.00	7,870.00	5,050.00	5,050.00	96.60	87.22	-5.23	-4,237.57	3,146.93	2,807.58	2,726.87	80.72	34.783		
14,600.00	7,870.00	5,050.00	5,050.00	98.11	87.22	-5.23	-4,237.57	3,146.93	2,804.82	2,723.12	81.70	34.332		
14,627.69	7,870.00	5,050.00	5,050.00	98.54	87.22	-5.23	-4,237.57	3,146.93	2,804.68	2,722.62	82.06	34.179 CC		
14,700.00	7,870.00	5,050.00	5,050.00	99.64	87.22	-5.23	-4,237.57	3,146.93	2,805.61	2,722.42	83.19	33.725 ES		
14,800.00	7,870.00	5,050.00	5,050.00	101.17	87.22	-5.23	-4,237.57	3,146.93	2,809.97	2,724.79	85.18	32.989		
14,900.00	7,870.00	5,050.00	5,050.00	102.71	87.22	-5.23	-4,237.57	3,146.93	2,817.87	2,730.27	87.60	32.169		
15,000.00	7,870.00	5,050.00	5,050.00	104.26	87.22	-5.23	-4,237.57	3,146.93	2,829.28	2,738.93	90.35	31.315		
15,100.00	7,870.00	5,050.00	5,050.00	105.82	87.22	-5.23	-4,237.57	3,146.93	2,844.17	2,750.83	93.34	30.471		
15,200.00	7,870.00	5,050.00	5,050.00	107.38	87.22	-5.23	-4,237.57	3,146.93	2,862.47	2,765.99	96.48	29.668		
15,300.00	7,870.00	5,050.00	5,050.00	108.95	87.22	-5.23	-4,237.57	3,146.93	2,884.13	2,784.43	99.71	28.926		
15,400.00	7,870.00	5,050.00	5,050.00	110.52	87.22	-5.23	-4,237.57	3,146.93	2,909.07	2,806.11	102.96	28.255		
15,500.00	7,870.00	5,050.00	5,050.00	112.10	87.22	-5.23	-4,237.57	3,146.93	2,937.20	2,831.01	106.19	27.660		
15,600.00	7,870.00	5,050.00	5,050.00	113.69	87.22	-5.23	-4,237.57	3,146.93	2,968.43	2,859.07	109.37	27.142		
15,700.00	7,870.00	5,050.00	5,050.00	115.28	87.22	-5.23	-4,237.57	3,146.93	3,002.68	2,890.20	112.47	26.697		
15,800.00	7,870.00	5,050.00	5,050.00	116.87	87.22	-5.23	-4,237.57	3,146.93	3,039.82	2,924.34	115.48	26.323		
15,900.00	7,870.00	5,050.00	5,050.00	118.47	87.22	-5.23	-4,237.57	3,146.93	3,079.77	2,961.39	118.38	26.016		
16,000.00	7,870.00	5,050.00	5,050.00	120.07	87.22	-5.23	-4,237.57	3,146.93	3,122.41	3,001.24	121.17	25.770		
16,100.00	7,870.00	5,050.00	5,050.00	121.68	87.22	-5.23	-4,237.57	3,146.93	3,167.63	3,043.81	123.83	25.581		
16,200.00	7,870.00	5,050.00	5,050.00	123.30	87.22	-5.23	-4,237.57	3,146.93	3,215.33	3,088.97	126.37	25.445		
16,300.00	7,870.00	5,050.00	5,050.00	124.91	87.22	-5.23	-4,237.57	3,146.93	3,265.40	3,136.62	128.78	25.357		
16,400.00	7,870.00	5,050.00	5,050.00	126.53	87.22	-5.23	-4,237.57	3,146.93	3,317.72	3,186.66	131.06	25.314		
16,500.00	7,870.00	5,050.00	5,050.00	128.16	87.22	-5.23	-4,237.57	3,146.93	3,372.20	3,238.98	133.22	25.313 SF		
16,600.00	7,870.00	5,050.00	5,050.00	129.79	87.22	-5.23	-4,237.57	3,146.93	3,428.73	3,293.47	135.26	25.349		
16,700.00	7,870.00	5,050.00	5,050.00	131.42	87.22	-5.23	-4,237.57	3,146.93	3,487.22	3,350.03	137.19	25.419		
16,800.00	7,870.00	5,050.00	5,050.00	133.05	87.22	-5.23	-4,237.57	3,146.93	3,547.55	3,408.55	139.00	25.522		
16,900.00	7,870.00	5,050.00	5,050.00	134.69	87.22	-5.23	-4,237.57	3,146.93	3,609.65	3,468.95	140.70	25.654		
17,000.00	7,870.00	5,050.00	5,050.00	136.33	87.22	-5.23	-4,237.57	3,146.93	3,673.43	3,531.12	142.30	25.814		
17,100.00	7,870.00	5,050.00	5,050.00	137.97	87.22	-5.23	-4,237.57	3,146.93	3,738.79	3,594.98	143.81	25.999		
17,200.00	7,870.00	5,050.00	5,050.00	139.62	87.22	-5.23	-4,237.57	3,146.93	3,805.65	3,660.44	145.22	26.207		
17,300.00	7,870.00	5,050.00	5,050.00	141.27	87.22	-5.23	-4,237.57	3,146.93	3,873.94	3,727.41	146.54	26.436		
17,400.00	7,870.00	5,050.00	5,050.00	142.92	87.22	-5.23	-4,237.57	3,146.93	3,943.59	3,795.81	147.78	26.686		
17,500.00	7,870.00	5,050.00	5,050.00	144.58	87.22	-5.23	-4,237.57	3,146.93	4,014.52	3,865.58	148.94	26.954		
17,600.00	7,870.00	5,050.00	5,050.00	146.23	87.22	-5.23	-4,237.57	3,146.93	4,086.66	3,936.64	150.03	27.239		
17,700.00	7,870.00	5,050.00	5,050.00	147.89	87.22	-5.23	-4,237.57	3,146.93	4,159.96	4,008.92	151.05	27.541		
17,800.00	7,870.00	5,050.00	5,050.00	149.56	87.22	-5.23	-4,237.57	3,146.93	4,234.35	4,082.35	152.00	27.857		
17,900.00	7,870.00	5,050.00	5,050.00	151.22	87.22	-5.23	-4,237.57	3,146.93	4,309.78	4,156.88	152.90	28.187		
18,000.00	7,870.00	5,050.00	5,050.00	152.89	87.22	-5.23	-4,237.57	3,146.93	4,386.19	4,232.45	153.74	28.531		
18,100.00	7,870.00	5,050.00	5,050.00	154.55	87.22	-5.23	-4,237.57	3,146.93	4,463.53	4,309.01	154.52	28.886		
18,200.00	7,870.00	5,050.00	5,050.00	156.22	87.22	-5.23	-4,237.57	3,146.93	4,541.76	4,386.50	155.26	29.253		
18,300.00	7,870.00	5,050.00	5,050.00	157.90	87.22	-5.23	-4,237.57	3,146.93	4,620.83	4,464.88	155.95	29.630		
18,400.00	7,870.00	5,050.00	5,050.00	159.57	87.22	-5.23	-4,237.57	3,146.93	4,700.69	4,544.10	156.60	30.018		
18,500.00	7,870.00	5,050.00	5,050.00	161.25	87.22	-5.23	-4,237.57	3,146.93	4,781.32	4,624.11	157.21	30.414		
18,600.00	7,870.00	5,050.00	5,050.00	162.93	87.22	-5.23	-4,237.57	3,146.93	4,862.66	4,704.88	157.78	30.820		
18,700.00	7,870.00	5,050.00	5,050.00	164.60	87.22	-5.23	-4,237.57	3,146.93	4,944.68	4,786.37	158.31	31.234		
18,797.52	7,870.00	5,050.00	5,050.00	166.24	87.22	-5.23	-4,237.57	3,146.93	5,025.30	4,866.50	158.80	31.645		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	156.67	-4,237.70	1,827.89	4,615.18					
100.00	100.00	75.00	75.00	0.13	0.62	156.67	-4,237.70	1,827.89	4,615.11	4,614.36	0.75	6,156.306		
200.00	200.00	175.00	175.00	0.49	2.13	156.67	-4,237.70	1,827.89	4,615.11	4,612.49	2.62	1,760.015		
300.00	300.00	275.00	275.00	0.85	3.87	156.67	-4,237.70	1,827.89	4,615.11	4,610.39	4.73	976.537		
400.00	400.00	375.00	375.00	1.21	5.62	156.67	-4,237.70	1,827.89	4,615.11	4,608.28	6.83	675.732		
500.00	500.00	475.00	475.00	1.57	7.37	156.67	-4,237.70	1,827.89	4,615.11	4,606.18	8.93	516.602		
600.00	600.00	575.00	575.00	1.93	9.11	156.67	-4,237.70	1,827.89	4,615.11	4,604.08	11.04	418.134		
700.00	700.00	675.00	675.00	2.29	10.86	156.67	-4,237.70	1,827.89	4,615.11	4,601.97	13.14	351.194		
800.00	800.00	775.00	775.00	2.64	12.60	156.67	-4,237.70	1,827.89	4,615.11	4,599.87	15.25	302.730		
900.00	900.00	875.00	875.00	3.00	14.35	156.67	-4,237.70	1,827.89	4,615.11	4,597.76	17.35	266.019		
1,000.00	1,000.00	975.00	975.00	3.36	16.09	156.67	-4,237.70	1,827.89	4,615.11	4,595.66	19.45	237.249		
1,100.00	1,099.98	1,074.98	1,074.98	3.72	17.84	102.06	-4,237.70	1,827.89	4,615.48	4,593.93	21.55	214.149		
1,200.00	1,199.84	1,174.84	1,174.84	4.07	19.58	102.10	-4,237.70	1,827.89	4,616.58	4,592.93	23.65	195.210		
1,300.00	1,299.45	1,274.45	1,274.45	4.43	21.32	102.17	-4,237.70	1,827.89	4,618.41	4,592.67	25.75	179.379		
1,400.00	1,398.70	1,373.70	1,373.70	4.80	23.05	102.27	-4,237.70	1,827.89	4,621.01	4,593.17	27.85	165.947		
1,500.00	1,497.47	1,472.47	1,472.47	5.18	24.77	102.39	-4,237.70	1,827.89	4,624.39	4,594.44	29.95	154.402		
1,600.00	1,595.62	1,570.62	1,570.62	5.57	26.49	102.53	-4,237.70	1,827.89	4,628.58	4,596.52	32.06	144.364		
1,700.00	1,693.06	1,668.06	1,668.06	6.00	28.19	102.70	-4,237.70	1,827.89	4,633.62	4,599.44	34.18	135.549		
1,800.00	1,789.64	1,764.64	1,764.64	6.45	29.87	102.89	-4,237.70	1,827.89	4,639.54	4,603.22	36.32	127.741		
1,900.00	1,885.27	1,860.27	1,860.27	6.94	31.54	103.09	-4,237.70	1,827.89	4,646.40	4,607.93	38.47	120.773		
2,000.00	1,979.82	1,954.82	1,954.82	7.47	33.19	103.31	-4,237.70	1,827.89	4,654.24	4,613.59	40.64	114.511		
2,100.00	2,073.17	2,048.17	2,048.17	8.05	34.82	103.53	-4,237.70	1,827.89	4,663.11	4,620.28	42.84	108.854		
2,200.00	2,165.21	2,140.21	2,140.21	8.67	36.43	103.77	-4,237.70	1,827.89	4,673.09	4,628.03	45.06	103.718		
2,300.00	2,255.84	2,230.84	2,230.84	9.35	38.01	104.01	-4,237.70	1,827.89	4,684.21	4,636.92	47.30	99.037		
2,400.00	2,344.94	2,319.94	2,319.94	10.09	39.57	104.25	-4,237.70	1,827.89	4,696.56	4,647.00	49.57	94.755		
2,500.00	2,432.39	2,407.39	2,407.39	10.89	41.09	104.49	-4,237.70	1,827.89	4,710.20	4,658.34	51.86	90.828		
2,519.29	2,449.07	2,424.07	2,424.07	11.05	41.38	104.54	-4,237.70	1,827.89	4,712.98	4,660.68	52.30	90.109		
2,600.00	2,518.69	2,506.31	2,493.69	11.74	42.82	104.95	-4,237.70	1,827.89	4,724.89	4,670.50	54.39	86.865		
2,700.00	2,604.95	2,579.95	2,579.95	12.62	44.10	105.47	-4,237.70	1,827.89	4,740.10	4,683.59	56.51	83.886		
2,800.00	2,691.22	2,666.22	2,666.22	13.52	45.61	105.98	-4,237.70	1,827.89	4,755.80	4,696.94	58.85	80.808		
2,900.00	2,777.48	2,752.48	2,752.48	14.43	47.11	106.49	-4,237.70	1,827.89	4,771.98	4,710.77	61.21	77.963		
3,000.00	2,863.75	2,838.75	2,838.75	15.35	48.62	107.00	-4,237.70	1,827.89	4,788.64	4,725.07	63.57	75.328		
3,100.00	2,950.01	2,925.01	2,925.01	16.28	50.13	107.51	-4,237.70	1,827.89	4,805.77	4,739.84	65.94	72.884		
3,200.00	3,036.27	3,011.27	3,011.27	17.22	51.63	108.01	-4,237.70	1,827.89	4,823.38	4,755.07	68.31	70.613		
3,300.00	3,122.54	3,102.46	3,097.54	18.17	53.22	108.51	-4,237.70	1,827.89	4,841.45	4,770.69	70.76	68.418		
3,400.00	3,208.80	3,183.80	3,183.80	19.13	54.64	109.01	-4,237.70	1,827.89	4,859.98	4,786.93	73.05	66.532		
3,500.00	3,295.07	3,270.07	3,270.07	20.09	56.15	109.50	-4,237.70	1,827.89	4,878.96	4,803.54	75.42	64.693		
3,600.00	3,381.33	3,356.33	3,356.33	21.05	57.65	109.99	-4,237.70	1,827.89	4,898.39	4,820.61	77.78	62.974		
3,700.00	3,467.59	3,442.59	3,442.59	22.02	59.16	110.48	-4,237.70	1,827.89	4,918.27	4,838.12	80.15	61.364		
3,800.00	3,553.86	3,528.86	3,528.86	22.99	60.67	110.96	-4,237.70	1,827.89	4,938.58	4,856.07	82.51	59.853		
3,900.00	3,640.12	3,615.12	3,615.12	23.97	62.17	111.44	-4,237.70	1,827.89	4,959.33	4,874.46	84.87	58.434		
4,000.00	3,726.38	3,701.38	3,701.38	24.95	63.68	111.92	-4,237.70	1,827.89	4,980.50	4,893.28	87.22	57.100		
4,100.00	3,812.65	3,787.65	3,787.65	25.93	65.18	112.40	-4,237.70	1,827.89	5,002.10	4,912.52	89.57	55.843		
4,200.00	3,898.91	3,873.91	3,873.91	26.91	66.69	112.87	-4,237.70	1,827.89	5,024.11	4,932.19	91.92	54.657		
4,300.00	3,985.18	3,960.18	3,960.18	27.90	68.19	113.34	-4,237.70	1,827.89	5,046.53	4,952.27	94.26	53.538		
4,400.00	4,071.44	4,046.44	4,046.44	28.88	69.70	113.80	-4,237.70	1,827.89	5,069.36	4,972.76	96.60	52.480		
4,500.00	4,157.70	4,132.70	4,132.70	29.87	71.20	114.27	-4,237.70	1,827.89	5,092.59	4,993.66	98.93	51.479		
4,600.00	4,243.97	4,218.97	4,218.97	30.86	72.71	114.72	-4,237.70	1,827.89	5,116.21	5,014.96	101.25	50.530		
4,700.00	4,330.23	4,305.23	4,305.23	31.85	74.22	115.18	-4,237.70	1,827.89	5,140.22	5,036.65	103.57	49.631		
4,800.00	4,416.49	4,408.51	4,391.49	32.84	76.02	115.63	-4,237.70	1,827.89	5,164.62	5,058.44	106.18	48.640		
4,900.00	4,502.76	4,477.76	4,477.76	33.84	77.23	116.08	-4,237.70	1,827.89	5,189.39	5,081.20	108.19	47.966		
5,000.00	4,589.02	4,564.02	4,564.02	34.83	78.73	116.52	-4,237.70	1,827.89	5,214.54	5,104.05	110.49	47.194		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,675.29	4,650.29	4,650.29	35.82	80.24	116.97	-4,237.70	1,827.89	5,240.06	5,127.27	112.79	46.460		
5,200.00	4,761.55	4,736.55	4,736.55	36.82	81.74	117.40	-4,237.70	1,827.89	5,265.93	5,150.86	115.08	45.760		
5,300.00	4,847.81	4,822.81	4,822.81	37.82	83.25	117.84	-4,237.70	1,827.89	5,292.17	5,174.81	117.36	45.094		
5,400.00	4,934.08	4,909.08	4,909.08	38.81	84.75	118.27	-4,237.70	1,827.89	5,318.75	5,199.12	119.64	44.458		
5,500.00	5,020.34	5,004.66	4,995.34	39.81	86.42	118.70	-4,237.70	1,827.89	5,345.69	5,223.62	122.07	43.792		
5,600.00	5,106.60	5,081.60	5,081.60	40.81	87.77	119.12	-4,237.70	1,827.89	5,372.96	5,248.79	124.17	43.270		
5,700.00	5,192.87	5,167.87	5,167.87	41.81	89.27	119.54	-4,237.70	1,827.89	5,400.57	5,274.14	126.43	42.715		
5,800.00	5,279.13	5,254.13	5,254.13	42.81	90.78	119.96	-4,237.70	1,827.89	5,428.51	5,299.82	128.68	42.185		
5,900.00	5,365.40	5,340.40	5,340.40	43.81	92.28	120.38	-4,237.70	1,827.89	5,456.77	5,325.84	130.93	41.677		
6,000.00	5,451.66	5,426.66	5,426.66	44.81	93.79	120.79	-4,237.70	1,827.89	5,485.36	5,352.19	133.17	41.190		
6,100.00	5,537.92	5,450.00	5,450.00	45.81	94.20	120.90	-4,237.70	1,827.89	5,514.62	5,380.36	134.26	41.074		
6,200.00	5,624.19	5,450.00	5,450.00	46.81	94.20	120.90	-4,237.70	1,827.89	5,545.49	5,410.60	134.89	41.111		
6,300.00	5,710.45	5,450.00	5,450.00	47.81	94.20	120.90	-4,237.70	1,827.89	5,577.97	5,442.49	135.48	41.172		
6,400.00	5,796.72	5,450.00	5,450.00	48.81	94.20	120.90	-4,237.70	1,827.89	5,612.05	5,476.01	136.03	41.255		
6,500.00	5,882.98	5,450.00	5,450.00	49.81	94.20	120.90	-4,237.70	1,827.89	5,647.69	5,511.14	136.55	41.360		
6,600.00	5,969.24	5,450.00	5,450.00	50.82	94.20	120.90	-4,237.70	1,827.89	5,684.87	5,547.84	137.03	41.487		
6,700.00	6,055.51	5,450.00	5,450.00	51.82	94.20	120.90	-4,237.70	1,827.89	5,723.55	5,586.09	137.47	41.635		
6,800.00	6,141.77	5,450.00	5,450.00	52.82	94.20	120.90	-4,237.70	1,827.89	5,763.72	5,625.84	137.88	41.803		
6,900.00	6,228.03	5,450.00	5,450.00	53.83	94.20	120.90	-4,237.70	1,827.89	5,805.32	5,667.07	138.25	41.991		
7,000.00	6,314.30	5,450.00	5,450.00	54.83	94.20	120.90	-4,237.70	1,827.89	5,848.34	5,709.74	138.60	42.197		
7,100.00	6,400.56	5,450.00	5,450.00	55.83	94.20	120.90	-4,237.70	1,827.89	5,892.74	5,753.83	138.91	42.422		
7,200.00	6,486.83	5,450.00	5,450.00	56.84	94.20	120.90	-4,237.70	1,827.89	5,938.50	5,799.31	139.19	42.665		
7,300.00	6,573.09	5,450.00	5,450.00	57.84	94.20	120.90	-4,237.70	1,827.89	5,985.57	5,846.13	139.44	42.925		
7,400.00	6,659.35	5,450.00	5,450.00	58.84	94.20	120.90	-4,237.70	1,827.89	6,033.94	5,894.27	139.67	43.201		
7,500.00	6,745.62	5,450.00	5,450.00	59.85	94.20	120.90	-4,237.70	1,827.89	6,083.56	5,943.69	139.87	43.494		
7,600.00	6,831.88	5,450.00	5,450.00	60.85	94.20	120.90	-4,237.70	1,827.89	6,134.42	5,994.37	140.04	43.803		
7,700.00	6,918.14	5,450.00	5,450.00	61.86	94.20	120.90	-4,237.70	1,827.89	6,186.47	6,046.27	140.20	44.127		
7,800.00	7,004.41	5,450.00	5,450.00	62.86	94.20	120.90	-4,237.70	1,827.89	6,239.69	6,099.37	140.32	44.466		
7,900.00	7,090.67	5,450.00	5,450.00	63.87	94.20	120.90	-4,237.70	1,827.89	6,294.05	6,153.62	140.43	44.820		
8,000.00	7,176.94	5,450.00	5,450.00	64.87	94.20	120.90	-4,237.70	1,827.89	6,349.52	6,209.00	140.52	45.187		
8,027.52	7,200.68	5,450.00	5,450.00	65.15	94.20	120.90	-4,237.70	1,827.89	6,364.98	6,224.44	140.54	45.290		
8,050.00	7,220.18	5,450.00	5,450.00	65.37	94.20	117.52	-4,237.70	1,827.89	6,377.30	6,236.74	140.55	45.373		
8,100.00	7,264.25	5,450.00	5,450.00	65.85	94.20	109.04	-4,237.70	1,827.89	6,402.20	6,261.63	140.58	45.542		
8,150.00	7,308.99	5,450.00	5,450.00	66.28	94.20	99.39	-4,237.70	1,827.89	6,423.55	6,282.96	140.59	45.689		
8,200.00	7,354.07	5,450.00	5,450.00	66.67	94.20	89.05	-4,237.70	1,827.89	6,441.22	6,300.62	140.59	45.815		
8,250.00	7,399.14	5,450.00	5,450.00	67.02	94.20	78.72	-4,237.70	1,827.89	6,455.09	6,314.52	140.57	45.920		
8,300.00	7,443.85	5,450.00	5,450.00	67.32	94.20	69.11	-4,237.70	1,827.89	6,465.10	6,324.56	140.53	46.004		
8,350.00	7,487.88	5,450.00	5,450.00	67.56	94.20	60.67	-4,237.70	1,827.89	6,471.17	6,330.70	140.47	46.067		
8,400.00	7,530.87	5,450.00	5,450.00	67.75	94.20	53.55	-4,237.70	1,827.89	6,473.29	6,332.90	140.39	46.111		
8,450.00	7,572.51	5,450.00	5,450.00	67.90	94.20	47.68	-4,237.70	1,827.89	6,471.43	6,331.15	140.28	46.133		
8,500.00	7,612.48	5,450.00	5,450.00	68.00	94.20	42.89	-4,237.70	1,827.89	6,465.61	6,325.46	140.15	46.135		
8,550.00	7,650.47	5,450.00	5,450.00	68.05	94.20	39.00	-4,237.70	1,827.89	6,455.85	6,315.86	140.00	46.115		
8,600.00	7,686.20	5,450.00	5,450.00	68.06	94.20	35.83	-4,237.70	1,827.89	6,442.22	6,302.40	139.83	46.073		
8,650.00	7,719.39	5,450.00	5,450.00	68.03	94.20	33.25	-4,237.70	1,827.89	6,424.80	6,285.16	139.64	46.009		
8,700.00	7,749.79	5,450.00	5,450.00	67.97	94.20	31.14	-4,237.70	1,827.89	6,403.69	6,264.24	139.44	45.923		
8,750.00	7,777.17	5,450.00	5,450.00	67.87	94.20	29.41	-4,237.70	1,827.89	6,379.00	6,239.77	139.24	45.814		
8,800.00	7,801.32	5,450.00	5,450.00	67.74	94.20	28.01	-4,237.70	1,827.89	6,350.90	6,211.88	139.02	45.683		
8,850.00	7,822.06	5,450.00	5,450.00	67.59	94.20	26.87	-4,237.70	1,827.89	6,319.55	6,180.75	138.80	45.528		
8,900.00	7,839.23	5,450.00	5,450.00	67.41	94.20	25.96	-4,237.70	1,827.89	6,285.14	6,146.55	138.59	45.351		
8,950.00	7,852.69	5,450.00	5,450.00	67.22	94.20	25.24	-4,237.70	1,827.89	6,247.89	6,109.51	138.37	45.152		
9,000.00	7,862.35	5,450.00	5,450.00	67.00	94.20	24.68	-4,237.70	1,827.89	6,208.02	6,069.85	138.17	44.930		
9,050.00	7,868.14	5,450.00	5,450.00	66.78	94.20	24.25	-4,237.70	1,827.89	6,165.80	6,027.82	137.98	44.687		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	5,450.00	5,450.00	66.55	94.20	23.94	-4,237.70	1,827.89	6,122.73	5,984.92	137.81	44.430		
9,100.00	7,870.00	5,450.00	5,450.00	66.55	94.20	23.94	-4,237.70	1,827.89	6,121.51	5,983.70	137.80	44.422		
9,200.00	7,870.00	5,450.00	5,450.00	66.09	94.20	23.94	-4,237.70	1,827.89	6,031.29	5,893.83	137.46	43.877		
9,300.00	7,870.00	5,450.00	5,450.00	65.65	94.20	23.94	-4,237.70	1,827.89	5,941.38	5,804.28	137.10	43.336		
9,400.00	7,870.00	5,450.00	5,450.00	65.24	94.20	23.94	-4,237.70	1,827.89	5,851.79	5,715.06	136.73	42.798		
9,500.00	7,870.00	5,450.00	5,450.00	64.85	94.20	23.94	-4,237.70	1,827.89	5,762.55	5,626.21	136.35	42.263		
9,600.00	7,870.00	5,450.00	5,450.00	64.48	94.20	23.94	-4,237.70	1,827.89	5,673.67	5,537.72	135.95	41.732		
9,700.00	7,870.00	5,450.00	5,450.00	64.13	94.20	23.94	-4,237.70	1,827.89	5,585.17	5,449.62	135.55	41.205		
9,800.00	7,870.00	5,450.00	5,450.00	63.80	94.20	23.94	-4,237.70	1,827.89	5,497.06	5,361.94	135.12	40.681		
9,900.00	7,870.00	5,450.00	5,450.00	63.50	94.20	23.94	-4,237.70	1,827.89	5,409.36	5,274.68	134.69	40.162		
10,000.00	7,870.00	5,450.00	5,450.00	63.22	94.20	23.94	-4,237.70	1,827.89	5,322.10	5,187.86	134.24	39.647		
10,100.00	7,870.00	5,450.00	5,450.00	62.96	94.20	23.94	-4,237.70	1,827.89	5,235.29	5,101.53	133.77	39.137		
10,200.00	7,870.00	5,450.00	5,450.00	62.72	94.20	23.94	-4,237.70	1,827.89	5,148.96	5,015.68	133.28	38.632		
10,300.00	7,870.00	5,450.00	5,450.00	62.50	94.20	23.94	-4,237.70	1,827.89	5,063.14	4,930.36	132.78	38.131		
10,400.00	7,870.00	5,450.00	5,450.00	62.31	94.20	23.94	-4,237.70	1,827.89	4,977.84	4,845.58	132.26	37.636		
10,500.00	7,870.00	5,450.00	5,450.00	62.15	94.20	23.94	-4,237.70	1,827.89	4,893.10	4,761.38	131.72	37.147		
10,600.00	7,870.00	5,450.00	5,450.00	62.01	94.20	23.94	-4,237.70	1,827.89	4,808.95	4,677.79	131.16	36.664		
10,700.00	7,870.00	5,450.00	5,450.00	61.90	94.20	23.94	-4,237.70	1,827.89	4,725.42	4,594.83	130.59	36.186		
10,800.00	7,870.00	5,450.00	5,450.00	61.82	94.20	23.94	-4,237.70	1,827.89	4,642.53	4,512.55	129.99	35.716		
10,900.00	7,870.00	5,450.00	5,450.00	61.78	94.20	23.94	-4,237.70	1,827.89	4,560.33	4,430.97	129.36	35.252		
11,000.00	7,870.00	5,450.00	5,450.00	61.77	94.20	23.94	-4,237.70	1,827.89	4,478.86	4,350.14	128.72	34.795		
11,100.00	7,870.00	5,450.00	5,450.00	61.81	94.20	23.94	-4,237.70	1,827.89	4,398.15	4,270.10	128.05	34.347		
11,200.00	7,870.00	5,450.00	5,450.00	61.90	94.20	23.94	-4,237.70	1,827.89	4,318.25	4,190.89	127.36	33.906		
11,300.00	7,870.00	5,450.00	5,450.00	62.03	94.20	23.94	-4,237.70	1,827.89	4,239.20	4,112.56	126.64	33.474		
11,400.00	7,870.00	5,450.00	5,450.00	62.23	94.20	23.94	-4,237.70	1,827.89	4,161.05	4,035.15	125.90	33.050		
11,500.00	7,870.00	5,450.00	5,450.00	62.50	94.20	23.94	-4,237.70	1,827.89	4,083.86	3,958.73	125.13	32.637		
11,600.00	7,870.00	5,450.00	5,450.00	62.84	94.20	23.94	-4,237.70	1,827.89	4,007.67	3,883.34	124.34	32.233		
11,700.00	7,870.00	5,450.00	5,450.00	63.25	94.20	23.94	-4,237.70	1,827.89	3,932.56	3,809.04	123.51	31.839		
11,800.00	7,870.00	5,450.00	5,450.00	63.76	94.20	23.94	-4,237.70	1,827.89	3,858.57	3,735.90	122.66	31.457		
11,900.00	7,870.00	5,450.00	5,450.00	64.34	94.20	23.94	-4,237.70	1,827.89	3,785.77	3,663.99	121.78	31.086		
12,000.00	7,870.00	5,450.00	5,450.00	65.01	94.20	23.94	-4,237.70	1,827.89	3,714.25	3,593.37	120.88	30.727		
12,100.00	7,870.00	5,450.00	5,450.00	65.77	94.20	23.94	-4,237.70	1,827.89	3,644.06	3,524.11	119.95	30.381		
12,200.00	7,870.00	5,450.00	5,450.00	66.61	94.20	23.94	-4,237.70	1,827.89	3,575.29	3,456.31	118.99	30.048		
12,300.00	7,870.00	5,450.00	5,450.00	67.51	94.20	23.94	-4,237.70	1,827.89	3,508.03	3,390.03	118.00	29.729		
12,400.00	7,870.00	5,450.00	5,450.00	68.49	94.20	23.94	-4,237.70	1,827.89	3,442.35	3,325.36	116.99	29.424		
12,500.00	7,870.00	5,450.00	5,450.00	69.52	94.20	23.94	-4,237.70	1,827.89	3,378.36	3,262.41	115.96	29.135		
12,600.00	7,870.00	5,450.00	5,450.00	70.61	94.20	23.94	-4,237.70	1,827.89	3,316.16	3,201.26	114.90	28.861		
12,700.00	7,870.00	5,450.00	5,450.00	71.75	94.20	23.94	-4,237.70	1,827.89	3,255.83	3,142.01	113.83	28.604		
12,800.00	7,870.00	5,450.00	5,450.00	72.93	94.20	23.94	-4,237.70	1,827.89	3,197.50	3,084.76	112.74	28.363		
12,900.00	7,870.00	5,450.00	5,450.00	74.14	94.20	23.94	-4,237.70	1,827.89	3,141.26	3,029.63	111.63	28.139		
13,000.00	7,870.00	5,450.00	5,450.00	75.39	94.20	23.94	-4,237.70	1,827.89	3,087.24	2,976.72	110.53	27.932		
13,100.00	7,870.00	5,450.00	5,450.00	76.67	94.20	23.94	-4,237.70	1,827.89	3,035.56	2,926.14	109.42	27.742		
13,200.00	7,870.00	5,450.00	5,450.00	77.98	94.20	23.94	-4,237.70	1,827.89	2,986.33	2,878.01	108.32	27.570		
13,300.00	7,870.00	5,450.00	5,450.00	79.31	94.20	23.94	-4,237.70	1,827.89	2,939.68	2,832.44	107.23	27.414		
13,400.00	7,870.00	5,450.00	5,450.00	80.67	94.20	23.94	-4,237.70	1,827.89	2,895.73	2,789.55	106.18	27.273		
13,500.00	7,870.00	5,450.00	5,450.00	82.04	94.20	23.94	-4,237.70	1,827.89	2,854.61	2,749.45	105.15	27.147		
13,600.00	7,870.00	5,450.00	5,450.00	83.43	94.20	23.94	-4,237.70	1,827.89	2,816.44	2,712.25	104.19	27.033		
13,700.00	7,870.00	5,450.00	5,450.00	84.84	94.20	23.94	-4,237.70	1,827.89	2,781.34	2,678.06	103.28	26.929		
13,800.00	7,870.00	5,450.00	5,450.00	86.27	94.20	23.94	-4,237.70	1,827.89	2,749.44	2,646.97	102.47	26.831		
13,900.00	7,870.00	5,450.00	5,450.00	87.71	94.20	23.94	-4,237.70	1,827.89	2,720.84	2,619.08	101.76	26.737		
14,000.00	7,870.00	5,450.00	5,450.00	89.16	94.20	23.94	-4,237.70	1,827.89	2,695.65	2,594.46	101.19	26.641		
14,100.00	7,870.00	5,450.00	5,450.00	90.63	94.20	23.94	-4,237.70	1,827.89	2,673.96	2,573.20	100.76	26.538		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	5,450.00	5,450.00	92.10	94.20	23.94	-4,237.70	1,827.89	2,655.86	2,555.35	100.51	26.424		
14,300.00	7,870.00	5,450.00	5,450.00	93.59	94.20	23.94	-4,237.70	1,827.89	2,641.43	2,540.97	100.46	26.294		
14,400.00	7,870.00	5,450.00	5,450.00	95.09	94.20	23.94	-4,237.70	1,827.89	2,630.72	2,530.09	100.62	26.144		
14,500.00	7,870.00	5,450.00	5,450.00	96.60	94.20	23.94	-4,237.70	1,827.89	2,623.78	2,522.76	101.02	25.972		
14,600.00	7,870.00	5,450.00	5,450.00	98.11	94.20	23.94	-4,237.70	1,827.89	2,620.64	2,518.98	101.66	25.778		
14,632.28	7,870.00	5,450.00	5,450.00	98.60	94.20	23.94	-4,237.70	1,827.89	2,620.44	2,518.52	101.92	25.710	CC, ES	
14,700.00	7,870.00	5,450.00	5,450.00	99.64	94.20	23.94	-4,237.70	1,827.89	2,621.32	2,518.77	102.55	25.562		
14,800.00	7,870.00	5,450.00	5,450.00	101.17	94.20	23.94	-4,237.70	1,827.89	2,625.81	2,522.15	103.66	25.331		
14,900.00	7,870.00	5,450.00	5,450.00	102.71	94.20	23.94	-4,237.70	1,827.89	2,634.08	2,529.09	104.99	25.088		
15,000.00	7,870.00	5,450.00	5,450.00	104.26	94.20	23.94	-4,237.70	1,827.89	2,646.12	2,539.60	106.52	24.842		
15,100.00	7,870.00	5,450.00	5,450.00	105.82	94.20	23.94	-4,237.70	1,827.89	2,661.86	2,553.65	108.21	24.599		
15,200.00	7,870.00	5,450.00	5,450.00	107.38	94.20	23.94	-4,237.70	1,827.89	2,681.24	2,571.20	110.03	24.367		
15,300.00	7,870.00	5,450.00	5,450.00	108.95	94.20	23.94	-4,237.70	1,827.89	2,704.18	2,592.22	111.96	24.153		
15,400.00	7,870.00	5,450.00	5,450.00	110.52	94.20	23.94	-4,237.70	1,827.89	2,730.59	2,616.63	113.96	23.961		
15,500.00	7,870.00	5,450.00	5,450.00	112.10	94.20	23.94	-4,237.70	1,827.89	2,760.37	2,644.38	116.00	23.797		
15,600.00	7,870.00	5,450.00	5,450.00	113.69	94.20	23.94	-4,237.70	1,827.89	2,793.42	2,675.37	118.05	23.663		
15,700.00	7,870.00	5,450.00	5,450.00	115.28	94.20	23.94	-4,237.70	1,827.89	2,829.62	2,709.53	120.09	23.562		
15,800.00	7,870.00	5,450.00	5,450.00	116.87	94.20	23.94	-4,237.70	1,827.89	2,868.85	2,746.74	122.11	23.494		
15,900.00	7,870.00	5,450.00	5,450.00	118.47	94.20	23.94	-4,237.70	1,827.89	2,910.99	2,786.90	124.08	23.460		
16,000.00	7,870.00	5,450.00	5,450.00	120.07	94.20	23.94	-4,237.70	1,827.89	2,955.91	2,829.90	126.00	23.459	SF	
16,100.00	7,870.00	5,450.00	5,450.00	121.68	94.20	23.94	-4,237.70	1,827.89	3,003.49	2,875.63	127.85	23.491		
16,200.00	7,870.00	5,450.00	5,450.00	123.30	94.20	23.94	-4,237.70	1,827.89	3,053.60	2,923.96	129.64	23.555		
16,300.00	7,870.00	5,450.00	5,450.00	124.91	94.20	23.94	-4,237.70	1,827.89	3,106.13	2,974.78	131.34	23.649		
16,400.00	7,870.00	5,450.00	5,450.00	126.53	94.20	23.94	-4,237.70	1,827.89	3,160.94	3,027.98	132.97	23.773		
16,500.00	7,870.00	5,450.00	5,450.00	128.16	94.20	23.94	-4,237.70	1,827.89	3,217.93	3,083.42	134.51	23.923		
16,600.00	7,870.00	5,450.00	5,450.00	129.79	94.20	23.94	-4,237.70	1,827.89	3,276.99	3,141.01	135.98	24.100		
16,700.00	7,870.00	5,450.00	5,450.00	131.42	94.20	23.94	-4,237.70	1,827.89	3,337.99	3,200.63	137.36	24.301		
16,800.00	7,870.00	5,450.00	5,450.00	133.05	94.20	23.94	-4,237.70	1,827.89	3,400.84	3,262.17	138.67	24.525		
16,900.00	7,870.00	5,450.00	5,450.00	134.69	94.20	23.94	-4,237.70	1,827.89	3,465.44	3,325.54	139.90	24.771		
17,000.00	7,870.00	5,450.00	5,450.00	136.33	94.20	23.94	-4,237.70	1,827.89	3,531.69	3,390.63	141.06	25.036		
17,100.00	7,870.00	5,450.00	5,450.00	137.97	94.20	23.94	-4,237.70	1,827.89	3,599.50	3,457.34	142.15	25.321		
17,200.00	7,870.00	5,450.00	5,450.00	139.62	94.20	23.94	-4,237.70	1,827.89	3,668.77	3,525.60	143.18	25.624		
17,300.00	7,870.00	5,450.00	5,450.00	141.27	94.20	23.94	-4,237.70	1,827.89	3,739.45	3,595.31	144.14	25.943		
17,400.00	7,870.00	5,450.00	5,450.00	142.92	94.20	23.94	-4,237.70	1,827.89	3,811.43	3,666.39	145.04	26.278		
17,500.00	7,870.00	5,450.00	5,450.00	144.58	94.20	23.94	-4,237.70	1,827.89	3,884.65	3,738.76	145.89	26.627		
17,600.00	7,870.00	5,450.00	5,450.00	146.23	94.20	23.94	-4,237.70	1,827.89	3,959.05	3,812.37	146.69	26.990		
17,700.00	7,870.00	5,450.00	5,450.00	147.89	94.20	23.94	-4,237.70	1,827.89	4,034.55	3,887.12	147.43	27.366		
17,800.00	7,870.00	5,450.00	5,450.00	149.56	94.20	23.94	-4,237.70	1,827.89	4,111.10	3,962.97	148.13	27.753		
17,900.00	7,870.00	5,450.00	5,450.00	151.22	94.20	23.94	-4,237.70	1,827.89	4,188.64	4,039.86	148.79	28.152		
18,000.00	7,870.00	5,450.00	5,450.00	152.89	94.20	23.94	-4,237.70	1,827.89	4,267.11	4,117.71	149.40	28.561		
18,100.00	7,870.00	5,450.00	5,450.00	154.55	94.20	23.94	-4,237.70	1,827.89	4,346.47	4,196.49	149.98	28.980		
18,200.00	7,870.00	5,450.00	5,450.00	156.22	94.20	23.94	-4,237.70	1,827.89	4,426.66	4,276.14	150.52	29.409		
18,300.00	7,870.00	5,450.00	5,450.00	157.90	94.20	23.94	-4,237.70	1,827.89	4,507.65	4,356.62	151.03	29.846		
18,400.00	7,870.00	5,450.00	5,450.00	159.57	94.20	23.94	-4,237.70	1,827.89	4,589.38	4,437.87	151.51	30.291		
18,500.00	7,870.00	5,450.00	5,450.00	161.25	94.20	23.94	-4,237.70	1,827.89	4,671.83	4,519.87	151.96	30.744		
18,600.00	7,870.00	5,450.00	5,450.00	162.93	94.20	23.94	-4,237.70	1,827.89	4,754.95	4,602.56	152.38	31.204		
18,700.00	7,870.00	5,450.00	5,450.00	164.60	94.20	23.94	-4,237.70	1,827.89	4,838.71	4,685.92	152.78	31.670		
18,797.52	7,870.00	5,450.00	5,450.00	166.24	94.20	23.94	-4,237.70	1,827.89	4,920.97	4,767.82	153.15	32.132		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	154.74	-4,569.18	2,155.58	5,052.12					
100.00	100.00	71.29	71.29	0.13	0.11	154.75	-4,569.39	2,155.46	5,052.30	5,052.06	0.25	N/A		
200.00	200.00	166.43	166.42	0.49	0.40	154.75	-4,570.15	2,155.02	5,052.83	5,051.94	0.89	5,668.911		
300.00	300.00	285.75	285.74	0.85	0.83	154.76	-4,570.86	2,154.51	5,053.19	5,051.51	1.68	3,012.717		
400.00	400.00	381.15	381.14	1.21	1.17	154.76	-4,571.06	2,154.39	5,053.32	5,050.95	2.38	2,127.097		
500.00	500.00	482.93	482.92	1.57	1.53	154.77	-4,571.30	2,154.39	5,053.54	5,050.44	3.10	1,631.894		
600.00	600.00	613.20	613.18	1.93	1.99	154.77	-4,571.53	2,153.75	5,053.51	5,049.60	3.92	1,290.343		
700.00	700.00	779.73	779.70	2.29	2.57	154.79	-4,570.15	2,151.77	5,052.13	5,047.28	4.85	1,041.746		
800.00	800.00	874.32	874.28	2.64	2.89	154.79	-4,568.84	2,150.70	5,050.41	5,044.87	5.53	912.515		
900.00	900.00	974.81	974.75	3.00	3.24	154.80	-4,567.52	2,149.74	5,048.81	5,042.56	6.24	808.860		
1,000.00	1,000.00	1,111.49	1,111.41	3.36	3.72	154.80	-4,565.22	2,148.36	5,046.88	5,039.80	7.08	713.168		
1,100.00	1,099.98	1,181.45	1,181.35	3.72	3.96	100.23	-4,564.04	2,147.62	5,045.18	5,037.50	7.68	657.102		
1,200.00	1,199.84	1,274.07	1,273.96	4.07	4.29	100.30	-4,562.74	2,146.78	5,044.45	5,036.10	8.36	603.583		
1,248.57	1,248.25	1,318.84	1,318.72	4.24	4.45	100.34	-4,562.10	2,146.45	5,044.35	5,035.66	8.69	580.489		
1,300.00	1,299.45	1,362.52	1,362.40	4.43	4.60	100.39	-4,561.56	2,146.09	5,044.48	5,035.45	9.03	558.707		
1,400.00	1,398.70	1,445.25	1,445.12	4.80	4.90	100.48	-4,560.79	2,145.28	5,045.44	5,035.75	9.69	520.684		
1,500.00	1,497.47	1,529.67	1,529.53	5.18	5.20	100.60	-4,560.28	2,144.56	5,047.41	5,037.04	10.37	486.665		
1,600.00	1,595.62	1,624.83	1,624.69	5.57	5.54	100.75	-4,559.85	2,143.82	5,050.26	5,039.15	11.11	454.577		
1,700.00	1,693.06	1,722.87	1,722.73	6.00	5.89	100.93	-4,559.39	2,142.94	5,053.79	5,041.90	11.88	425.321		
1,800.00	1,789.64	1,800.00	1,799.85	6.45	6.16	101.07	-4,559.22	2,142.28	5,058.33	5,045.72	12.61	401.171		
1,900.00	1,885.27	1,896.35	1,896.19	6.94	6.51	101.29	-4,559.25	2,141.33	5,063.87	5,050.43	13.44	376.826		
2,000.00	1,979.82	1,990.14	1,989.98	7.47	6.84	101.51	-4,559.35	2,140.25	5,070.27	5,055.97	14.30	354.627		
2,100.00	2,073.17	2,104.51	2,104.34	8.05	7.25	101.84	-4,559.29	2,138.78	5,077.44	5,062.16	15.27	332.408		
2,200.00	2,165.21	2,192.38	2,192.20	8.67	7.56	102.07	-4,559.09	2,137.62	5,085.42	5,069.21	16.20	313.825		
2,300.00	2,255.84	2,291.87	2,291.69	9.35	7.92	102.37	-4,558.78	2,136.37	5,094.41	5,077.18	17.23	295.718		
2,400.00	2,344.94	2,376.96	2,376.76	10.09	8.23	102.61	-4,558.49	2,135.17	5,104.44	5,086.19	18.25	279.673		
2,500.00	2,432.39	2,470.94	2,470.74	10.89	8.56	102.90	-4,558.12	2,134.00	5,115.67	5,096.31	19.36	264.198		
2,519.29	2,449.07	2,489.77	2,489.57	11.05	8.63	102.96	-4,558.01	2,133.81	5,117.96	5,098.37	19.59	261.306		
2,600.00	2,518.69	2,564.92	2,564.72	11.74	8.90	103.38	-4,557.49	2,133.05	5,127.73	5,107.21	20.52	249.912		
2,700.00	2,604.95	2,674.67	2,674.45	12.62	9.29	104.00	-4,556.51	2,131.79	5,140.07	5,118.32	21.75	236.327		
2,800.00	2,691.22	2,757.65	2,757.42	13.52	9.59	104.46	-4,555.57	2,130.58	5,152.59	5,129.69	22.90	225.010		
2,900.00	2,777.48	2,834.65	2,834.40	14.43	9.86	104.89	-4,554.93	2,129.32	5,165.78	5,141.74	24.04	214.901		
3,000.00	2,863.75	2,916.25	2,915.98	15.35	10.16	105.36	-4,554.47	2,127.55	5,179.53	5,154.33	25.20	205.531		
3,100.00	2,950.01	2,995.19	2,994.90	16.28	10.44	105.80	-4,554.16	2,125.69	5,193.85	5,167.49	26.36	197.042		
3,200.00	3,036.27	3,070.23	3,069.92	17.22	10.71	106.22	-4,553.97	2,123.99	5,208.78	5,181.28	27.51	189.368		
3,300.00	3,122.54	3,163.56	3,163.23	18.17	11.05	106.74	-4,553.81	2,121.93	5,224.28	5,195.56	28.72	181.889		
3,400.00	3,208.80	3,250.63	3,250.28	19.13	11.36	107.23	-4,553.48	2,119.96	5,240.05	5,210.14	29.92	175.158		
3,500.00	3,295.07	3,329.90	3,329.53	20.09	11.64	107.67	-4,553.20	2,118.42	5,256.39	5,225.31	31.08	169.119		
3,600.00	3,381.33	3,410.74	3,410.35	21.05	11.93	108.11	-4,553.01	2,116.73	5,273.26	5,241.01	32.25	163.511		
3,700.00	3,467.59	3,483.81	3,483.40	22.02	12.20	108.51	-4,552.97	2,115.21	5,290.73	5,257.34	33.39	158.462		
3,800.00	3,553.86	3,570.56	3,570.14	22.99	12.51	108.98	-4,553.00	2,113.57	5,308.77	5,274.19	34.57	153.547		
3,900.00	3,640.12	3,653.90	3,653.47	23.97	12.81	109.43	-4,552.98	2,112.07	5,327.21	5,291.47	35.74	149.034		
4,000.00	3,726.38	3,741.11	3,740.66	24.95	13.12	109.90	-4,553.04	2,110.36	5,346.15	5,309.23	36.93	144.778		
4,100.00	3,812.65	3,832.31	3,831.84	25.93	13.45	110.39	-4,552.98	2,108.56	5,365.41	5,327.29	38.12	140.752		
4,200.00	3,898.91	3,913.39	3,912.91	26.91	13.74	110.82	-4,552.92	2,107.04	5,385.11	5,345.84	39.27	137.129		
4,300.00	3,985.18	3,993.04	3,992.55	27.90	14.02	111.25	-4,552.92	2,105.62	5,405.32	5,364.91	40.41	133.759		
4,400.00	4,071.44	4,104.97	4,104.46	28.88	14.43	111.83	-4,552.71	2,103.78	5,425.81	5,384.14	41.67	130.209		
4,500.00	4,157.70	4,210.04	4,209.52	29.87	14.80	112.37	-4,551.95	2,102.58	5,446.33	5,403.44	42.90	126.962		
4,600.00	4,243.97	4,313.22	4,312.69	30.86	15.16	112.89	-4,550.73	2,102.10	5,466.97	5,422.86	44.11	123.945		
4,700.00	4,330.23	4,377.98	4,377.44	31.85	15.39	113.21	-4,549.99	2,102.01	5,488.05	5,442.89	45.17	121.506		
4,800.00	4,416.49	4,451.12	4,450.59	32.84	15.65	113.58	-4,549.35	2,101.96	5,509.77	5,463.51	46.25	119.123		
4,900.00	4,502.76	4,529.93	4,529.40	33.84	15.92	113.96	-4,548.85	2,101.76	5,532.02	5,484.67	47.36	116.817		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	4,624.97	4,624.43	34.83	16.26	114.44	-4,548.32	2,101.11	5,554.68	5,506.16	48.52	114.483		
5,100.00	4,675.29	4,762.40	4,761.84	35.82	16.75	115.12	-4,546.89	2,099.04	5,577.20	5,527.36	49.84	111.900		
5,200.00	4,761.55	4,870.98	4,870.38	36.82	17.14	115.66	-4,545.00	2,097.08	5,599.45	5,548.40	51.04	109.698		
5,300.00	4,847.81	4,956.94	4,956.31	37.82	17.45	116.08	-4,543.36	2,095.53	5,621.94	5,569.78	52.16	107.791		
5,400.00	4,934.08	5,033.56	5,032.90	38.81	17.72	116.45	-4,541.96	2,094.14	5,644.88	5,591.65	53.23	106.055		
5,500.00	5,020.34	5,105.02	5,104.35	39.81	17.98	116.80	-4,540.84	2,092.75	5,668.39	5,614.12	54.27	104.448		
5,600.00	5,106.60	5,180.46	5,179.76	40.81	18.25	117.17	-4,539.83	2,091.16	5,692.45	5,637.12	55.32	102.895		
5,700.00	5,192.87	5,263.65	5,262.92	41.81	18.55	117.57	-4,538.84	2,089.31	5,716.98	5,660.58	56.40	101.366		
5,800.00	5,279.13	5,360.33	5,359.57	42.81	18.90	118.04	-4,537.62	2,087.21	5,741.83	5,684.30	57.52	99.818		
5,900.00	5,365.40	5,454.18	5,453.39	43.81	19.24	118.49	-4,536.23	2,085.08	5,766.82	5,708.19	58.63	98.361		
6,000.00	5,451.66	5,535.30	5,534.48	44.81	19.53	118.87	-4,535.01	2,083.21	5,792.15	5,732.47	59.68	97.055		
6,100.00	5,537.92	5,610.76	5,609.92	45.81	19.80	119.23	-4,533.98	2,081.80	5,817.96	5,757.25	60.70	95.846		
6,200.00	5,624.19	5,692.25	5,691.39	46.81	20.09	119.60	-4,532.95	2,080.44	5,844.20	5,782.46	61.74	94.657		
6,300.00	5,710.45	5,758.98	5,758.10	47.81	20.33	119.91	-4,532.23	2,079.46	5,870.94	5,808.22	62.71	93.613		
6,400.00	5,796.72	5,835.23	5,834.35	48.81	20.60	120.25	-4,531.65	2,078.63	5,898.27	5,834.55	63.72	92.563		
6,500.00	5,882.98	5,956.56	5,955.67	49.81	21.04	120.80	-4,530.52	2,077.19	5,925.81	5,860.90	64.91	91.299		
6,600.00	5,969.24	6,116.17	6,115.23	50.82	21.61	121.51	-4,527.24	2,075.43	5,952.58	5,886.35	66.23	89.878		
6,700.00	6,055.51	6,180.21	6,179.24	51.82	21.83	121.79	-4,525.72	2,074.50	5,979.44	5,912.27	67.17	89.019		
6,800.00	6,141.77	6,242.72	6,241.72	52.82	22.06	122.07	-4,524.47	2,073.02	6,006.93	5,938.84	68.10	88.212		
6,900.00	6,228.03	6,300.00	6,298.99	53.83	22.26	122.33	-4,523.54	2,071.83	6,035.08	5,966.09	69.00	87.470		
7,000.00	6,314.30	6,354.18	6,353.15	54.83	22.46	122.56	-4,522.93	2,070.64	6,063.96	5,994.09	69.87	86.784		
7,100.00	6,400.56	6,532.93	6,531.83	55.83	23.10	123.34	-4,520.43	2,067.34	6,093.04	6,021.79	71.25	85.514		
7,200.00	6,486.83	6,600.00	6,598.89	56.84	23.33	123.62	-4,519.09	2,067.10	6,121.67	6,049.50	72.17	84.819		
7,300.00	6,573.09	6,799.98	6,798.77	57.84	24.03	124.43	-4,512.84	2,068.11	6,149.29	6,075.68	73.61	83.535		
7,400.00	6,659.35	6,835.57	6,834.34	58.84	24.15	124.57	-4,511.64	2,068.41	6,177.26	6,102.86	74.40	83.024		
7,500.00	6,745.62	6,870.98	6,869.73	59.85	24.27	124.71	-4,510.76	2,068.72	6,206.21	6,131.03	75.18	82.551		
7,600.00	6,831.88	6,934.55	6,933.29	60.85	24.49	124.96	-4,509.71	2,069.15	6,236.10	6,160.04	76.06	81.985		
7,700.00	6,918.14	7,044.10	7,042.82	61.86	24.87	125.41	-4,507.32	2,068.04	6,265.90	6,188.77	77.13	81.242		
7,800.00	7,004.41	7,100.00	7,098.70	62.86	25.07	125.63	-4,506.21	2,068.12	6,296.13	6,218.16	77.97	80.753		
7,900.00	7,090.67	7,166.18	7,164.87	63.87	25.30	125.89	-4,505.19	2,068.47	6,326.94	6,248.10	78.84	80.246		
8,000.00	7,176.94	7,227.98	7,226.67	64.87	25.52	126.13	-4,504.52	2,068.35	6,358.41	6,278.71	79.70	79.783		
8,027.52	7,200.68	7,247.30	7,245.99	65.15	25.59	126.20	-4,504.34	2,068.22	6,367.16	6,287.22	79.94	79.649		
8,050.00	7,220.18	7,263.13	7,261.81	65.37	25.64	122.81	-4,504.20	2,068.08	6,373.92	6,293.78	80.14	79.536		
8,100.00	7,264.25	7,300.00	7,298.68	65.85	25.78	114.34	-4,503.90	2,067.64	6,385.99	6,305.40	80.59	79.239		
8,150.00	7,308.99	7,362.57	7,361.24	66.28	26.00	104.85	-4,503.32	2,066.79	6,393.85	6,312.69	81.16	78.783		
8,200.00	7,354.07	7,421.43	7,420.09	66.67	26.21	94.68	-4,502.62	2,066.01	6,397.32	6,315.62	81.70	78.299		
8,250.00	7,399.14	7,471.40	7,470.05	67.02	26.39	84.55	-4,501.94	2,065.18	6,396.47	6,314.27	82.20	77.813		
8,300.00	7,443.85	7,500.00	7,498.64	67.32	26.49	75.09	-4,501.52	2,064.62	6,391.37	6,308.77	82.60	77.379		
8,350.00	7,487.88	7,533.01	7,531.65	67.56	26.61	66.87	-4,501.12	2,064.03	6,382.13	6,299.13	83.00	76.897		
8,400.00	7,530.87	7,555.75	7,554.38	67.75	26.69	59.99	-4,500.94	2,063.74	6,368.89	6,285.56	83.33	76.428		
8,450.00	7,572.51	7,577.91	7,576.54	67.90	26.77	54.41	-4,500.84	2,063.55	6,351.73	6,268.08	83.65	75.935		
8,500.00	7,612.48	7,600.00	7,598.63	68.00	26.85	49.98	-4,500.82	2,063.44	6,330.75	6,246.81	83.94	75.417		
8,550.00	7,650.47	8,550.00	7,759.16	68.05	30.18	47.28	-4,499.25	2,063.25	6,305.56	6,217.97	87.59	71.993		
8,600.00	7,686.20	8,600.00	7,794.39	68.06	30.35	44.82	-4,498.61	2,063.40	6,276.56	6,188.61	87.96	71.360		
8,650.00	7,719.39	7,800.00	7,798.61	68.03	27.55	42.92	-4,498.54	2,063.41	6,244.30	6,158.98	85.31	73.194		
8,700.00	7,749.79	7,800.00	7,798.61	67.97	27.55	41.65	-4,498.54	2,063.41	6,209.07	6,123.62	85.44	72.668		
8,750.00	7,777.17	7,800.00	7,798.61	67.87	27.55	41.01	-4,498.54	2,063.41	6,171.10	6,085.54	85.56	72.127		
8,800.00	7,801.32	7,800.00	7,798.61	67.74	27.55	41.03	-4,498.54	2,063.41	6,130.64	6,044.98	85.66	71.571		
8,850.00	7,822.06	7,800.00	7,798.61	67.59	27.55	41.82	-4,498.54	2,063.41	6,087.94	6,002.20	85.74	71.002		
8,900.00	7,839.23	7,800.00	7,798.61	67.41	27.55	43.63	-4,498.54	2,063.41	6,043.29	5,957.47	85.82	70.421		
8,950.00	7,852.69	7,800.00	7,798.61	67.22	27.55	46.95	-4,498.54	2,063.41	5,996.98	5,911.10	85.88	69.831		
9,000.00	7,862.35	7,800.00	7,798.61	67.00	27.55	52.88	-4,498.54	2,063.41	5,949.34	5,863.41	85.93	69.233		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
9,050.00	7,868.14	7,800.00	7,798.61	66.78	27.55	64.05	-4,498.54	2,063.41	5,900.69	5,814.71	85.98	68.629		
9,098.65	7,870.00	7,800.00	7,798.61	66.55	27.55	85.62	-4,498.54	2,063.41	5,852.73	5,766.71	86.02	68.038		
9,100.00	7,870.00	7,800.00	7,798.61	66.55	27.55	85.62	-4,498.54	2,063.41	5,851.39	5,765.37	86.02	68.021		
9,200.00	7,870.00	7,800.00	7,798.61	66.09	27.55	85.62	-4,498.54	2,063.41	5,752.42	5,666.31	86.11	66.805		
9,300.00	7,870.00	7,800.00	7,798.61	65.65	27.55	85.62	-4,498.54	2,063.41	5,653.48	5,567.29	86.19	65.590		
9,400.00	7,870.00	7,800.00	7,798.61	65.24	27.55	85.62	-4,498.54	2,063.41	5,554.59	5,468.30	86.29	64.374		
9,500.00	7,870.00	7,800.00	7,798.61	64.85	27.55	85.62	-4,498.54	2,063.41	5,455.73	5,369.34	86.38	63.157		
9,600.00	7,870.00	7,800.00	7,798.61	64.48	27.55	85.62	-4,498.54	2,063.41	5,356.91	5,270.43	86.48	61.941		
9,700.00	7,870.00	7,800.00	7,798.61	64.13	27.55	85.62	-4,498.54	2,063.41	5,258.14	5,171.55	86.59	60.724		
9,800.00	7,870.00	7,800.00	7,798.61	63.80	27.55	85.62	-4,498.54	2,063.41	5,159.42	5,072.71	86.70	59.508		
9,900.00	7,870.00	7,800.00	7,798.61	63.50	27.55	85.62	-4,498.54	2,063.41	5,060.74	4,973.92	86.82	58.291		
10,000.00	7,870.00	7,800.00	7,798.61	63.22	27.55	85.62	-4,498.54	2,063.41	4,962.12	4,875.18	86.94	57.075		
10,100.00	7,870.00	7,800.00	7,798.61	62.96	27.55	85.62	-4,498.54	2,063.41	4,863.56	4,776.49	87.07	55.858		
10,200.00	7,870.00	7,800.00	7,798.61	62.72	27.55	85.62	-4,498.54	2,063.41	4,765.05	4,677.85	87.21	54.642		
10,300.00	7,870.00	7,800.00	7,798.61	62.50	27.55	85.62	-4,498.54	2,063.41	4,666.61	4,579.26	87.35	53.425		
10,400.00	7,870.00	7,800.00	7,798.61	62.31	27.55	85.62	-4,498.54	2,063.41	4,568.24	4,480.74	87.50	52.210		
10,500.00	7,870.00	7,800.00	7,798.61	62.15	27.55	85.62	-4,498.54	2,063.41	4,469.94	4,382.28	87.66	50.994		
10,600.00	7,870.00	7,800.00	7,798.61	62.01	27.55	85.62	-4,498.54	2,063.41	4,371.71	4,283.89	87.82	49.779		
10,700.00	7,870.00	7,800.00	7,798.61	61.90	27.55	85.62	-4,498.54	2,063.41	4,273.57	4,185.57	88.00	48.564		
10,800.00	7,870.00	7,800.00	7,798.61	61.82	27.55	85.62	-4,498.54	2,063.41	4,175.52	4,087.33	88.18	47.350		
10,900.00	7,870.00	7,800.00	7,798.61	61.78	27.55	85.62	-4,498.54	2,063.41	4,077.56	3,989.18	88.38	46.137		
11,000.00	7,870.00	7,800.00	7,798.61	61.77	27.55	85.62	-4,498.54	2,063.41	3,979.70	3,891.11	88.59	44.925		
11,100.00	7,870.00	7,800.00	7,798.61	61.81	27.55	85.62	-4,498.54	2,063.41	3,881.95	3,793.14	88.81	43.713		
11,200.00	7,870.00	7,800.00	7,798.61	61.90	27.55	85.62	-4,498.54	2,063.41	3,784.32	3,695.28	89.04	42.502		
11,300.00	7,870.00	7,800.00	7,798.61	62.03	27.55	85.62	-4,498.54	2,063.41	3,686.82	3,597.53	89.28	41.293		
11,400.00	7,870.00	7,800.00	7,798.61	62.23	27.55	85.62	-4,498.54	2,063.41	3,589.45	3,499.90	89.55	40.085		
11,500.00	7,870.00	7,800.00	7,798.61	62.50	27.55	85.62	-4,498.54	2,063.41	3,492.23	3,402.41	89.82	38.878		
11,600.00	7,870.00	7,800.00	7,798.61	62.84	27.55	85.62	-4,498.54	2,063.41	3,395.18	3,305.05	90.12	37.674		
11,700.00	7,870.00	7,800.00	7,798.61	63.25	27.55	85.62	-4,498.54	2,063.41	3,298.30	3,207.86	90.44	36.471		
11,800.00	7,870.00	7,800.00	7,798.61	63.76	27.55	85.62	-4,498.54	2,063.41	3,201.61	3,110.83	90.77	35.270		
11,900.00	7,870.00	7,800.00	7,798.61	64.34	27.55	85.62	-4,498.54	2,063.41	3,105.13	3,013.99	91.14	34.072		
12,000.00	7,870.00	7,800.00	7,798.61	65.01	27.55	85.62	-4,498.54	2,063.41	3,008.88	2,917.36	91.52	32.876		
12,100.00	7,870.00	7,800.00	7,798.61	65.77	27.55	85.62	-4,498.54	2,063.41	2,912.88	2,820.95	91.94	31.684		
12,200.00	7,870.00	7,800.00	7,798.61	66.61	27.55	85.62	-4,498.54	2,063.41	2,817.17	2,724.78	92.38	30.494		
12,300.00	7,870.00	7,800.00	7,798.61	67.51	27.55	85.62	-4,498.54	2,063.41	2,721.76	2,628.90	92.86	29.309		
12,400.00	7,870.00	7,800.00	7,798.61	68.49	27.55	85.62	-4,498.54	2,063.41	2,626.69	2,533.31	93.38	28.129		
12,500.00	7,870.00	7,800.00	7,798.61	69.52	27.55	85.62	-4,498.54	2,063.41	2,532.00	2,438.06	93.94	26.953		
12,600.00	7,870.00	7,800.00	7,798.61	70.61	27.55	85.62	-4,498.54	2,063.41	2,437.74	2,343.19	94.55	25.783		
12,700.00	7,870.00	7,800.00	7,798.61	71.75	27.55	85.62	-4,498.54	2,063.41	2,343.95	2,248.75	95.21	24.620		
12,800.00	7,870.00	7,800.00	7,798.61	72.93	27.55	85.62	-4,498.54	2,063.41	2,250.70	2,154.78	95.92	23.464		
12,900.00	7,870.00	7,800.00	7,798.61	74.14	27.55	85.62	-4,498.54	2,063.41	2,158.05	2,061.35	96.70	22.317		
13,000.00	7,870.00	7,800.00	7,798.61	75.39	27.55	85.62	-4,498.54	2,063.41	2,066.09	1,968.54	97.55	21.179		
13,100.00	7,870.00	7,800.00	7,798.61	76.67	27.55	85.62	-4,498.54	2,063.41	1,974.91	1,876.42	98.48	20.053		
13,200.00	7,870.00	7,800.00	7,798.61	77.98	27.55	85.62	-4,498.54	2,063.41	1,884.62	1,785.12	99.50	18.940		
13,300.00	7,870.00	7,800.00	7,798.61	79.31	27.55	85.62	-4,498.54	2,063.41	1,795.36	1,694.74	100.62	17.843		
13,400.00	7,870.00	7,800.00	7,798.61	80.67	27.55	85.62	-4,498.54	2,063.41	1,707.30	1,605.45	101.85	16.763		
13,500.00	7,870.00	7,800.00	7,798.61	82.04	27.55	85.62	-4,498.54	2,063.41	1,620.62	1,517.42	103.20	15.704		
13,600.00	7,870.00	7,800.00	7,798.61	83.43	27.55	85.62	-4,498.54	2,063.41	1,535.56	1,430.88	104.68	14.669		
13,700.00	7,870.00	7,800.00	7,798.61	84.84	27.55	85.62	-4,498.54	2,063.41	1,452.40	1,346.10	106.30	13.663		
13,800.00	7,870.00	7,800.00	7,798.61	86.27	27.55	85.62	-4,498.54	2,063.41	1,371.50	1,263.43	108.07	12.691		
13,900.00	7,870.00	7,800.00	7,798.61	87.71	27.55	85.62	-4,498.54	2,063.41	1,293.27	1,183.28	109.99	11.758		
14,000.00	7,870.00	7,800.00	7,798.61	89.16	27.55	85.62	-4,498.54	2,063.41	1,218.23	1,106.17	112.06	10.871		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
14,100.00	7,870.00	7,800.00	7,798.61	90.63	27.55	85.62	-4,498.54	2,063.41	1,147.00	1,032.76	114.24	10.040		
14,200.00	7,870.00	7,800.00	7,798.61	92.10	27.55	85.62	-4,498.54	2,063.41	1,080.35	963.84	116.51	9.273		
14,300.00	7,870.00	7,800.00	7,798.61	93.59	27.55	85.62	-4,498.54	2,063.41	1,019.16	900.39	118.77	8.581		
14,400.00	7,870.00	7,800.00	7,798.61	95.09	27.55	85.62	-4,498.54	2,063.41	964.48	843.57	120.91	7.977		
14,500.00	7,870.00	7,800.00	7,798.61	96.60	27.55	85.62	-4,498.54	2,063.41	917.48	794.70	122.78	7.473		
14,600.00	7,870.00	7,800.00	7,798.61	98.11	27.55	85.62	-4,498.54	2,063.41	879.37	755.21	124.16	7.083		
14,700.00	7,870.00	7,800.00	7,798.61	99.64	27.55	85.62	-4,498.54	2,063.41	851.37	726.53	124.84	6.820		
14,800.00	7,870.00	7,800.00	7,798.61	101.17	27.55	85.62	-4,498.54	2,063.41	834.49	709.85	124.64	6.695 SF		
14,892.32	7,870.00	7,800.00	7,798.61	102.59	27.55	85.62	-4,498.54	2,063.41	829.37	705.79	123.58	6.711 CC, ES		
14,900.00	7,870.00	7,800.00	7,798.61	102.71	27.55	85.62	-4,498.54	2,063.41	829.40	705.95	123.45	6.718		
15,000.00	7,870.00	7,800.00	7,798.61	104.26	27.55	85.62	-4,498.54	2,063.41	836.33	715.01	121.31	6.894		
15,100.00	7,870.00	7,800.00	7,798.61	105.82	27.55	85.62	-4,498.54	2,063.41	854.97	736.58	118.39	7.222		
15,200.00	7,870.00	7,800.00	7,798.61	107.38	27.55	85.62	-4,498.54	2,063.41	884.60	769.67	114.93	7.697		
15,300.00	7,870.00	7,800.00	7,798.61	108.95	27.55	85.62	-4,498.54	2,063.41	924.15	812.94	111.21	8.310		
15,400.00	7,870.00	7,800.00	7,798.61	110.52	27.55	85.62	-4,498.54	2,063.41	972.41	864.94	107.47	9.048		
15,500.00	7,870.00	7,800.00	7,798.61	112.10	27.55	85.62	-4,498.54	2,063.41	1,028.16	924.26	103.91	9.895		
15,600.00	7,870.00	7,800.00	7,798.61	113.69	27.55	85.62	-4,498.54	2,063.41	1,090.26	989.63	100.63	10.834		
15,700.00	7,870.00	7,800.00	7,798.61	115.28	27.55	85.62	-4,498.54	2,063.41	1,157.67	1,059.98	97.69	11.851		
15,800.00	7,870.00	7,800.00	7,798.61	116.87	27.55	85.62	-4,498.54	2,063.41	1,229.52	1,134.42	95.11	12.928		
15,900.00	7,870.00	7,800.00	7,798.61	118.47	27.55	85.62	-4,498.54	2,063.41	1,305.09	1,212.23	92.87	14.053		
16,000.00	7,870.00	7,800.00	7,798.61	120.07	27.55	85.62	-4,498.54	2,063.41	1,383.76	1,292.82	90.94	15.215		
16,100.00	7,870.00	7,800.00	7,798.61	121.68	27.55	85.62	-4,498.54	2,063.41	1,465.04	1,375.73	89.31	16.405		
16,200.00	7,870.00	7,800.00	7,798.61	123.30	27.55	85.62	-4,498.54	2,063.41	1,548.51	1,460.59	87.92	17.613		
16,300.00	7,870.00	7,800.00	7,798.61	124.91	27.55	85.62	-4,498.54	2,063.41	1,633.83	1,547.09	86.74	18.836		
16,400.00	7,870.00	7,800.00	7,798.61	126.53	27.55	85.62	-4,498.54	2,063.41	1,720.74	1,634.99	85.75	20.067		
16,500.00	7,870.00	7,800.00	7,798.61	128.16	27.55	85.62	-4,498.54	2,063.41	1,809.00	1,724.08	84.92	21.303		
16,600.00	7,870.00	7,800.00	7,798.61	129.79	27.55	85.62	-4,498.54	2,063.41	1,898.43	1,814.21	84.21	22.543		
16,700.00	7,870.00	7,800.00	7,798.61	131.42	27.55	85.62	-4,498.54	2,063.41	1,988.86	1,905.23	83.62	23.784		
16,800.00	7,870.00	7,800.00	7,798.61	133.05	27.55	85.62	-4,498.54	2,063.41	2,080.17	1,997.04	83.13	25.024		
16,900.00	7,870.00	7,800.00	7,798.61	134.69	27.55	85.62	-4,498.54	2,063.41	2,172.24	2,089.53	82.71	26.263		
17,000.00	7,870.00	7,800.00	7,798.61	136.33	27.55	85.62	-4,498.54	2,063.41	2,264.99	2,182.62	82.37	27.499		
17,100.00	7,870.00	7,800.00	7,798.61	137.97	27.55	85.62	-4,498.54	2,063.41	2,358.33	2,276.25	82.08	28.733		
17,200.00	7,870.00	7,800.00	7,798.61	139.62	27.55	85.62	-4,498.54	2,063.41	2,452.19	2,370.35	81.84	29.965		
17,300.00	7,870.00	7,800.00	7,798.61	141.27	27.55	85.62	-4,498.54	2,063.41	2,546.52	2,464.88	81.64	31.193		
17,400.00	7,870.00	7,800.00	7,798.61	142.92	27.55	85.62	-4,498.54	2,063.41	2,641.27	2,559.80	81.47	32.419		
17,500.00	7,870.00	7,800.00	7,798.61	144.58	27.55	85.62	-4,498.54	2,063.41	2,736.39	2,655.05	81.34	33.641		
17,600.00	7,870.00	7,800.00	7,798.61	146.23	27.55	85.62	-4,498.54	2,063.41	2,831.85	2,750.62	81.23	34.860		
17,700.00	7,870.00	7,800.00	7,798.61	147.89	27.55	85.62	-4,498.54	2,063.41	2,927.61	2,846.46	81.15	36.077		
17,800.00	7,870.00	7,800.00	7,798.61	149.56	27.55	85.62	-4,498.54	2,063.41	3,023.65	2,942.56	81.09	37.290		
17,900.00	7,870.00	7,800.00	7,798.61	151.22	27.55	85.62	-4,498.54	2,063.41	3,119.93	3,038.90	81.04	38.500		
18,000.00	7,870.00	7,800.00	7,798.61	152.89	27.55	85.62	-4,498.54	2,063.41	3,216.45	3,135.44	81.00	39.708		
18,100.00	7,870.00	7,793.27	7,791.88	154.55	27.53	85.15	-4,498.71	2,063.32	3,313.16	3,232.16	80.99	40.908		
18,200.00	7,870.00	7,791.43	7,790.05	156.22	27.52	85.03	-4,498.75	2,063.30	3,410.06	3,329.08	80.98	42.109		
18,300.00	7,870.00	7,789.64	7,788.25	157.90	27.52	84.90	-4,498.80	2,063.28	3,507.13	3,426.15	80.98	43.307		
18,400.00	7,870.00	7,787.88	7,786.50	159.57	27.51	84.78	-4,498.84	2,063.26	3,604.37	3,523.37	80.99	44.502		
18,500.00	7,870.00	7,786.17	7,784.78	161.25	27.51	84.67	-4,498.88	2,063.24	3,701.75	3,620.74	81.01	45.695		
18,600.00	7,870.00	7,784.49	7,783.11	162.93	27.50	84.55	-4,498.92	2,063.22	3,799.26	3,718.23	81.03	46.886		
18,700.00	7,870.00	7,782.85	7,781.47	164.60	27.49	84.44	-4,498.96	2,063.20	3,896.90	3,815.84	81.06	48.074		
18,797.52	7,870.00	7,781.29	7,779.91	166.24	27.49	84.33	-4,499.00	2,063.19	3,992.23	3,911.14	81.09	49.231		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16.00	16.00	0.00	0.12	163.32	-7,180.39	2,151.60	7,495.83					
100.00	100.00	116.00	116.00	0.13	1.06	163.32	-7,180.39	2,151.60	7,495.83	7,494.64	1.19	6,297.151		
200.00	200.00	216.00	216.00	0.49	2.80	163.32	-7,180.39	2,151.60	7,495.83	7,492.53	3.29	2,275.494		
300.00	300.00	316.00	316.00	0.85	4.55	163.32	-7,180.39	2,151.60	7,495.83	7,490.43	5.40	1,388.642		
400.00	400.00	416.00	416.00	1.21	6.29	163.32	-7,180.39	2,151.60	7,495.83	7,488.33	7.50	999.210		
500.00	500.00	516.00	516.00	1.57	8.04	163.32	-7,180.39	2,151.60	7,495.83	7,486.22	9.61	780.364		
600.00	600.00	616.00	616.00	1.93	9.78	163.32	-7,180.39	2,151.60	7,495.83	7,484.12	11.71	640.157		
700.00	700.00	716.00	716.00	2.29	11.53	163.32	-7,180.39	2,151.60	7,495.83	7,482.01	13.81	542.658		
800.00	800.00	816.00	816.00	2.64	13.27	163.32	-7,180.39	2,151.60	7,495.83	7,479.91	15.92	470.933		
900.00	900.00	916.00	916.00	3.00	15.02	163.32	-7,180.39	2,151.60	7,495.83	7,477.81	18.02	415.955		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	16.76	163.32	-7,180.39	2,151.60	7,495.83	7,475.70	20.12	372.472		
1,100.00	1,099.98	1,115.98	1,115.98	3.72	18.51	108.70	-7,180.39	2,151.60	7,496.39	7,474.16	22.22	337.300		
1,200.00	1,199.84	1,215.84	1,215.84	4.07	20.25	108.71	-7,180.39	2,151.60	7,498.07	7,473.75	24.32	308.290		
1,300.00	1,299.45	1,315.45	1,315.45	4.43	21.99	108.72	-7,180.39	2,151.60	7,500.87	7,474.45	26.42	283.919		
1,400.00	1,398.70	1,414.70	1,414.70	4.80	23.72	108.73	-7,180.39	2,151.60	7,504.81	7,476.29	28.52	263.156		
1,500.00	1,497.47	1,513.47	1,513.47	5.18	25.45	108.74	-7,180.39	2,151.60	7,509.89	7,479.27	30.62	245.247		
1,600.00	1,595.62	1,611.62	1,611.62	5.57	27.16	108.76	-7,180.39	2,151.60	7,516.13	7,483.40	32.73	229.629		
1,700.00	1,693.06	1,709.06	1,709.06	6.00	28.86	108.78	-7,180.39	2,151.60	7,523.54	7,488.69	34.85	215.879		
1,800.00	1,789.64	1,805.64	1,805.64	6.45	30.55	108.80	-7,180.39	2,151.60	7,532.14	7,495.16	36.98	203.670		
1,900.00	1,885.27	1,901.27	1,901.27	6.94	32.21	108.81	-7,180.39	2,151.60	7,541.95	7,502.82	39.13	192.749		
2,000.00	1,979.82	2,004.18	1,995.82	7.47	34.01	108.82	-7,180.39	2,151.60	7,552.99	7,511.55	41.44	182.270		
2,100.00	2,073.17	2,089.17	2,089.17	8.05	35.49	108.83	-7,180.39	2,151.60	7,565.28	7,521.81	43.48	174.010		
2,200.00	2,165.21	2,181.21	2,181.21	8.67	37.10	108.83	-7,180.39	2,151.60	7,578.86	7,533.18	45.68	165.906		
2,300.00	2,255.84	2,271.84	2,271.84	9.35	38.68	108.82	-7,180.39	2,151.60	7,593.74	7,545.83	47.91	158.500		
2,400.00	2,344.94	2,360.94	2,360.94	10.09	40.24	108.81	-7,180.39	2,151.60	7,609.96	7,559.80	50.16	151.707		
2,500.00	2,432.39	2,448.39	2,448.39	10.89	41.76	108.77	-7,180.39	2,151.60	7,627.54	7,575.10	52.44	145.458		
2,519.29	2,449.07	2,465.07	2,465.07	11.05	42.05	108.77	-7,180.39	2,151.60	7,631.09	7,578.21	52.88	144.310		
2,600.00	2,518.69	2,534.69	2,534.69	11.74	43.27	109.02	-7,180.39	2,151.60	7,646.14	7,591.41	54.74	139.692		
2,700.00	2,604.95	2,620.95	2,620.95	12.62	44.78	109.33	-7,180.39	2,151.60	7,665.06	7,608.00	57.05	134.352		
2,800.00	2,691.22	2,707.22	2,707.22	13.52	46.28	109.65	-7,180.39	2,151.60	7,684.26	7,624.87	59.38	129.402		
2,900.00	2,777.48	2,806.52	2,793.48	14.43	48.01	109.96	-7,180.39	2,151.60	7,703.74	7,641.79	61.95	124.351		
3,000.00	2,863.75	2,879.75	2,879.75	15.35	49.29	110.27	-7,180.39	2,151.60	7,723.51	7,659.43	64.07	120.540		
3,100.00	2,950.01	2,966.01	2,966.01	16.28	50.80	110.58	-7,180.39	2,151.60	7,743.55	7,677.12	66.43	116.567		
3,200.00	3,036.27	3,052.27	3,052.27	17.22	52.30	110.89	-7,180.39	2,151.60	7,763.88	7,695.09	68.79	112.862		
3,300.00	3,122.54	3,138.54	3,138.54	18.17	53.81	111.19	-7,180.39	2,151.60	7,784.48	7,713.32	71.15	109.402		
3,400.00	3,208.80	3,224.80	3,224.80	19.13	55.31	111.50	-7,180.39	2,151.60	7,805.35	7,731.83	73.52	106.165		
3,500.00	3,295.07	3,311.07	3,311.07	20.09	56.82	111.80	-7,180.39	2,151.60	7,826.50	7,750.61	75.89	103.132		
3,600.00	3,381.33	3,402.67	3,397.33	21.05	58.42	112.11	-7,180.39	2,151.60	7,847.91	7,769.56	78.35	100.166		
3,700.00	3,467.59	3,483.59	3,483.59	22.02	59.83	112.41	-7,180.39	2,151.60	7,869.59	7,788.97	80.62	97.609		
3,800.00	3,553.86	3,569.86	3,569.86	22.99	61.34	112.71	-7,180.39	2,151.60	7,891.54	7,808.55	82.99	95.090		
3,900.00	3,640.12	3,656.12	3,656.12	23.97	62.84	113.01	-7,180.39	2,151.60	7,913.75	7,828.39	85.36	92.714		
4,000.00	3,726.38	3,742.38	3,742.38	24.95	64.35	113.30	-7,180.39	2,151.60	7,936.21	7,848.49	87.72	90.471		
4,100.00	3,812.65	3,828.65	3,828.65	25.93	65.85	113.60	-7,180.39	2,151.60	7,958.94	7,868.86	90.08	88.351		
4,200.00	3,898.91	3,914.91	3,914.91	26.91	67.36	113.90	-7,180.39	2,151.60	7,981.92	7,889.48	92.44	86.343		
4,300.00	3,985.18	4,001.18	4,001.18	27.90	68.87	114.19	-7,180.39	2,151.60	8,005.16	7,910.36	94.80	84.440		
4,400.00	4,071.44	4,087.44	4,087.44	28.88	70.37	114.48	-7,180.39	2,151.60	8,028.64	7,931.49	97.16	82.635		
4,500.00	4,157.70	4,173.70	4,173.70	29.87	71.88	114.77	-7,180.39	2,151.60	8,052.38	7,952.87	99.51	80.919		
4,600.00	4,243.97	4,259.97	4,259.97	30.86	73.38	115.06	-7,180.39	2,151.60	8,076.36	7,974.50	101.86	79.287		
4,700.00	4,330.23	4,346.23	4,346.23	31.85	74.89	115.35	-7,180.39	2,151.60	8,100.59	7,996.38	104.21	77.734		
4,800.00	4,416.49	4,432.49	4,432.49	32.84	76.39	115.64	-7,180.39	2,151.60	8,125.06	8,018.51	106.55	76.253		
4,900.00	4,502.76	4,518.76	4,518.76	33.84	77.90	115.92	-7,180.39	2,151.60	8,149.77	8,040.88	108.89	74.841		
5,000.00	4,589.02	4,605.02	4,605.02	34.83	79.40	116.21	-7,180.39	2,151.60	8,174.72	8,063.49	111.23	73.493		

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,708.71	4,691.29	35.82	81.21	116.49	-7,180.39	2,151.60	8,199.91	8,086.04	113.87	72.011		
5,200.00	4,761.55	4,777.55	4,777.55	36.82	82.42	116.77	-7,180.39	2,151.60	8,225.33	8,109.43	115.90	70.971		
5,300.00	4,847.81	4,863.81	4,863.81	37.82	83.92	117.05	-7,180.39	2,151.60	8,250.98	8,132.76	118.22	69.791		
5,400.00	4,934.08	4,950.08	4,950.08	38.81	85.43	117.33	-7,180.39	2,151.60	8,276.86	8,156.31	120.55	68.660		
5,500.00	5,020.34	5,036.34	5,036.34	39.81	86.93	117.61	-7,180.39	2,151.60	8,302.97	8,180.10	122.87	67.576		
5,600.00	5,106.60	5,122.60	5,122.60	40.81	88.44	117.88	-7,180.39	2,151.60	8,329.30	8,204.12	125.18	66.536		
5,700.00	5,192.87	5,208.87	5,208.87	41.81	89.94	118.16	-7,180.39	2,151.60	8,355.86	8,228.36	127.50	65.538		
5,800.00	5,279.13	5,304.87	5,295.13	42.81	91.62	118.43	-7,180.39	2,151.60	8,382.64	8,252.66	129.98	64.494		
5,900.00	5,365.40	5,381.40	5,381.40	43.81	92.95	118.70	-7,180.39	2,151.60	8,409.64	8,277.53	132.11	63.656		
6,000.00	5,451.66	5,467.66	5,467.66	44.81	94.46	118.97	-7,180.39	2,151.60	8,436.85	8,302.44	134.41	62.768		
6,100.00	5,537.92	5,553.92	5,553.92	45.81	95.97	119.24	-7,180.39	2,151.60	8,464.28	8,327.57	136.71	61.914		
6,200.00	5,624.19	5,640.19	5,640.19	46.81	97.47	119.51	-7,180.39	2,151.60	8,491.92	8,352.92	139.00	61.091		
6,300.00	5,710.45	5,726.45	5,726.45	47.81	98.98	119.77	-7,180.39	2,151.60	8,519.77	8,378.48	141.29	60.298		
6,400.00	5,796.72	5,812.72	5,812.72	48.81	100.48	120.04	-7,180.39	2,151.60	8,547.83	8,404.25	143.58	59.534		
6,500.00	5,882.98	5,901.02	5,898.98	49.81	102.02	120.30	-7,180.39	2,151.60	8,576.10	8,430.20	145.90	58.781		
6,600.00	5,969.24	5,985.24	5,985.24	50.82	103.49	120.56	-7,180.39	2,151.60	8,604.57	8,456.43	148.14	58.084		
6,700.00	6,055.51	6,071.51	6,071.51	51.82	105.00	120.82	-7,180.39	2,151.60	8,633.25	8,482.83	150.42	57.396		
6,800.00	6,141.77	6,157.77	6,157.77	52.82	106.50	121.08	-7,180.39	2,151.60	8,662.12	8,509.44	152.69	56.731		
6,900.00	6,228.03	6,244.03	6,244.03	53.83	108.01	121.34	-7,180.39	2,151.60	8,691.20	8,536.24	154.95	56.089		
7,000.00	6,314.30	6,330.30	6,330.30	54.83	109.52	121.60	-7,180.39	2,151.60	8,720.46	8,563.25	157.22	55.468		
7,100.00	6,400.56	6,416.56	6,416.56	55.83	111.02	121.85	-7,180.39	2,151.60	8,749.93	8,590.45	159.48	54.867		
7,200.00	6,486.83	6,502.83	6,502.83	56.84	112.53	122.10	-7,180.39	2,151.60	8,779.59	8,617.85	161.73	54.285		
7,300.00	6,573.09	6,589.09	6,589.09	57.84	114.03	122.36	-7,180.39	2,151.60	8,809.43	8,645.45	163.98	53.722		
7,400.00	6,659.35	6,675.35	6,675.35	58.84	115.54	122.61	-7,180.39	2,151.60	8,839.47	8,673.24	166.23	53.176		
7,500.00	6,745.62	6,761.62	6,761.62	59.85	117.04	122.86	-7,180.39	2,151.60	8,869.69	8,701.22	168.48	52.647		
7,600.00	6,831.88	6,847.88	6,847.88	60.85	118.55	123.10	-7,180.39	2,151.60	8,900.10	8,729.38	170.72	52.134		
7,700.00	6,918.14	6,934.14	6,934.14	61.86	120.05	123.35	-7,180.39	2,151.60	8,930.69	8,757.74	172.95	51.637		
7,800.00	7,004.41	7,020.41	7,020.41	62.86	121.56	123.60	-7,180.39	2,151.60	8,961.46	8,786.28	175.19	51.154		
7,900.00	7,090.67	7,106.67	7,106.67	63.87	123.07	123.84	-7,180.39	2,151.60	8,992.41	8,815.00	177.41	50.686		
8,000.00	7,176.94	7,207.06	7,192.94	64.87	124.82	124.08	-7,180.39	2,151.60	9,023.54	8,843.65	179.89	50.162		
8,027.52	7,200.68	7,216.68	7,216.68	65.15	124.99	124.15	-7,180.39	2,151.60	9,032.14	8,851.89	180.25	50.108		
8,050.00	7,220.18	7,236.18	7,236.18	65.37	125.33	120.77	-7,180.39	2,151.60	9,038.75	8,858.00	180.75	50.006		
8,100.00	7,264.25	7,280.25	7,280.25	65.85	126.10	112.33	-7,180.39	2,151.60	9,050.44	8,868.55	181.89	49.759		
8,150.00	7,308.99	7,324.99	7,324.99	66.28	126.88	102.74	-7,180.39	2,151.60	9,057.90	8,874.87	183.03	49.488		
8,200.00	7,354.07	7,370.07	7,370.07	66.67	127.66	92.48	-7,180.39	2,151.60	9,061.09	8,876.91	184.18	49.197		
8,250.00	7,399.14	7,415.14	7,415.14	67.02	128.45	82.26	-7,180.39	2,151.60	9,059.96	8,874.64	185.32	48.888		
8,300.00	7,443.85	7,459.85	7,459.85	67.32	129.23	72.79	-7,180.39	2,151.60	9,054.55	8,868.11	186.44	48.566		
8,350.00	7,487.88	7,503.88	7,503.88	67.56	130.00	64.52	-7,180.39	2,151.60	9,044.88	8,857.35	187.53	48.232		
8,400.00	7,530.87	7,546.87	7,546.87	67.75	130.75	57.61	-7,180.39	2,151.60	9,031.03	8,842.45	188.58	47.889		
8,450.00	7,572.51	7,588.51	7,588.51	67.90	131.48	51.99	-7,180.39	2,151.60	9,013.11	8,823.52	189.59	47.540		
8,500.00	7,612.48	7,628.48	7,628.48	68.00	132.17	47.50	-7,180.39	2,151.60	8,991.24	8,800.69	190.55	47.186		
8,550.00	7,650.47	7,666.47	7,666.47	68.05	132.84	43.97	-7,180.39	2,151.60	8,965.59	8,774.14	191.45	46.830		
8,600.00	7,686.20	7,702.20	7,702.20	68.06	133.46	41.24	-7,180.39	2,151.60	8,936.35	8,744.06	192.29	46.474		
8,650.00	7,719.39	7,735.39	7,735.39	68.03	134.04	39.19	-7,180.39	2,151.60	8,903.74	8,710.68	193.06	46.119		
8,700.00	7,749.79	7,765.79	7,765.79	67.97	134.57	37.74	-7,180.39	2,151.60	8,867.99	8,674.23	193.76	45.767		
8,750.00	7,777.17	7,806.83	7,793.17	67.87	135.29	36.86	-7,180.39	2,151.60	8,829.39	8,634.76	194.63	45.365		
8,800.00	7,801.32	7,817.32	7,817.32	67.74	135.47	36.56	-7,180.39	2,151.60	8,788.20	8,593.26	194.95	45.080		
8,850.00	7,822.06	7,838.06	7,838.06	67.59	135.83	36.92	-7,180.39	2,151.60	8,744.74	8,549.32	195.42	44.748		
8,900.00	7,839.23	7,855.23	7,855.23	67.41	136.13	38.17	-7,180.39	2,151.60	8,699.34	8,503.53	195.81	44.427		
8,950.00	7,852.69	7,868.69	7,868.69	67.22	136.37	40.80	-7,180.39	2,151.60	8,652.33	8,456.20	196.13	44.116		
9,000.00	7,862.35	7,878.35	7,878.35	67.00	136.53	46.08	-7,180.39	2,151.60	8,604.06	8,407.71	196.36	43.818		
9,050.00	7,868.14	7,884.14	7,884.14	66.78	136.64	58.01	-7,180.39	2,151.60	8,554.91	8,358.40	196.51	43.535		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,098.65	7,870.00	7,886.00	7,886.00	66.55	136.67	90.00	-7,180.39	2,151.60	8,506.57	8,309.99	196.58	43.273		
9,100.00	7,870.00	7,886.00	7,886.00	66.55	136.67	90.00	-7,180.39	2,151.60	8,505.22	8,308.64	196.58	43.266		
9,200.00	7,870.00	7,886.00	7,886.00	66.09	136.67	90.00	-7,180.39	2,151.60	8,405.60	8,208.95	196.64	42.745		
9,300.00	7,870.00	7,886.00	7,886.00	65.65	136.67	90.00	-7,180.39	2,151.60	8,305.98	8,109.27	196.71	42.224		
9,400.00	7,870.00	7,886.00	7,886.00	65.24	136.67	90.00	-7,180.39	2,151.60	8,206.37	8,009.59	196.78	41.703		
9,500.00	7,870.00	7,886.00	7,886.00	64.85	136.67	90.00	-7,180.39	2,151.60	8,106.77	7,909.92	196.85	41.182		
9,600.00	7,870.00	7,886.00	7,886.00	64.48	136.67	90.00	-7,180.39	2,151.60	8,007.18	7,810.25	196.93	40.661		
9,700.00	7,870.00	7,886.00	7,886.00	64.13	136.67	90.00	-7,180.39	2,151.60	7,907.60	7,710.60	197.00	40.139		
9,800.00	7,870.00	7,886.00	7,886.00	63.80	136.67	90.00	-7,180.39	2,151.60	7,808.03	7,610.95	197.08	39.618		
9,900.00	7,870.00	7,886.00	7,886.00	63.50	136.67	90.00	-7,180.39	2,151.60	7,708.48	7,511.31	197.17	39.096		
10,000.00	7,870.00	7,886.00	7,886.00	63.22	136.67	90.00	-7,180.39	2,151.60	7,608.93	7,411.68	197.25	38.574		
10,100.00	7,870.00	7,886.00	7,886.00	62.96	136.67	90.00	-7,180.39	2,151.60	7,509.40	7,312.06	197.34	38.053		
10,200.00	7,870.00	7,886.00	7,886.00	62.72	136.67	90.00	-7,180.39	2,151.60	7,409.88	7,212.45	197.43	37.531		
10,300.00	7,870.00	7,886.00	7,886.00	62.50	136.67	90.00	-7,180.39	2,151.60	7,310.37	7,112.84	197.53	37.009		
10,400.00	7,870.00	7,886.00	7,886.00	62.31	136.67	90.00	-7,180.39	2,151.60	7,210.88	7,013.25	197.63	36.487		
10,500.00	7,870.00	7,886.00	7,886.00	62.15	136.67	90.00	-7,180.39	2,151.60	7,111.40	6,913.67	197.73	35.965		
10,600.00	7,870.00	7,886.00	7,886.00	62.01	136.67	90.00	-7,180.39	2,151.60	7,011.93	6,814.10	197.84	35.443		
10,700.00	7,870.00	7,886.00	7,886.00	61.90	136.67	90.00	-7,180.39	2,151.60	6,912.49	6,714.54	197.95	34.921		
10,800.00	7,870.00	7,886.00	7,886.00	61.82	136.67	90.00	-7,180.39	2,151.60	6,813.05	6,614.99	198.06	34.399		
10,900.00	7,870.00	7,886.00	7,886.00	61.78	136.67	90.00	-7,180.39	2,151.60	6,713.64	6,515.46	198.18	33.877		
11,000.00	7,870.00	7,886.00	7,886.00	61.77	136.67	90.00	-7,180.39	2,151.60	6,614.24	6,415.94	198.30	33.355		
11,100.00	7,870.00	7,886.00	7,886.00	61.81	136.67	90.00	-7,180.39	2,151.60	6,514.86	6,316.43	198.43	32.832		
11,200.00	7,870.00	7,886.00	7,886.00	61.90	136.67	90.00	-7,180.39	2,151.60	6,415.50	6,216.94	198.56	32.310		
11,300.00	7,870.00	7,886.00	7,886.00	62.03	136.67	90.00	-7,180.39	2,151.60	6,316.16	6,117.46	198.70	31.788		
11,400.00	7,870.00	7,886.00	7,886.00	62.23	136.67	90.00	-7,180.39	2,151.60	6,216.84	6,018.00	198.84	31.266		
11,500.00	7,870.00	7,886.00	7,886.00	62.50	136.67	90.00	-7,180.39	2,151.60	6,117.54	5,918.55	198.98	30.744		
11,600.00	7,870.00	7,886.00	7,886.00	62.84	136.67	90.00	-7,180.39	2,151.60	6,018.26	5,819.13	199.14	30.222		
11,700.00	7,870.00	7,886.00	7,886.00	63.25	136.67	90.00	-7,180.39	2,151.60	5,919.01	5,719.72	199.30	29.700		
11,800.00	7,870.00	7,886.00	7,886.00	63.76	136.67	90.00	-7,180.39	2,151.60	5,819.79	5,620.33	199.46	29.177		
11,900.00	7,870.00	7,886.00	7,886.00	64.34	136.67	90.00	-7,180.39	2,151.60	5,720.59	5,520.96	199.63	28.655		
12,000.00	7,870.00	7,886.00	7,886.00	65.01	136.67	90.00	-7,180.39	2,151.60	5,621.42	5,421.61	199.81	28.134		
12,100.00	7,870.00	7,886.00	7,886.00	65.77	136.67	90.00	-7,180.39	2,151.60	5,522.29	5,322.29	200.00	27.612		
12,200.00	7,870.00	7,886.00	7,886.00	66.61	136.67	90.00	-7,180.39	2,151.60	5,423.18	5,222.99	200.19	27.090		
12,300.00	7,870.00	7,886.00	7,886.00	67.51	136.67	90.00	-7,180.39	2,151.60	5,324.10	5,123.71	200.39	26.568		
12,400.00	7,870.00	7,886.00	7,886.00	68.49	136.67	90.00	-7,180.39	2,151.60	5,225.07	5,024.46	200.61	26.046		
12,500.00	7,870.00	7,886.00	7,886.00	69.52	136.67	90.00	-7,180.39	2,151.60	5,126.07	4,925.24	200.83	25.525		
12,600.00	7,870.00	7,886.00	7,886.00	70.61	136.67	90.00	-7,180.39	2,151.60	5,027.10	4,826.05	201.06	25.004		
12,700.00	7,870.00	7,886.00	7,886.00	71.75	136.67	90.00	-7,180.39	2,151.60	4,928.18	4,726.89	201.30	24.482		
12,800.00	7,870.00	7,886.00	7,886.00	72.93	136.67	90.00	-7,180.39	2,151.60	4,829.31	4,627.76	201.55	23.961		
12,900.00	7,870.00	7,886.00	7,886.00	74.14	136.67	90.00	-7,180.39	2,151.60	4,730.48	4,528.67	201.81	23.440		
13,000.00	7,870.00	7,886.00	7,886.00	75.39	136.67	90.00	-7,180.39	2,151.60	4,631.70	4,429.62	202.09	22.920		
13,100.00	7,870.00	7,886.00	7,886.00	76.67	136.67	90.00	-7,180.39	2,151.60	4,532.98	4,330.61	202.37	22.399		
13,200.00	7,870.00	7,886.00	7,886.00	77.98	136.67	90.00	-7,180.39	2,151.60	4,434.31	4,231.64	202.68	21.879		
13,300.00	7,870.00	7,886.00	7,886.00	79.31	136.67	90.00	-7,180.39	2,151.60	4,335.71	4,132.71	203.00	21.359		
13,400.00	7,870.00	7,886.00	7,886.00	80.67	136.67	90.00	-7,180.39	2,151.60	4,237.17	4,033.84	203.33	20.839		
13,500.00	7,870.00	7,886.00	7,886.00	82.04	136.67	90.00	-7,180.39	2,151.60	4,138.70	3,935.02	203.68	20.319		
13,600.00	7,870.00	7,886.00	7,886.00	83.43	136.67	90.00	-7,180.39	2,151.60	4,040.30	3,836.25	204.05	19.800		
13,700.00	7,870.00	7,886.00	7,886.00	84.84	136.67	90.00	-7,180.39	2,151.60	3,941.99	3,737.54	204.44	19.282		
13,800.00	7,870.00	7,886.00	7,886.00	86.27	136.67	90.00	-7,180.39	2,151.60	3,843.76	3,638.90	204.86	18.763		
13,900.00	7,870.00	7,886.00	7,886.00	87.71	136.67	90.00	-7,180.39	2,151.60	3,745.63	3,540.33	205.29	18.245		
14,000.00	7,870.00	7,886.00	7,886.00	89.16	136.67	90.00	-7,180.39	2,151.60	3,647.60	3,441.84	205.76	17.728		
14,100.00	7,870.00	7,886.00	7,886.00	90.63	136.67	90.00	-7,180.39	2,151.60	3,549.67	3,343.43	206.25	17.211		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	7,886.00	7,886.00	92.10	136.67	90.00	-7,180.39	2,151.60	3,451.87	3,245.10	206.77	16.695		
14,300.00	7,870.00	7,886.00	7,886.00	93.59	136.67	90.00	-7,180.39	2,151.60	3,354.20	3,146.88	207.32	16.179		
14,400.00	7,870.00	7,886.00	7,886.00	95.09	136.67	90.00	-7,180.39	2,151.60	3,256.66	3,048.76	207.91	15.664		
14,500.00	7,870.00	7,886.00	7,886.00	96.60	136.67	90.00	-7,180.39	2,151.60	3,159.29	2,950.75	208.54	15.150		
14,600.00	7,870.00	7,886.00	7,886.00	98.11	136.67	90.00	-7,180.39	2,151.60	3,062.08	2,852.87	209.21	14.636		
14,700.00	7,870.00	7,886.00	7,886.00	99.64	136.67	90.00	-7,180.39	2,151.60	2,965.05	2,755.13	209.93	14.124		
14,800.00	7,870.00	7,886.00	7,886.00	101.17	136.67	90.00	-7,180.39	2,151.60	2,868.24	2,657.54	210.70	13.613		
14,900.00	7,870.00	7,886.00	7,886.00	102.71	136.67	90.00	-7,180.39	2,151.60	2,771.64	2,560.11	211.53	13.103		
15,000.00	7,870.00	7,886.00	7,886.00	104.26	136.67	90.00	-7,180.39	2,151.60	2,675.30	2,462.88	212.42	12.594		
15,100.00	7,870.00	7,886.00	7,886.00	105.82	136.67	90.00	-7,180.39	2,151.60	2,579.24	2,365.85	213.38	12.087		
15,200.00	7,870.00	7,886.00	7,886.00	107.38	136.67	90.00	-7,180.39	2,151.60	2,483.48	2,269.06	214.42	11.582		
15,300.00	7,870.00	7,886.00	7,886.00	108.95	136.67	90.00	-7,180.39	2,151.60	2,388.08	2,172.52	215.55	11.079		
15,400.00	7,870.00	7,886.00	7,886.00	110.52	136.67	90.00	-7,180.39	2,151.60	2,293.06	2,076.29	216.78	10.578		
15,500.00	7,870.00	7,886.00	7,886.00	112.10	136.67	90.00	-7,180.39	2,151.60	2,198.49	1,980.38	218.11	10.080		
15,600.00	7,870.00	7,886.00	7,886.00	113.69	136.67	90.00	-7,180.39	2,151.60	2,104.42	1,884.85	219.57	9.584		
15,700.00	7,870.00	7,886.00	7,886.00	115.28	136.67	90.00	-7,180.39	2,151.60	2,010.92	1,789.76	221.16	9.092		
15,800.00	7,870.00	7,886.00	7,886.00	116.87	136.67	90.00	-7,180.39	2,151.60	1,918.08	1,695.17	222.91	8.605		
15,900.00	7,870.00	7,886.00	7,886.00	118.47	136.67	90.00	-7,180.39	2,151.60	1,826.00	1,601.16	224.84	8.121		
16,000.00	7,870.00	7,886.00	7,886.00	120.07	136.67	90.00	-7,180.39	2,151.60	1,734.79	1,507.84	226.96	7.644		
16,100.00	7,870.00	7,886.00	7,886.00	121.68	136.67	90.00	-7,180.39	2,151.60	1,644.61	1,415.31	229.30	7.172		
16,200.00	7,870.00	7,886.00	7,886.00	123.30	136.67	90.00	-7,180.39	2,151.60	1,555.62	1,323.73	231.89	6.709		
16,300.00	7,870.00	7,886.00	7,886.00	124.91	136.67	90.00	-7,180.39	2,151.60	1,468.05	1,233.30	234.75	6.254		
16,400.00	7,870.00	7,886.00	7,886.00	126.53	136.67	90.00	-7,180.39	2,151.60	1,382.18	1,144.25	237.93	5.809		
16,500.00	7,870.00	7,886.00	7,886.00	128.16	136.67	90.00	-7,180.39	2,151.60	1,298.32	1,056.88	241.44	5.377		
16,600.00	7,870.00	7,886.00	7,886.00	129.79	136.67	90.00	-7,180.39	2,151.60	1,216.91	971.60	245.31	4.961		
16,700.00	7,870.00	7,886.00	7,886.00	131.42	136.67	90.00	-7,180.39	2,151.60	1,138.46	888.91	249.55	4.562		
16,800.00	7,870.00	7,886.00	7,886.00	133.05	136.67	90.00	-7,180.39	2,151.60	1,063.63	809.49	254.15	4.185		
16,900.00	7,870.00	7,886.00	7,886.00	134.69	136.67	90.00	-7,180.39	2,151.60	993.25	734.22	259.03	3.834		
17,000.00	7,870.00	7,886.00	7,886.00	136.33	136.67	90.00	-7,180.39	2,151.60	928.32	664.23	264.09	3.515		
17,100.00	7,870.00	7,886.00	7,886.00	137.97	136.67	90.00	-7,180.39	2,151.60	870.06	600.98	269.08	3.233		
17,200.00	7,870.00	7,886.00	7,886.00	139.62	136.67	90.00	-7,180.39	2,151.60	819.90	546.23	273.66	2.996		
17,300.00	7,870.00	7,886.00	7,886.00	141.27	136.67	90.00	-7,180.39	2,151.60	779.39	502.05	277.34	2.810		
17,400.00	7,870.00	7,886.00	7,886.00	142.92	136.67	90.00	-7,180.39	2,151.60	750.12	470.56	279.56	2.683		
17,500.00	7,870.00	7,886.00	7,886.00	144.58	136.67	90.00	-7,180.39	2,151.60	733.42	453.64	279.79	2.621		
17,573.86	7,870.00	7,886.00	7,886.00	145.80	136.67	90.00	-7,180.39	2,151.60	729.70	451.20	278.50	2.620	CC, ES, SF	
17,600.00	7,870.00	7,886.00	7,886.00	146.23	136.67	90.00	-7,180.39	2,151.60	730.16	452.42	277.74	2.629		
17,700.00	7,870.00	7,886.00	7,886.00	147.89	136.67	90.00	-7,180.39	2,151.60	740.52	467.03	273.49	2.708		
17,800.00	7,870.00	7,886.00	7,886.00	149.56	136.67	90.00	-7,180.39	2,151.60	763.93	496.47	267.46	2.856		
17,900.00	7,870.00	7,886.00	7,886.00	151.22	136.67	90.00	-7,180.39	2,151.60	799.26	538.96	260.31	3.070		
18,000.00	7,870.00	7,886.00	7,886.00	152.89	136.67	90.00	-7,180.39	2,151.60	845.01	592.33	252.68	3.344		
18,100.00	7,870.00	7,886.00	7,886.00	154.55	136.67	90.00	-7,180.39	2,151.60	899.60	654.47	245.12	3.670		
18,200.00	7,870.00	7,886.00	7,886.00	156.22	136.67	90.00	-7,180.39	2,151.60	961.51	723.52	238.00	4.040		
18,300.00	7,870.00	7,886.00	7,886.00	157.90	136.67	90.00	-7,180.39	2,151.60	1,029.43	797.94	231.50	4.447		
18,400.00	7,870.00	7,886.00	7,886.00	159.57	136.67	90.00	-7,180.39	2,151.60	1,102.25	876.55	225.70	4.884		
18,500.00	7,870.00	7,886.00	7,886.00	161.25	136.67	90.00	-7,180.39	2,151.60	1,179.06	958.44	220.62	5.344		
18,600.00	7,870.00	7,886.00	7,886.00	162.93	136.67	90.00	-7,180.39	2,151.60	1,259.13	1,042.92	216.21	5.824		
18,700.00	7,870.00	7,886.00	7,886.00	164.60	136.67	90.00	-7,180.39	2,151.60	1,341.88	1,129.48	212.40	6.318		
18,797.52	7,870.00	7,886.00	7,886.00	166.24	136.67	90.00	-7,180.39	2,151.60	1,424.70	1,215.49	209.21	6.810		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	140.17	-6,863.62	5,724.28	8,937.43					
100.00	100.00	67.00	67.00	0.13	0.53	140.17	-6,863.62	5,724.28	8,937.37	8,936.71	0.66	N/A		
200.00	200.00	167.00	167.00	0.49	1.95	140.17	-6,863.62	5,724.28	8,937.37	8,934.92	2.45	3,651.382		
300.00	300.00	267.00	267.00	0.85	3.70	140.17	-6,863.62	5,724.28	8,937.37	8,932.82	4.55	1,963.623		
400.00	400.00	367.00	367.00	1.21	5.45	140.17	-6,863.62	5,724.28	8,937.37	8,930.72	6.66	1,342.901		
500.00	500.00	467.00	467.00	1.57	7.19	140.17	-6,863.62	5,724.28	8,937.37	8,928.61	8.76	1,020.356		
600.00	600.00	567.00	567.00	1.93	8.94	140.17	-6,863.62	5,724.28	8,937.37	8,926.51	10.86	822.745		
700.00	700.00	667.00	667.00	2.29	10.68	140.17	-6,863.62	5,724.28	8,937.37	8,924.40	12.97	689.257		
800.00	800.00	767.00	767.00	2.64	12.43	140.17	-6,863.62	5,724.28	8,937.37	8,922.30	15.07	593.038		
900.00	900.00	867.00	867.00	3.00	14.17	140.17	-6,863.62	5,724.28	8,937.37	8,920.20	17.17	520.393		
1,000.00	1,000.00	967.00	967.00	3.36	15.92	140.17	-6,863.62	5,724.28	8,937.37	8,918.09	19.28	463.603		
1,100.00	1,099.98	1,066.98	1,066.98	3.72	17.66	85.56	-6,863.62	5,724.28	8,937.24	8,915.86	21.38	418.060		
1,200.00	1,199.84	1,166.84	1,166.84	4.07	19.41	85.61	-6,863.62	5,724.28	8,936.83	8,913.36	23.47	380.713		
1,300.00	1,299.45	1,266.45	1,266.45	4.43	21.14	85.67	-6,863.62	5,724.28	8,936.17	8,910.60	25.57	349.472		
1,400.00	1,398.70	1,365.70	1,365.70	4.80	22.88	85.77	-6,863.62	5,724.28	8,935.25	8,907.58	27.67	322.930		
1,500.00	1,497.47	1,464.47	1,464.47	5.18	24.60	85.89	-6,863.62	5,724.28	8,934.10	8,904.33	29.77	300.076		
1,600.00	1,595.62	1,562.62	1,562.62	5.57	26.31	86.04	-6,863.62	5,724.28	8,932.73	8,900.85	31.88	280.161		
1,700.00	1,693.06	1,660.06	1,660.06	6.00	28.01	86.21	-6,863.62	5,724.28	8,931.17	8,897.17	34.01	262.626		
1,800.00	1,789.64	1,756.64	1,756.64	6.45	29.70	86.41	-6,863.62	5,724.28	8,929.45	8,893.30	36.15	247.044		
1,900.00	1,885.27	1,852.27	1,852.27	6.94	31.37	86.62	-6,863.62	5,724.28	8,927.59	8,889.29	38.30	233.084		
2,000.00	1,979.82	1,946.82	1,946.82	7.47	33.02	86.86	-6,863.62	5,724.28	8,925.63	8,885.15	40.48	220.489		
2,100.00	2,073.17	2,040.17	2,040.17	8.05	34.65	87.11	-6,863.62	5,724.28	8,923.61	8,880.93	42.69	209.055		
2,200.00	2,165.21	2,132.21	2,132.21	8.67	36.25	87.38	-6,863.62	5,724.28	8,921.57	8,876.66	44.92	198.619		
2,300.00	2,255.84	2,222.84	2,222.84	9.35	37.84	87.67	-6,863.62	5,724.28	8,919.56	8,872.38	47.18	189.051		
2,400.00	2,344.94	2,311.94	2,311.94	10.09	39.39	87.97	-6,863.62	5,724.28	8,917.63	8,868.15	49.48	180.244		
2,500.00	2,432.39	2,400.61	2,399.39	10.89	40.94	88.28	-6,863.62	5,724.28	8,915.81	8,863.99	51.82	172.039		
2,519.29	2,449.07	2,416.07	2,416.07	11.05	41.21	88.34	-6,863.62	5,724.28	8,915.48	8,863.22	52.26	170.613		
2,600.00	2,518.69	2,485.69	2,485.69	11.74	42.42	88.56	-6,863.62	5,724.28	8,914.20	8,860.04	54.16	164.587		
2,700.00	2,604.95	2,571.95	2,571.95	12.62	43.93	88.84	-6,863.62	5,724.28	8,912.87	8,856.33	56.54	157.628		
2,800.00	2,691.22	2,658.22	2,658.22	13.52	45.43	89.12	-6,863.62	5,724.28	8,911.83	8,852.89	58.95	151.188		
2,900.00	2,777.48	2,744.48	2,744.48	14.43	46.94	89.40	-6,863.62	5,724.28	8,911.08	8,849.72	61.36	145.222		
3,000.00	2,863.75	2,830.75	2,830.75	15.35	48.45	89.69	-6,863.62	5,724.28	8,910.62	8,846.82	63.79	139.684		
3,100.00	2,950.01	2,917.01	2,917.01	16.28	49.95	89.97	-6,863.62	5,724.28	8,910.44	8,844.21	66.23	134.536		
3,112.07	2,960.43	2,927.43	2,927.43	16.39	50.13	90.00	-6,863.62	5,724.28	8,910.44	8,843.91	66.53	133.939		
3,200.00	3,036.27	3,003.27	3,003.27	17.22	51.46	90.25	-6,863.62	5,724.28	8,910.55	8,841.87	68.68	129.743		
3,300.00	3,122.54	3,089.54	3,089.54	18.17	52.96	90.53	-6,863.62	5,724.28	8,910.94	8,839.81	71.13	125.271		
3,400.00	3,208.80	3,175.80	3,175.80	19.13	54.47	90.81	-6,863.62	5,724.28	8,911.63	8,838.03	73.59	121.091		
3,500.00	3,295.07	3,262.07	3,262.07	20.09	55.97	91.09	-6,863.62	5,724.28	8,912.60	8,836.54	76.06	117.178		
3,600.00	3,381.33	3,348.33	3,348.33	21.05	57.48	91.37	-6,863.62	5,724.28	8,913.85	8,835.32	78.53	113.509		
3,700.00	3,467.59	3,434.59	3,434.59	22.02	58.99	91.65	-6,863.62	5,724.28	8,915.40	8,834.39	81.00	110.062		
3,800.00	3,553.86	3,520.86	3,520.86	22.99	60.49	91.93	-6,863.62	5,724.28	8,917.23	8,833.75	83.48	106.819		
3,900.00	3,640.12	3,607.12	3,607.12	23.97	62.00	92.21	-6,863.62	5,724.28	8,919.34	8,833.39	85.96	103.764		
4,000.00	3,726.38	3,706.62	3,693.38	24.95	63.73	92.49	-6,863.62	5,724.28	8,921.75	8,833.08	88.67	100.618		
4,100.00	3,812.65	3,779.65	3,779.65	25.93	65.01	92.77	-6,863.62	5,724.28	8,924.44	8,833.52	90.92	98.156		
4,200.00	3,898.91	3,865.91	3,865.91	26.91	66.51	93.05	-6,863.62	5,724.28	8,927.41	8,834.01	93.40	95.579		
4,300.00	3,985.18	3,952.18	3,952.18	27.90	68.02	93.33	-6,863.62	5,724.28	8,930.67	8,834.79	95.89	93.137		
4,400.00	4,071.44	4,038.44	4,038.44	28.88	69.52	93.61	-6,863.62	5,724.28	8,934.22	8,835.85	98.37	90.821		
4,500.00	4,157.70	4,124.70	4,124.70	29.87	71.03	93.89	-6,863.62	5,724.28	8,938.05	8,837.19	100.86	88.621		
4,600.00	4,243.97	4,210.97	4,210.97	30.86	72.54	94.17	-6,863.62	5,724.28	8,942.16	8,838.82	103.34	86.530		
4,700.00	4,330.23	4,302.77	4,297.23	31.85	74.14	94.45	-6,863.62	5,724.28	8,946.56	8,840.64	105.92	84.463		
4,800.00	4,416.49	4,383.49	4,383.49	32.84	75.55	94.73	-6,863.62	5,724.28	8,951.25	8,842.94	108.31	82.644		
4,900.00	4,502.76	4,469.76	4,469.76	33.84	77.05	95.00	-6,863.62	5,724.28	8,956.21	8,845.42	110.80	80.836		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,589.02	4,556.02	4,556.02	34.83	78.56	95.28	-6,863.62	5,724.28	8,961.46	8,848.18	113.28	79.110		
5,100.00	4,675.29	4,642.29	4,642.29	35.82	80.06	95.56	-6,863.62	5,724.28	8,966.99	8,851.23	115.76	77.461		
5,200.00	4,761.55	4,728.55	4,728.55	36.82	81.57	95.84	-6,863.62	5,724.28	8,972.81	8,854.56	118.24	75.884		
5,300.00	4,847.81	4,814.81	4,814.81	37.82	83.07	96.12	-6,863.62	5,724.28	8,978.90	8,858.18	120.72	74.375		
5,400.00	4,934.08	4,901.08	4,901.08	38.81	84.58	96.39	-6,863.62	5,724.28	8,985.27	8,862.07	123.20	72.930		
5,500.00	5,020.34	4,987.34	4,987.34	39.81	86.09	96.67	-6,863.62	5,724.28	8,991.93	8,866.25	125.68	71.545		
5,600.00	5,106.60	5,042.00	5,042.00	40.81	87.04	96.84	-6,863.62	5,724.28	8,998.92	8,871.32	127.60	70.522		
5,700.00	5,192.87	5,042.00	5,042.00	41.81	87.04	96.84	-6,863.62	5,724.28	9,006.85	8,878.29	128.56	70.062		
5,800.00	5,279.13	5,042.00	5,042.00	42.81	87.04	96.84	-6,863.62	5,724.28	9,015.88	8,886.38	129.49	69.624		
5,900.00	5,365.40	5,042.00	5,042.00	43.81	87.04	96.84	-6,863.62	5,724.28	9,026.01	8,895.59	130.42	69.208		
6,000.00	5,451.66	5,042.00	5,042.00	44.81	87.04	96.84	-6,863.62	5,724.28	9,037.23	8,905.91	131.33	68.814		
6,100.00	5,537.92	5,042.00	5,042.00	45.81	87.04	96.84	-6,863.62	5,724.28	9,049.55	8,917.33	132.22	68.441		
6,200.00	5,624.19	5,042.00	5,042.00	46.81	87.04	96.84	-6,863.62	5,724.28	9,062.95	8,929.85	133.10	68.089		
6,300.00	5,710.45	5,042.00	5,042.00	47.81	87.04	96.84	-6,863.62	5,724.28	9,077.44	8,943.47	133.97	67.757		
6,400.00	5,796.72	5,042.00	5,042.00	48.81	87.04	96.84	-6,863.62	5,724.28	9,093.00	8,958.18	134.82	67.446		
6,500.00	5,882.98	5,042.00	5,042.00	49.81	87.04	96.84	-6,863.62	5,724.28	9,109.63	8,973.98	135.65	67.153		
6,600.00	5,969.24	5,042.00	5,042.00	50.82	87.04	96.84	-6,863.62	5,724.28	9,127.33	8,990.86	136.47	66.879		
6,700.00	6,055.51	5,042.00	5,042.00	51.82	87.04	96.84	-6,863.62	5,724.28	9,146.09	9,008.81	137.28	66.624		
6,800.00	6,141.77	5,042.00	5,042.00	52.82	87.04	96.84	-6,863.62	5,724.28	9,165.90	9,027.83	138.07	66.388		
6,900.00	6,228.03	5,042.00	5,042.00	53.83	87.04	96.84	-6,863.62	5,724.28	9,186.75	9,047.92	138.84	66.168		
7,000.00	6,314.30	5,042.00	5,042.00	54.83	87.04	96.84	-6,863.62	5,724.28	9,208.65	9,069.05	139.60	65.967		
7,100.00	6,400.56	5,042.00	5,042.00	55.83	87.04	96.84	-6,863.62	5,724.28	9,231.58	9,091.24	140.34	65.782		
7,200.00	6,486.83	5,042.00	5,042.00	56.84	87.04	96.84	-6,863.62	5,724.28	9,255.53	9,114.46	141.06	65.613		
7,300.00	6,573.09	5,042.00	5,042.00	57.84	87.04	96.84	-6,863.62	5,724.28	9,280.49	9,138.72	141.77	65.461		
7,400.00	6,659.35	5,042.00	5,042.00	58.84	87.04	96.84	-6,863.62	5,724.28	9,306.46	9,164.00	142.46	65.325		
7,500.00	6,745.62	5,042.00	5,042.00	59.85	87.04	96.84	-6,863.62	5,724.28	9,333.44	9,190.29	143.14	65.204		
7,600.00	6,831.88	5,042.00	5,042.00	60.85	87.04	96.84	-6,863.62	5,724.28	9,361.40	9,217.60	143.80	65.098		
7,700.00	6,918.14	5,042.00	5,042.00	61.86	87.04	96.84	-6,863.62	5,724.28	9,390.34	9,245.89	144.45	65.007		
7,800.00	7,004.41	5,042.00	5,042.00	62.86	87.04	96.84	-6,863.62	5,724.28	9,420.26	9,275.18	145.08	64.931		
7,900.00	7,090.67	5,042.00	5,042.00	63.87	87.04	96.84	-6,863.62	5,724.28	9,451.14	9,305.45	145.70	64.869		
8,000.00	7,176.94	5,042.00	5,042.00	64.87	87.04	96.84	-6,863.62	5,724.28	9,482.98	9,336.68	146.30	64.820		
8,027.52	7,200.68	5,042.00	5,042.00	65.15	87.04	96.84	-6,863.62	5,724.28	9,491.91	9,345.45	146.46	64.809		
8,050.00	7,220.18	5,042.00	5,042.00	65.37	87.04	93.75	-6,863.62	5,724.28	9,498.87	9,352.28	146.59	64.800		
8,100.00	7,264.25	5,042.00	5,042.00	65.85	87.04	85.79	-6,863.62	5,724.28	9,511.77	9,364.91	146.86	64.768		
8,150.00	7,308.99	5,042.00	5,042.00	66.28	87.04	76.49	-6,863.62	5,724.28	9,521.04	9,373.94	147.11	64.723		
8,200.00	7,354.07	5,042.00	5,042.00	66.67	87.04	66.35	-6,863.62	5,724.28	9,526.62	9,379.30	147.32	64.666		
8,250.00	7,399.14	5,042.00	5,042.00	67.02	87.04	56.08	-6,863.62	5,724.28	9,528.46	9,380.96	147.50	64.600		
8,300.00	7,443.85	5,042.00	5,042.00	67.32	87.04	46.38	-6,863.62	5,724.28	9,526.56	9,378.92	147.64	64.526		
8,350.00	7,487.88	5,042.00	5,042.00	67.56	87.04	37.70	-6,863.62	5,724.28	9,520.93	9,373.18	147.74	64.443		
8,400.00	7,530.87	5,042.00	5,042.00	67.75	87.04	30.20	-6,863.62	5,724.28	9,511.60	9,363.79	147.81	64.352		
8,450.00	7,572.51	5,042.00	5,042.00	67.90	87.04	23.78	-6,863.62	5,724.28	9,498.64	9,350.81	147.83	64.254		
8,500.00	7,612.48	5,042.00	5,042.00	68.00	87.04	18.26	-6,863.62	5,724.28	9,482.13	9,334.31	147.82	64.147		
8,550.00	7,650.47	5,042.00	5,042.00	68.05	87.04	13.43	-6,863.62	5,724.28	9,462.17	9,314.40	147.77	64.032		
8,600.00	7,686.20	5,042.00	5,042.00	68.06	87.04	9.10	-6,863.62	5,724.28	9,438.90	9,291.21	147.69	63.908		
8,650.00	7,719.39	5,042.00	5,042.00	68.03	87.04	5.07	-6,863.62	5,724.28	9,412.48	9,264.89	147.59	63.776		
8,700.00	7,749.79	5,042.00	5,042.00	67.97	87.04	1.18	-6,863.62	5,724.28	9,383.07	9,235.61	147.45	63.635		
8,750.00	7,777.17	5,042.00	5,042.00	67.87	87.04	-2.73	-6,863.62	5,724.28	9,350.87	9,203.58	147.29	63.485		
8,800.00	7,801.32	5,042.00	5,042.00	67.74	87.04	-6.81	-6,863.62	5,724.28	9,316.10	9,168.99	147.11	63.327		
8,850.00	7,822.06	5,042.00	5,042.00	67.59	87.04	-11.25	-6,863.62	5,724.28	9,279.00	9,132.09	146.91	63.160		
8,900.00	7,839.23	5,042.00	5,042.00	67.41	87.04	-16.23	-6,863.62	5,724.28	9,239.83	9,093.12	146.70	62.984		
8,950.00	7,852.69	5,042.00	5,042.00	67.22	87.04	-21.97	-6,863.62	5,724.28	9,198.85	9,052.37	146.48	62.800		
9,000.00	7,862.35	5,042.00	5,042.00	67.00	87.04	-28.70	-6,863.62	5,724.28	9,156.36	9,010.11	146.25	62.608		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	5,042.00	5,042.00	66.78	87.04	-36.61	-6,863.62	5,724.28	9,112.66	8,966.64	146.02	62.408		
9,098.65	7,870.00	5,042.00	5,042.00	66.55	87.04	-45.48	-6,863.62	5,724.28	9,069.28	8,923.49	145.79	62.207		
9,100.00	7,870.00	5,042.00	5,042.00	66.55	87.04	-45.48	-6,863.62	5,724.28	9,068.07	8,922.28	145.79	62.201		
9,200.00	7,870.00	5,042.00	5,042.00	66.09	87.04	-45.48	-6,863.62	5,724.28	8,978.35	8,833.03	145.32	61.783		
9,300.00	7,870.00	5,042.00	5,042.00	65.65	87.04	-45.48	-6,863.62	5,724.28	8,888.86	8,744.01	144.85	61.366		
9,400.00	7,870.00	5,042.00	5,042.00	65.24	87.04	-45.48	-6,863.62	5,724.28	8,799.59	8,655.22	144.37	60.950		
9,500.00	7,870.00	5,042.00	5,042.00	64.85	87.04	-45.48	-6,863.62	5,724.28	8,710.56	8,566.66	143.89	60.535		
9,600.00	7,870.00	5,042.00	5,042.00	64.48	87.04	-45.48	-6,863.62	5,724.28	8,621.76	8,478.35	143.41	60.121		
9,700.00	7,870.00	5,042.00	5,042.00	64.13	87.04	-45.48	-6,863.62	5,724.28	8,533.22	8,390.30	142.92	59.707		
9,800.00	7,870.00	5,042.00	5,042.00	63.80	87.04	-45.48	-6,863.62	5,724.28	8,444.93	8,302.50	142.43	59.294		
9,900.00	7,870.00	5,042.00	5,042.00	63.50	87.04	-45.48	-6,863.62	5,724.28	8,356.90	8,214.97	141.93	58.881		
10,000.00	7,870.00	5,042.00	5,042.00	63.22	87.04	-45.48	-6,863.62	5,724.28	8,269.15	8,127.72	141.43	58.469		
10,100.00	7,870.00	5,042.00	5,042.00	62.96	87.04	-45.48	-6,863.62	5,724.28	8,181.67	8,040.75	140.92	58.057		
10,200.00	7,870.00	5,042.00	5,042.00	62.72	87.04	-45.48	-6,863.62	5,724.28	8,094.49	7,954.07	140.42	57.646		
10,300.00	7,870.00	5,042.00	5,042.00	62.50	87.04	-45.48	-6,863.62	5,724.28	8,007.61	7,867.70	139.91	57.235		
10,400.00	7,870.00	5,042.00	5,042.00	62.31	87.04	-45.48	-6,863.62	5,724.28	7,921.03	7,781.63	139.40	56.823		
10,500.00	7,870.00	5,042.00	5,042.00	62.15	87.04	-45.48	-6,863.62	5,724.28	7,834.78	7,695.89	138.89	56.411		
10,600.00	7,870.00	5,042.00	5,042.00	62.01	87.04	-45.48	-6,863.62	5,724.28	7,748.85	7,610.48	138.37	55.999		
10,700.00	7,870.00	5,042.00	5,042.00	61.90	87.04	-45.48	-6,863.62	5,724.28	7,663.27	7,525.41	137.86	55.586		
10,800.00	7,870.00	5,042.00	5,042.00	61.82	87.04	-45.48	-6,863.62	5,724.28	7,578.04	7,440.69	137.35	55.172		
10,900.00	7,870.00	5,042.00	5,042.00	61.78	87.04	-45.48	-6,863.62	5,724.28	7,493.18	7,356.34	136.84	54.757		
11,000.00	7,870.00	5,042.00	5,042.00	61.77	87.04	-45.48	-6,863.62	5,724.28	7,408.69	7,272.36	136.34	54.341		
11,100.00	7,870.00	5,042.00	5,042.00	61.81	87.04	-45.48	-6,863.62	5,724.28	7,324.60	7,188.76	135.83	53.923		
11,200.00	7,870.00	5,042.00	5,042.00	61.90	87.04	-45.48	-6,863.62	5,724.28	7,240.90	7,105.57	135.34	53.503		
11,300.00	7,870.00	5,042.00	5,042.00	62.03	87.04	-45.48	-6,863.62	5,724.28	7,157.63	7,022.79	134.85	53.080		
11,400.00	7,870.00	5,042.00	5,042.00	62.23	87.04	-45.48	-6,863.62	5,724.28	7,074.79	6,940.43	134.36	52.655		
11,500.00	7,870.00	5,042.00	5,042.00	62.50	87.04	-45.48	-6,863.62	5,724.28	6,992.40	6,858.51	133.89	52.226		
11,600.00	7,870.00	5,042.00	5,042.00	62.84	87.04	-45.48	-6,863.62	5,724.28	6,910.48	6,777.05	133.42	51.794		
11,700.00	7,870.00	5,042.00	5,042.00	63.25	87.04	-45.48	-6,863.62	5,724.28	6,829.03	6,696.06	132.97	51.357		
11,800.00	7,870.00	5,042.00	5,042.00	63.76	87.04	-45.48	-6,863.62	5,724.28	6,748.09	6,615.55	132.53	50.916		
11,900.00	7,870.00	5,042.00	5,042.00	64.34	87.04	-45.48	-6,863.62	5,724.28	6,667.66	6,535.54	132.11	50.469		
12,000.00	7,870.00	5,042.00	5,042.00	65.01	87.04	-45.48	-6,863.62	5,724.28	6,587.77	6,456.05	131.71	50.016		
12,100.00	7,870.00	5,042.00	5,042.00	65.77	87.04	-45.48	-6,863.62	5,724.28	6,508.43	6,377.10	131.33	49.558		
12,200.00	7,870.00	5,042.00	5,042.00	66.61	87.04	-45.48	-6,863.62	5,724.28	6,429.67	6,298.70	130.97	49.092		
12,300.00	7,870.00	5,042.00	5,042.00	67.51	87.04	-45.48	-6,863.62	5,724.28	6,351.51	6,220.87	130.64	48.619		
12,400.00	7,870.00	5,042.00	5,042.00	68.49	87.04	-45.48	-6,863.62	5,724.28	6,273.97	6,143.63	130.34	48.137		
12,500.00	7,870.00	5,042.00	5,042.00	69.52	87.04	-45.48	-6,863.62	5,724.28	6,197.07	6,067.00	130.06	47.647		
12,600.00	7,870.00	5,042.00	5,042.00	70.61	87.04	-45.48	-6,863.62	5,724.28	6,120.84	5,991.01	129.82	47.147		
12,700.00	7,870.00	5,042.00	5,042.00	71.75	87.04	-45.48	-6,863.62	5,724.28	6,045.30	5,915.68	129.62	46.638		
12,800.00	7,870.00	5,042.00	5,042.00	72.93	87.04	-45.48	-6,863.62	5,724.28	5,970.48	5,841.02	129.46	46.118		
12,900.00	7,870.00	5,042.00	5,042.00	74.14	87.04	-45.48	-6,863.62	5,724.28	5,896.41	5,767.07	129.34	45.588		
13,000.00	7,870.00	5,042.00	5,042.00	75.39	87.04	-45.48	-6,863.62	5,724.28	5,823.11	5,693.84	129.27	45.046		
13,100.00	7,870.00	5,042.00	5,042.00	76.67	87.04	-45.48	-6,863.62	5,724.28	5,750.62	5,621.37	129.25	44.493		
13,200.00	7,870.00	5,042.00	5,042.00	77.98	87.04	-45.48	-6,863.62	5,724.28	5,678.96	5,549.68	129.28	43.929		
13,300.00	7,870.00	5,042.00	5,042.00	79.31	87.04	-45.48	-6,863.62	5,724.28	5,608.17	5,478.81	129.36	43.353		
13,400.00	7,870.00	5,042.00	5,042.00	80.67	87.04	-45.48	-6,863.62	5,724.28	5,538.28	5,408.78	129.51	42.765		
13,500.00	7,870.00	5,042.00	5,042.00	82.04	87.04	-45.48	-6,863.62	5,724.28	5,469.33	5,339.62	129.71	42.166		
13,600.00	7,870.00	5,042.00	5,042.00	83.43	87.04	-45.48	-6,863.62	5,724.28	5,401.35	5,271.37	129.98	41.555		
13,700.00	7,870.00	5,042.00	5,042.00	84.84	87.04	-45.48	-6,863.62	5,724.28	5,334.38	5,204.06	130.31	40.935		
13,800.00	7,870.00	5,042.00	5,042.00	86.27	87.04	-45.48	-6,863.62	5,724.28	5,268.45	5,137.73	130.72	40.304		
13,900.00	7,870.00	5,042.00	5,042.00	87.71	87.04	-45.48	-6,863.62	5,724.28	5,203.61	5,072.42	131.19	39.664		
14,000.00	7,870.00	5,042.00	5,042.00	89.16	87.04	-45.48	-6,863.62	5,724.28	5,139.90	5,008.16	131.74	39.017		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,042.00	5,042.00	90.63	87.04	-45.48	-6,863.62	5,724.28	5,077.36	4,945.00	132.36	38.362		
14,200.00	7,870.00	5,042.00	5,042.00	92.10	87.04	-45.48	-6,863.62	5,724.28	5,016.03	4,882.98	133.05	37.701		
14,300.00	7,870.00	5,042.00	5,042.00	93.59	87.04	-45.48	-6,863.62	5,724.28	4,955.96	4,822.14	133.82	37.035		
14,400.00	7,870.00	5,042.00	5,042.00	95.09	87.04	-45.48	-6,863.62	5,724.28	4,897.20	4,762.53	134.66	36.367		
14,500.00	7,870.00	5,042.00	5,042.00	96.60	87.04	-45.48	-6,863.62	5,724.28	4,839.79	4,704.20	135.58	35.697		
14,600.00	7,870.00	5,042.00	5,042.00	98.11	87.04	-45.48	-6,863.62	5,724.28	4,783.78	4,647.20	136.58	35.026		
14,700.00	7,870.00	5,042.00	5,042.00	99.64	87.04	-45.48	-6,863.62	5,724.28	4,729.22	4,591.57	137.65	34.357		
14,800.00	7,870.00	5,042.00	5,042.00	101.17	87.04	-45.48	-6,863.62	5,724.28	4,676.16	4,537.37	138.79	33.691		
14,900.00	7,870.00	5,042.00	5,042.00	102.71	87.04	-45.48	-6,863.62	5,724.28	4,624.66	4,484.65	140.01	33.030		
15,000.00	7,870.00	5,042.00	5,042.00	104.26	87.04	-45.48	-6,863.62	5,724.28	4,574.77	4,433.46	141.31	32.375		
15,100.00	7,870.00	5,042.00	5,042.00	105.82	87.04	-45.48	-6,863.62	5,724.28	4,526.53	4,383.86	142.67	31.727		
15,200.00	7,870.00	5,042.00	5,042.00	107.38	87.04	-45.48	-6,863.62	5,724.28	4,480.01	4,335.91	144.10	31.089		
15,300.00	7,870.00	5,042.00	5,042.00	108.95	87.04	-45.48	-6,863.62	5,724.28	4,435.25	4,289.65	145.60	30.462		
15,400.00	7,870.00	5,042.00	5,042.00	110.52	87.04	-45.48	-6,863.62	5,724.28	4,392.32	4,245.16	147.16	29.846		
15,500.00	7,870.00	5,042.00	5,042.00	112.10	87.04	-45.48	-6,863.62	5,724.28	4,351.26	4,202.47	148.79	29.244		
15,600.00	7,870.00	5,042.00	5,042.00	113.69	87.04	-45.48	-6,863.62	5,724.28	4,312.13	4,161.65	150.48	28.657		
15,700.00	7,870.00	5,042.00	5,042.00	115.28	87.04	-45.48	-6,863.62	5,724.28	4,274.98	4,122.76	152.22	28.085		
15,800.00	7,870.00	5,042.00	5,042.00	116.87	87.04	-45.48	-6,863.62	5,724.28	4,239.87	4,085.85	154.01	27.529		
15,900.00	7,870.00	5,042.00	5,042.00	118.47	87.04	-45.48	-6,863.62	5,724.28	4,206.83	4,050.97	155.86	26.991		
16,000.00	7,870.00	5,042.00	5,042.00	120.07	87.04	-45.48	-6,863.62	5,724.28	4,175.94	4,018.19	157.75	26.472		
16,100.00	7,870.00	5,042.00	5,042.00	121.68	87.04	-45.48	-6,863.62	5,724.28	4,147.22	3,987.54	159.69	25.971		
16,200.00	7,870.00	5,042.00	5,042.00	123.30	87.04	-45.48	-6,863.62	5,724.28	4,120.73	3,959.07	161.66	25.490		
16,300.00	7,870.00	5,042.00	5,042.00	124.91	87.04	-45.48	-6,863.62	5,724.28	4,096.51	3,932.85	163.67	25.030		
16,400.00	7,870.00	5,042.00	5,042.00	126.53	87.04	-45.48	-6,863.62	5,724.28	4,074.61	3,908.90	165.70	24.590		
16,500.00	7,870.00	5,042.00	5,042.00	128.16	87.04	-45.48	-6,863.62	5,724.28	4,055.05	3,887.28	167.77	24.171		
16,600.00	7,870.00	5,042.00	5,042.00	129.79	87.04	-45.48	-6,863.62	5,724.28	4,037.87	3,868.02	169.85	23.773		
16,700.00	7,870.00	5,042.00	5,042.00	131.42	87.04	-45.48	-6,863.62	5,724.28	4,023.11	3,851.16	171.95	23.397		
16,800.00	7,870.00	5,042.00	5,042.00	133.05	87.04	-45.48	-6,863.62	5,724.28	4,010.79	3,836.72	174.06	23.042		
16,900.00	7,870.00	5,042.00	5,042.00	134.69	87.04	-45.48	-6,863.62	5,724.28	4,000.92	3,824.75	176.18	22.709		
17,000.00	7,870.00	5,042.00	5,042.00	136.33	87.04	-45.48	-6,863.62	5,724.28	3,993.54	3,815.25	178.30	22.398		
17,100.00	7,870.00	5,042.00	5,042.00	137.97	87.04	-45.48	-6,863.62	5,724.28	3,988.66	3,808.24	180.41	22.109		
17,200.00	7,870.00	5,042.00	5,042.00	139.62	87.04	-45.48	-6,863.62	5,724.28	3,986.27	3,803.76	182.52	21.840		
17,245.03	7,870.00	5,042.00	5,042.00	140.36	87.04	-45.48	-6,863.62	5,724.28	3,986.02	3,802.56	183.46	21.727 CC		
17,300.00	7,870.00	5,042.00	5,042.00	141.27	87.04	-45.48	-6,863.62	5,724.28	3,986.40	3,801.79	184.61	21.594 ES		
17,400.00	7,870.00	5,042.00	5,042.00	142.92	87.04	-45.48	-6,863.62	5,724.28	3,989.03	3,802.35	186.68	21.368		
17,500.00	7,870.00	5,042.00	5,042.00	144.58	87.04	-45.48	-6,863.62	5,724.28	3,994.17	3,805.44	188.73	21.164		
17,600.00	7,870.00	5,042.00	5,042.00	146.23	87.04	-45.48	-6,863.62	5,724.28	4,001.79	3,811.05	190.74	20.980		
17,700.00	7,870.00	5,042.00	5,042.00	147.89	87.04	-45.48	-6,863.62	5,724.28	4,011.90	3,819.17	192.73	20.816		
17,800.00	7,870.00	5,042.00	5,042.00	149.56	87.04	-45.48	-6,863.62	5,724.28	4,024.47	3,829.80	194.67	20.673		
17,900.00	7,870.00	5,042.00	5,042.00	151.22	87.04	-45.48	-6,863.62	5,724.28	4,039.47	3,842.90	196.57	20.549		
18,000.00	7,870.00	5,042.00	5,042.00	152.89	87.04	-45.48	-6,863.62	5,724.28	4,056.89	3,858.46	198.43	20.445		
18,100.00	7,870.00	5,042.00	5,042.00	154.55	87.04	-45.48	-6,863.62	5,724.28	4,076.68	3,876.45	200.24	20.359		
18,200.00	7,870.00	5,042.00	5,042.00	156.22	87.04	-45.48	-6,863.62	5,724.28	4,098.82	3,896.83	201.99	20.292		
18,300.00	7,870.00	5,042.00	5,042.00	157.90	87.04	-45.48	-6,863.62	5,724.28	4,123.27	3,919.58	203.69	20.243		
18,400.00	7,870.00	5,042.00	5,042.00	159.57	87.04	-45.48	-6,863.62	5,724.28	4,149.98	3,944.65	205.32	20.212		
18,500.00	7,870.00	5,042.00	5,042.00	161.25	87.04	-45.48	-6,863.62	5,724.28	4,178.91	3,972.01	206.90	20.198 SF		
18,600.00	7,870.00	5,042.00	5,042.00	162.93	87.04	-45.48	-6,863.62	5,724.28	4,210.02	4,001.61	208.42	20.200		
18,700.00	7,870.00	5,042.00	5,042.00	164.60	87.04	-45.48	-6,863.62	5,724.28	4,243.27	4,033.39	209.87	20.218		
18,797.52	7,870.00	5,042.00	5,042.00	166.24	87.04	-45.48	-6,863.62	5,724.28	4,277.68	4,066.46	211.23	20.252		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.04	-8,182.35	5,721.78	9,984.53					
100.00	100.00	65.00	65.00	0.13	0.53	145.04	-8,182.35	5,721.78	9,984.46	9,983.80	0.67	N/A		
200.00	200.00	165.00	165.00	0.49	1.95	145.04	-8,182.35	5,721.78	9,984.46	9,982.02	2.45	4,079.174		
300.00	300.00	265.00	265.00	0.85	3.70	145.04	-8,182.35	5,721.78	9,984.46	9,979.91	4.55	2,193.680		
400.00	400.00	365.00	365.00	1.21	5.45	145.04	-8,182.35	5,721.78	9,984.46	9,977.81	6.66	1,500.234		
500.00	500.00	465.00	465.00	1.57	7.19	145.04	-8,182.35	5,721.78	9,984.46	9,975.71	8.76	1,139.900		
600.00	600.00	565.00	565.00	1.93	8.94	145.04	-8,182.35	5,721.78	9,984.46	9,973.60	10.86	919.137		
700.00	700.00	665.00	665.00	2.29	10.68	145.04	-8,182.35	5,721.78	9,984.46	9,971.50	12.97	770.010		
800.00	800.00	765.00	765.00	2.64	12.43	145.04	-8,182.35	5,721.78	9,984.46	9,969.39	15.07	662.518		
900.00	900.00	865.00	865.00	3.00	14.17	145.04	-8,182.35	5,721.78	9,984.46	9,967.29	17.17	581.362		
1,000.00	1,000.00	965.00	965.00	3.36	15.92	145.04	-8,182.35	5,721.78	9,984.46	9,965.19	19.28	517.918		
1,100.00	1,099.98	1,064.98	1,064.98	3.72	17.66	90.42	-8,182.35	5,721.78	9,984.48	9,963.10	21.38	467.046		
1,200.00	1,199.84	1,164.84	1,164.84	4.07	19.41	90.45	-8,182.35	5,721.78	9,984.52	9,961.04	23.47	425.341		
1,300.00	1,299.45	1,264.45	1,264.45	4.43	21.14	90.50	-8,182.35	5,721.78	9,984.59	9,959.02	25.57	390.465		
1,400.00	1,398.70	1,363.70	1,363.70	4.80	22.88	90.57	-8,182.35	5,721.78	9,984.71	9,957.04	27.67	360.846		
1,500.00	1,497.47	1,462.47	1,462.47	5.18	24.60	90.65	-8,182.35	5,721.78	9,984.87	9,955.10	29.77	335.351		
1,600.00	1,595.62	1,560.62	1,560.62	5.57	26.31	90.76	-8,182.35	5,721.78	9,985.11	9,953.23	31.89	313.145		
1,700.00	1,693.06	1,658.06	1,658.06	6.00	28.01	90.88	-8,182.35	5,721.78	9,985.44	9,951.43	34.01	293.600		
1,800.00	1,789.64	1,754.64	1,754.64	6.45	29.70	91.01	-8,182.35	5,721.78	9,985.88	9,949.73	36.15	276.239		
1,900.00	1,885.27	1,850.27	1,850.27	6.94	31.37	91.16	-8,182.35	5,721.78	9,986.46	9,948.16	38.31	260.694		
2,000.00	1,979.82	1,944.82	1,944.82	7.47	33.02	91.32	-8,182.35	5,721.78	9,987.21	9,946.72	40.49	246.675		
2,100.00	2,073.17	2,038.17	2,038.17	8.05	34.65	91.49	-8,182.35	5,721.78	9,988.15	9,945.46	42.69	233.955		
2,200.00	2,165.21	2,130.21	2,130.21	8.67	36.25	91.68	-8,182.35	5,721.78	9,989.33	9,944.40	44.93	222.352		
2,300.00	2,255.84	2,220.84	2,220.84	9.35	37.84	91.87	-8,182.35	5,721.78	9,990.77	9,943.58	47.19	211.719		
2,400.00	2,344.94	2,309.94	2,309.94	10.09	39.39	92.06	-8,182.35	5,721.78	9,992.52	9,943.03	49.48	201.937		
2,500.00	2,432.39	2,402.61	2,397.39	10.89	41.01	92.27	-8,182.35	5,721.78	9,994.61	9,942.71	51.90	192.569		
2,519.29	2,449.07	2,414.07	2,414.07	11.05	41.21	92.30	-8,182.35	5,721.78	9,995.06	9,942.80	52.26	191.247		
2,600.00	2,518.69	2,483.69	2,483.69	11.74	42.42	92.51	-8,182.35	5,721.78	9,997.04	9,942.88	54.17	184.561		
2,700.00	2,604.95	2,569.95	2,569.95	12.62	43.93	92.76	-8,182.35	5,721.78	9,999.74	9,943.19	56.55	176.839		
9,400.00	7,870.00	5,020.00	5,020.00	65.24	86.69	-45.29	-8,182.35	5,721.78	9,999.30	9,853.88	145.42	68.760		
9,500.00	7,870.00	5,020.00	5,020.00	64.85	86.69	-45.29	-8,182.35	5,721.78	9,907.74	9,762.72	145.02	68.320		
9,600.00	7,870.00	5,020.00	5,020.00	64.48	86.69	-45.29	-8,182.35	5,721.78	9,816.34	9,671.73	144.61	67.880		
9,700.00	7,870.00	5,020.00	5,020.00	64.13	86.69	-45.29	-8,182.35	5,721.78	9,725.11	9,580.91	144.20	67.441		
9,800.00	7,870.00	5,020.00	5,020.00	63.80	86.69	-45.29	-8,182.35	5,721.78	9,634.06	9,490.27	143.79	67.001		
9,900.00	7,870.00	5,020.00	5,020.00	63.50	86.69	-45.29	-8,182.35	5,721.78	9,543.18	9,399.81	143.37	66.562		
10,000.00	7,870.00	5,020.00	5,020.00	63.22	86.69	-45.29	-8,182.35	5,721.78	9,452.49	9,309.54	142.95	66.123		
10,100.00	7,870.00	5,020.00	5,020.00	62.96	86.69	-45.29	-8,182.35	5,721.78	9,361.99	9,219.46	142.53	65.684		
10,200.00	7,870.00	5,020.00	5,020.00	62.72	86.69	-45.29	-8,182.35	5,721.78	9,271.68	9,129.57	142.11	65.244		
10,300.00	7,870.00	5,020.00	5,020.00	62.50	86.69	-45.29	-8,182.35	5,721.78	9,181.57	9,039.89	141.68	64.804		
10,400.00	7,870.00	5,020.00	5,020.00	62.31	86.69	-45.29	-8,182.35	5,721.78	9,091.68	8,950.42	141.25	64.364		
10,500.00	7,870.00	5,020.00	5,020.00	62.15	86.69	-45.29	-8,182.35	5,721.78	9,001.99	8,861.17	140.82	63.924		
10,600.00	7,870.00	5,020.00	5,020.00	62.01	86.69	-45.29	-8,182.35	5,721.78	8,912.52	8,772.13	140.39	63.483		
10,700.00	7,870.00	5,020.00	5,020.00	61.90	86.69	-45.29	-8,182.35	5,721.78	8,823.28	8,683.32	139.96	63.041		
10,800.00	7,870.00	5,020.00	5,020.00	61.82	86.69	-45.29	-8,182.35	5,721.78	8,734.28	8,594.75	139.53	62.599		
10,900.00	7,870.00	5,020.00	5,020.00	61.78	86.69	-45.29	-8,182.35	5,721.78	8,645.51	8,506.41	139.10	62.155		
11,000.00	7,870.00	5,020.00	5,020.00	61.77	86.69	-45.29	-8,182.35	5,721.78	8,556.99	8,418.32	138.66	61.710		
11,100.00	7,870.00	5,020.00	5,020.00	61.81	86.69	-45.29	-8,182.35	5,721.78	8,468.73	8,330.49	138.23	61.264		
11,200.00	7,870.00	5,020.00	5,020.00	61.90	86.69	-45.29	-8,182.35	5,721.78	8,380.73	8,242.92	137.81	60.816		
11,300.00	7,870.00	5,020.00	5,020.00	62.03	86.69	-45.29	-8,182.35	5,721.78	8,293.00	8,155.62	137.38	60.366		
11,400.00	7,870.00	5,020.00	5,020.00	62.23	86.69	-45.29	-8,182.35	5,721.78	8,205.55	8,068.60	136.96	59.914		
11,500.00	7,870.00	5,020.00	5,020.00	62.50	86.69	-45.29	-8,182.35	5,721.78	8,118.39	7,981.86	136.54	59.460		
11,600.00	7,870.00	5,020.00	5,020.00	62.84	86.69	-45.29	-8,182.35	5,721.78	8,031.53	7,895.41	136.12	59.003		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,700.00	7,870.00	5,020.00	5,020.00	63.25	86.69	-45.29	-8,182.35	5,721.78	7,944.99	7,809.27	135.71	58.543		
11,800.00	7,870.00	5,020.00	5,020.00	63.76	86.69	-45.29	-8,182.35	5,721.78	7,858.76	7,723.45	135.31	58.080		
11,900.00	7,870.00	5,020.00	5,020.00	64.34	86.69	-45.29	-8,182.35	5,721.78	7,772.86	7,637.94	134.92	57.613		
12,000.00	7,870.00	5,020.00	5,020.00	65.01	86.69	-45.29	-8,182.35	5,721.78	7,687.30	7,552.77	134.53	57.142		
12,100.00	7,870.00	5,020.00	5,020.00	65.77	86.69	-45.29	-8,182.35	5,721.78	7,602.09	7,467.94	134.15	56.667		
12,200.00	7,870.00	5,020.00	5,020.00	66.61	86.69	-45.29	-8,182.35	5,721.78	7,517.25	7,383.46	133.79	56.187		
12,300.00	7,870.00	5,020.00	5,020.00	67.51	86.69	-45.29	-8,182.35	5,721.78	7,432.79	7,299.34	133.44	55.701		
12,400.00	7,870.00	5,020.00	5,020.00	68.49	86.69	-45.29	-8,182.35	5,721.78	7,348.71	7,215.61	133.10	55.210		
12,500.00	7,870.00	5,020.00	5,020.00	69.52	86.69	-45.29	-8,182.35	5,721.78	7,265.04	7,132.25	132.78	54.713		
12,600.00	7,870.00	5,020.00	5,020.00	70.61	86.69	-45.29	-8,182.35	5,721.78	7,181.79	7,049.30	132.48	54.209		
12,700.00	7,870.00	5,020.00	5,020.00	71.75	86.69	-45.29	-8,182.35	5,721.78	7,098.96	6,966.76	132.20	53.698		
12,800.00	7,870.00	5,020.00	5,020.00	72.93	86.69	-45.29	-8,182.35	5,721.78	7,016.59	6,884.65	131.94	53.180		
12,900.00	7,870.00	5,020.00	5,020.00	74.14	86.69	-45.29	-8,182.35	5,721.78	6,934.68	6,802.98	131.70	52.653		
13,000.00	7,870.00	5,020.00	5,020.00	75.39	86.69	-45.29	-8,182.35	5,721.78	6,853.25	6,721.76	131.49	52.118		
13,100.00	7,870.00	5,020.00	5,020.00	76.67	86.69	-45.29	-8,182.35	5,721.78	6,772.32	6,641.01	131.31	51.574		
13,200.00	7,870.00	5,020.00	5,020.00	77.98	86.69	-45.29	-8,182.35	5,721.78	6,691.90	6,560.74	131.16	51.021		
13,300.00	7,870.00	5,020.00	5,020.00	79.31	86.69	-45.29	-8,182.35	5,721.78	6,612.02	6,480.98	131.04	50.457		
13,400.00	7,870.00	5,020.00	5,020.00	80.67	86.69	-45.29	-8,182.35	5,721.78	6,532.69	6,401.73	130.96	49.884		
13,500.00	7,870.00	5,020.00	5,020.00	82.04	86.69	-45.29	-8,182.35	5,721.78	6,453.94	6,323.02	130.91	49.300		
13,600.00	7,870.00	5,020.00	5,020.00	83.43	86.69	-45.29	-8,182.35	5,721.78	6,375.78	6,244.87	130.91	48.705		
13,700.00	7,870.00	5,020.00	5,020.00	84.84	86.69	-45.29	-8,182.35	5,721.78	6,298.24	6,167.29	130.94	48.099		
13,800.00	7,870.00	5,020.00	5,020.00	86.27	86.69	-45.29	-8,182.35	5,721.78	6,221.34	6,090.31	131.02	47.482		
13,900.00	7,870.00	5,020.00	5,020.00	87.71	86.69	-45.29	-8,182.35	5,721.78	6,145.10	6,013.95	131.15	46.854		
14,000.00	7,870.00	5,020.00	5,020.00	89.16	86.69	-45.29	-8,182.35	5,721.78	6,069.56	5,938.22	131.33	46.215		
14,100.00	7,870.00	5,020.00	5,020.00	90.63	86.69	-45.29	-8,182.35	5,721.78	5,994.73	5,863.16	131.56	45.565		
14,200.00	7,870.00	5,020.00	5,020.00	92.10	86.69	-45.29	-8,182.35	5,721.78	5,920.64	5,788.79	131.85	44.904		
14,300.00	7,870.00	5,020.00	5,020.00	93.59	86.69	-45.29	-8,182.35	5,721.78	5,847.33	5,715.14	132.19	44.233		
14,400.00	7,870.00	5,020.00	5,020.00	95.09	86.69	-45.29	-8,182.35	5,721.78	5,774.82	5,642.22	132.59	43.552		
14,500.00	7,870.00	5,020.00	5,020.00	96.60	86.69	-45.29	-8,182.35	5,721.78	5,703.14	5,570.08	133.06	42.862		
14,600.00	7,870.00	5,020.00	5,020.00	98.11	86.69	-45.29	-8,182.35	5,721.78	5,632.32	5,498.74	133.58	42.164		
14,700.00	7,870.00	5,020.00	5,020.00	99.64	86.69	-45.29	-8,182.35	5,721.78	5,562.40	5,428.23	134.17	41.458		
14,800.00	7,870.00	5,020.00	5,020.00	101.17	86.69	-45.29	-8,182.35	5,721.78	5,493.41	5,358.58	134.82	40.745		
14,900.00	7,870.00	5,020.00	5,020.00	102.71	86.69	-45.29	-8,182.35	5,721.78	5,425.38	5,289.84	135.54	40.027		
15,000.00	7,870.00	5,020.00	5,020.00	104.26	86.69	-45.29	-8,182.35	5,721.78	5,358.36	5,222.03	136.33	39.304		
15,100.00	7,870.00	5,020.00	5,020.00	105.82	86.69	-45.29	-8,182.35	5,721.78	5,292.38	5,155.19	137.18	38.578		
15,200.00	7,870.00	5,020.00	5,020.00	107.38	86.69	-45.29	-8,182.35	5,721.78	5,227.48	5,089.37	138.11	37.850		
15,300.00	7,870.00	5,020.00	5,020.00	108.95	86.69	-45.29	-8,182.35	5,721.78	5,163.70	5,024.60	139.10	37.122		
15,400.00	7,870.00	5,020.00	5,020.00	110.52	86.69	-45.29	-8,182.35	5,721.78	5,101.08	4,960.92	140.16	36.394		
15,500.00	7,870.00	5,020.00	5,020.00	112.10	86.69	-45.29	-8,182.35	5,721.78	5,039.67	4,898.37	141.30	35.668		
15,600.00	7,870.00	5,020.00	5,020.00	113.69	86.69	-45.29	-8,182.35	5,721.78	4,979.51	4,837.01	142.50	34.945		
15,700.00	7,870.00	5,020.00	5,020.00	115.28	86.69	-45.29	-8,182.35	5,721.78	4,920.65	4,776.88	143.76	34.227		
15,800.00	7,870.00	5,020.00	5,020.00	116.87	86.69	-45.29	-8,182.35	5,721.78	4,863.13	4,718.03	145.10	33.515		
15,900.00	7,870.00	5,020.00	5,020.00	118.47	86.69	-45.29	-8,182.35	5,721.78	4,807.00	4,660.50	146.50	32.811		
16,000.00	7,870.00	5,020.00	5,020.00	120.07	86.69	-45.29	-8,182.35	5,721.78	4,752.32	4,604.34	147.97	32.116		
16,100.00	7,870.00	5,020.00	5,020.00	121.68	86.69	-45.29	-8,182.35	5,721.78	4,699.12	4,549.62	149.51	31.431		
16,200.00	7,870.00	5,020.00	5,020.00	123.30	86.69	-45.29	-8,182.35	5,721.78	4,647.47	4,496.37	151.10	30.757		
16,300.00	7,870.00	5,020.00	5,020.00	124.91	86.69	-45.29	-8,182.35	5,721.78	4,597.42	4,444.66	152.76	30.096		
16,400.00	7,870.00	5,020.00	5,020.00	126.53	86.69	-45.29	-8,182.35	5,721.78	4,549.01	4,394.54	154.48	29.448		
16,500.00	7,870.00	5,020.00	5,020.00	128.16	86.69	-45.29	-8,182.35	5,721.78	4,502.31	4,346.06	156.25	28.815		
16,600.00	7,870.00	5,020.00	5,020.00	129.79	86.69	-45.29	-8,182.35	5,721.78	4,457.35	4,299.28	158.08	28.198		
16,700.00	7,870.00	5,020.00	5,020.00	131.42	86.69	-45.29	-8,182.35	5,721.78	4,414.21	4,254.25	159.96	27.596		
16,800.00	7,870.00	5,020.00	5,020.00	133.05	86.69	-45.29	-8,182.35	5,721.78	4,372.93	4,211.04	161.89	27.013		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
16,900.00	7,870.00	5,020.00	5,020.00	134.69	86.69	-45.29	-8,182.35	5,721.78	4,333.56	4,169.70	163.86	26.447	
17,000.00	7,870.00	5,020.00	5,020.00	136.33	86.69	-45.29	-8,182.35	5,721.78	4,296.16	4,130.28	165.88	25.899	
17,100.00	7,870.00	5,020.00	5,020.00	137.97	86.69	-45.29	-8,182.35	5,721.78	4,260.78	4,092.84	167.94	25.371	
17,200.00	7,870.00	5,020.00	5,020.00	139.62	86.69	-45.29	-8,182.35	5,721.78	4,227.47	4,057.44	170.03	24.863	
17,300.00	7,870.00	5,020.00	5,020.00	141.27	86.69	-45.29	-8,182.35	5,721.78	4,196.28	4,024.12	172.16	24.374	
17,400.00	7,870.00	5,020.00	5,020.00	142.92	86.69	-45.29	-8,182.35	5,721.78	4,167.25	3,992.94	174.32	23.906	
17,500.00	7,870.00	5,020.00	5,020.00	144.58	86.69	-45.29	-8,182.35	5,721.78	4,140.44	3,963.94	176.50	23.459	
17,600.00	7,870.00	5,020.00	5,020.00	146.23	86.69	-45.29	-8,182.35	5,721.78	4,115.88	3,937.18	178.70	23.032	
17,700.00	7,870.00	5,020.00	5,020.00	147.89	86.69	-45.29	-8,182.35	5,721.78	4,093.62	3,912.71	180.92	22.627	
17,800.00	7,870.00	5,020.00	5,020.00	149.56	86.69	-45.29	-8,182.35	5,721.78	4,073.70	3,890.55	183.15	22.243	
17,900.00	7,870.00	5,020.00	5,020.00	151.22	86.69	-45.29	-8,182.35	5,721.78	4,056.14	3,870.76	185.38	21.880	
18,000.00	7,870.00	5,020.00	5,020.00	152.89	86.69	-45.29	-8,182.35	5,721.78	4,040.98	3,853.36	187.62	21.538	
18,100.00	7,870.00	5,020.00	5,020.00	154.55	86.69	-45.29	-8,182.35	5,721.78	4,028.24	3,838.39	189.85	21.218	
18,200.00	7,870.00	5,020.00	5,020.00	156.22	86.69	-45.29	-8,182.35	5,721.78	4,017.96	3,825.88	192.08	20.919	
18,300.00	7,870.00	5,020.00	5,020.00	157.90	86.69	-45.29	-8,182.35	5,721.78	4,010.14	3,815.85	194.29	20.640	
18,400.00	7,870.00	5,020.00	5,020.00	159.57	86.69	-45.29	-8,182.35	5,721.78	4,004.81	3,808.33	196.48	20.382	
18,500.00	7,870.00	5,020.00	5,020.00	161.25	86.69	-45.29	-8,182.35	5,721.78	4,001.97	3,803.31	198.65	20.145	
18,563.75	7,870.00	5,020.00	5,020.00	162.32	86.69	-45.29	-8,182.35	5,721.78	4,001.46	3,801.44	200.02	20.005 CC	
18,600.00	7,870.00	5,020.00	5,020.00	162.93	86.69	-45.29	-8,182.35	5,721.78	4,001.62	3,800.83	200.80	19.929 ES	
18,700.00	7,870.00	5,020.00	5,020.00	164.60	86.69	-45.29	-8,182.35	5,721.78	4,003.78	3,800.87	202.91	19.732	
18,797.52	7,870.00	5,020.00	5,020.00	166.24	86.69	-45.29	-8,182.35	5,721.78	4,008.28	3,803.35	204.93	19.559 SF	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	161.90	-5,565.89	1,818.74	5,855.59					
100.00	100.00	69.00	69.00	0.13	0.56	161.90	-5,565.89	1,818.74	5,855.51	5,854.82	0.69	8,432.275		
200.00	200.00	169.00	169.00	0.49	2.02	161.90	-5,565.89	1,818.74	5,855.51	5,853.00	2.51	2,334.031		
300.00	300.00	269.00	269.00	0.85	3.76	161.90	-5,565.89	1,818.74	5,855.51	5,850.90	4.61	1,269.472		
400.00	400.00	369.00	369.00	1.21	5.51	161.90	-5,565.89	1,818.74	5,855.51	5,848.79	6.72	871.829		
500.00	500.00	469.00	469.00	1.57	7.25	161.90	-5,565.89	1,818.74	5,855.51	5,846.69	8.82	663.878		
600.00	600.00	569.00	569.00	1.93	9.00	161.90	-5,565.89	1,818.74	5,855.51	5,844.59	10.92	536.025		
700.00	700.00	669.00	669.00	2.29	10.74	161.90	-5,565.89	1,818.74	5,855.51	5,842.48	13.03	449.464		
800.00	800.00	769.00	769.00	2.64	12.49	161.90	-5,565.89	1,818.74	5,855.51	5,840.38	15.13	386.973		
900.00	900.00	869.00	869.00	3.00	14.23	161.90	-5,565.89	1,818.74	5,855.51	5,838.28	17.24	339.738		
1,000.00	1,000.00	969.00	969.00	3.36	15.98	161.90	-5,565.89	1,818.74	5,855.51	5,836.17	19.34	302.780		
1,100.00	1,099.98	1,068.98	1,068.98	3.72	17.72	107.29	-5,565.89	1,818.74	5,856.03	5,834.59	21.44	273.145		
1,200.00	1,199.84	1,168.84	1,168.84	4.07	19.47	107.31	-5,565.89	1,818.74	5,857.59	5,834.05	23.54	248.877		
1,300.00	1,299.45	1,268.45	1,268.45	4.43	21.20	107.34	-5,565.89	1,818.74	5,860.19	5,834.56	25.63	228.614		
1,400.00	1,398.70	1,367.70	1,367.70	4.80	22.94	107.38	-5,565.89	1,818.74	5,863.85	5,836.12	27.73	211.439		
1,500.00	1,497.47	1,466.47	1,466.47	5.18	24.66	107.44	-5,565.89	1,818.74	5,868.59	5,838.75	29.84	196.691		
1,600.00	1,595.62	1,564.62	1,564.62	5.57	26.37	107.50	-5,565.89	1,818.74	5,874.41	5,842.47	31.95	183.881		
1,700.00	1,693.06	1,662.06	1,662.06	6.00	28.07	107.57	-5,565.89	1,818.74	5,881.35	5,847.29	34.07	172.643		
1,800.00	1,789.64	1,758.64	1,758.64	6.45	29.76	107.65	-5,565.89	1,818.74	5,889.44	5,853.24	36.20	162.697		
1,900.00	1,885.27	1,854.27	1,854.27	6.94	31.43	107.73	-5,565.89	1,818.74	5,898.69	5,860.34	38.35	153.826		
2,000.00	1,979.82	1,948.82	1,948.82	7.47	33.08	107.82	-5,565.89	1,818.74	5,909.14	5,868.63	40.51	145.862		
2,100.00	2,073.17	2,042.17	2,042.17	8.05	34.71	107.90	-5,565.89	1,818.74	5,920.84	5,878.14	42.70	138.669		
2,200.00	2,165.21	2,134.21	2,134.21	8.67	36.32	107.99	-5,565.89	1,818.74	5,933.81	5,888.90	44.90	132.142		
2,300.00	2,255.84	2,224.84	2,224.84	9.35	37.90	108.07	-5,565.89	1,818.74	5,948.10	5,900.96	47.14	126.192		
2,400.00	2,344.94	2,313.94	2,313.94	10.09	39.45	108.14	-5,565.89	1,818.74	5,963.74	5,914.35	49.39	120.751		
2,500.00	2,432.39	2,401.39	2,401.39	10.89	40.98	108.21	-5,565.89	1,818.74	5,980.78	5,929.11	51.67	115.758		
2,519.29	2,449.07	2,418.07	2,418.07	11.05	41.27	108.22	-5,565.89	1,818.74	5,984.23	5,932.12	52.11	114.843		
2,600.00	2,518.69	2,487.69	2,487.69	11.74	42.48	108.54	-5,565.89	1,818.74	5,998.90	5,944.94	53.96	111.164		
2,700.00	2,604.95	2,573.95	2,573.95	12.62	43.99	108.94	-5,565.89	1,818.74	6,017.42	5,961.14	56.28	106.918		
2,800.00	2,691.22	2,660.22	2,660.22	13.52	45.50	109.34	-5,565.89	1,818.74	6,036.30	5,977.69	58.61	102.991		
2,900.00	2,777.48	2,746.48	2,746.48	14.43	47.00	109.74	-5,565.89	1,818.74	6,055.55	5,994.60	60.95	99.353		
3,000.00	2,863.75	2,832.75	2,832.75	15.35	48.51	110.13	-5,565.89	1,818.74	6,075.15	6,011.86	63.30	95.980		
3,100.00	2,950.01	2,919.01	2,919.01	16.28	50.01	110.53	-5,565.89	1,818.74	6,095.12	6,029.47	65.65	92.845		
3,200.00	3,036.27	3,005.27	3,005.27	17.22	51.52	110.92	-5,565.89	1,818.74	6,115.43	6,047.43	68.00	89.929		
3,300.00	3,122.54	3,108.46	3,091.54	18.17	53.32	111.31	-5,565.89	1,818.74	6,136.10	6,065.44	70.66	86.845		
3,400.00	3,208.80	3,177.80	3,177.80	19.13	54.53	111.70	-5,565.89	1,818.74	6,157.11	6,084.39	72.72	84.670		
3,500.00	3,295.07	3,264.07	3,264.07	20.09	56.03	112.08	-5,565.89	1,818.74	6,178.47	6,103.39	75.08	82.295		
3,600.00	3,381.33	3,350.33	3,350.33	21.05	57.54	112.46	-5,565.89	1,818.74	6,200.16	6,122.72	77.44	80.069		
3,700.00	3,467.59	3,436.59	3,436.59	22.02	59.05	112.84	-5,565.89	1,818.74	6,222.19	6,142.40	79.79	77.981		
3,800.00	3,553.86	3,522.86	3,522.86	22.99	60.55	113.22	-5,565.89	1,818.74	6,244.55	6,162.40	82.15	76.018		
3,900.00	3,640.12	3,609.12	3,609.12	23.97	62.06	113.60	-5,565.89	1,818.74	6,267.24	6,182.74	84.50	74.170		
4,000.00	3,726.38	3,704.62	3,695.38	24.95	63.72	113.97	-5,565.89	1,818.74	6,290.25	6,203.25	87.01	72.294		
4,100.00	3,812.65	3,781.65	3,781.65	25.93	65.07	114.35	-5,565.89	1,818.74	6,313.59	6,224.40	89.19	70.785		
4,200.00	3,898.91	3,867.91	3,867.91	26.91	66.57	114.72	-5,565.89	1,818.74	6,337.25	6,245.71	91.54	69.231		
4,300.00	3,985.18	3,954.18	3,954.18	27.90	68.08	115.08	-5,565.89	1,818.74	6,361.21	6,267.34	93.88	67.761		
4,400.00	4,071.44	4,040.44	4,040.44	28.88	69.59	115.45	-5,565.89	1,818.74	6,385.49	6,289.28	96.21	66.368		
4,500.00	4,157.70	4,126.70	4,126.70	29.87	71.09	115.81	-5,565.89	1,818.74	6,410.08	6,311.53	98.55	65.047		
4,600.00	4,243.97	4,212.97	4,212.97	30.86	72.60	116.17	-5,565.89	1,818.74	6,434.97	6,334.10	100.87	63.793		
4,700.00	4,330.23	4,300.77	4,299.23	31.85	74.13	116.53	-5,565.89	1,818.74	6,460.16	6,356.93	103.22	62.584		
4,800.00	4,416.49	4,385.49	4,385.49	32.84	75.61	116.89	-5,565.89	1,818.74	6,485.65	6,380.13	105.52	61.466		
4,900.00	4,502.76	4,471.76	4,471.76	33.84	77.11	117.24	-5,565.89	1,818.74	6,511.43	6,403.59	107.83	60.385		
5,000.00	4,589.02	4,558.02	4,558.02	34.83	78.62	117.60	-5,565.89	1,818.74	6,537.50	6,427.35	110.14	59.355		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,644.29	4,644.29	35.82	80.12	117.95	-5,565.89	1,818.74	6,563.85	6,451.40	112.45	58.372		
5,200.00	4,761.55	4,730.55	4,730.55	36.82	81.63	118.29	-5,565.89	1,818.74	6,590.49	6,475.74	114.75	57.434		
5,300.00	4,847.81	4,816.81	4,816.81	37.82	83.14	118.64	-5,565.89	1,818.74	6,617.41	6,500.36	117.05	56.537		
5,400.00	4,934.08	4,903.08	4,903.08	38.81	84.64	118.98	-5,565.89	1,818.74	6,644.60	6,525.26	119.34	55.679		
5,500.00	5,020.34	4,989.34	4,989.34	39.81	86.15	119.32	-5,565.89	1,818.74	6,672.07	6,550.44	121.63	54.857		
5,600.00	5,106.60	5,075.60	5,075.60	40.81	87.65	119.66	-5,565.89	1,818.74	6,699.80	6,575.90	123.91	54.071		
5,700.00	5,192.87	5,125.00	5,125.00	41.81	88.51	119.86	-5,565.89	1,818.74	6,727.91	6,602.38	125.52	53.598		
5,800.00	5,279.13	5,125.00	5,125.00	42.81	88.51	119.86	-5,565.89	1,818.74	6,757.19	6,630.96	126.23	53.529		
5,900.00	5,365.40	5,125.00	5,125.00	43.81	88.51	119.86	-5,565.89	1,818.74	6,787.83	6,660.91	126.92	53.482		
6,000.00	5,451.66	5,125.00	5,125.00	44.81	88.51	119.86	-5,565.89	1,818.74	6,819.79	6,692.21	127.57	53.457		
6,100.00	5,537.92	5,125.00	5,125.00	45.81	88.51	119.86	-5,565.89	1,818.74	6,853.06	6,724.85	128.21	53.453		
6,200.00	5,624.19	5,125.00	5,125.00	46.81	88.51	119.86	-5,565.89	1,818.74	6,887.62	6,758.81	128.81	53.470		
6,300.00	5,710.45	5,125.00	5,125.00	47.81	88.51	119.86	-5,565.89	1,818.74	6,923.46	6,794.06	129.39	53.507		
6,400.00	5,796.72	5,125.00	5,125.00	48.81	88.51	119.86	-5,565.89	1,818.74	6,960.54	6,830.60	129.95	53.564		
6,500.00	5,882.98	5,125.00	5,125.00	49.81	88.51	119.86	-5,565.89	1,818.74	6,998.86	6,868.38	130.48	53.639		
6,600.00	5,969.24	5,125.00	5,125.00	50.82	88.51	119.86	-5,565.89	1,818.74	7,038.40	6,907.41	130.99	53.732		
6,700.00	6,055.51	5,125.00	5,125.00	51.82	88.51	119.86	-5,565.89	1,818.74	7,079.12	6,947.65	131.47	53.844		
6,800.00	6,141.77	5,125.00	5,125.00	52.82	88.51	119.86	-5,565.89	1,818.74	7,121.02	6,989.08	131.94	53.973		
6,900.00	6,228.03	5,125.00	5,125.00	53.83	88.51	119.86	-5,565.89	1,818.74	7,164.06	7,031.68	132.38	54.119		
7,000.00	6,314.30	5,125.00	5,125.00	54.83	88.51	119.86	-5,565.89	1,818.74	7,208.24	7,075.44	132.80	54.281		
7,100.00	6,400.56	5,125.00	5,125.00	55.83	88.51	119.86	-5,565.89	1,818.74	7,253.52	7,120.33	133.19	54.459		
7,200.00	6,486.83	5,125.00	5,125.00	56.84	88.51	119.86	-5,565.89	1,818.74	7,299.90	7,166.33	133.57	54.652		
7,300.00	6,573.09	5,125.00	5,125.00	57.84	88.51	119.86	-5,565.89	1,818.74	7,347.34	7,213.42	133.93	54.861		
7,400.00	6,659.35	5,125.00	5,125.00	58.84	88.51	119.86	-5,565.89	1,818.74	7,395.84	7,261.57	134.26	55.084		
7,500.00	6,745.62	5,125.00	5,125.00	59.85	88.51	119.86	-5,565.89	1,818.74	7,445.35	7,310.77	134.58	55.321		
7,600.00	6,831.88	5,125.00	5,125.00	60.85	88.51	119.86	-5,565.89	1,818.74	7,495.88	7,361.00	134.89	55.572		
7,700.00	6,918.14	5,125.00	5,125.00	61.86	88.51	119.86	-5,565.89	1,818.74	7,547.39	7,412.22	135.17	55.837		
7,800.00	7,004.41	5,125.00	5,125.00	62.86	88.51	119.86	-5,565.89	1,818.74	7,599.87	7,464.44	135.44	56.114		
7,900.00	7,090.67	5,125.00	5,125.00	63.87	88.51	119.86	-5,565.89	1,818.74	7,653.30	7,517.61	135.69	56.404		
8,000.00	7,176.94	5,125.00	5,125.00	64.87	88.51	119.86	-5,565.89	1,818.74	7,707.65	7,571.73	135.92	56.707		
8,027.52	7,200.68	5,125.00	5,125.00	65.15	88.51	119.86	-5,565.89	1,818.74	7,722.77	7,586.79	135.98	56.792		
8,050.00	7,220.18	5,125.00	5,125.00	65.37	88.51	116.50	-5,565.89	1,818.74	7,734.80	7,598.77	136.03	56.860		
8,100.00	7,264.25	5,125.00	5,125.00	65.85	88.51	108.07	-5,565.89	1,818.74	7,759.01	7,622.87	136.14	56.993		
8,150.00	7,308.99	5,125.00	5,125.00	66.28	88.51	98.46	-5,565.89	1,818.74	7,779.57	7,643.34	136.24	57.103		
8,200.00	7,354.07	5,125.00	5,125.00	66.67	88.51	88.14	-5,565.89	1,818.74	7,796.37	7,660.05	136.33	57.189		
8,250.00	7,399.14	5,125.00	5,125.00	67.02	88.51	77.83	-5,565.89	1,818.74	7,809.30	7,672.90	136.40	57.253		
8,300.00	7,443.85	5,125.00	5,125.00	67.32	88.51	68.24	-5,565.89	1,818.74	7,818.29	7,681.83	136.45	57.296		
8,350.00	7,487.88	5,125.00	5,125.00	67.56	88.51	59.80	-5,565.89	1,818.74	7,823.26	7,686.77	136.49	57.318		
8,400.00	7,530.87	5,125.00	5,125.00	67.75	88.51	52.68	-5,565.89	1,818.74	7,824.21	7,687.71	136.50	57.319		
8,450.00	7,572.51	5,125.00	5,125.00	67.90	88.51	46.81	-5,565.89	1,818.74	7,821.11	7,684.62	136.49	57.300		
8,500.00	7,612.48	5,125.00	5,125.00	68.00	88.51	42.01	-5,565.89	1,818.74	7,814.00	7,677.53	136.47	57.259		
8,550.00	7,650.47	5,125.00	5,125.00	68.05	88.51	38.09	-5,565.89	1,818.74	7,802.90	7,666.49	136.42	57.198		
8,600.00	7,686.20	5,125.00	5,125.00	68.06	88.51	34.90	-5,565.89	1,818.74	7,787.90	7,651.55	136.35	57.116		
8,650.00	7,719.39	5,125.00	5,125.00	68.03	88.51	32.28	-5,565.89	1,818.74	7,769.08	7,632.81	136.27	57.012		
8,700.00	7,749.79	5,125.00	5,125.00	67.97	88.51	30.13	-5,565.89	1,818.74	7,746.56	7,610.38	136.17	56.887		
8,750.00	7,777.17	5,125.00	5,125.00	67.87	88.51	28.34	-5,565.89	1,818.74	7,720.47	7,584.41	136.07	56.741		
8,800.00	7,801.32	5,125.00	5,125.00	67.74	88.51	26.86	-5,565.89	1,818.74	7,690.99	7,555.04	135.95	56.573		
8,850.00	7,822.06	5,125.00	5,125.00	67.59	88.51	25.63	-5,565.89	1,818.74	7,658.30	7,522.47	135.82	56.384		
8,900.00	7,839.23	5,125.00	5,125.00	67.41	88.51	24.60	-5,565.89	1,818.74	7,622.60	7,486.90	135.69	56.175		
8,950.00	7,852.69	5,125.00	5,125.00	67.22	88.51	23.72	-5,565.89	1,818.74	7,584.13	7,448.56	135.57	55.944		
9,000.00	7,862.35	5,125.00	5,125.00	67.00	88.51	22.94	-5,565.89	1,818.74	7,543.14	7,407.70	135.44	55.694		
9,050.00	7,868.14	5,125.00	5,125.00	66.78	88.51	22.22	-5,565.89	1,818.74	7,499.91	7,364.59	135.32	55.424		

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,098.65	7,870.00	5,125.00	5,125.00	66.55	88.51	21.48	-5,565.89	1,818.74	7,455.97	7,320.76	135.21	55.144		
9,100.00	7,870.00	5,125.00	5,125.00	66.55	88.51	21.48	-5,565.89	1,818.74	7,454.72	7,319.51	135.21	55.135		
9,200.00	7,870.00	5,125.00	5,125.00	66.09	88.51	21.48	-5,565.89	1,818.74	7,362.80	7,227.81	134.98	54.546		
9,300.00	7,870.00	5,125.00	5,125.00	65.65	88.51	21.48	-5,565.89	1,818.74	7,271.08	7,136.33	134.75	53.958		
9,400.00	7,870.00	5,125.00	5,125.00	65.24	88.51	21.48	-5,565.89	1,818.74	7,179.59	7,045.07	134.52	53.372		
9,500.00	7,870.00	5,125.00	5,125.00	64.85	88.51	21.48	-5,565.89	1,818.74	7,088.33	6,954.05	134.28	52.787		
9,600.00	7,870.00	5,125.00	5,125.00	64.48	88.51	21.48	-5,565.89	1,818.74	6,997.31	6,863.28	134.04	52.205		
9,700.00	7,870.00	5,125.00	5,125.00	64.13	88.51	21.48	-5,565.89	1,818.74	6,906.54	6,772.75	133.79	51.624		
9,800.00	7,870.00	5,125.00	5,125.00	63.80	88.51	21.48	-5,565.89	1,818.74	6,816.02	6,682.50	133.53	51.046		
9,900.00	7,870.00	5,125.00	5,125.00	63.50	88.51	21.48	-5,565.89	1,818.74	6,725.78	6,592.51	133.27	50.469		
10,000.00	7,870.00	5,125.00	5,125.00	63.22	88.51	21.48	-5,565.89	1,818.74	6,635.81	6,502.81	133.00	49.895		
10,100.00	7,870.00	5,125.00	5,125.00	62.96	88.51	21.48	-5,565.89	1,818.74	6,546.13	6,413.42	132.72	49.323		
10,200.00	7,870.00	5,125.00	5,125.00	62.72	88.51	21.48	-5,565.89	1,818.74	6,456.76	6,324.33	132.44	48.754		
10,300.00	7,870.00	5,125.00	5,125.00	62.50	88.51	21.48	-5,565.89	1,818.74	6,367.71	6,235.56	132.15	48.187		
10,400.00	7,870.00	5,125.00	5,125.00	62.31	88.51	21.48	-5,565.89	1,818.74	6,278.98	6,147.13	131.85	47.623		
10,500.00	7,870.00	5,125.00	5,125.00	62.15	88.51	21.48	-5,565.89	1,818.74	6,190.60	6,059.05	131.54	47.062		
10,600.00	7,870.00	5,125.00	5,125.00	62.01	88.51	21.48	-5,565.89	1,818.74	6,102.57	5,971.34	131.23	46.503		
10,700.00	7,870.00	5,125.00	5,125.00	61.90	88.51	21.48	-5,565.89	1,818.74	6,014.92	5,884.01	130.91	45.948		
10,800.00	7,870.00	5,125.00	5,125.00	61.82	88.51	21.48	-5,565.89	1,818.74	5,927.66	5,797.08	130.58	45.395		
10,900.00	7,870.00	5,125.00	5,125.00	61.78	88.51	21.48	-5,565.89	1,818.74	5,840.81	5,710.57	130.24	44.846		
11,000.00	7,870.00	5,125.00	5,125.00	61.77	88.51	21.48	-5,565.89	1,818.74	5,754.39	5,624.49	129.89	44.301		
11,100.00	7,870.00	5,125.00	5,125.00	61.81	88.51	21.48	-5,565.89	1,818.74	5,668.41	5,538.87	129.54	43.759		
11,200.00	7,870.00	5,125.00	5,125.00	61.90	88.51	21.48	-5,565.89	1,818.74	5,582.90	5,453.73	129.17	43.221		
11,300.00	7,870.00	5,125.00	5,125.00	62.03	88.51	21.48	-5,565.89	1,818.74	5,497.88	5,369.08	128.80	42.687		
11,400.00	7,870.00	5,125.00	5,125.00	62.23	88.51	21.48	-5,565.89	1,818.74	5,413.37	5,284.96	128.41	42.157		
11,500.00	7,870.00	5,125.00	5,125.00	62.50	88.51	21.48	-5,565.89	1,818.74	5,329.40	5,201.38	128.01	41.631		
11,600.00	7,870.00	5,125.00	5,125.00	62.84	88.51	21.48	-5,565.89	1,818.74	5,245.99	5,118.38	127.61	41.110		
11,700.00	7,870.00	5,125.00	5,125.00	63.25	88.51	21.48	-5,565.89	1,818.74	5,163.17	5,035.97	127.19	40.594		
11,800.00	7,870.00	5,125.00	5,125.00	63.76	88.51	21.48	-5,565.89	1,818.74	5,080.96	4,954.20	126.76	40.082		
11,900.00	7,870.00	5,125.00	5,125.00	64.34	88.51	21.48	-5,565.89	1,818.74	4,999.41	4,873.08	126.32	39.576		
12,000.00	7,870.00	5,125.00	5,125.00	65.01	88.51	21.48	-5,565.89	1,818.74	4,918.53	4,792.66	125.87	39.075		
12,100.00	7,870.00	5,125.00	5,125.00	65.77	88.51	21.48	-5,565.89	1,818.74	4,838.38	4,712.97	125.41	38.581		
12,200.00	7,870.00	5,125.00	5,125.00	66.61	88.51	21.48	-5,565.89	1,818.74	4,758.97	4,634.03	124.93	38.092		
12,300.00	7,870.00	5,125.00	5,125.00	67.51	88.51	21.48	-5,565.89	1,818.74	4,680.35	4,555.90	124.45	37.609		
12,400.00	7,870.00	5,125.00	5,125.00	68.49	88.51	21.48	-5,565.89	1,818.74	4,602.56	4,478.62	123.95	37.133		
12,500.00	7,870.00	5,125.00	5,125.00	69.52	88.51	21.48	-5,565.89	1,818.74	4,525.65	4,402.21	123.43	36.664		
12,600.00	7,870.00	5,125.00	5,125.00	70.61	88.51	21.48	-5,565.89	1,818.74	4,449.65	4,326.74	122.91	36.203		
12,700.00	7,870.00	5,125.00	5,125.00	71.75	88.51	21.48	-5,565.89	1,818.74	4,374.62	4,252.25	122.37	35.749		
12,800.00	7,870.00	5,125.00	5,125.00	72.93	88.51	21.48	-5,565.89	1,818.74	4,300.60	4,178.78	121.82	35.303		
12,900.00	7,870.00	5,125.00	5,125.00	74.14	88.51	21.48	-5,565.89	1,818.74	4,227.66	4,106.40	121.25	34.866		
13,000.00	7,870.00	5,125.00	5,125.00	75.39	88.51	21.48	-5,565.89	1,818.74	4,155.84	4,035.16	120.68	34.438		
13,100.00	7,870.00	5,125.00	5,125.00	76.67	88.51	21.48	-5,565.89	1,818.74	4,085.20	3,965.12	120.09	34.019		
13,200.00	7,870.00	5,125.00	5,125.00	77.98	88.51	21.48	-5,565.89	1,818.74	4,015.82	3,896.33	119.48	33.610		
13,300.00	7,870.00	5,125.00	5,125.00	79.31	88.51	21.48	-5,565.89	1,818.74	3,947.74	3,828.88	118.87	33.212		
13,400.00	7,870.00	5,125.00	5,125.00	80.67	88.51	21.48	-5,565.89	1,818.74	3,881.05	3,762.82	118.24	32.824		
13,500.00	7,870.00	5,125.00	5,125.00	82.04	88.51	21.48	-5,565.89	1,818.74	3,815.82	3,698.22	117.60	32.449		
13,600.00	7,870.00	5,125.00	5,125.00	83.43	88.51	21.48	-5,565.89	1,818.74	3,752.12	3,635.17	116.94	32.085		
13,700.00	7,870.00	5,125.00	5,125.00	84.84	88.51	21.48	-5,565.89	1,818.74	3,690.02	3,573.75	116.28	31.734		
13,800.00	7,870.00	5,125.00	5,125.00	86.27	88.51	21.48	-5,565.89	1,818.74	3,629.63	3,514.02	115.61	31.396		
13,900.00	7,870.00	5,125.00	5,125.00	87.71	88.51	21.48	-5,565.89	1,818.74	3,571.01	3,456.08	114.92	31.073		
14,000.00	7,870.00	5,125.00	5,125.00	89.16	88.51	21.48	-5,565.89	1,818.74	3,514.25	3,400.02	114.24	30.763		
14,100.00	7,870.00	5,125.00	5,125.00	90.63	88.51	21.48	-5,565.89	1,818.74	3,459.46	3,345.92	113.54	30.469		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	5,125.00	5,125.00	92.10	88.51	21.48	-5,565.89	1,818.74	3,406.73	3,293.88	112.84	30.190		
14,300.00	7,870.00	5,125.00	5,125.00	93.59	88.51	21.48	-5,565.89	1,818.74	3,356.14	3,243.99	112.15	29.926		
14,400.00	7,870.00	5,125.00	5,125.00	95.09	88.51	21.48	-5,565.89	1,818.74	3,307.81	3,196.35	111.45	29.679		
14,500.00	7,870.00	5,125.00	5,125.00	96.60	88.51	21.48	-5,565.89	1,818.74	3,261.82	3,151.05	110.77	29.447		
14,600.00	7,870.00	5,125.00	5,125.00	98.11	88.51	21.48	-5,565.89	1,818.74	3,218.29	3,108.19	110.10	29.231		
14,700.00	7,870.00	5,125.00	5,125.00	99.64	88.51	21.48	-5,565.89	1,818.74	3,177.31	3,067.86	109.45	29.030		
14,800.00	7,870.00	5,125.00	5,125.00	101.17	88.51	21.48	-5,565.89	1,818.74	3,138.98	3,030.15	108.83	28.843		
14,900.00	7,870.00	5,125.00	5,125.00	102.71	88.51	21.48	-5,565.89	1,818.74	3,103.40	2,995.15	108.25	28.670		
15,000.00	7,870.00	5,125.00	5,125.00	104.26	88.51	21.48	-5,565.89	1,818.74	3,070.67	2,962.95	107.71	28.508		
15,100.00	7,870.00	5,125.00	5,125.00	105.82	88.51	21.48	-5,565.89	1,818.74	3,040.87	2,933.63	107.24	28.355		
15,200.00	7,870.00	5,125.00	5,125.00	107.38	88.51	21.48	-5,565.89	1,818.74	3,014.10	2,907.25	106.85	28.209		
15,300.00	7,870.00	5,125.00	5,125.00	108.95	88.51	21.48	-5,565.89	1,818.74	2,990.43	2,883.88	106.55	28.066		
15,400.00	7,870.00	5,125.00	5,125.00	110.52	88.51	21.48	-5,565.89	1,818.74	2,969.95	2,863.59	106.36	27.923		
15,500.00	7,870.00	5,125.00	5,125.00	112.10	88.51	21.48	-5,565.89	1,818.74	2,952.71	2,846.41	106.30	27.777		
15,600.00	7,870.00	5,125.00	5,125.00	113.69	88.51	21.48	-5,565.89	1,818.74	2,938.77	2,832.39	106.39	27.623		
15,700.00	7,870.00	5,125.00	5,125.00	115.28	88.51	21.48	-5,565.89	1,818.74	2,928.19	2,821.55	106.64	27.459		
15,800.00	7,870.00	5,125.00	5,125.00	116.87	88.51	21.48	-5,565.89	1,818.74	2,920.99	2,813.93	107.06	27.284		
15,900.00	7,870.00	5,125.00	5,125.00	118.47	88.51	21.48	-5,565.89	1,818.74	2,917.21	2,809.54	107.67	27.095		
15,960.50	7,870.00	5,125.00	5,125.00	119.44	88.51	21.48	-5,565.89	1,818.74	2,916.58	2,808.45	108.12	26.974	CC	
16,000.00	7,870.00	5,125.00	5,125.00	120.07	88.51	21.48	-5,565.89	1,818.74	2,916.85	2,808.39	108.46	26.893	ES	
16,100.00	7,870.00	5,125.00	5,125.00	121.68	88.51	21.48	-5,565.89	1,818.74	2,919.91	2,810.48	109.43	26.682		
16,200.00	7,870.00	5,125.00	5,125.00	123.30	88.51	21.48	-5,565.89	1,818.74	2,926.40	2,815.82	110.58	26.464		
16,300.00	7,870.00	5,125.00	5,125.00	124.91	88.51	21.48	-5,565.89	1,818.74	2,936.27	2,824.39	111.88	26.245		
16,400.00	7,870.00	5,125.00	5,125.00	126.53	88.51	21.48	-5,565.89	1,818.74	2,949.51	2,836.19	113.32	26.029		
16,500.00	7,870.00	5,125.00	5,125.00	128.16	88.51	21.48	-5,565.89	1,818.74	2,966.06	2,851.19	114.86	25.822		
16,600.00	7,870.00	5,125.00	5,125.00	129.79	88.51	21.48	-5,565.89	1,818.74	2,985.86	2,869.36	116.50	25.629		
16,700.00	7,870.00	5,125.00	5,125.00	131.42	88.51	21.48	-5,565.89	1,818.74	3,008.87	2,890.67	118.20	25.455		
16,800.00	7,870.00	5,125.00	5,125.00	133.05	88.51	21.48	-5,565.89	1,818.74	3,034.99	2,915.05	119.95	25.303		
16,900.00	7,870.00	5,125.00	5,125.00	134.69	88.51	21.48	-5,565.89	1,818.74	3,064.16	2,942.46	121.71	25.177		
17,000.00	7,870.00	5,125.00	5,125.00	136.33	88.51	21.48	-5,565.89	1,818.74	3,096.29	2,972.82	123.47	25.077		
17,100.00	7,870.00	5,125.00	5,125.00	137.97	88.51	21.48	-5,565.89	1,818.74	3,131.28	3,006.06	125.22	25.007		
17,200.00	7,870.00	5,125.00	5,125.00	139.62	88.51	21.48	-5,565.89	1,818.74	3,169.04	3,042.10	126.93	24.966		
17,300.00	7,870.00	5,125.00	5,125.00	141.27	88.51	21.48	-5,565.89	1,818.74	3,209.47	3,080.86	128.61	24.955	SF	
17,400.00	7,870.00	5,125.00	5,125.00	142.92	88.51	21.48	-5,565.89	1,818.74	3,252.47	3,122.24	130.24	24.974		
17,500.00	7,870.00	5,125.00	5,125.00	144.58	88.51	21.48	-5,565.89	1,818.74	3,297.95	3,166.15	131.81	25.021		
17,600.00	7,870.00	5,125.00	5,125.00	146.23	88.51	21.48	-5,565.89	1,818.74	3,345.80	3,212.49	133.32	25.097		
17,700.00	7,870.00	5,125.00	5,125.00	147.89	88.51	21.48	-5,565.89	1,818.74	3,395.92	3,261.16	134.76	25.199		
17,800.00	7,870.00	5,125.00	5,125.00	149.56	88.51	21.48	-5,565.89	1,818.74	3,448.22	3,312.07	136.14	25.328		
17,900.00	7,870.00	5,125.00	5,125.00	151.22	88.51	21.48	-5,565.89	1,818.74	3,502.58	3,365.13	137.45	25.482		
18,000.00	7,870.00	5,125.00	5,125.00	152.89	88.51	21.48	-5,565.89	1,818.74	3,558.93	3,420.23	138.70	25.660		
18,100.00	7,870.00	5,125.00	5,125.00	154.55	88.51	21.48	-5,565.89	1,818.74	3,617.17	3,477.29	139.87	25.860		
18,200.00	7,870.00	5,125.00	5,125.00	156.22	88.51	21.48	-5,565.89	1,818.74	3,677.20	3,536.21	140.99	26.082		
18,300.00	7,870.00	5,125.00	5,125.00	157.90	88.51	21.48	-5,565.89	1,818.74	3,738.94	3,596.91	142.04	26.324		
18,400.00	7,870.00	5,125.00	5,125.00	159.57	88.51	21.48	-5,565.89	1,818.74	3,802.31	3,659.29	143.02	26.585		
18,500.00	7,870.00	5,125.00	5,125.00	161.25	88.51	21.48	-5,565.89	1,818.74	3,867.23	3,723.28	143.95	26.864		
18,600.00	7,870.00	5,125.00	5,125.00	162.93	88.51	21.48	-5,565.89	1,818.74	3,933.62	3,788.79	144.83	27.161		
18,700.00	7,870.00	5,125.00	5,125.00	164.60	88.51	21.48	-5,565.89	1,818.74	4,001.41	3,855.76	145.65	27.473		
18,797.52	7,870.00	5,125.00	5,125.00	166.24	88.51	21.48	-5,565.89	1,818.74	4,068.80	3,922.40	146.40	27.792		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	150.42	-5,537.35	3,142.89	6,367.18					
100.00	100.00	69.00	69.00	0.13	0.56	150.42	-5,537.35	3,142.89	6,367.10	6,366.41	0.69	9,168.994		
200.00	200.00	169.00	169.00	0.49	2.02	150.42	-5,537.35	3,142.89	6,367.10	6,364.59	2.51	2,537.953		
300.00	300.00	269.00	269.00	0.85	3.76	150.42	-5,537.35	3,142.89	6,367.10	6,362.49	4.61	1,380.385		
400.00	400.00	369.00	369.00	1.21	5.51	150.42	-5,537.35	3,142.89	6,367.10	6,360.38	6.72	947.999		
500.00	500.00	469.00	469.00	1.57	7.25	150.42	-5,537.35	3,142.89	6,367.10	6,358.28	8.82	721.881		
600.00	600.00	569.00	569.00	1.93	9.00	150.42	-5,537.35	3,142.89	6,367.10	6,356.18	10.92	582.857		
700.00	700.00	669.00	669.00	2.29	10.74	150.42	-5,537.35	3,142.89	6,367.10	6,354.07	13.03	488.733		
800.00	800.00	769.00	769.00	2.64	12.49	150.42	-5,537.35	3,142.89	6,367.10	6,351.97	15.13	420.783		
900.00	900.00	869.00	869.00	3.00	14.23	150.42	-5,537.35	3,142.89	6,367.10	6,349.87	17.24	369.421		
1,000.00	1,000.00	969.00	969.00	3.36	15.98	150.42	-5,537.35	3,142.89	6,367.10	6,347.76	19.34	329.234		
1,100.00	1,099.98	1,068.98	1,068.98	3.72	17.72	95.81	-5,537.35	3,142.89	6,367.28	6,345.84	21.44	296.994		
1,200.00	1,199.84	1,168.84	1,168.84	4.07	19.47	95.85	-5,537.35	3,142.89	6,367.81	6,344.27	23.54	270.562		
1,300.00	1,299.45	1,268.45	1,268.45	4.43	21.20	95.91	-5,537.35	3,142.89	6,368.71	6,343.07	25.63	248.460		
1,400.00	1,398.70	1,367.70	1,367.70	4.80	22.94	95.99	-5,537.35	3,142.89	6,369.98	6,342.25	27.73	229.696		
1,500.00	1,497.47	1,466.47	1,466.47	5.18	24.66	96.10	-5,537.35	3,142.89	6,371.65	6,341.81	29.84	213.552		
1,600.00	1,595.62	1,564.62	1,564.62	5.57	26.37	96.22	-5,537.35	3,142.89	6,373.73	6,341.78	31.95	199.498		
1,700.00	1,693.06	1,662.06	1,662.06	6.00	28.07	96.37	-5,537.35	3,142.89	6,376.26	6,342.19	34.07	187.137		
1,800.00	1,789.64	1,758.64	1,758.64	6.45	29.76	96.53	-5,537.35	3,142.89	6,379.27	6,343.06	36.21	176.168		
1,900.00	1,885.27	1,854.27	1,854.27	6.94	31.43	96.71	-5,537.35	3,142.89	6,382.80	6,344.43	38.37	166.357		
2,000.00	1,979.82	1,948.82	1,948.82	7.47	33.08	96.90	-5,537.35	3,142.89	6,386.87	6,346.33	40.55	157.520		
2,100.00	2,073.17	2,042.17	2,042.17	8.05	34.71	97.11	-5,537.35	3,142.89	6,391.55	6,348.80	42.75	149.514		
2,200.00	2,165.21	2,134.21	2,134.21	8.67	36.32	97.32	-5,537.35	3,142.89	6,396.88	6,351.90	44.98	142.222		
2,300.00	2,255.84	2,224.84	2,224.84	9.35	37.90	97.54	-5,537.35	3,142.89	6,402.90	6,355.67	47.24	135.553		
2,400.00	2,344.94	2,313.94	2,313.94	10.09	39.45	97.77	-5,537.35	3,142.89	6,409.68	6,360.16	49.52	129.430		
2,500.00	2,432.39	2,401.39	2,401.39	10.89	40.98	97.99	-5,537.35	3,142.89	6,417.26	6,365.42	51.84	123.792		
2,519.29	2,449.07	2,418.07	2,418.07	11.05	41.27	98.04	-5,537.35	3,142.89	6,418.82	6,366.53	52.29	122.756		
2,600.00	2,518.69	2,487.69	2,487.69	11.74	42.48	98.35	-5,537.35	3,142.89	6,425.54	6,371.36	54.18	118.590		
2,700.00	2,604.95	2,573.95	2,573.95	12.62	43.99	98.74	-5,537.35	3,142.89	6,434.22	6,377.67	56.55	113.782		
2,800.00	2,691.22	2,660.22	2,660.22	13.52	45.50	99.12	-5,537.35	3,142.89	6,443.28	6,384.35	58.93	109.337		
2,900.00	2,777.48	2,746.48	2,746.48	14.43	47.00	99.51	-5,537.35	3,142.89	6,452.73	6,391.41	61.32	105.222		
3,000.00	2,863.75	2,832.75	2,832.75	15.35	48.51	99.89	-5,537.35	3,142.89	6,462.56	6,398.83	63.73	101.407		
3,100.00	2,950.01	2,919.01	2,919.01	16.28	50.01	100.27	-5,537.35	3,142.89	6,472.77	6,406.63	66.14	97.864		
3,200.00	3,036.27	3,005.27	3,005.27	17.22	51.52	100.65	-5,537.35	3,142.89	6,483.36	6,414.80	68.56	94.568		
3,300.00	3,122.54	3,108.46	3,091.54	18.17	53.32	101.03	-5,537.35	3,142.89	6,494.32	6,423.05	71.27	91.118		
3,400.00	3,208.80	3,177.80	3,177.80	19.13	54.53	101.41	-5,537.35	3,142.89	6,505.66	6,432.26	73.40	88.629		
3,500.00	3,295.07	3,264.07	3,264.07	20.09	56.03	101.79	-5,537.35	3,142.89	6,517.37	6,441.54	75.83	85.948		
3,600.00	3,381.33	3,350.33	3,350.33	21.05	57.54	102.17	-5,537.35	3,142.89	6,529.46	6,451.20	78.26	83.436		
3,700.00	3,467.59	3,436.59	3,436.59	22.02	59.05	102.55	-5,537.35	3,142.89	6,541.91	6,461.22	80.69	81.079		
3,800.00	3,553.86	3,522.86	3,522.86	22.99	60.55	102.92	-5,537.35	3,142.89	6,554.73	6,471.61	83.11	78.865		
3,900.00	3,640.12	3,609.12	3,609.12	23.97	62.06	103.30	-5,537.35	3,142.89	6,567.91	6,482.37	85.54	76.781		
4,000.00	3,726.38	3,704.62	3,695.38	24.95	63.72	103.67	-5,537.35	3,142.89	6,581.46	6,493.33	88.13	74.680		
4,100.00	3,812.65	3,781.65	3,781.65	25.93	65.07	104.04	-5,537.35	3,142.89	6,595.36	6,504.97	90.39	72.964		
4,200.00	3,898.91	3,867.91	3,867.91	26.91	66.57	104.41	-5,537.35	3,142.89	6,609.63	6,516.81	92.82	71.212		
4,300.00	3,985.18	3,954.18	3,954.18	27.90	68.08	104.78	-5,537.35	3,142.89	6,624.25	6,529.01	95.24	69.556		
4,400.00	4,071.44	4,040.44	4,040.44	28.88	69.59	105.15	-5,537.35	3,142.89	6,639.22	6,541.56	97.66	67.986		
4,500.00	4,157.70	4,126.70	4,126.70	29.87	71.09	105.52	-5,537.35	3,142.89	6,654.54	6,554.47	100.07	66.498		
4,600.00	4,243.97	4,212.97	4,212.97	30.86	72.60	105.88	-5,537.35	3,142.89	6,670.21	6,567.73	102.48	65.085		
4,700.00	4,330.23	4,300.77	4,299.23	31.85	74.13	106.25	-5,537.35	3,142.89	6,686.23	6,581.31	104.92	63.726		
4,800.00	4,416.49	4,385.49	4,385.49	32.84	75.61	106.61	-5,537.35	3,142.89	6,702.59	6,595.29	107.30	62.465		
4,900.00	4,502.76	4,471.76	4,471.76	33.84	77.11	106.97	-5,537.35	3,142.89	6,719.29	6,609.59	109.70	61.249		
5,000.00	4,589.02	4,558.02	4,558.02	34.83	78.62	107.33	-5,537.35	3,142.89	6,736.33	6,624.23	112.10	60.090		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,675.29	4,644.29	4,644.29	35.82	80.12	107.69	-5,537.35	3,142.89	6,753.71	6,639.21	114.50	58.984		
5,200.00	4,761.55	4,730.55	4,730.55	36.82	81.63	108.05	-5,537.35	3,142.89	6,771.42	6,654.53	116.89	57.929		
5,300.00	4,847.81	4,816.81	4,816.81	37.82	83.14	108.41	-5,537.35	3,142.89	6,789.46	6,670.18	119.28	56.920		
5,400.00	4,934.08	4,903.08	4,903.08	38.81	84.64	108.76	-5,537.35	3,142.89	6,807.83	6,686.16	121.67	55.955		
5,500.00	5,020.34	4,989.34	4,989.34	39.81	86.15	109.11	-5,537.35	3,142.89	6,826.52	6,702.48	124.05	55.033		
5,600.00	5,106.60	5,075.60	5,075.60	40.81	87.65	109.46	-5,537.35	3,142.89	6,845.54	6,719.12	126.42	54.149		
5,700.00	5,192.87	5,148.00	5,148.00	41.81	88.92	109.76	-5,537.35	3,142.89	6,864.89	6,736.34	128.55	53.404		
5,800.00	5,279.13	5,148.00	5,148.00	42.81	88.92	109.76	-5,537.35	3,142.89	6,885.26	6,755.89	129.37	53.222		
5,900.00	5,365.40	5,148.00	5,148.00	43.81	88.92	109.76	-5,537.35	3,142.89	6,907.01	6,776.84	130.17	53.063		
6,000.00	5,451.66	5,148.00	5,148.00	44.81	88.92	109.76	-5,537.35	3,142.89	6,930.14	6,799.20	130.94	52.927		
6,100.00	5,537.92	5,148.00	5,148.00	45.81	88.92	109.76	-5,537.35	3,142.89	6,954.63	6,822.95	131.69	52.813		
6,200.00	5,624.19	5,148.00	5,148.00	46.81	88.92	109.76	-5,537.35	3,142.89	6,980.47	6,848.06	132.41	52.720		
6,300.00	5,710.45	5,148.00	5,148.00	47.81	88.92	109.76	-5,537.35	3,142.89	7,007.64	6,874.54	133.10	52.649		
6,400.00	5,796.72	5,148.00	5,148.00	48.81	88.92	109.76	-5,537.35	3,142.89	7,036.13	6,902.36	133.77	52.598		
6,500.00	5,882.98	5,148.00	5,148.00	49.81	88.92	109.76	-5,537.35	3,142.89	7,065.91	6,931.50	134.42	52.567		
6,600.00	5,969.24	5,148.00	5,148.00	50.82	88.92	109.76	-5,537.35	3,142.89	7,096.99	6,961.95	135.04	52.555		
6,700.00	6,055.51	5,148.00	5,148.00	51.82	88.92	109.76	-5,537.35	3,142.89	7,129.32	6,993.69	135.63	52.563		
6,800.00	6,141.77	5,148.00	5,148.00	52.82	88.92	109.76	-5,537.35	3,142.89	7,162.91	7,026.71	136.21	52.588		
6,900.00	6,228.03	5,148.00	5,148.00	53.83	88.92	109.76	-5,537.35	3,142.89	7,197.74	7,060.98	136.76	52.632		
7,000.00	6,314.30	5,148.00	5,148.00	54.83	88.92	109.76	-5,537.35	3,142.89	7,233.77	7,096.49	137.28	52.693		
7,100.00	6,400.56	5,148.00	5,148.00	55.83	88.92	109.76	-5,537.35	3,142.89	7,271.00	7,133.22	137.78	52.772		
7,200.00	6,486.83	5,148.00	5,148.00	56.84	88.92	109.76	-5,537.35	3,142.89	7,309.42	7,171.15	138.26	52.866		
7,300.00	6,573.09	5,148.00	5,148.00	57.84	88.92	109.76	-5,537.35	3,142.89	7,348.99	7,210.27	138.72	52.977		
7,400.00	6,659.35	5,148.00	5,148.00	58.84	88.92	109.76	-5,537.35	3,142.89	7,389.70	7,250.55	139.16	53.104		
7,500.00	6,745.62	5,148.00	5,148.00	59.85	88.92	109.76	-5,537.35	3,142.89	7,431.54	7,291.97	139.57	53.245		
7,600.00	6,831.88	5,148.00	5,148.00	60.85	88.92	109.76	-5,537.35	3,142.89	7,474.48	7,334.51	139.97	53.402		
7,700.00	6,918.14	5,148.00	5,148.00	61.86	88.92	109.76	-5,537.35	3,142.89	7,518.50	7,378.16	140.34	53.573		
7,800.00	7,004.41	5,148.00	5,148.00	62.86	88.92	109.76	-5,537.35	3,142.89	7,563.59	7,422.90	140.70	53.758		
7,900.00	7,090.67	5,148.00	5,148.00	63.87	88.92	109.76	-5,537.35	3,142.89	7,609.73	7,468.70	141.03	53.957		
8,000.00	7,176.94	5,148.00	5,148.00	64.87	88.92	109.76	-5,537.35	3,142.89	7,656.90	7,515.55	141.35	54.170		
8,027.52	7,200.68	5,148.00	5,148.00	65.15	88.92	109.76	-5,537.35	3,142.89	7,670.05	7,528.62	141.43	54.230		
8,050.00	7,220.18	5,148.00	5,148.00	65.37	88.92	106.60	-5,537.35	3,142.89	7,680.48	7,538.98	141.50	54.279		
8,100.00	7,264.25	5,148.00	5,148.00	65.85	88.92	98.53	-5,537.35	3,142.89	7,701.06	7,559.42	141.64	54.371		
8,150.00	7,308.99	5,148.00	5,148.00	66.28	88.92	89.20	-5,537.35	3,142.89	7,717.96	7,576.20	141.76	54.442		
8,200.00	7,354.07	5,148.00	5,148.00	66.67	88.92	79.09	-5,537.35	3,142.89	7,731.07	7,589.21	141.87	54.495		
8,250.00	7,399.14	5,148.00	5,148.00	67.02	88.92	68.92	-5,537.35	3,142.89	7,740.31	7,598.36	141.95	54.528		
8,300.00	7,443.85	5,148.00	5,148.00	67.32	88.92	59.39	-5,537.35	3,142.89	7,745.63	7,603.62	142.01	54.545		
8,350.00	7,487.88	5,148.00	5,148.00	67.56	88.92	50.97	-5,537.35	3,142.89	7,746.98	7,604.95	142.03	54.543		
8,400.00	7,530.87	5,148.00	5,148.00	67.75	88.92	43.80	-5,537.35	3,142.89	7,744.36	7,602.33	142.03	54.525		
8,450.00	7,572.51	5,148.00	5,148.00	67.90	88.92	37.81	-5,537.35	3,142.89	7,737.80	7,595.79	142.01	54.490		
8,500.00	7,612.48	5,148.00	5,148.00	68.00	88.92	32.83	-5,537.35	3,142.89	7,727.32	7,585.37	141.95	54.437		
8,550.00	7,650.47	5,148.00	5,148.00	68.05	88.92	28.67	-5,537.35	3,142.89	7,712.99	7,571.12	141.87	54.366		
8,600.00	7,686.20	5,148.00	5,148.00	68.06	88.92	25.14	-5,537.35	3,142.89	7,694.91	7,553.14	141.77	54.277		
8,650.00	7,719.39	5,148.00	5,148.00	68.03	88.92	22.10	-5,537.35	3,142.89	7,673.18	7,531.53	141.65	54.171		
8,700.00	7,749.79	5,148.00	5,148.00	67.97	88.92	19.40	-5,537.35	3,142.89	7,647.93	7,506.42	141.51	54.046		
8,750.00	7,777.17	5,148.00	5,148.00	67.87	88.92	16.94	-5,537.35	3,142.89	7,619.33	7,477.98	141.35	53.903		
8,800.00	7,801.32	5,148.00	5,148.00	67.74	88.92	14.60	-5,537.35	3,142.89	7,587.55	7,446.37	141.18	53.743		
8,850.00	7,822.06	5,148.00	5,148.00	67.59	88.92	12.28	-5,537.35	3,142.89	7,552.81	7,411.80	141.01	53.564		
8,900.00	7,839.23	5,148.00	5,148.00	67.41	88.92	9.86	-5,537.35	3,142.89	7,515.32	7,374.49	140.82	53.367		
8,950.00	7,852.69	5,148.00	5,148.00	67.22	88.92	7.16	-5,537.35	3,142.89	7,475.33	7,334.69	140.64	53.153		
9,000.00	7,862.35	5,148.00	5,148.00	67.00	88.92	3.97	-5,537.35	3,142.89	7,433.11	7,292.65	140.45	52.922		
9,050.00	7,868.14	5,148.00	5,148.00	66.78	88.92	-0.09	-5,537.35	3,142.89	7,388.94	7,248.66	140.27	52.675		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	5,148.00	5,148.00	66.55	88.92	-5.44	-5,537.35	3,142.89	7,344.39	7,204.28	140.11	52.419		
9,100.00	7,870.00	5,148.00	5,148.00	66.55	88.92	-5.44	-5,537.35	3,142.89	7,343.13	7,203.02	140.11	52.411		
9,200.00	7,870.00	5,148.00	5,148.00	66.09	88.92	-5.44	-5,537.35	3,142.89	7,250.24	7,110.48	139.76	51.875		
9,300.00	7,870.00	5,148.00	5,148.00	65.65	88.92	-5.44	-5,537.35	3,142.89	7,157.55	7,018.14	139.41	51.340		
9,400.00	7,870.00	5,148.00	5,148.00	65.24	88.92	-5.44	-5,537.35	3,142.89	7,065.06	6,926.00	139.05	50.808		
9,500.00	7,870.00	5,148.00	5,148.00	64.85	88.92	-5.44	-5,537.35	3,142.89	6,972.77	6,834.09	138.69	50.278		
9,600.00	7,870.00	5,148.00	5,148.00	64.48	88.92	-5.44	-5,537.35	3,142.89	6,880.70	6,742.40	138.31	49.750		
9,700.00	7,870.00	5,148.00	5,148.00	64.13	88.92	-5.44	-5,537.35	3,142.89	6,788.86	6,650.94	137.92	49.224		
9,800.00	7,870.00	5,148.00	5,148.00	63.80	88.92	-5.44	-5,537.35	3,142.89	6,697.24	6,559.73	137.52	48.702		
9,900.00	7,870.00	5,148.00	5,148.00	63.50	88.92	-5.44	-5,537.35	3,142.89	6,605.87	6,468.77	137.10	48.181		
10,000.00	7,870.00	5,148.00	5,148.00	63.22	88.92	-5.44	-5,537.35	3,142.89	6,514.76	6,378.08	136.68	47.664		
10,100.00	7,870.00	5,148.00	5,148.00	62.96	88.92	-5.44	-5,537.35	3,142.89	6,423.91	6,287.66	136.25	47.149		
10,200.00	7,870.00	5,148.00	5,148.00	62.72	88.92	-5.44	-5,537.35	3,142.89	6,333.33	6,197.53	135.80	46.638		
10,300.00	7,870.00	5,148.00	5,148.00	62.50	88.92	-5.44	-5,537.35	3,142.89	6,243.04	6,107.70	135.34	46.129		
10,400.00	7,870.00	5,148.00	5,148.00	62.31	88.92	-5.44	-5,537.35	3,142.89	6,153.05	6,018.19	134.86	45.624		
10,500.00	7,870.00	5,148.00	5,148.00	62.15	88.92	-5.44	-5,537.35	3,142.89	6,063.38	5,929.00	134.38	45.122		
10,600.00	7,870.00	5,148.00	5,148.00	62.01	88.92	-5.44	-5,537.35	3,142.89	5,974.03	5,840.16	133.88	44.624		
10,700.00	7,870.00	5,148.00	5,148.00	61.90	88.92	-5.44	-5,537.35	3,142.89	5,885.03	5,751.67	133.36	44.129		
10,800.00	7,870.00	5,148.00	5,148.00	61.82	88.92	-5.44	-5,537.35	3,142.89	5,796.39	5,663.56	132.83	43.639		
10,900.00	7,870.00	5,148.00	5,148.00	61.78	88.92	-5.44	-5,537.35	3,142.89	5,708.12	5,575.84	132.28	43.152		
11,000.00	7,870.00	5,148.00	5,148.00	61.77	88.92	-5.44	-5,537.35	3,142.89	5,620.24	5,488.53	131.71	42.670		
11,100.00	7,870.00	5,148.00	5,148.00	61.81	88.92	-5.44	-5,537.35	3,142.89	5,532.78	5,401.64	131.13	42.192		
11,200.00	7,870.00	5,148.00	5,148.00	61.90	88.92	-5.44	-5,537.35	3,142.89	5,445.74	5,315.21	130.53	41.719		
11,300.00	7,870.00	5,148.00	5,148.00	62.03	88.92	-5.44	-5,537.35	3,142.89	5,359.16	5,229.24	129.92	41.251		
11,400.00	7,870.00	5,148.00	5,148.00	62.23	88.92	-5.44	-5,537.35	3,142.89	5,273.06	5,143.77	129.28	40.787		
11,500.00	7,870.00	5,148.00	5,148.00	62.50	88.92	-5.44	-5,537.35	3,142.89	5,187.45	5,058.82	128.63	40.329		
11,600.00	7,870.00	5,148.00	5,148.00	62.84	88.92	-5.44	-5,537.35	3,142.89	5,102.36	4,974.41	127.95	39.876		
11,700.00	7,870.00	5,148.00	5,148.00	63.25	88.92	-5.44	-5,537.35	3,142.89	5,017.83	4,890.57	127.26	39.430		
11,800.00	7,870.00	5,148.00	5,148.00	63.76	88.92	-5.44	-5,537.35	3,142.89	4,933.88	4,807.33	126.55	38.989		
11,900.00	7,870.00	5,148.00	5,148.00	64.34	88.92	-5.44	-5,537.35	3,142.89	4,850.53	4,724.72	125.81	38.554		
12,000.00	7,870.00	5,148.00	5,148.00	65.01	88.92	-5.44	-5,537.35	3,142.89	4,767.82	4,642.77	125.06	38.126		
12,100.00	7,870.00	5,148.00	5,148.00	65.77	88.92	-5.44	-5,537.35	3,142.89	4,685.79	4,561.51	124.28	37.704		
12,200.00	7,870.00	5,148.00	5,148.00	66.61	88.92	-5.44	-5,537.35	3,142.89	4,604.47	4,480.99	123.48	37.289		
12,300.00	7,870.00	5,148.00	5,148.00	67.51	88.92	-5.44	-5,537.35	3,142.89	4,523.90	4,401.24	122.66	36.882		
12,400.00	7,870.00	5,148.00	5,148.00	68.49	88.92	-5.44	-5,537.35	3,142.89	4,444.11	4,322.30	121.81	36.482		
12,500.00	7,870.00	5,148.00	5,148.00	69.52	88.92	-5.44	-5,537.35	3,142.89	4,365.16	4,244.21	120.95	36.091		
12,600.00	7,870.00	5,148.00	5,148.00	70.61	88.92	-5.44	-5,537.35	3,142.89	4,287.09	4,167.03	120.06	35.707		
12,700.00	7,870.00	5,148.00	5,148.00	71.75	88.92	-5.44	-5,537.35	3,142.89	4,209.95	4,090.79	119.15	35.332		
12,800.00	7,870.00	5,148.00	5,148.00	72.93	88.92	-5.44	-5,537.35	3,142.89	4,133.78	4,015.56	118.22	34.966		
12,900.00	7,870.00	5,148.00	5,148.00	74.14	88.92	-5.44	-5,537.35	3,142.89	4,058.65	3,941.38	117.27	34.609		
13,000.00	7,870.00	5,148.00	5,148.00	75.39	88.92	-5.44	-5,537.35	3,142.89	3,984.62	3,868.32	116.30	34.261		
13,100.00	7,870.00	5,148.00	5,148.00	76.67	88.92	-5.44	-5,537.35	3,142.89	3,911.74	3,796.43	115.31	33.924		
13,200.00	7,870.00	5,148.00	5,148.00	77.98	88.92	-5.44	-5,537.35	3,142.89	3,840.08	3,725.78	114.30	33.597		
13,300.00	7,870.00	5,148.00	5,148.00	79.31	88.92	-5.44	-5,537.35	3,142.89	3,769.71	3,656.43	113.27	33.280		
13,400.00	7,870.00	5,148.00	5,148.00	80.67	88.92	-5.44	-5,537.35	3,142.89	3,700.70	3,588.47	112.23	32.975		
13,500.00	7,870.00	5,148.00	5,148.00	82.04	88.92	-5.44	-5,537.35	3,142.89	3,633.14	3,521.97	111.17	32.681		
13,600.00	7,870.00	5,148.00	5,148.00	83.43	88.92	-5.44	-5,537.35	3,142.89	3,567.10	3,457.00	110.10	32.399		
13,700.00	7,870.00	5,148.00	5,148.00	84.84	88.92	-5.44	-5,537.35	3,142.89	3,502.67	3,393.66	109.01	32.131		
13,800.00	7,870.00	5,148.00	5,148.00	86.27	88.92	-5.44	-5,537.35	3,142.89	3,439.94	3,332.02	107.92	31.875		
13,900.00	7,870.00	5,148.00	5,148.00	87.71	88.92	-5.44	-5,537.35	3,142.89	3,379.01	3,272.20	106.82	31.634		
14,000.00	7,870.00	5,148.00	5,148.00	89.16	88.92	-5.44	-5,537.35	3,142.89	3,319.97	3,214.27	105.71	31.408		
14,100.00	7,870.00	5,148.00	5,148.00	90.63	88.92	-5.44	-5,537.35	3,142.89	3,262.93	3,158.34	104.59	31.197		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,870.00	5,148.00	5,148.00	92.10	88.92	-5.44	-5,537.35	3,142.89	3,207.99	3,104.52	103.47	31.004		
14,300.00	7,870.00	5,148.00	5,148.00	93.59	88.92	-5.44	-5,537.35	3,142.89	3,155.27	3,052.92	102.35	30.828		
14,400.00	7,870.00	5,148.00	5,148.00	95.09	88.92	-5.44	-5,537.35	3,142.89	3,104.87	3,003.64	101.23	30.670		
14,500.00	7,870.00	5,148.00	5,148.00	96.60	88.92	-5.44	-5,537.35	3,142.89	3,056.92	2,956.80	100.12	30.533		
14,600.00	7,870.00	5,148.00	5,148.00	98.11	88.92	-5.44	-5,537.35	3,142.89	3,011.52	2,912.51	99.01	30.416		
14,700.00	7,870.00	5,148.00	5,148.00	99.64	88.92	-5.44	-5,537.35	3,142.89	2,968.80	2,870.88	97.91	30.321		
14,800.00	7,870.00	5,148.00	5,148.00	101.17	88.92	-5.44	-5,537.35	3,142.89	2,928.86	2,832.03	96.83	30.247		
14,900.00	7,870.00	5,148.00	5,148.00	102.71	88.92	-5.44	-5,537.35	3,142.89	2,891.84	2,796.07	95.77	30.194		
15,000.00	7,870.00	5,148.00	5,148.00	104.26	88.92	-5.44	-5,537.35	3,142.89	2,857.84	2,763.09	94.75	30.162		
15,100.00	7,870.00	5,148.00	5,148.00	105.82	88.92	-5.44	-5,537.35	3,142.89	2,826.97	2,733.20	93.77	30.147		
15,200.00	7,870.00	5,148.00	5,148.00	107.38	88.92	-5.44	-5,537.35	3,142.89	2,799.33	2,706.47	92.86	30.144		
15,300.00	7,870.00	5,148.00	5,148.00	108.95	88.92	-5.44	-5,537.35	3,142.89	2,775.03	2,682.97	92.05	30.146		
15,400.00	7,870.00	5,148.00	5,148.00	110.52	88.92	-5.44	-5,537.35	3,142.89	2,754.14	2,662.76	91.37	30.142		
15,500.00	7,870.00	5,148.00	5,148.00	112.10	88.92	-5.44	-5,537.35	3,142.89	2,736.75	2,645.87	90.88	30.114		
15,600.00	7,870.00	5,148.00	5,148.00	113.69	88.92	-5.44	-5,537.35	3,142.89	2,722.92	2,632.28	90.64	30.040		
15,700.00	7,870.00	5,148.00	5,148.00	115.28	88.92	-5.44	-5,537.35	3,142.89	2,712.71	2,621.97	90.74	29.895		
15,800.00	7,870.00	5,148.00	5,148.00	116.87	88.92	-5.44	-5,537.35	3,142.89	2,706.16	2,614.89	91.27	29.651		
15,900.00	7,870.00	5,148.00	5,148.00	118.47	88.92	-5.44	-5,537.35	3,142.89	2,703.29	2,611.00	92.29	29.290		
15,927.48	7,870.00	5,148.00	5,148.00	118.91	88.92	-5.44	-5,537.35	3,142.89	2,703.15	2,610.49	92.67	29.170	CC	
16,000.00	7,870.00	5,148.00	5,148.00	120.07	88.92	-5.44	-5,537.35	3,142.89	2,704.13	2,610.27	93.85	28.812	ES	
16,100.00	7,870.00	5,148.00	5,148.00	121.68	88.92	-5.44	-5,537.35	3,142.89	2,708.65	2,612.73	95.92	28.237		
16,200.00	7,870.00	5,148.00	5,148.00	123.30	88.92	-5.44	-5,537.35	3,142.89	2,716.86	2,618.42	98.43	27.601		
16,300.00	7,870.00	5,148.00	5,148.00	124.91	88.92	-5.44	-5,537.35	3,142.89	2,728.70	2,627.42	101.28	26.943		
16,400.00	7,870.00	5,148.00	5,148.00	126.53	88.92	-5.44	-5,537.35	3,142.89	2,744.14	2,639.79	104.35	26.298		
16,500.00	7,870.00	5,148.00	5,148.00	128.16	88.92	-5.44	-5,537.35	3,142.89	2,763.12	2,655.56	107.56	25.690		
16,600.00	7,870.00	5,148.00	5,148.00	129.79	88.92	-5.44	-5,537.35	3,142.89	2,785.56	2,674.73	110.83	25.134		
16,700.00	7,870.00	5,148.00	5,148.00	131.42	88.92	-5.44	-5,537.35	3,142.89	2,811.37	2,697.27	114.10	24.639		
16,800.00	7,870.00	5,148.00	5,148.00	133.05	88.92	-5.44	-5,537.35	3,142.89	2,840.48	2,723.15	117.33	24.209		
16,900.00	7,870.00	5,148.00	5,148.00	134.69	88.92	-5.44	-5,537.35	3,142.89	2,872.77	2,752.28	120.49	23.843		
17,000.00	7,870.00	5,148.00	5,148.00	136.33	88.92	-5.44	-5,537.35	3,142.89	2,908.15	2,784.60	123.55	23.539		
17,100.00	7,870.00	5,148.00	5,148.00	137.97	88.92	-5.44	-5,537.35	3,142.89	2,946.50	2,820.00	126.49	23.294		
17,200.00	7,870.00	5,148.00	5,148.00	139.62	88.92	-5.44	-5,537.35	3,142.89	2,987.70	2,858.39	129.31	23.105		
17,300.00	7,870.00	5,148.00	5,148.00	141.27	88.92	-5.44	-5,537.35	3,142.89	3,031.64	2,899.65	131.99	22.968		
17,400.00	7,870.00	5,148.00	5,148.00	142.92	88.92	-5.44	-5,537.35	3,142.89	3,078.21	2,943.66	134.54	22.879		
17,500.00	7,870.00	5,148.00	5,148.00	144.58	88.92	-5.44	-5,537.35	3,142.89	3,127.28	2,990.32	136.95	22.835		
17,600.00	7,870.00	5,148.00	5,148.00	146.23	88.92	-5.44	-5,537.35	3,142.89	3,178.74	3,039.51	139.22	22.832	SF	
17,700.00	7,870.00	5,148.00	5,148.00	147.89	88.92	-5.44	-5,537.35	3,142.89	3,232.47	3,091.11	141.36	22.867		
17,800.00	7,870.00	5,148.00	5,148.00	149.56	88.92	-5.44	-5,537.35	3,142.89	3,288.37	3,145.00	143.37	22.937		
17,900.00	7,870.00	5,148.00	5,148.00	151.22	88.92	-5.44	-5,537.35	3,142.89	3,346.32	3,201.07	145.25	23.039		
18,000.00	7,870.00	5,148.00	5,148.00	152.89	88.92	-5.44	-5,537.35	3,142.89	3,406.23	3,259.22	147.01	23.171		
18,100.00	7,870.00	5,148.00	5,148.00	154.55	88.92	-5.44	-5,537.35	3,142.89	3,467.98	3,319.33	148.65	23.330		
18,200.00	7,870.00	5,148.00	5,148.00	156.22	88.92	-5.44	-5,537.35	3,142.89	3,531.48	3,381.30	150.18	23.515		
18,300.00	7,870.00	5,148.00	5,148.00	157.90	88.92	-5.44	-5,537.35	3,142.89	3,596.65	3,445.04	151.61	23.723		
18,400.00	7,870.00	5,148.00	5,148.00	159.57	88.92	-5.44	-5,537.35	3,142.89	3,663.39	3,510.44	152.94	23.953		
18,500.00	7,870.00	5,148.00	5,148.00	161.25	88.92	-5.44	-5,537.35	3,142.89	3,731.61	3,577.43	154.18	24.203		
18,600.00	7,870.00	5,148.00	5,148.00	162.93	88.92	-5.44	-5,537.35	3,142.89	3,801.24	3,645.90	155.33	24.472		
18,700.00	7,870.00	5,148.00	5,148.00	164.60	88.92	-5.44	-5,537.35	3,142.89	3,872.20	3,715.79	156.41	24.757		
18,797.52	7,870.00	5,148.00	5,148.00	166.24	88.92	-5.44	-5,537.35	3,142.89	3,942.61	3,785.23	157.38	25.052		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	147.17	-6,842.40	4,414.34	8,142.81					
100.00	100.00	76.00	76.00	0.13	0.63	147.17	-6,842.40	4,414.34	8,142.78	8,142.01	0.76	N/A		
200.00	200.00	176.00	176.00	0.49	2.16	147.17	-6,842.40	4,414.34	8,142.78	8,140.13	2.65	3,074.624		
300.00	300.00	276.00	276.00	0.85	3.90	147.17	-6,842.40	4,414.34	8,142.78	8,138.02	4.75	1,713.481		
400.00	400.00	376.00	376.00	1.21	5.65	147.17	-6,842.40	4,414.34	8,142.78	8,135.92	6.86	1,187.689		
500.00	500.00	476.00	476.00	1.57	7.39	147.17	-6,842.40	4,414.34	8,142.78	8,133.82	8.96	908.814		
600.00	600.00	576.00	576.00	1.93	9.14	147.17	-6,842.40	4,414.34	8,142.78	8,131.71	11.06	735.998		
700.00	700.00	676.00	676.00	2.29	10.88	147.17	-6,842.40	4,414.34	8,142.78	8,129.61	13.17	618.405		
800.00	800.00	776.00	776.00	2.64	12.63	147.17	-6,842.40	4,414.34	8,142.78	8,127.50	15.27	533.212		
900.00	900.00	876.00	876.00	3.00	14.37	147.17	-6,842.40	4,414.34	8,142.78	8,125.40	17.37	468.649		
1,000.00	1,000.00	976.00	976.00	3.36	16.12	147.17	-6,842.40	4,414.34	8,142.78	8,123.30	19.48	418.033		
1,100.00	1,099.98	1,075.98	1,075.98	3.72	17.86	92.56	-6,842.40	4,414.34	8,142.85	8,121.27	21.58	377.356		
1,200.00	1,199.84	1,175.84	1,175.84	4.07	19.61	92.59	-6,842.40	4,414.34	8,143.09	8,119.41	23.67	343.953		
1,300.00	1,299.45	1,275.45	1,275.45	4.43	21.34	92.65	-6,842.40	4,414.34	8,143.49	8,117.72	25.77	315.982		
1,400.00	1,398.70	1,374.70	1,374.70	4.80	23.08	92.72	-6,842.40	4,414.34	8,144.06	8,116.19	27.87	292.202		
1,500.00	1,497.47	1,473.47	1,473.47	5.18	24.80	92.81	-6,842.40	4,414.34	8,144.83	8,114.85	29.98	271.715		
1,600.00	1,595.62	1,571.62	1,571.62	5.57	26.51	92.93	-6,842.40	4,414.34	8,145.80	8,113.71	32.09	253.859		
1,700.00	1,693.06	1,669.06	1,669.06	6.00	28.21	93.06	-6,842.40	4,414.34	8,147.01	8,112.79	34.21	238.134		
1,800.00	1,789.64	1,765.64	1,765.64	6.45	29.90	93.20	-6,842.40	4,414.34	8,148.47	8,112.12	36.35	224.161		
1,900.00	1,885.27	1,861.27	1,861.27	6.94	31.57	93.36	-6,842.40	4,414.34	8,150.22	8,111.71	38.51	211.646		
2,000.00	1,979.82	1,955.82	1,955.82	7.47	33.22	93.54	-6,842.40	4,414.34	8,152.29	8,111.60	40.69	200.358		
2,100.00	2,073.17	2,049.17	2,049.17	8.05	34.85	93.72	-6,842.40	4,414.34	8,154.72	8,111.83	42.89	190.116		
2,200.00	2,165.21	2,141.21	2,141.21	8.67	36.45	93.92	-6,842.40	4,414.34	8,157.55	8,112.43	45.13	180.774		
2,300.00	2,255.84	2,231.84	2,231.84	9.35	38.04	94.12	-6,842.40	4,414.34	8,160.82	8,113.43	47.39	172.215		
2,400.00	2,344.94	2,320.94	2,320.94	10.09	39.59	94.33	-6,842.40	4,414.34	8,164.58	8,114.90	49.68	164.344		
2,500.00	2,432.39	2,408.39	2,408.39	10.89	41.12	94.54	-6,842.40	4,414.34	8,168.86	8,116.86	52.00	157.081		
2,519.29	2,449.07	2,425.07	2,425.07	11.05	41.41	94.58	-6,842.40	4,414.34	8,169.75	8,117.30	52.46	155.746		
2,600.00	2,518.69	2,505.31	2,494.69	11.74	42.81	94.83	-6,842.40	4,414.34	8,173.63	8,119.09	54.54	149.858		
2,700.00	2,604.95	2,580.95	2,580.95	12.62	44.13	95.13	-6,842.40	4,414.34	8,178.72	8,121.98	56.73	144.161		
2,800.00	2,691.22	2,667.22	2,667.22	13.52	45.64	95.44	-6,842.40	4,414.34	8,184.11	8,124.98	59.13	138.416		
2,900.00	2,777.48	2,753.48	2,753.48	14.43	47.14	95.74	-6,842.40	4,414.34	8,189.82	8,128.28	61.53	133.093		
3,000.00	2,863.75	2,839.75	2,839.75	15.35	48.65	96.05	-6,842.40	4,414.34	8,195.83	8,131.87	63.95	128.153		
3,100.00	2,950.01	2,926.01	2,926.01	16.28	50.15	96.35	-6,842.40	4,414.34	8,202.15	8,135.77	66.38	123.562		
3,200.00	3,036.27	3,012.27	3,012.27	17.22	51.66	96.65	-6,842.40	4,414.34	8,208.77	8,139.96	68.82	119.286		
3,300.00	3,122.54	3,101.46	3,098.54	18.17	53.21	96.96	-6,842.40	4,414.34	8,215.71	8,144.40	71.31	115.216		
3,400.00	3,208.80	3,184.80	3,184.80	19.13	54.67	97.26	-6,842.40	4,414.34	8,222.94	8,149.24	73.70	111.571		
3,500.00	3,295.07	3,271.07	3,271.07	20.09	56.17	97.56	-6,842.40	4,414.34	8,230.49	8,154.34	76.15	108.083		
3,600.00	3,381.33	3,357.33	3,357.33	21.05	57.68	97.86	-6,842.40	4,414.34	8,238.33	8,159.73	78.60	104.812		
3,700.00	3,467.59	3,443.59	3,443.59	22.02	59.19	98.17	-6,842.40	4,414.34	8,246.48	8,165.43	81.05	101.740		
3,800.00	3,553.86	3,529.86	3,529.86	22.99	60.69	98.47	-6,842.40	4,414.34	8,254.93	8,171.42	83.51	98.851		
3,900.00	3,640.12	3,616.12	3,616.12	23.97	62.20	98.77	-6,842.40	4,414.34	8,263.68	8,177.72	85.96	96.129		
4,000.00	3,726.38	3,702.38	3,702.38	24.95	63.70	99.07	-6,842.40	4,414.34	8,272.74	8,184.31	88.42	93.561		
4,100.00	3,812.65	3,788.65	3,788.65	25.93	65.21	99.37	-6,842.40	4,414.34	8,282.09	8,191.21	90.88	91.134		
4,200.00	3,898.91	3,874.91	3,874.91	26.91	66.71	99.67	-6,842.40	4,414.34	8,291.73	8,198.40	93.33	88.839		
4,300.00	3,985.18	3,961.18	3,961.18	27.90	68.22	99.96	-6,842.40	4,414.34	8,301.68	8,205.89	95.79	86.666		
4,400.00	4,071.44	4,047.44	4,047.44	28.88	69.72	100.26	-6,842.40	4,414.34	8,311.92	8,213.68	98.24	84.604		
4,500.00	4,157.70	4,133.70	4,133.70	29.87	71.23	100.56	-6,842.40	4,414.34	8,322.46	8,221.76	100.70	82.647		
4,600.00	4,243.97	4,219.97	4,219.97	30.86	72.74	100.86	-6,842.40	4,414.34	8,333.29	8,230.14	103.15	80.787		
4,700.00	4,330.23	4,306.23	4,306.23	31.85	74.24	101.15	-6,842.40	4,414.34	8,344.41	8,238.81	105.60	79.016		
4,800.00	4,416.49	4,407.51	4,392.49	32.84	76.01	101.45	-6,842.40	4,414.34	8,355.83	8,247.51	108.32	77.143		
4,900.00	4,502.76	4,478.76	4,478.76	33.84	77.25	101.74	-6,842.40	4,414.34	8,367.53	8,257.03	110.50	75.723		
5,000.00	4,589.02	4,565.02	4,565.02	34.83	78.76	102.04	-6,842.40	4,414.34	8,379.52	8,266.58	112.95	74.189		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,675.29	4,651.29	4,651.29	35.82	80.26	102.33	-6,842.40	4,414.34	8,391.81	8,276.41	115.39	72.724		
5,200.00	4,761.55	4,737.55	4,737.55	36.82	81.77	102.62	-6,842.40	4,414.34	8,404.37	8,286.54	117.83	71.323		
5,300.00	4,847.81	4,823.81	4,823.81	37.82	83.28	102.92	-6,842.40	4,414.34	8,417.23	8,296.95	120.27	69.983		
5,400.00	4,934.08	4,910.08	4,910.08	38.81	84.78	103.21	-6,842.40	4,414.34	8,430.36	8,307.65	122.71	68.700		
5,500.00	5,020.34	5,003.66	4,996.34	39.81	86.41	103.50	-6,842.40	4,414.34	8,443.78	8,318.51	125.27	67.402		
5,600.00	5,106.60	5,050.00	5,050.00	40.81	87.22	103.68	-6,842.40	4,414.34	8,457.55	8,330.54	127.00	66.593		
5,700.00	5,192.87	5,050.00	5,050.00	41.81	87.22	103.68	-6,842.40	4,414.34	8,472.30	8,344.39	127.90	66.240		
5,800.00	5,279.13	5,050.00	5,050.00	42.81	87.22	103.68	-6,842.40	4,414.34	8,488.20	8,359.42	128.78	65.910		
5,900.00	5,365.40	5,050.00	5,050.00	43.81	87.22	103.68	-6,842.40	4,414.34	8,505.25	8,375.60	129.65	65.602		
6,000.00	5,451.66	5,050.00	5,050.00	44.81	87.22	103.68	-6,842.40	4,414.34	8,523.44	8,392.94	130.50	65.316		
6,100.00	5,537.92	5,050.00	5,050.00	45.81	87.22	103.68	-6,842.40	4,414.34	8,542.76	8,411.43	131.33	65.050		
6,200.00	5,624.19	5,050.00	5,050.00	46.81	87.22	103.68	-6,842.40	4,414.34	8,563.21	8,431.07	132.14	64.804		
6,300.00	5,710.45	5,050.00	5,050.00	47.81	87.22	103.68	-6,842.40	4,414.34	8,584.77	8,451.83	132.94	64.578		
6,400.00	5,796.72	5,050.00	5,050.00	48.81	87.22	103.68	-6,842.40	4,414.34	8,607.44	8,473.72	133.71	64.372		
6,500.00	5,882.98	5,050.00	5,050.00	49.81	87.22	103.68	-6,842.40	4,414.34	8,631.21	8,496.73	134.48	64.184		
6,600.00	5,969.24	5,050.00	5,050.00	50.82	87.22	103.68	-6,842.40	4,414.34	8,656.07	8,520.85	135.22	64.015		
6,700.00	6,055.51	5,050.00	5,050.00	51.82	87.22	103.68	-6,842.40	4,414.34	8,682.01	8,546.06	135.94	63.864		
6,800.00	6,141.77	5,050.00	5,050.00	52.82	87.22	103.68	-6,842.40	4,414.34	8,709.02	8,572.36	136.65	63.731		
6,900.00	6,228.03	5,050.00	5,050.00	53.83	87.22	103.68	-6,842.40	4,414.34	8,737.09	8,599.74	137.34	63.614		
7,000.00	6,314.30	5,050.00	5,050.00	54.83	87.22	103.68	-6,842.40	4,414.34	8,766.21	8,628.19	138.02	63.515		
7,100.00	6,400.56	5,050.00	5,050.00	55.83	87.22	103.68	-6,842.40	4,414.34	8,796.37	8,657.70	138.68	63.431		
7,200.00	6,486.83	5,050.00	5,050.00	56.84	87.22	103.68	-6,842.40	4,414.34	8,827.57	8,688.25	139.32	63.364		
7,300.00	6,573.09	5,050.00	5,050.00	57.84	87.22	103.68	-6,842.40	4,414.34	8,859.78	8,719.84	139.94	63.312		
7,400.00	6,659.35	5,050.00	5,050.00	58.84	87.22	103.68	-6,842.40	4,414.34	8,893.00	8,752.45	140.54	63.276		
7,500.00	6,745.62	5,050.00	5,050.00	59.85	87.22	103.68	-6,842.40	4,414.34	8,927.21	8,786.08	141.13	63.254		
7,600.00	6,831.88	5,050.00	5,050.00	60.85	87.22	103.68	-6,842.40	4,414.34	8,962.42	8,820.71	141.71	63.247		
7,700.00	6,918.14	5,050.00	5,050.00	61.86	87.22	103.68	-6,842.40	4,414.34	8,998.59	8,856.33	142.26	63.254		
7,800.00	7,004.41	5,050.00	5,050.00	62.86	87.22	103.68	-6,842.40	4,414.34	9,035.73	8,892.93	142.80	63.275		
7,900.00	7,090.67	5,050.00	5,050.00	63.87	87.22	103.68	-6,842.40	4,414.34	9,073.81	8,930.49	143.33	63.309		
8,000.00	7,176.94	5,050.00	5,050.00	64.87	87.22	103.68	-6,842.40	4,414.34	9,112.84	8,969.00	143.83	63.356		
8,027.52	7,200.68	5,050.00	5,050.00	65.15	87.22	103.68	-6,842.40	4,414.34	9,123.74	8,979.77	143.97	63.372		
8,050.00	7,220.18	5,050.00	5,050.00	65.37	87.22	100.57	-6,842.40	4,414.34	9,132.31	8,988.23	144.08	63.383		
8,100.00	7,264.25	5,050.00	5,050.00	65.85	87.22	92.57	-6,842.40	4,414.34	9,148.73	9,004.42	144.31	63.394		
8,150.00	7,308.99	5,050.00	5,050.00	66.28	87.22	83.28	-6,842.40	4,414.34	9,161.41	9,016.88	144.53	63.388		
8,200.00	7,354.07	5,050.00	5,050.00	66.67	87.22	73.17	-6,842.40	4,414.34	9,170.28	9,025.56	144.72	63.366		
8,250.00	7,399.14	5,050.00	5,050.00	67.02	87.22	62.97	-6,842.40	4,414.34	9,175.27	9,030.39	144.88	63.329		
8,300.00	7,443.85	5,050.00	5,050.00	67.32	87.22	53.38	-6,842.40	4,414.34	9,176.36	9,031.34	145.01	63.279		
8,350.00	7,487.88	5,050.00	5,050.00	67.56	87.22	44.85	-6,842.40	4,414.34	9,173.53	9,028.42	145.12	63.216		
8,400.00	7,530.87	5,050.00	5,050.00	67.75	87.22	37.53	-6,842.40	4,414.34	9,166.82	9,021.63	145.18	63.140		
8,450.00	7,572.51	5,050.00	5,050.00	67.90	87.22	31.35	-6,842.40	4,414.34	9,156.25	9,011.03	145.22	63.051		
8,500.00	7,612.48	5,050.00	5,050.00	68.00	87.22	26.13	-6,842.40	4,414.34	9,141.90	8,996.67	145.22	62.950		
8,550.00	7,650.47	5,050.00	5,050.00	68.05	87.22	21.66	-6,842.40	4,414.34	9,123.85	8,978.65	145.20	62.836		
8,600.00	7,686.20	5,050.00	5,050.00	68.06	87.22	17.75	-6,842.40	4,414.34	9,102.23	8,957.09	145.15	62.710		
8,650.00	7,719.39	5,050.00	5,050.00	68.03	87.22	14.24	-6,842.40	4,414.34	9,077.18	8,932.11	145.07	62.571		
8,700.00	7,749.79	5,050.00	5,050.00	67.97	87.22	10.96	-6,842.40	4,414.34	9,048.85	8,903.88	144.97	62.418		
8,750.00	7,777.17	5,050.00	5,050.00	67.87	87.22	7.78	-6,842.40	4,414.34	9,017.43	8,872.58	144.85	62.254		
8,800.00	7,801.32	5,050.00	5,050.00	67.74	87.22	4.56	-6,842.40	4,414.34	8,983.14	8,838.42	144.71	62.076		
8,850.00	7,822.06	5,050.00	5,050.00	67.59	87.22	1.12	-6,842.40	4,414.34	8,946.19	8,801.63	144.56	61.886		
8,900.00	7,839.23	5,050.00	5,050.00	67.41	87.22	-2.73	-6,842.40	4,414.34	8,906.84	8,762.45	144.39	61.684		
8,950.00	7,852.69	5,050.00	5,050.00	67.22	87.22	-7.24	-6,842.40	4,414.34	8,865.37	8,721.14	144.22	61.470		
9,000.00	7,862.35	5,050.00	5,050.00	67.00	87.22	-12.78	-6,842.40	4,414.34	8,822.05	8,678.00	144.05	61.245		
9,050.00	7,868.14	5,050.00	5,050.00	66.78	87.22	-19.84	-6,842.40	4,414.34	8,777.19	8,633.32	143.87	61.009		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	5,050.00	5,050.00	66.55	87.22	-28.72	-6,842.40	4,414.34	8,732.38	8,588.68	143.69	60.770		
9,100.00	7,870.00	5,050.00	5,050.00	66.55	87.22	-28.72	-6,842.40	4,414.34	8,731.12	8,587.43	143.69	60.763		
9,200.00	7,870.00	5,050.00	5,050.00	66.09	87.22	-28.72	-6,842.40	4,414.34	8,638.10	8,494.77	143.33	60.266		
9,300.00	7,870.00	5,050.00	5,050.00	65.65	87.22	-28.72	-6,842.40	4,414.34	8,545.24	8,402.27	142.97	59.769		
9,400.00	7,870.00	5,050.00	5,050.00	65.24	87.22	-28.72	-6,842.40	4,414.34	8,452.54	8,309.94	142.60	59.274		
9,500.00	7,870.00	5,050.00	5,050.00	64.85	87.22	-28.72	-6,842.40	4,414.34	8,360.01	8,217.79	142.23	58.779		
9,600.00	7,870.00	5,050.00	5,050.00	64.48	87.22	-28.72	-6,842.40	4,414.34	8,267.66	8,125.81	141.85	58.286		
9,700.00	7,870.00	5,050.00	5,050.00	64.13	87.22	-28.72	-6,842.40	4,414.34	8,175.48	8,034.03	141.46	57.795		
9,800.00	7,870.00	5,050.00	5,050.00	63.80	87.22	-28.72	-6,842.40	4,414.34	8,083.49	7,942.43	141.06	57.304		
9,900.00	7,870.00	5,050.00	5,050.00	63.50	87.22	-28.72	-6,842.40	4,414.34	7,991.70	7,851.04	140.66	56.815		
10,000.00	7,870.00	5,050.00	5,050.00	63.22	87.22	-28.72	-6,842.40	4,414.34	7,900.10	7,759.85	140.26	56.327		
10,100.00	7,870.00	5,050.00	5,050.00	62.96	87.22	-28.72	-6,842.40	4,414.34	7,808.71	7,668.87	139.84	55.840		
10,200.00	7,870.00	5,050.00	5,050.00	62.72	87.22	-28.72	-6,842.40	4,414.34	7,717.53	7,578.11	139.42	55.354		
10,300.00	7,870.00	5,050.00	5,050.00	62.50	87.22	-28.72	-6,842.40	4,414.34	7,626.58	7,487.58	138.99	54.870		
10,400.00	7,870.00	5,050.00	5,050.00	62.31	87.22	-28.72	-6,842.40	4,414.34	7,535.85	7,397.29	138.56	54.387		
10,500.00	7,870.00	5,050.00	5,050.00	62.15	87.22	-28.72	-6,842.40	4,414.34	7,445.36	7,307.24	138.12	53.905		
10,600.00	7,870.00	5,050.00	5,050.00	62.01	87.22	-28.72	-6,842.40	4,414.34	7,355.12	7,217.44	137.67	53.425		
10,700.00	7,870.00	5,050.00	5,050.00	61.90	87.22	-28.72	-6,842.40	4,414.34	7,265.13	7,127.91	137.22	52.945		
10,800.00	7,870.00	5,050.00	5,050.00	61.82	87.22	-28.72	-6,842.40	4,414.34	7,175.40	7,038.65	136.76	52.467		
10,900.00	7,870.00	5,050.00	5,050.00	61.78	87.22	-28.72	-6,842.40	4,414.34	7,085.96	6,949.66	136.29	51.991		
11,000.00	7,870.00	5,050.00	5,050.00	61.77	87.22	-28.72	-6,842.40	4,414.34	6,996.79	6,860.97	135.82	51.515		
11,100.00	7,870.00	5,050.00	5,050.00	61.81	87.22	-28.72	-6,842.40	4,414.34	6,907.93	6,772.59	135.34	51.041		
11,200.00	7,870.00	5,050.00	5,050.00	61.90	87.22	-28.72	-6,842.40	4,414.34	6,819.37	6,684.52	134.86	50.567		
11,300.00	7,870.00	5,050.00	5,050.00	62.03	87.22	-28.72	-6,842.40	4,414.34	6,731.14	6,596.77	134.37	50.095		
11,400.00	7,870.00	5,050.00	5,050.00	62.23	87.22	-28.72	-6,842.40	4,414.34	6,643.23	6,509.36	133.87	49.624		
11,500.00	7,870.00	5,050.00	5,050.00	62.50	87.22	-28.72	-6,842.40	4,414.34	6,555.68	6,422.31	133.37	49.153		
11,600.00	7,870.00	5,050.00	5,050.00	62.84	87.22	-28.72	-6,842.40	4,414.34	6,468.48	6,335.61	132.87	48.684		
11,700.00	7,870.00	5,050.00	5,050.00	63.25	87.22	-28.72	-6,842.40	4,414.34	6,381.66	6,249.30	132.36	48.215		
11,800.00	7,870.00	5,050.00	5,050.00	63.76	87.22	-28.72	-6,842.40	4,414.34	6,295.23	6,163.39	131.85	47.746		
11,900.00	7,870.00	5,050.00	5,050.00	64.34	87.22	-28.72	-6,842.40	4,414.34	6,209.21	6,077.88	131.33	47.278		
12,000.00	7,870.00	5,050.00	5,050.00	65.01	87.22	-28.72	-6,842.40	4,414.34	6,123.62	5,992.80	130.82	46.810		
12,100.00	7,870.00	5,050.00	5,050.00	65.77	87.22	-28.72	-6,842.40	4,414.34	6,038.46	5,908.16	130.30	46.343		
12,200.00	7,870.00	5,050.00	5,050.00	66.61	87.22	-28.72	-6,842.40	4,414.34	5,953.77	5,823.99	129.78	45.875		
12,300.00	7,870.00	5,050.00	5,050.00	67.51	87.22	-28.72	-6,842.40	4,414.34	5,869.56	5,740.29	129.27	45.406		
12,400.00	7,870.00	5,050.00	5,050.00	68.49	87.22	-28.72	-6,842.40	4,414.34	5,785.85	5,657.10	128.75	44.937		
12,500.00	7,870.00	5,050.00	5,050.00	69.52	87.22	-28.72	-6,842.40	4,414.34	5,702.67	5,574.43	128.24	44.468		
12,600.00	7,870.00	5,050.00	5,050.00	70.61	87.22	-28.72	-6,842.40	4,414.34	5,620.04	5,492.30	127.74	43.997		
12,700.00	7,870.00	5,050.00	5,050.00	71.75	87.22	-28.72	-6,842.40	4,414.34	5,537.97	5,410.73	127.24	43.524		
12,800.00	7,870.00	5,050.00	5,050.00	72.93	87.22	-28.72	-6,842.40	4,414.34	5,456.51	5,329.76	126.75	43.050		
12,900.00	7,870.00	5,050.00	5,050.00	74.14	87.22	-28.72	-6,842.40	4,414.34	5,375.67	5,249.40	126.27	42.573		
13,000.00	7,870.00	5,050.00	5,050.00	75.39	87.22	-28.72	-6,842.40	4,414.34	5,295.49	5,169.69	125.80	42.094		
13,100.00	7,870.00	5,050.00	5,050.00	76.67	87.22	-28.72	-6,842.40	4,414.34	5,215.99	5,090.64	125.35	41.612		
13,200.00	7,870.00	5,050.00	5,050.00	77.98	87.22	-28.72	-6,842.40	4,414.34	5,137.21	5,012.30	124.91	41.126		
13,300.00	7,870.00	5,050.00	5,050.00	79.31	87.22	-28.72	-6,842.40	4,414.34	5,059.18	4,934.68	124.50	40.637		
13,400.00	7,870.00	5,050.00	5,050.00	80.67	87.22	-28.72	-6,842.40	4,414.34	4,981.93	4,857.83	124.10	40.144		
13,500.00	7,870.00	5,050.00	5,050.00	82.04	87.22	-28.72	-6,842.40	4,414.34	4,905.51	4,781.77	123.73	39.646		
13,600.00	7,870.00	5,050.00	5,050.00	83.43	87.22	-28.72	-6,842.40	4,414.34	4,829.94	4,706.55	123.39	39.144		
13,700.00	7,870.00	5,050.00	5,050.00	84.84	87.22	-28.72	-6,842.40	4,414.34	4,755.28	4,632.20	123.08	38.636		
13,800.00	7,870.00	5,050.00	5,050.00	86.27	87.22	-28.72	-6,842.40	4,414.34	4,681.56	4,558.76	122.80	38.124		
13,900.00	7,870.00	5,050.00	5,050.00	87.71	87.22	-28.72	-6,842.40	4,414.34	4,608.84	4,486.28	122.56	37.605		
14,000.00	7,870.00	5,050.00	5,050.00	89.16	87.22	-28.72	-6,842.40	4,414.34	4,537.15	4,414.79	122.36	37.081		
14,100.00	7,870.00	5,050.00	5,050.00	90.63	87.22	-28.72	-6,842.40	4,414.34	4,466.55	4,344.35	122.20	36.551		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	5,050.00	5,050.00	92.10	87.22	-28.72	-6,842.40	4,414.34	4,397.10	4,275.01	122.09	36.016		
14,300.00	7,870.00	5,050.00	5,050.00	93.59	87.22	-28.72	-6,842.40	4,414.34	4,328.84	4,206.81	122.02	35.475		
14,400.00	7,870.00	5,050.00	5,050.00	95.09	87.22	-28.72	-6,842.40	4,414.34	4,261.83	4,139.82	122.01	34.930		
14,500.00	7,870.00	5,050.00	5,050.00	96.60	87.22	-28.72	-6,842.40	4,414.34	4,196.13	4,074.08	122.05	34.380		
14,600.00	7,870.00	5,050.00	5,050.00	98.11	87.22	-28.72	-6,842.40	4,414.34	4,131.81	4,009.66	122.15	33.825		
14,700.00	7,870.00	5,050.00	5,050.00	99.64	87.22	-28.72	-6,842.40	4,414.34	4,068.94	3,946.63	122.31	33.268		
14,800.00	7,870.00	5,050.00	5,050.00	101.17	87.22	-28.72	-6,842.40	4,414.34	4,007.57	3,885.04	122.52	32.708		
14,900.00	7,870.00	5,050.00	5,050.00	102.71	87.22	-28.72	-6,842.40	4,414.34	3,947.78	3,824.97	122.80	32.147		
15,000.00	7,870.00	5,050.00	5,050.00	104.26	87.22	-28.72	-6,842.40	4,414.34	3,889.64	3,766.49	123.14	31.586		
15,100.00	7,870.00	5,050.00	5,050.00	105.82	87.22	-28.72	-6,842.40	4,414.34	3,833.23	3,709.68	123.55	31.026		
15,200.00	7,870.00	5,050.00	5,050.00	107.38	87.22	-28.72	-6,842.40	4,414.34	3,778.62	3,654.60	124.02	30.467		
15,300.00	7,870.00	5,050.00	5,050.00	108.95	87.22	-28.72	-6,842.40	4,414.34	3,725.90	3,601.34	124.56	29.913		
15,400.00	7,870.00	5,050.00	5,050.00	110.52	87.22	-28.72	-6,842.40	4,414.34	3,675.15	3,549.98	125.16	29.363		
15,500.00	7,870.00	5,050.00	5,050.00	112.10	87.22	-28.72	-6,842.40	4,414.34	3,626.44	3,500.61	125.83	28.819		
15,600.00	7,870.00	5,050.00	5,050.00	113.69	87.22	-28.72	-6,842.40	4,414.34	3,579.86	3,453.29	126.57	28.283		
15,700.00	7,870.00	5,050.00	5,050.00	115.28	87.22	-28.72	-6,842.40	4,414.34	3,535.50	3,408.13	127.38	27.756		
15,800.00	7,870.00	5,050.00	5,050.00	116.87	87.22	-28.72	-6,842.40	4,414.34	3,493.44	3,365.19	128.25	27.240		
15,900.00	7,870.00	5,050.00	5,050.00	118.47	87.22	-28.72	-6,842.40	4,414.34	3,453.76	3,324.57	129.19	26.734		
16,000.00	7,870.00	5,050.00	5,050.00	120.07	87.22	-28.72	-6,842.40	4,414.34	3,416.55	3,286.35	130.20	26.241		
16,100.00	7,870.00	5,050.00	5,050.00	121.68	87.22	-28.72	-6,842.40	4,414.34	3,381.89	3,250.61	131.28	25.761		
16,200.00	7,870.00	5,050.00	5,050.00	123.30	87.22	-28.72	-6,842.40	4,414.34	3,349.86	3,217.43	132.43	25.295		
16,300.00	7,870.00	5,050.00	5,050.00	124.91	87.22	-28.72	-6,842.40	4,414.34	3,320.53	3,186.88	133.65	24.845		
16,400.00	7,870.00	5,050.00	5,050.00	126.53	87.22	-28.72	-6,842.40	4,414.34	3,293.97	3,159.02	134.95	24.409		
16,500.00	7,870.00	5,050.00	5,050.00	128.16	87.22	-28.72	-6,842.40	4,414.34	3,270.26	3,133.94	136.32	23.990		
16,600.00	7,870.00	5,050.00	5,050.00	129.79	87.22	-28.72	-6,842.40	4,414.34	3,249.46	3,111.69	137.77	23.587		
16,700.00	7,870.00	5,050.00	5,050.00	131.42	87.22	-28.72	-6,842.40	4,414.34	3,231.61	3,092.32	139.29	23.200		
16,800.00	7,870.00	5,050.00	5,050.00	133.05	87.22	-28.72	-6,842.40	4,414.34	3,216.78	3,075.88	140.90	22.831		
16,900.00	7,870.00	5,050.00	5,050.00	134.69	87.22	-28.72	-6,842.40	4,414.34	3,205.00	3,062.42	142.58	22.479		
17,000.00	7,870.00	5,050.00	5,050.00	136.33	87.22	-28.72	-6,842.40	4,414.34	3,196.31	3,051.97	144.33	22.145		
17,100.00	7,870.00	5,050.00	5,050.00	137.97	87.22	-28.72	-6,842.40	4,414.34	3,190.73	3,044.56	146.17	21.830		
17,200.00	7,870.00	5,050.00	5,050.00	139.62	87.22	-28.72	-6,842.40	4,414.34	3,188.27	3,040.21	148.07	21.533		
17,228.23	7,870.00	5,050.00	5,050.00	140.09	87.22	-28.72	-6,842.40	4,414.34	3,188.15	3,039.53	148.61	21.453 CC		
17,300.00	7,870.00	5,050.00	5,050.00	141.27	87.22	-28.72	-6,842.40	4,414.34	3,188.96	3,038.93	150.03	21.256 ES		
17,400.00	7,870.00	5,050.00	5,050.00	142.92	87.22	-28.72	-6,842.40	4,414.34	3,192.77	3,040.73	152.05	20.999		
17,500.00	7,870.00	5,050.00	5,050.00	144.58	87.22	-28.72	-6,842.40	4,414.34	3,199.71	3,045.60	154.11	20.763		
17,600.00	7,870.00	5,050.00	5,050.00	146.23	87.22	-28.72	-6,842.40	4,414.34	3,209.75	3,053.55	156.20	20.549		
17,700.00	7,870.00	5,050.00	5,050.00	147.89	87.22	-28.72	-6,842.40	4,414.34	3,222.86	3,064.55	158.32	20.357		
17,800.00	7,870.00	5,050.00	5,050.00	149.56	87.22	-28.72	-6,842.40	4,414.34	3,239.01	3,078.57	160.44	20.188		
17,900.00	7,870.00	5,050.00	5,050.00	151.22	87.22	-28.72	-6,842.40	4,414.34	3,258.15	3,095.59	162.57	20.042		
18,000.00	7,870.00	5,050.00	5,050.00	152.89	87.22	-28.72	-6,842.40	4,414.34	3,280.23	3,115.56	164.67	19.920		
18,100.00	7,870.00	5,050.00	5,050.00	154.55	87.22	-28.72	-6,842.40	4,414.34	3,305.19	3,138.45	166.74	19.822		
18,200.00	7,870.00	5,050.00	5,050.00	156.22	87.22	-28.72	-6,842.40	4,414.34	3,332.96	3,164.18	168.78	19.748		
18,300.00	7,870.00	5,050.00	5,050.00	157.90	87.22	-28.72	-6,842.40	4,414.34	3,363.48	3,192.72	170.76	19.697		
18,400.00	7,870.00	5,050.00	5,050.00	159.57	87.22	-28.72	-6,842.40	4,414.34	3,396.67	3,223.98	172.69	19.670		
18,500.00	7,870.00	5,050.00	5,050.00	161.25	87.22	-28.72	-6,842.40	4,414.34	3,432.45	3,257.90	174.54	19.665 SF		
18,600.00	7,870.00	5,050.00	5,050.00	162.93	87.22	-28.72	-6,842.40	4,414.34	3,470.74	3,294.41	176.33	19.683		
18,700.00	7,870.00	5,050.00	5,050.00	164.60	87.22	-28.72	-6,842.40	4,414.34	3,511.47	3,333.43	178.04	19.723		
18,797.52	7,870.00	5,050.00	5,050.00	166.24	87.22	-28.72	-6,842.40	4,414.34	3,553.44	3,373.82	179.62	19.783		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	151.72	-8,182.62	4,402.25	9,291.72					
100.00	100.00	67.00	67.00	0.13	0.56	151.72	-8,182.62	4,402.25	9,291.66	9,290.97	0.69	N/A		
200.00	200.00	167.00	167.00	0.49	2.00	151.72	-8,182.62	4,402.25	9,291.66	9,289.17	2.49	3,729.642		
300.00	300.00	267.00	267.00	0.85	3.74	151.72	-8,182.62	4,402.25	9,291.66	9,287.07	4.60	2,022.080		
400.00	400.00	367.00	367.00	1.21	5.49	151.72	-8,182.62	4,402.25	9,291.66	9,284.96	6.70	1,387.042		
500.00	500.00	467.00	467.00	1.57	7.23	151.72	-8,182.62	4,402.25	9,291.66	9,282.86	8.80	1,055.546		
600.00	600.00	567.00	567.00	1.93	8.98	151.72	-8,182.62	4,402.25	9,291.66	9,280.76	10.91	851.938		
700.00	700.00	667.00	667.00	2.29	10.73	151.72	-8,182.62	4,402.25	9,291.66	9,278.65	13.01	714.177		
800.00	800.00	767.00	767.00	2.64	12.47	151.72	-8,182.62	4,402.25	9,291.66	9,276.55	15.11	614.768		
900.00	900.00	867.00	867.00	3.00	14.22	151.72	-8,182.62	4,402.25	9,291.66	9,274.45	17.22	539.651		
1,000.00	1,000.00	967.00	967.00	3.36	15.96	151.72	-8,182.62	4,402.25	9,291.66	9,272.34	19.32	480.892		
1,100.00	1,099.98	1,066.98	1,066.98	3.72	17.71	97.10	-8,182.62	4,402.25	9,291.88	9,270.46	21.42	433.761		
1,200.00	1,199.84	1,166.84	1,166.84	4.07	19.45	97.12	-8,182.62	4,402.25	9,292.53	9,269.01	23.52	395.122		
1,300.00	1,299.45	1,266.45	1,266.45	4.43	21.19	97.16	-8,182.62	4,402.25	9,293.62	9,268.00	25.62	362.814		
1,400.00	1,398.70	1,365.70	1,365.70	4.80	22.92	97.20	-8,182.62	4,402.25	9,295.15	9,267.43	27.71	335.385		
1,500.00	1,497.47	1,464.47	1,464.47	5.18	24.64	97.25	-8,182.62	4,402.25	9,297.14	9,267.32	29.82	311.783		
1,600.00	1,595.62	1,562.62	1,562.62	5.57	26.36	97.32	-8,182.62	4,402.25	9,299.61	9,267.68	31.93	291.236		
1,700.00	1,693.06	1,660.06	1,660.06	6.00	28.06	97.39	-8,182.62	4,402.25	9,302.56	9,268.51	34.06	273.162		
1,800.00	1,789.64	1,756.64	1,756.64	6.45	29.74	97.48	-8,182.62	4,402.25	9,306.03	9,269.84	36.19	257.119		
1,900.00	1,885.27	1,852.27	1,852.27	6.94	31.41	97.57	-8,182.62	4,402.25	9,310.03	9,271.68	38.35	242.765		
2,000.00	1,979.82	1,946.82	1,946.82	7.47	33.06	97.67	-8,182.62	4,402.25	9,314.59	9,274.06	40.53	229.832		
2,100.00	2,073.17	2,040.17	2,040.17	8.05	34.69	97.77	-8,182.62	4,402.25	9,319.74	9,277.01	42.73	218.108		
2,200.00	2,165.21	2,132.21	2,132.21	8.67	36.30	97.87	-8,182.62	4,402.25	9,325.51	9,280.55	44.96	207.425		
2,300.00	2,255.84	2,222.84	2,222.84	9.35	37.88	97.98	-8,182.62	4,402.25	9,331.93	9,284.71	47.22	197.645		
2,400.00	2,344.94	2,311.94	2,311.94	10.09	39.43	98.09	-8,182.62	4,402.25	9,339.03	9,289.53	49.50	188.658		
2,500.00	2,432.39	2,400.61	2,399.39	10.89	40.98	98.19	-8,182.62	4,402.25	9,346.86	9,295.01	51.84	180.299		
2,519.29	2,449.07	2,416.07	2,416.07	11.05	41.25	98.21	-8,182.62	4,402.25	9,348.45	9,296.18	52.27	178.850		
2,600.00	2,518.69	2,485.69	2,485.69	11.74	42.47	98.42	-8,182.62	4,402.25	9,355.27	9,301.11	54.16	172.719		
2,700.00	2,604.95	2,571.95	2,571.95	12.62	43.97	98.69	-8,182.62	4,402.25	9,363.96	9,307.43	56.53	165.640		
2,800.00	2,691.22	2,658.22	2,658.22	13.52	45.48	98.95	-8,182.62	4,402.25	9,372.91	9,314.00	58.92	159.089		
2,900.00	2,777.48	2,744.48	2,744.48	14.43	46.98	99.22	-8,182.62	4,402.25	9,382.13	9,320.82	61.31	153.018		
3,000.00	2,863.75	2,830.75	2,830.75	15.35	48.49	99.48	-8,182.62	4,402.25	9,391.61	9,327.89	63.72	147.383		
3,100.00	2,950.01	2,917.01	2,917.01	16.28	50.00	99.74	-8,182.62	4,402.25	9,401.36	9,335.22	66.14	142.145		
3,200.00	3,036.27	3,003.27	3,003.27	17.22	51.50	100.01	-8,182.62	4,402.25	9,411.36	9,342.80	68.56	137.266		
3,300.00	3,122.54	3,089.54	3,089.54	18.17	53.01	100.27	-8,182.62	4,402.25	9,421.63	9,350.64	70.99	132.714		
3,400.00	3,208.80	3,175.80	3,175.80	19.13	54.51	100.53	-8,182.62	4,402.25	9,432.16	9,358.73	73.43	128.459		
3,500.00	3,295.07	3,262.07	3,262.07	20.09	56.02	100.79	-8,182.62	4,402.25	9,442.94	9,367.08	75.86	124.475		
3,600.00	3,381.33	3,348.33	3,348.33	21.05	57.52	101.06	-8,182.62	4,402.25	9,453.99	9,375.69	78.30	120.739		
3,700.00	3,467.59	3,434.59	3,434.59	22.02	59.03	101.32	-8,182.62	4,402.25	9,465.29	9,384.55	80.74	117.228		
3,800.00	3,553.86	3,520.86	3,520.86	22.99	60.53	101.58	-8,182.62	4,402.25	9,476.85	9,393.67	83.18	113.925		
3,900.00	3,640.12	3,607.12	3,607.12	23.97	62.04	101.84	-8,182.62	4,402.25	9,488.66	9,403.04	85.63	110.813		
4,000.00	3,726.38	3,706.62	3,693.38	24.95	63.78	102.10	-8,182.62	4,402.25	9,500.73	9,412.43	88.30	107.593		
4,100.00	3,812.65	3,779.65	3,779.65	25.93	65.05	102.36	-8,182.62	4,402.25	9,513.06	9,422.54	90.52	105.099		
4,200.00	3,898.91	3,865.91	3,865.91	26.91	66.56	102.61	-8,182.62	4,402.25	9,525.63	9,432.67	92.96	102.471		
4,300.00	3,985.18	3,952.18	3,952.18	27.90	68.06	102.87	-8,182.62	4,402.25	9,538.46	9,443.06	95.40	99.982		
4,400.00	4,071.44	4,038.44	4,038.44	28.88	69.57	103.13	-8,182.62	4,402.25	9,551.53	9,453.69	97.84	97.620		
4,500.00	4,157.70	4,124.70	4,124.70	29.87	71.07	103.39	-8,182.62	4,402.25	9,564.86	9,464.58	100.29	95.376		
4,600.00	4,243.97	4,210.97	4,210.97	30.86	72.58	103.64	-8,182.62	4,402.25	9,578.44	9,475.71	102.73	93.243		
4,700.00	4,330.23	4,302.77	4,297.23	31.85	74.18	103.90	-8,182.62	4,402.25	9,592.26	9,487.00	105.26	91.128		
4,800.00	4,416.49	4,383.49	4,383.49	32.84	75.59	104.15	-8,182.62	4,402.25	9,606.33	9,498.73	107.60	89.277		
4,900.00	4,502.76	4,469.76	4,469.76	33.84	77.10	104.41	-8,182.62	4,402.25	9,620.65	9,510.61	110.04	87.431		
5,000.00	4,589.02	4,556.02	4,556.02	34.83	78.60	104.66	-8,182.62	4,402.25	9,635.20	9,522.73	112.47	85.668		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,642.29	4,642.29	35.82	80.11	104.92	-8,182.62	4,402.25	9,650.01	9,535.10	114.90	83.983		
5,200.00	4,761.55	4,728.55	4,728.55	36.82	81.61	105.17	-8,182.62	4,402.25	9,665.05	9,547.72	117.33	82.372		
5,300.00	4,847.81	4,814.81	4,814.81	37.82	83.12	105.42	-8,182.62	4,402.25	9,680.34	9,560.57	119.76	80.830		
5,400.00	4,934.08	4,901.08	4,901.08	38.81	84.62	105.67	-8,182.62	4,402.25	9,695.86	9,573.67	122.19	79.352		
5,500.00	5,020.34	4,987.34	4,987.34	39.81	86.13	105.92	-8,182.62	4,402.25	9,711.63	9,587.01	124.61	77.935		
5,600.00	5,106.60	5,048.00	5,048.00	40.81	87.19	106.10	-8,182.62	4,402.25	9,727.66	9,601.08	126.58	76.849		
5,700.00	5,192.87	5,048.00	5,048.00	41.81	87.19	106.10	-8,182.62	4,402.25	9,744.51	9,617.03	127.47	76.444		
5,800.00	5,279.13	5,048.00	5,048.00	42.81	87.19	106.10	-8,182.62	4,402.25	9,762.35	9,634.00	128.35	76.061		
5,900.00	5,365.40	5,048.00	5,048.00	43.81	87.19	106.10	-8,182.62	4,402.25	9,781.18	9,651.97	129.21	75.697		
6,000.00	5,451.66	5,048.00	5,048.00	44.81	87.19	106.10	-8,182.62	4,402.25	9,800.99	9,670.93	130.07	75.354		
6,100.00	5,537.92	5,048.00	5,048.00	45.81	87.19	106.10	-8,182.62	4,402.25	9,821.79	9,690.89	130.90	75.031		
6,200.00	5,624.19	5,048.00	5,048.00	46.81	87.19	106.10	-8,182.62	4,402.25	9,843.55	9,711.83	131.73	74.727		
6,300.00	5,710.45	5,048.00	5,048.00	47.81	87.19	106.10	-8,182.62	4,402.25	9,866.29	9,733.75	132.54	74.442		
6,400.00	5,796.72	5,048.00	5,048.00	48.81	87.19	106.10	-8,182.62	4,402.25	9,889.98	9,756.64	133.33	74.174		
6,500.00	5,882.98	5,048.00	5,048.00	49.81	87.19	106.10	-8,182.62	4,402.25	9,914.62	9,780.50	134.12	73.925		
6,600.00	5,969.24	5,048.00	5,048.00	50.82	87.19	106.10	-8,182.62	4,402.25	9,940.20	9,805.32	134.89	73.693		
6,700.00	6,055.51	5,048.00	5,048.00	51.82	87.19	106.10	-8,182.62	4,402.25	9,966.73	9,831.09	135.64	73.479		
6,800.00	6,141.77	5,048.00	5,048.00	52.82	87.19	106.10	-8,182.62	4,402.25	9,994.18	9,857.80	136.38	73.281		
9,098.65	7,870.00	5,048.00	5,048.00	66.55	87.19	-28.66	-8,182.62	4,402.25	9,988.98	9,843.79	145.20	68.796		
9,100.00	7,870.00	5,048.00	5,048.00	66.55	87.19	-28.66	-8,182.62	4,402.25	9,987.70	9,842.51	145.19	68.789		
9,200.00	7,870.00	5,048.00	5,048.00	66.09	87.19	-28.66	-8,182.62	4,402.25	9,892.95	9,748.04	144.91	68.270		
9,300.00	7,870.00	5,048.00	5,048.00	65.65	87.19	-28.66	-8,182.62	4,402.25	9,798.31	9,653.69	144.62	67.752		
9,400.00	7,870.00	5,048.00	5,048.00	65.24	87.19	-28.66	-8,182.62	4,402.25	9,703.77	9,559.44	144.33	67.235		
9,500.00	7,870.00	5,048.00	5,048.00	64.85	87.19	-28.66	-8,182.62	4,402.25	9,609.34	9,465.31	144.03	66.718		
9,600.00	7,870.00	5,048.00	5,048.00	64.48	87.19	-28.66	-8,182.62	4,402.25	9,515.03	9,371.30	143.73	66.201		
9,700.00	7,870.00	5,048.00	5,048.00	64.13	87.19	-28.66	-8,182.62	4,402.25	9,420.83	9,277.41	143.42	65.685		
9,800.00	7,870.00	5,048.00	5,048.00	63.80	87.19	-28.66	-8,182.62	4,402.25	9,326.75	9,183.64	143.11	65.170		
9,900.00	7,870.00	5,048.00	5,048.00	63.50	87.19	-28.66	-8,182.62	4,402.25	9,232.80	9,090.00	142.80	64.655		
10,000.00	7,870.00	5,048.00	5,048.00	63.22	87.19	-28.66	-8,182.62	4,402.25	9,138.98	8,996.50	142.48	64.141		
10,100.00	7,870.00	5,048.00	5,048.00	62.96	87.19	-28.66	-8,182.62	4,402.25	9,045.29	8,903.13	142.16	63.628		
10,200.00	7,870.00	5,048.00	5,048.00	62.72	87.19	-28.66	-8,182.62	4,402.25	8,951.73	8,809.90	141.83	63.115		
10,300.00	7,870.00	5,048.00	5,048.00	62.50	87.19	-28.66	-8,182.62	4,402.25	8,858.32	8,716.82	141.50	62.602		
10,400.00	7,870.00	5,048.00	5,048.00	62.31	87.19	-28.66	-8,182.62	4,402.25	8,765.05	8,623.89	141.17	62.090		
10,500.00	7,870.00	5,048.00	5,048.00	62.15	87.19	-28.66	-8,182.62	4,402.25	8,671.94	8,531.11	140.83	61.579		
10,600.00	7,870.00	5,048.00	5,048.00	62.01	87.19	-28.66	-8,182.62	4,402.25	8,578.97	8,438.49	140.48	61.068		
10,700.00	7,870.00	5,048.00	5,048.00	61.90	87.19	-28.66	-8,182.62	4,402.25	8,486.17	8,346.04	140.13	60.558		
10,800.00	7,870.00	5,048.00	5,048.00	61.82	87.19	-28.66	-8,182.62	4,402.25	8,393.53	8,253.75	139.78	60.048		
10,900.00	7,870.00	5,048.00	5,048.00	61.78	87.19	-28.66	-8,182.62	4,402.25	8,301.06	8,161.64	139.42	59.539		
11,000.00	7,870.00	5,048.00	5,048.00	61.77	87.19	-28.66	-8,182.62	4,402.25	8,208.77	8,069.71	139.06	59.030		
11,100.00	7,870.00	5,048.00	5,048.00	61.81	87.19	-28.66	-8,182.62	4,402.25	8,116.67	7,977.97	138.70	58.521		
11,200.00	7,870.00	5,048.00	5,048.00	61.90	87.19	-28.66	-8,182.62	4,402.25	8,024.75	7,886.42	138.33	58.013		
11,300.00	7,870.00	5,048.00	5,048.00	62.03	87.19	-28.66	-8,182.62	4,402.25	7,933.03	7,795.07	137.95	57.506		
11,400.00	7,870.00	5,048.00	5,048.00	62.23	87.19	-28.66	-8,182.62	4,402.25	7,841.50	7,703.93	137.57	56.998		
11,500.00	7,870.00	5,048.00	5,048.00	62.50	87.19	-28.66	-8,182.62	4,402.25	7,750.19	7,613.00	137.19	56.491		
11,600.00	7,870.00	5,048.00	5,048.00	62.84	87.19	-28.66	-8,182.62	4,402.25	7,659.10	7,522.29	136.81	55.985		
11,700.00	7,870.00	5,048.00	5,048.00	63.25	87.19	-28.66	-8,182.62	4,402.25	7,568.23	7,431.81	136.42	55.478		
11,800.00	7,870.00	5,048.00	5,048.00	63.76	87.19	-28.66	-8,182.62	4,402.25	7,477.59	7,341.57	136.03	54.972		
11,900.00	7,870.00	5,048.00	5,048.00	64.34	87.19	-28.66	-8,182.62	4,402.25	7,387.20	7,251.57	135.63	54.465		
12,000.00	7,870.00	5,048.00	5,048.00	65.01	87.19	-28.66	-8,182.62	4,402.25	7,297.06	7,161.82	135.23	53.959		
12,100.00	7,870.00	5,048.00	5,048.00	65.77	87.19	-28.66	-8,182.62	4,402.25	7,207.17	7,072.34	134.83	53.452		
12,200.00	7,870.00	5,048.00	5,048.00	66.61	87.19	-28.66	-8,182.62	4,402.25	7,117.56	6,983.12	134.43	52.945		
12,300.00	7,870.00	5,048.00	5,048.00	67.51	87.19	-28.66	-8,182.62	4,402.25	7,028.22	6,894.19	134.03	52.437		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
12,400.00	7,870.00	5,048.00	5,048.00	68.49	87.19	-28.66	-8,182.62	4,402.25	6,939.18	6,805.55	133.63	51.929		
12,500.00	7,870.00	5,048.00	5,048.00	69.52	87.19	-28.66	-8,182.62	4,402.25	6,850.44	6,717.22	133.22	51.421		
12,600.00	7,870.00	5,048.00	5,048.00	70.61	87.19	-28.66	-8,182.62	4,402.25	6,762.01	6,629.20	132.82	50.911		
12,700.00	7,870.00	5,048.00	5,048.00	71.75	87.19	-28.66	-8,182.62	4,402.25	6,673.92	6,541.50	132.42	50.401		
12,800.00	7,870.00	5,048.00	5,048.00	72.93	87.19	-28.66	-8,182.62	4,402.25	6,586.16	6,454.14	132.01	49.889		
12,900.00	7,870.00	5,048.00	5,048.00	74.14	87.19	-28.66	-8,182.62	4,402.25	6,498.75	6,367.13	131.62	49.377		
13,000.00	7,870.00	5,048.00	5,048.00	75.39	87.19	-28.66	-8,182.62	4,402.25	6,411.71	6,280.49	131.22	48.862		
13,100.00	7,870.00	5,048.00	5,048.00	76.67	87.19	-28.66	-8,182.62	4,402.25	6,325.06	6,194.23	130.83	48.346		
13,200.00	7,870.00	5,048.00	5,048.00	77.98	87.19	-28.66	-8,182.62	4,402.25	6,238.80	6,108.36	130.44	47.827		
13,300.00	7,870.00	5,048.00	5,048.00	79.31	87.19	-28.66	-8,182.62	4,402.25	6,152.96	6,022.90	130.07	47.307		
13,400.00	7,870.00	5,048.00	5,048.00	80.67	87.19	-28.66	-8,182.62	4,402.25	6,067.56	5,937.86	129.69	46.783		
13,500.00	7,870.00	5,048.00	5,048.00	82.04	87.19	-28.66	-8,182.62	4,402.25	5,982.61	5,853.27	129.33	46.257		
13,600.00	7,870.00	5,048.00	5,048.00	83.43	87.19	-28.66	-8,182.62	4,402.25	5,898.13	5,769.14	128.98	45.728		
13,700.00	7,870.00	5,048.00	5,048.00	84.84	87.19	-28.66	-8,182.62	4,402.25	5,814.14	5,685.49	128.64	45.195		
13,800.00	7,870.00	5,048.00	5,048.00	86.27	87.19	-28.66	-8,182.62	4,402.25	5,730.66	5,602.34	128.32	44.659		
13,900.00	7,870.00	5,048.00	5,048.00	87.71	87.19	-28.66	-8,182.62	4,402.25	5,647.72	5,519.71	128.01	44.119		
14,000.00	7,870.00	5,048.00	5,048.00	89.16	87.19	-28.66	-8,182.62	4,402.25	5,565.35	5,437.63	127.72	43.574		
14,100.00	7,870.00	5,048.00	5,048.00	90.63	87.19	-28.66	-8,182.62	4,402.25	5,483.56	5,356.11	127.45	43.024		
14,200.00	7,870.00	5,048.00	5,048.00	92.10	87.19	-28.66	-8,182.62	4,402.25	5,402.38	5,275.18	127.20	42.470		
14,300.00	7,870.00	5,048.00	5,048.00	93.59	87.19	-28.66	-8,182.62	4,402.25	5,321.84	5,194.86	126.98	41.911		
14,400.00	7,870.00	5,048.00	5,048.00	95.09	87.19	-28.66	-8,182.62	4,402.25	5,241.98	5,115.19	126.78	41.346		
14,500.00	7,870.00	5,048.00	5,048.00	96.60	87.19	-28.66	-8,182.62	4,402.25	5,162.81	5,036.20	126.62	40.776		
14,600.00	7,870.00	5,048.00	5,048.00	98.11	87.19	-28.66	-8,182.62	4,402.25	5,084.38	4,957.90	126.48	40.199		
14,700.00	7,870.00	5,048.00	5,048.00	99.64	87.19	-28.66	-8,182.62	4,402.25	5,006.72	4,880.34	126.38	39.618		
14,800.00	7,870.00	5,048.00	5,048.00	101.17	87.19	-28.66	-8,182.62	4,402.25	4,929.86	4,803.55	126.31	39.030		
14,900.00	7,870.00	5,048.00	5,048.00	102.71	87.19	-28.66	-8,182.62	4,402.25	4,853.85	4,727.57	126.28	38.437		
15,000.00	7,870.00	5,048.00	5,048.00	104.26	87.19	-28.66	-8,182.62	4,402.25	4,778.72	4,652.42	126.30	37.837		
15,100.00	7,870.00	5,048.00	5,048.00	105.82	87.19	-28.66	-8,182.62	4,402.25	4,704.51	4,578.16	126.35	37.233		
15,200.00	7,870.00	5,048.00	5,048.00	107.38	87.19	-28.66	-8,182.62	4,402.25	4,631.28	4,504.82	126.46	36.624		
15,300.00	7,870.00	5,048.00	5,048.00	108.95	87.19	-28.66	-8,182.62	4,402.25	4,559.06	4,432.45	126.61	36.009		
15,400.00	7,870.00	5,048.00	5,048.00	110.52	87.19	-28.66	-8,182.62	4,402.25	4,487.91	4,361.10	126.81	35.391		
15,500.00	7,870.00	5,048.00	5,048.00	112.10	87.19	-28.66	-8,182.62	4,402.25	4,417.88	4,290.82	127.06	34.769		
15,600.00	7,870.00	5,048.00	5,048.00	113.69	87.19	-28.66	-8,182.62	4,402.25	4,349.02	4,221.65	127.37	34.145		
15,700.00	7,870.00	5,048.00	5,048.00	115.28	87.19	-28.66	-8,182.62	4,402.25	4,281.39	4,153.66	127.73	33.519		
15,800.00	7,870.00	5,048.00	5,048.00	116.87	87.19	-28.66	-8,182.62	4,402.25	4,215.04	4,086.89	128.15	32.892		
15,900.00	7,870.00	5,048.00	5,048.00	118.47	87.19	-28.66	-8,182.62	4,402.25	4,150.05	4,021.42	128.62	32.265		
16,000.00	7,870.00	5,048.00	5,048.00	120.07	87.19	-28.66	-8,182.62	4,402.25	4,086.46	3,957.30	129.16	31.639		
16,100.00	7,870.00	5,048.00	5,048.00	121.68	87.19	-28.66	-8,182.62	4,402.25	4,024.36	3,894.61	129.75	31.016		
16,200.00	7,870.00	5,048.00	5,048.00	123.30	87.19	-28.66	-8,182.62	4,402.25	3,963.81	3,833.41	130.40	30.397		
16,300.00	7,870.00	5,048.00	5,048.00	124.91	87.19	-28.66	-8,182.62	4,402.25	3,904.88	3,773.77	131.11	29.783		
16,400.00	7,870.00	5,048.00	5,048.00	126.53	87.19	-28.66	-8,182.62	4,402.25	3,847.65	3,715.77	131.88	29.175		
16,500.00	7,870.00	5,048.00	5,048.00	128.16	87.19	-28.66	-8,182.62	4,402.25	3,792.19	3,659.48	132.71	28.575		
16,600.00	7,870.00	5,048.00	5,048.00	129.79	87.19	-28.66	-8,182.62	4,402.25	3,738.58	3,604.99	133.60	27.984		
16,700.00	7,870.00	5,048.00	5,048.00	131.42	87.19	-28.66	-8,182.62	4,402.25	3,686.91	3,552.37	134.54	27.404		
16,800.00	7,870.00	5,048.00	5,048.00	133.05	87.19	-28.66	-8,182.62	4,402.25	3,637.25	3,501.71	135.54	26.835		
16,900.00	7,870.00	5,048.00	5,048.00	134.69	87.19	-28.66	-8,182.62	4,402.25	3,589.70	3,453.10	136.60	26.279		
17,000.00	7,870.00	5,048.00	5,048.00	136.33	87.19	-28.66	-8,182.62	4,402.25	3,544.32	3,406.61	137.71	25.738		
17,100.00	7,870.00	5,048.00	5,048.00	137.97	87.19	-28.66	-8,182.62	4,402.25	3,501.22	3,362.34	138.88	25.211		
17,200.00	7,870.00	5,048.00	5,048.00	139.62	87.19	-28.66	-8,182.62	4,402.25	3,460.47	3,320.37	140.10	24.700		
17,300.00	7,870.00	5,048.00	5,048.00	141.27	87.19	-28.66	-8,182.62	4,402.25	3,422.15	3,280.78	141.37	24.206		
17,400.00	7,870.00	5,048.00	5,048.00	142.92	87.19	-28.66	-8,182.62	4,402.25	3,386.36	3,243.66	142.70	23.730		
17,500.00	7,870.00	5,048.00	5,048.00	144.58	87.19	-28.66	-8,182.62	4,402.25	3,353.17	3,209.08	144.09	23.272		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,600.00	7,870.00	5,048.00	5,048.00	146.23	87.19	-28.66	-8,182.62	4,402.25	3,322.66	3,177.13	145.53	22.832	
17,700.00	7,870.00	5,048.00	5,048.00	147.89	87.19	-28.66	-8,182.62	4,402.25	3,294.90	3,147.88	147.02	22.411	
17,800.00	7,870.00	5,048.00	5,048.00	149.56	87.19	-28.66	-8,182.62	4,402.25	3,269.96	3,121.39	148.57	22.009	
17,900.00	7,870.00	5,048.00	5,048.00	151.22	87.19	-28.66	-8,182.62	4,402.25	3,247.92	3,097.74	150.18	21.627	
18,000.00	7,870.00	5,048.00	5,048.00	152.89	87.19	-28.66	-8,182.62	4,402.25	3,228.82	3,076.97	151.85	21.264	
18,100.00	7,870.00	5,048.00	5,048.00	154.55	87.19	-28.66	-8,182.62	4,402.25	3,212.72	3,059.14	153.57	20.920	
18,200.00	7,870.00	5,048.00	5,048.00	156.22	87.19	-28.66	-8,182.62	4,402.25	3,199.67	3,044.31	155.36	20.595	
18,300.00	7,870.00	5,048.00	5,048.00	157.90	87.19	-28.66	-8,182.62	4,402.25	3,189.70	3,032.49	157.20	20.290	
18,400.00	7,870.00	5,048.00	5,048.00	159.57	87.19	-28.66	-8,182.62	4,402.25	3,182.84	3,023.74	159.10	20.005	
18,500.00	7,870.00	5,048.00	5,048.00	161.25	87.19	-28.66	-8,182.62	4,402.25	3,179.12	3,018.06	161.05	19.740	
18,568.48	7,870.00	5,048.00	5,048.00	162.40	87.19	-28.66	-8,182.62	4,402.25	3,178.38	3,015.96	162.42	19.569 CC	
18,600.00	7,870.00	5,048.00	5,048.00	162.93	87.19	-28.66	-8,182.62	4,402.25	3,178.53	3,015.49	163.05	19.494 ES	
18,700.00	7,870.00	5,048.00	5,048.00	164.60	87.19	-28.66	-8,182.62	4,402.25	3,181.10	3,016.01	165.09	19.269	
18,797.52	7,870.00	5,048.00	5,048.00	166.24	87.19	-28.66	-8,182.62	4,402.25	3,186.62	3,019.52	167.10	19.070 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	142.05	-4,069.26	3,173.51	5,160.45					
100.00	100.00	109.35	109.35	0.13	0.19	142.05	-4,069.23	3,173.19	5,160.25	5,159.92	0.33	N/A		
200.00	200.00	233.61	233.61	0.49	0.41	142.06	-4,069.10	3,172.04	5,159.60	5,158.70	0.90	5,707.319		
300.00	300.00	357.85	357.82	0.85	0.63	142.08	-4,068.88	3,170.06	5,158.48	5,157.00	1.48	3,483.369		
400.00	400.00	482.05	482.00	1.21	0.85	142.10	-4,068.56	3,167.26	5,156.89	5,154.84	2.06	2,506.223		
500.00	500.00	606.21	606.10	1.57	1.07	142.13	-4,068.16	3,163.62	5,154.84	5,152.20	2.63	1,956.814		
600.00	600.00	661.24	661.13	1.93	1.37	142.14	-4,067.90	3,162.65	5,153.20	5,149.91	3.30	1,563.801		
700.00	700.00	732.00	731.88	2.29	1.62	142.14	-4,067.32	3,162.31	5,152.21	5,148.31	3.90	1,321.601		
800.00	800.00	791.32	791.19	2.64	1.82	142.12	-4,066.53	3,163.08	5,151.87	5,147.41	4.46	1,156.079		
812.51	812.51	800.64	800.51	2.69	1.85	142.12	-4,066.38	3,163.27	5,151.86	5,147.33	4.53	1,136.653		
900.00	900.00	869.13	868.95	3.00	2.08	142.09	-4,064.99	3,165.27	5,152.04	5,146.96	5.08	1,014.641		
1,000.00	1,000.00	1,061.11	1,060.52	3.36	2.75	141.96	-4,056.86	3,174.40	5,151.72	5,145.61	6.11	843.696		
1,100.00	1,099.98	1,132.23	1,131.41	3.72	3.00	87.31	-4,052.61	3,178.40	5,150.42	5,143.71	6.72	766.787		
1,200.00	1,199.84	1,192.77	1,191.70	4.07	3.22	87.30	-4,049.01	3,182.53	5,149.71	5,142.42	7.29	706.365		
1,300.00	1,299.45	1,354.66	1,352.52	4.43	3.83	87.27	-4,036.91	3,196.55	5,148.84	5,140.59	8.26	623.611		
1,400.00	1,398.70	1,477.83	1,474.27	4.80	4.32	87.27	-4,024.01	3,209.92	5,146.71	5,137.61	9.11	565.075		
1,500.00	1,497.47	1,551.00	1,546.30	5.18	4.62	87.30	-4,015.30	3,219.36	5,144.55	5,134.76	9.79	525.427		
1,600.00	1,595.62	1,593.04	1,587.60	5.57	4.80	87.33	-4,010.26	3,225.36	5,143.00	5,132.63	10.37	496.010		
1,700.00	1,693.06	1,639.00	1,632.67	6.00	4.99	87.36	-4,004.90	3,232.60	5,142.42	5,131.44	10.99	468.042		
1,800.00	1,789.64	1,800.00	1,767.29	6.45	5.72	87.45	-3,987.65	3,256.32	5,142.04	5,129.88	12.17	422.684		
1,900.00	1,885.27	1,900.00	2,059.93	6.94	6.19	87.80	-3,944.64	3,302.03	5,138.44	5,125.32	13.12	391.793		
2,000.00	1,979.82	2,132.52	2,115.30	7.47	7.25	87.98	-3,936.53	3,309.08	5,133.53	5,118.82	14.71	348.935		
2,100.00	2,073.17	2,177.66	2,159.69	8.05	7.46	88.15	-3,930.69	3,314.87	5,129.70	5,114.21	15.49	331.081		
2,200.00	2,165.21	2,233.53	2,214.65	8.67	7.71	88.35	-3,923.91	3,322.26	5,126.71	5,110.34	16.37	313.124		
2,300.00	2,255.84	2,305.70	2,285.63	9.35	8.04	88.60	-3,915.47	3,332.23	5,124.41	5,107.02	17.38	294.811		
2,400.00	2,344.94	2,383.89	2,362.45	10.09	8.40	88.88	-3,906.27	3,343.54	5,122.50	5,104.02	18.48	277.197		
2,500.00	2,432.39	2,465.41	2,442.55	10.89	8.77	89.20	-3,896.95	3,355.44	5,121.02	5,101.36	19.66	260.544		
2,519.29	2,449.07	2,481.95	2,458.82	11.05	8.85	89.26	-3,895.09	3,357.84	5,120.77	5,100.88	19.89	257.426		
2,600.00	2,518.69	2,599.58	2,574.34	11.74	9.39	89.70	-3,881.32	3,375.17	5,119.69	5,098.56	21.13	242.330		
2,700.00	2,604.95	2,660.50	2,634.04	12.62	9.68	89.92	-3,873.71	3,384.59	5,118.27	5,095.98	22.29	229.598		
2,800.00	2,691.22	2,766.05	2,737.38	13.52	10.18	90.30	-3,860.56	3,401.54	5,117.43	5,093.74	23.69	215.999		
2,900.00	2,777.48	2,840.90	2,810.73	14.43	10.54	90.57	-3,851.32	3,413.29	5,116.67	5,091.72	24.96	205.023		
2,999.46	2,863.28	2,922.81	2,891.24	15.34	10.92	90.88	-3,842.19	3,425.30	5,116.49	5,090.23	26.25	194.880		
3,000.00	2,863.75	2,923.28	2,891.70	15.35	10.92	90.89	-3,842.14	3,425.37	5,116.49	5,090.23	26.26	194.827		
3,100.00	2,950.01	3,026.85	2,993.47	16.28	11.41	91.28	-3,830.52	3,440.71	5,116.56	5,088.88	27.68	184.872		
3,200.00	3,036.27	3,158.93	3,123.01	17.22	12.03	91.76	-3,814.24	3,460.67	5,116.04	5,086.80	29.24	174.962		
3,254.32	3,083.14	3,193.01	3,156.45	17.74	12.19	91.89	-3,810.10	3,465.76	5,115.92	5,086.00	29.92	171.007		
3,300.00	3,122.54	3,210.00	3,173.13	18.17	12.27	91.95	-3,808.10	3,468.29	5,116.02	5,085.59	30.43	168.128		
3,400.00	3,208.80	3,264.02	3,226.16	19.13	12.53	92.15	-3,801.96	3,476.59	5,116.99	5,085.36	31.64	161.749		
3,500.00	3,295.07	3,297.00	3,258.51	20.09	12.68	92.27	-3,798.40	3,481.92	5,119.12	5,086.37	32.74	156.348		
3,600.00	3,381.33	3,353.34	3,313.76	21.05	12.95	92.48	-3,792.76	3,491.36	5,122.31	5,088.35	33.96	150.818		
3,700.00	3,467.59	3,402.31	3,361.80	22.02	13.18	92.66	-3,788.37	3,499.80	5,126.66	5,091.51	35.15	145.857		
3,800.00	3,553.86	3,472.00	3,430.19	22.99	13.51	92.92	-3,782.66	3,511.91	5,131.92	5,095.48	36.44	140.849		
3,900.00	3,640.12	3,841.93	3,794.31	23.97	15.20	94.35	-3,746.95	3,565.81	5,134.48	5,095.36	39.12	131.240		
4,000.00	3,726.38	3,909.00	3,860.52	24.95	15.50	94.62	-3,739.86	3,573.83	5,135.65	5,095.26	40.39	127.154		
4,100.00	3,812.65	3,988.63	3,939.14	25.93	15.85	94.94	-3,731.72	3,583.51	5,137.46	5,095.75	41.71	123.166		
4,200.00	3,898.91	4,086.35	4,035.54	26.91	16.29	95.33	-3,721.40	3,595.78	5,139.47	5,096.36	43.11	119.206		
4,300.00	3,985.18	4,125.99	4,074.60	27.90	16.47	95.49	-3,717.28	3,601.08	5,142.20	5,097.94	44.26	116.174		
4,400.00	4,071.44	4,170.00	4,117.94	28.88	16.67	95.66	-3,712.96	3,607.41	5,146.11	5,100.68	45.43	113.285		
4,500.00	4,157.70	4,296.77	4,242.41	29.87	17.27	96.13	-3,699.48	3,627.25	5,150.10	5,103.11	46.99	109.590		
4,600.00	4,243.97	4,363.01	4,307.67	30.86	17.57	96.38	-3,693.09	3,636.64	5,154.55	5,106.28	48.26	106.804		
4,700.00	4,330.23	4,432.00	4,375.85	31.85	17.87	96.66	-3,687.37	3,645.48	5,159.72	5,110.20	49.53	104.183		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.00	4,416.49	4,520.04	4,463.20	32.84	18.23	97.04	-3,681.40	3,654.75	5,165.43	5,114.59	50.85	101.587		
4,900.00	4,502.76	4,647.46	4,590.13	33.84	18.71	97.65	-3,674.62	3,663.39	5,171.05	5,118.76	52.28	98.909		
5,000.00	4,589.02	4,749.23	4,691.73	34.83	19.06	98.16	-3,670.29	3,667.29	5,176.71	5,123.12	53.58	96.610		
5,100.00	4,675.29	4,831.18	4,773.62	35.82	19.32	98.59	-3,667.49	3,668.79	5,182.66	5,127.86	54.79	94.583		
5,200.00	4,761.55	4,921.68	4,864.10	36.82	19.59	99.09	-3,665.60	3,668.39	5,189.22	5,133.21	56.01	92.653		
5,300.00	4,847.81	5,050.48	4,992.83	37.82	19.96	99.82	-3,663.65	3,664.73	5,195.84	5,138.54	57.30	90.677		
5,400.00	4,934.08	5,140.94	5,083.21	38.81	20.20	100.34	-3,662.24	3,661.26	5,202.56	5,144.09	58.48	88.968		
5,500.00	5,020.34	5,245.54	5,187.70	39.81	20.49	100.95	-3,660.51	3,656.76	5,209.58	5,149.89	59.69	87.283		
5,600.00	5,106.60	5,305.00	5,247.09	40.81	20.66	101.29	-3,659.41	3,654.03	5,216.96	5,156.19	60.77	85.849		
5,700.00	5,192.87	5,372.10	5,314.12	41.81	20.85	101.68	-3,658.30	3,651.35	5,225.19	5,163.32	61.87	84.451		
5,800.00	5,279.13	5,419.42	5,361.42	42.81	20.98	101.95	-3,657.74	3,650.01	5,234.62	5,171.71	62.91	83.205		
5,900.00	5,365.40	5,480.00	5,421.99	43.81	21.16	102.29	-3,657.29	3,648.96	5,245.20	5,181.21	63.98	81.978		
6,000.00	5,451.66	5,536.89	5,478.87	44.81	21.33	102.60	-3,657.04	3,648.35	5,256.68	5,191.64	65.04	80.821		
6,100.00	5,537.92	5,614.81	5,556.80	45.81	21.56	103.03	-3,656.77	3,647.59	5,268.82	5,202.66	66.16	79.637		
6,200.00	5,624.19	5,697.85	5,639.83	46.81	21.80	103.48	-3,656.57	3,646.86	5,281.53	5,214.24	67.29	78.488		
6,300.00	5,710.45	5,786.17	5,728.14	47.81	22.06	103.96	-3,656.39	3,645.96	5,294.69	5,226.25	68.43	77.370		
6,400.00	5,796.72	5,878.74	5,820.71	48.81	22.34	104.47	-3,656.20	3,644.82	5,308.25	5,238.67	69.58	76.285		
6,500.00	5,882.98	5,975.32	5,917.28	49.81	22.63	104.99	-3,655.89	3,643.40	5,322.12	5,251.38	70.74	75.232		
6,600.00	5,969.24	6,071.40	6,013.34	50.82	22.92	105.52	-3,655.47	3,641.71	5,336.28	5,264.38	71.89	74.224		
6,700.00	6,055.51	6,167.16	6,109.08	51.82	23.20	106.04	-3,654.94	3,639.78	5,350.73	5,277.69	73.04	73.260		
6,800.00	6,141.77	6,249.77	6,191.66	52.82	23.45	106.49	-3,654.46	3,637.95	5,365.58	5,291.45	74.13	72.380		
6,900.00	6,228.03	6,330.56	6,272.43	53.83	23.70	106.92	-3,654.09	3,636.06	5,380.95	5,305.74	75.21	71.545		
7,000.00	6,314.30	6,423.06	6,364.91	54.83	23.98	107.42	-3,653.68	3,633.91	5,396.80	5,320.47	76.33	70.707		
7,100.00	6,400.56	6,520.53	6,462.36	55.83	24.28	107.94	-3,652.96	3,631.91	5,412.91	5,335.46	77.45	69.885		
7,200.00	6,486.83	6,605.24	6,547.05	56.84	24.54	108.39	-3,652.16	3,630.43	5,429.38	5,350.84	78.54	69.129		
7,300.00	6,573.09	6,689.16	6,630.95	57.84	24.80	108.83	-3,651.34	3,629.24	5,446.31	5,366.69	79.62	68.408		
7,400.00	6,659.35	6,771.04	6,712.83	58.84	25.07	109.25	-3,650.48	3,628.46	5,463.71	5,383.02	80.68	67.717		
7,500.00	6,745.62	6,853.07	6,794.85	59.85	25.33	109.67	-3,649.56	3,628.23	5,481.59	5,399.84	81.75	67.052		
7,600.00	6,831.88	6,930.57	6,872.35	60.85	25.59	110.06	-3,648.68	3,628.44	5,499.96	5,417.16	82.80	66.426		
7,700.00	6,918.14	7,006.04	6,947.81	61.86	25.83	110.43	-3,647.96	3,628.72	5,518.89	5,435.06	83.83	65.834		
7,800.00	7,004.41	7,082.14	7,023.91	62.86	26.08	110.81	-3,647.37	3,629.05	5,538.39	5,453.53	84.86	65.266		
7,900.00	7,090.67	7,159.15	7,100.92	63.87	26.33	111.19	-3,646.93	3,629.38	5,558.41	5,472.53	85.88	64.721		
8,000.00	7,176.94	7,242.00	7,183.76	64.87	26.60	111.60	-3,646.59	3,629.72	5,578.96	5,492.03	86.92	64.182		
8,027.52	7,200.68	7,275.63	7,217.39	65.15	26.71	111.76	-3,646.43	3,629.79	5,584.65	5,497.40	87.25	64.006		
8,050.00	7,220.18	7,303.22	7,244.99	65.37	26.80	108.57	-3,646.26	3,629.81	5,588.87	5,501.35	87.52	63.859		
8,100.00	7,264.25	7,365.47	7,307.23	65.85	27.01	100.45	-3,645.77	3,629.68	5,595.13	5,507.02	88.11	63.500		
8,150.00	7,308.99	7,430.55	7,372.30	66.28	27.22	91.10	-3,645.07	3,629.32	5,597.05	5,508.34	88.70	63.098		
8,200.00	7,354.07	7,498.49	7,440.24	66.67	27.44	81.01	-3,644.12	3,628.64	5,594.56	5,505.27	89.29	62.657		
8,250.00	7,399.14	7,566.00	7,507.73	67.02	27.66	70.86	-3,642.95	3,627.66	5,587.69	5,497.84	89.85	62.188		
8,300.00	7,443.85	8,300.00	7,525.80	67.32	30.07	61.14	-3,642.64	3,627.40	5,576.66	5,484.10	92.56	60.248		
8,350.00	7,487.88	7,624.94	7,566.66	67.56	27.86	52.64	-3,641.91	3,626.84	5,561.53	5,470.92	90.62	61.375		
8,400.00	7,530.87	7,651.05	7,592.77	67.75	27.94	45.32	-3,641.55	3,626.65	5,542.61	5,451.67	90.94	60.945		
8,450.00	7,572.51	7,676.46	7,618.17	67.90	28.02	39.16	-3,641.26	3,626.58	5,519.95	5,428.71	91.24	60.497		
8,500.00	7,612.48	7,700.98	7,642.69	68.00	28.10	33.99	-3,641.02	3,626.61	5,493.70	5,402.18	91.51	60.033		
8,550.00	7,650.47	7,724.41	7,666.11	68.05	28.18	29.58	-3,640.85	3,626.74	5,464.02	5,372.27	91.75	59.554		
8,600.00	7,686.20	7,750.00	7,691.71	68.06	28.27	25.75	-3,640.72	3,626.98	5,431.13	5,339.16	91.97	59.053		
8,650.00	7,719.39	7,774.42	7,716.12	68.03	28.35	22.29	-3,640.63	3,627.32	5,395.21	5,303.04	92.16	58.539		
8,700.00	7,749.79	7,801.33	7,743.03	67.97	28.44	19.03	-3,640.52	3,627.82	5,356.49	5,264.14	92.35	58.004		
8,750.00	7,777.17	7,825.65	7,767.34	67.87	28.52	15.73	-3,640.42	3,628.38	5,315.26	5,222.76	92.50	57.464		
8,800.00	7,801.32	7,847.15	7,788.83	67.74	28.59	12.10	-3,640.33	3,628.97	5,271.80	5,179.19	92.61	56.922		
8,850.00	7,822.06	7,865.64	7,807.31	67.59	28.65	7.67	-3,640.25	3,629.54	5,226.45	5,133.75	92.70	56.379		
8,900.00	7,839.23	7,880.94	7,822.61	67.41	28.71	1.62	-3,640.19	3,630.07	5,179.54	5,086.78	92.76	55.839		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
8,950.00	7,852.69	7,892.93	7,834.59	67.22	28.75	-7.84	-3,640.14	3,630.50	5,131.42	5,038.64	92.79	55.304		
9,000.00	7,862.35	7,901.49	7,843.14	67.00	28.77	-24.70	-3,640.10	3,630.83	5,082.46	4,989.67	92.79	54.776		
9,050.00	7,868.14	7,906.53	7,848.18	66.78	28.79	-54.89	-3,640.08	3,631.03	5,033.03	4,940.26	92.76	54.258		
9,098.65	7,870.00	7,908.03	7,849.68	66.55	28.80	-89.35	-3,640.08	3,631.09	4,984.84	4,892.13	92.71	53.767		
9,100.00	7,870.00	7,908.03	7,849.67	66.55	28.80	-89.35	-3,640.08	3,631.09	4,983.50	4,890.79	92.71	53.753		
9,200.00	7,870.00	7,907.64	7,849.29	66.09	28.80	-89.32	-3,640.08	3,631.08	4,884.63	4,792.04	92.59	52.757		
9,300.00	7,870.00	7,907.25	7,848.90	65.65	28.79	-89.29	-3,640.08	3,631.06	4,785.80	4,693.34	92.46	51.761		
9,400.00	7,870.00	7,906.86	7,848.51	65.24	28.79	-89.26	-3,640.08	3,631.05	4,687.02	4,594.69	92.33	50.766		
9,500.00	7,870.00	7,906.47	7,848.12	64.85	28.79	-89.23	-3,640.08	3,631.03	4,588.29	4,496.10	92.19	49.770		
9,600.00	7,870.00	7,906.09	7,847.73	64.48	28.79	-89.20	-3,640.09	3,631.02	4,489.62	4,397.58	92.05	48.775		
9,700.00	7,870.00	7,905.70	7,847.34	64.13	28.79	-89.17	-3,640.09	3,631.00	4,391.01	4,299.11	91.90	47.781		
9,800.00	7,870.00	7,905.31	7,846.96	63.80	28.79	-89.14	-3,640.09	3,630.99	4,292.47	4,200.72	91.75	46.786		
9,900.00	7,870.00	7,904.92	7,846.57	63.50	28.79	-89.11	-3,640.09	3,630.97	4,193.99	4,102.40	91.59	45.792		
10,000.00	7,870.00	7,904.53	7,846.18	63.22	28.79	-89.08	-3,640.09	3,630.95	4,095.59	4,004.17	91.42	44.799		
10,100.00	7,870.00	7,904.15	7,845.79	62.96	28.78	-89.05	-3,640.09	3,630.94	3,997.26	3,906.02	91.25	43.806		
10,200.00	7,870.00	7,903.76	7,845.41	62.72	28.78	-89.02	-3,640.10	3,630.92	3,899.03	3,807.96	91.07	42.813		
10,300.00	7,870.00	7,903.37	7,845.02	62.50	28.78	-88.99	-3,640.10	3,630.91	3,800.88	3,710.00	90.88	41.822		
10,400.00	7,870.00	7,902.98	7,844.63	62.31	28.78	-88.96	-3,640.10	3,630.89	3,702.83	3,612.15	90.69	40.831		
10,500.00	7,870.00	7,902.60	7,844.25	62.15	28.78	-88.93	-3,640.10	3,630.88	3,604.89	3,514.41	90.48	39.841		
10,600.00	7,870.00	7,902.21	7,843.86	62.01	28.78	-88.90	-3,640.10	3,630.86	3,507.07	3,416.80	90.27	38.852		
10,700.00	7,870.00	7,901.82	7,843.47	61.90	28.78	-88.87	-3,640.10	3,630.85	3,409.37	3,319.33	90.04	37.863		
10,800.00	7,870.00	7,901.44	7,843.09	61.82	28.77	-88.84	-3,640.10	3,630.83	3,311.81	3,222.00	89.81	36.876		
10,900.00	7,870.00	7,901.05	7,842.70	61.78	28.77	-88.81	-3,640.11	3,630.82	3,214.40	3,124.84	89.56	35.890		
11,000.00	7,870.00	7,900.67	7,842.32	61.77	28.77	-88.78	-3,640.11	3,630.80	3,117.15	3,027.85	89.30	34.905		
11,100.00	7,870.00	7,900.28	7,841.93	61.81	28.77	-88.75	-3,640.11	3,630.79	3,020.09	2,931.06	89.03	33.921		
11,200.00	7,870.00	7,899.89	7,841.55	61.90	28.77	-88.72	-3,640.11	3,630.77	2,923.22	2,834.47	88.75	32.939		
11,300.00	7,870.00	7,899.51	7,841.16	62.03	28.77	-88.69	-3,640.11	3,630.76	2,826.57	2,738.12	88.44	31.959		
11,400.00	7,870.00	7,899.12	7,840.78	62.23	28.77	-88.66	-3,640.11	3,630.74	2,730.16	2,642.03	88.13	30.980		
11,500.00	7,870.00	7,898.74	7,840.39	62.50	28.77	-88.63	-3,640.12	3,630.73	2,634.02	2,546.22	87.79	30.002		
11,600.00	7,870.00	7,898.35	7,840.01	62.84	28.76	-88.60	-3,640.12	3,630.71	2,538.17	2,450.73	87.44	29.027		
11,700.00	7,870.00	7,897.97	7,839.62	63.25	28.76	-88.57	-3,640.12	3,630.70	2,442.66	2,355.59	87.07	28.053		
11,800.00	7,870.00	7,897.58	7,839.24	63.76	28.76	-88.54	-3,640.12	3,630.68	2,347.53	2,260.84	86.68	27.082		
11,900.00	7,870.00	7,897.20	7,838.85	64.34	28.76	-88.51	-3,640.12	3,630.67	2,252.81	2,166.54	86.27	26.112		
12,000.00	7,870.00	7,896.81	7,838.47	65.01	28.76	-88.48	-3,640.12	3,630.65	2,158.57	2,072.72	85.85	25.144		
12,100.00	7,870.00	7,896.43	7,838.08	65.77	28.76	-88.45	-3,640.13	3,630.64	2,064.87	1,979.47	85.40	24.179		
12,200.00	7,870.00	7,896.05	7,837.70	66.61	28.76	-88.42	-3,640.13	3,630.62	1,971.80	1,886.86	84.94	23.214		
12,300.00	7,870.00	7,895.66	7,837.32	67.51	28.76	-88.39	-3,640.13	3,630.61	1,879.43	1,794.97	84.46	22.251		
12,400.00	7,870.00	7,895.28	7,836.93	68.49	28.75	-88.36	-3,640.13	3,630.59	1,787.88	1,703.90	83.98	21.289		
12,500.00	7,870.00	7,894.89	7,836.55	69.52	28.75	-88.33	-3,640.13	3,630.58	1,697.29	1,613.79	83.50	20.327		
12,600.00	7,870.00	7,894.51	7,836.17	70.61	28.75	-88.30	-3,640.13	3,630.56	1,607.82	1,524.78	83.03	19.363		
12,700.00	7,870.00	7,894.13	7,835.78	71.75	28.75	-88.27	-3,640.14	3,630.55	1,519.65	1,437.05	82.61	18.397		
12,800.00	7,870.00	7,893.74	7,835.40	72.93	28.75	-88.24	-3,640.14	3,630.53	1,433.05	1,350.81	82.24	17.425		
12,900.00	7,870.00	7,893.36	7,835.02	74.14	28.75	-88.21	-3,640.14	3,630.52	1,348.29	1,266.31	81.99	16.445		
13,000.00	7,870.00	7,892.98	7,834.63	75.39	28.75	-88.18	-3,640.14	3,630.51	1,265.77	1,183.87	81.90	15.455		
13,100.00	7,870.00	7,892.60	7,834.25	76.67	28.75	-88.16	-3,640.14	3,630.49	1,185.94	1,103.87	82.07	14.450		
13,200.00	7,870.00	7,892.21	7,833.87	77.98	28.74	-88.13	-3,640.14	3,630.48	1,109.38	1,026.77	82.60	13.431		
13,300.00	7,870.00	7,891.83	7,833.49	79.31	28.74	-88.10	-3,640.15	3,630.46	1,036.82	953.19	83.63	12.398		
13,400.00	7,870.00	7,891.45	7,833.11	80.67	28.74	-88.07	-3,640.15	3,630.45	969.15	883.85	85.31	11.361		
13,500.00	7,870.00	7,891.07	7,832.72	82.04	28.74	-88.04	-3,640.15	3,630.43	907.48	819.71	87.77	10.339		
13,600.00	7,870.00	7,890.68	7,832.34	83.43	28.74	-88.01	-3,640.15	3,630.42	853.11	761.99	91.12	9.363		
13,700.00	7,870.00	7,890.30	7,831.96	84.84	28.74	-87.98	-3,640.15	3,630.41	807.51	712.19	95.32	8.471		
13,800.00	7,870.00	7,889.92	7,831.58	86.27	28.74	-87.95	-3,640.15	3,630.39	772.23	672.02	100.21	7.706		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,870.00	7,889.54	7,831.20	87.71	28.73	-87.92	-3,640.16	3,630.38	748.74	643.31	105.43	7.102		
14,000.00	7,870.00	7,889.16	7,830.82	89.16	28.73	-87.89	-3,640.16	3,630.36	738.16	627.64	110.51	6.679		
14,028.65	7,870.00	7,889.05	7,830.71	89.58	28.73	-87.88	-3,640.16	3,630.36	737.60	625.72	111.88	6.593 CC, ES		
14,100.00	7,870.00	7,888.78	7,830.44	90.63	28.73	-87.86	-3,640.16	3,630.35	741.04	626.04	115.00	6.444		
14,200.00	7,870.00	7,888.40	7,830.06	92.10	28.73	-87.83	-3,640.16	3,630.33	757.24	638.68	118.56	6.387 SF		
14,300.00	7,870.00	7,888.02	7,829.68	93.59	28.73	-87.80	-3,640.16	3,630.32	785.93	664.87	121.06	6.492		
14,400.00	7,870.00	7,887.63	7,829.29	95.09	28.73	-87.77	-3,640.16	3,630.31	825.80	703.26	122.54	6.739		
14,500.00	7,870.00	7,887.25	7,828.91	96.60	28.73	-87.74	-3,640.16	3,630.29	875.34	752.14	123.20	7.105		
14,600.00	7,870.00	7,886.87	7,828.53	98.11	28.73	-87.71	-3,640.17	3,630.28	933.00	809.76	123.23	7.571		
14,700.00	7,870.00	7,886.49	7,828.15	99.64	28.72	-87.68	-3,640.17	3,630.27	997.37	874.53	122.84	8.119		
14,800.00	7,870.00	7,886.11	7,827.77	101.17	28.72	-87.65	-3,640.17	3,630.25	1,067.25	945.07	122.18	8.735		
14,900.00	7,870.00	7,885.73	7,827.40	102.71	28.72	-87.62	-3,640.17	3,630.24	1,141.62	1,020.25	121.37	9.406		
15,000.00	7,870.00	7,885.35	7,827.02	104.26	28.72	-87.59	-3,640.17	3,630.22	1,219.65	1,099.18	120.48	10.123		
15,100.00	7,870.00	7,884.97	7,826.64	105.82	28.72	-87.56	-3,640.17	3,630.21	1,300.70	1,181.13	119.57	10.878		
15,200.00	7,870.00	7,884.59	7,826.26	107.38	28.72	-87.53	-3,640.18	3,630.20	1,384.23	1,265.56	118.66	11.665		
15,300.00	7,870.00	7,884.22	7,825.88	108.95	28.72	-87.50	-3,640.18	3,630.18	1,469.81	1,352.02	117.79	12.478		
15,400.00	7,870.00	7,883.84	7,825.50	110.52	28.72	-87.47	-3,640.18	3,630.17	1,557.12	1,440.15	116.96	13.313		
15,500.00	7,870.00	7,883.46	7,825.12	112.10	28.71	-87.45	-3,640.18	3,630.15	1,645.87	1,529.69	116.18	14.166		
15,600.00	7,870.00	7,883.08	7,824.74	113.69	28.71	-87.42	-3,640.18	3,630.14	1,735.84	1,620.39	115.45	15.036		
15,700.00	7,870.00	7,882.70	7,824.36	115.28	28.71	-87.39	-3,640.18	3,630.13	1,826.86	1,712.10	114.76	15.919		
15,800.00	7,870.00	7,882.32	7,823.99	116.87	28.71	-87.36	-3,640.19	3,630.11	1,918.77	1,804.65	114.12	16.814		
15,900.00	7,870.00	7,881.94	7,823.61	118.47	28.71	-87.33	-3,640.19	3,630.10	2,011.45	1,897.93	113.52	17.718		
16,000.00	7,870.00	7,881.57	7,823.23	120.07	28.71	-87.30	-3,640.19	3,630.09	2,104.80	1,991.83	112.97	18.632		
16,100.00	7,870.00	7,881.19	7,822.85	121.68	28.71	-87.27	-3,640.19	3,630.07	2,198.74	2,086.29	112.45	19.553		
16,200.00	7,870.00	7,880.81	7,822.47	123.30	28.71	-87.24	-3,640.19	3,630.06	2,293.19	2,181.22	111.97	20.480		
16,300.00	7,870.00	7,880.43	7,822.10	124.91	28.70	-87.21	-3,640.19	3,630.05	2,388.09	2,276.57	111.52	21.414		
16,400.00	7,870.00	7,880.05	7,821.72	126.53	28.70	-87.18	-3,640.19	3,630.03	2,483.39	2,372.29	111.10	22.352		
16,500.00	7,870.00	7,879.68	7,821.34	128.16	28.70	-87.15	-3,640.20	3,630.02	2,579.05	2,468.34	110.71	23.295		
16,600.00	7,870.00	7,879.30	7,820.97	129.79	28.70	-87.12	-3,640.20	3,630.01	2,675.03	2,564.68	110.35	24.241		
16,700.00	7,870.00	7,878.92	7,820.59	131.42	28.70	-87.09	-3,640.20	3,629.99	2,771.29	2,661.28	110.01	25.192		
16,800.00	7,870.00	7,878.55	7,820.21	133.05	28.70	-87.06	-3,640.20	3,629.98	2,867.80	2,758.11	109.69	26.145		
16,900.00	7,870.00	7,878.17	7,819.84	134.69	28.70	-87.03	-3,640.20	3,629.97	2,964.55	2,855.16	109.39	27.101		
17,000.00	7,870.00	7,877.79	7,819.46	136.33	28.70	-87.01	-3,640.20	3,629.95	3,061.50	2,952.39	109.11	28.059		
17,100.00	7,870.00	7,877.42	7,819.08	137.97	28.69	-86.98	-3,640.21	3,629.94	3,158.65	3,049.80	108.85	29.019		
17,200.00	7,870.00	7,877.04	7,818.71	139.62	28.69	-86.95	-3,640.21	3,629.93	3,255.97	3,147.37	108.60	29.981		
17,300.00	7,870.00	7,876.66	7,818.33	141.27	28.69	-86.92	-3,640.21	3,629.91	3,353.44	3,245.08	108.37	30.945		
17,400.00	7,870.00	7,876.29	7,817.96	142.92	28.69	-86.89	-3,640.21	3,629.90	3,451.06	3,342.92	108.15	31.910		
17,500.00	7,870.00	7,875.91	7,817.58	144.58	28.69	-86.86	-3,640.21	3,629.89	3,548.82	3,440.87	107.94	32.877		
17,600.00	7,870.00	7,875.54	7,817.20	146.23	28.69	-86.83	-3,640.21	3,629.88	3,646.69	3,538.94	107.75	33.845		
17,700.00	7,870.00	7,875.16	7,816.83	147.89	28.69	-86.80	-3,640.22	3,629.86	3,744.68	3,637.11	107.56	34.813		
17,800.00	7,870.00	7,874.79	7,816.45	149.56	28.69	-86.77	-3,640.22	3,629.85	3,842.77	3,735.38	107.39	35.783		
17,900.00	7,870.00	7,874.41	7,816.08	151.22	28.68	-86.74	-3,640.22	3,629.84	3,940.96	3,833.73	107.23	36.753		
18,000.00	7,870.00	7,874.04	7,815.70	152.89	28.68	-86.71	-3,640.22	3,629.82	4,039.23	3,932.16	107.07	37.723		
18,100.00	7,870.00	7,873.66	7,815.33	154.55	28.68	-86.68	-3,640.22	3,629.81	4,137.59	4,030.66	106.93	38.695		
18,200.00	7,870.00	7,873.29	7,814.96	156.22	28.68	-86.66	-3,640.22	3,629.80	4,236.02	4,129.23	106.79	39.666		
18,300.00	7,870.00	7,872.91	7,814.58	157.90	28.68	-86.63	-3,640.22	3,629.79	4,334.53	4,227.87	106.66	40.638		
18,400.00	7,870.00	7,872.54	7,814.21	159.57	28.68	-86.60	-3,640.23	3,629.77	4,433.10	4,326.57	106.54	41.610		
18,500.00	7,870.00	7,872.16	7,813.83	161.25	28.68	-86.57	-3,640.23	3,629.76	4,531.74	4,425.32	106.42	42.583		
18,600.00	7,870.00	7,871.79	7,813.46	162.93	28.68	-86.54	-3,640.23	3,629.75	4,630.43	4,524.12	106.31	43.555		
18,700.00	7,870.00	7,871.41	7,813.09	164.60	28.67	-86.51	-3,640.23	3,629.73	4,729.18	4,622.98	106.21	44.528		
18,797.52	7,870.00	7,871.05	7,812.72	166.24	28.67	-86.48	-3,640.23	3,629.72	4,825.53	4,719.42	106.11	45.476		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	30.00	30.00	0.00	0.05	163.25	-7,122.07	2,144.11	7,437.82					
100.00	100.00	151.40	151.39	0.13	0.38	163.24	-7,121.50	2,144.83	7,437.53	7,437.02	0.51	N/A		
200.00	200.00	231.67	231.66	0.49	0.66	163.24	-7,121.44	2,144.21	7,437.24	7,436.09	1.15	6,449.771		
234.99	234.99	257.00	256.99	0.62	0.75	163.25	-7,121.50	2,143.93	7,437.22	7,435.85	1.37	5,440.136		
300.00	300.00	292.22	292.21	0.85	0.87	163.25	-7,121.71	2,143.46	7,437.34	7,435.62	1.72	4,312.224		
400.00	400.00	349.00	348.97	1.21	1.07	163.26	-7,122.44	2,142.48	7,438.06	7,435.78	2.28	3,256.789		
500.00	500.00	411.38	411.33	1.57	1.30	163.27	-7,123.70	2,141.06	7,439.32	7,436.46	2.86	2,596.847		
600.00	600.00	481.47	481.35	1.93	1.55	163.29	-7,125.62	2,138.84	7,441.02	7,437.55	3.48	2,141.047		
700.00	700.00	898.00	894.54	2.29	3.18	163.67	-7,140.90	2,092.19	7,443.08	7,437.62	5.46	1,362.655		
800.00	800.00	947.16	942.68	2.64	3.40	163.75	-7,142.69	2,082.37	7,441.03	7,434.99	6.04	1,231.180		
900.00	900.00	987.34	981.96	3.00	3.59	163.81	-7,144.60	2,074.15	7,439.82	7,433.24	6.59	1,129.769		
1,000.00	1,000.00	1,068.95	1,061.39	3.36	3.98	163.96	-7,149.07	2,055.96	7,438.94	7,431.60	7.34	1,013.712		
1,023.41	1,023.41	1,079.07	1,071.20	3.44	4.03	109.36	-7,149.72	2,053.56	7,438.87	7,431.39	7.47	995.616		
1,100.00	1,099.98	1,096.00	1,087.60	3.72	4.11	109.38	-7,150.85	2,049.49	7,439.42	7,431.59	7.83	950.404		
1,200.00	1,199.84	1,132.36	1,122.78	4.07	4.30	109.41	-7,153.59	2,040.72	7,441.97	7,433.60	8.37	889.207		
1,300.00	1,299.45	1,183.00	1,171.73	4.43	4.56	109.46	-7,158.17	2,028.63	7,446.85	7,437.86	8.99	828.428		
1,400.00	1,398.70	1,183.00	1,171.73	4.80	4.56	109.33	-7,158.17	2,028.63	7,453.62	7,444.26	9.35	796.853		
1,500.00	1,497.47	1,231.10	1,218.09	5.18	4.83	109.31	-7,163.22	2,016.80	7,462.56	7,452.57	9.99	746.829		
1,600.00	1,595.62	1,271.00	1,256.32	5.57	5.04	109.24	-7,167.81	2,006.37	7,473.43	7,462.83	10.60	704.930		
1,700.00	1,693.06	1,311.55	1,295.06	6.00	5.28	109.15	-7,172.81	1,995.50	7,486.30	7,475.05	11.25	665.701		
1,800.00	1,789.64	1,358.00	1,339.41	6.45	5.55	109.05	-7,178.90	1,983.08	7,501.21	7,489.26	11.95	627.768		
1,900.00	1,885.27	1,453.22	1,430.30	6.94	6.11	109.14	-7,191.50	1,957.65	7,517.80	7,504.82	12.98	579.406		
2,000.00	1,979.82	1,509.02	1,483.52	7.47	6.44	109.04	-7,198.90	1,942.62	7,535.87	7,522.06	13.81	545.803		
2,100.00	2,073.17	1,554.82	1,527.15	8.05	6.72	108.87	-7,205.16	1,930.16	7,555.78	7,541.16	14.62	516.821		
2,200.00	2,165.21	1,593.01	1,563.45	8.67	6.96	108.63	-7,210.60	1,919.59	7,577.65	7,562.22	15.43	491.116		
2,300.00	2,255.84	1,620.00	1,589.04	9.35	7.13	108.30	-7,214.59	1,912.03	7,601.50	7,585.29	16.21	468.860		
2,400.00	2,344.94	1,671.07	1,637.45	10.09	7.45	108.07	-7,222.35	1,897.72	7,627.26	7,610.06	17.20	443.543		
2,500.00	2,432.39	1,712.09	1,676.33	10.89	7.71	107.75	-7,228.76	1,886.31	7,654.93	7,636.77	18.16	421.450		
2,519.29	2,449.07	1,725.64	1,689.18	11.05	7.80	107.71	-7,230.89	1,882.56	7,660.48	7,642.09	18.39	416.535		
2,600.00	2,518.69	2,001.75	1,951.87	11.74	9.54	109.26	-7,269.94	1,807.12	7,683.07	7,662.34	20.73	370.630		
2,700.00	2,604.95	2,269.72	2,209.24	12.62	11.15	110.70	-7,298.86	1,738.45	7,709.01	7,685.91	23.11	333.636		
2,800.00	2,691.22	2,318.00	2,255.58	13.52	11.44	110.96	-7,303.84	1,725.86	7,735.81	7,711.64	24.17	320.040		
2,900.00	2,777.48	2,339.98	2,276.66	14.43	11.58	111.08	-7,306.22	1,720.06	7,763.43	7,738.34	25.09	309.455		
3,000.00	2,863.75	2,542.13	2,470.97	15.35	12.79	112.15	-7,326.51	1,668.17	7,791.49	7,764.41	27.08	287.692		
3,100.00	2,950.01	3,100.00	2,578.38	16.28	16.05	112.73	-7,336.02	1,640.54	7,818.91	7,787.80	31.11	251.364		
3,200.00	3,036.27	2,701.27	2,624.44	17.22	13.73	112.98	-7,340.04	1,628.33	7,846.80	7,817.20	29.60	265.098		
3,300.00	3,122.54	2,727.26	2,649.45	18.17	13.88	113.12	-7,342.39	1,621.68	7,875.63	7,845.08	30.55	257.832		
3,400.00	3,208.80	2,755.00	2,676.15	19.13	14.05	113.26	-7,345.06	1,614.62	7,905.39	7,873.89	31.50	250.970		
3,500.00	3,295.07	2,877.10	2,793.95	20.09	14.76	113.89	-7,356.55	1,584.67	7,935.63	7,902.63	32.99	240.512		
3,600.00	3,381.33	3,016.04	2,928.65	21.05	15.54	114.58	-7,368.48	1,552.75	7,965.93	7,931.37	34.56	230.503		
3,700.00	3,467.59	3,132.61	3,041.59	22.02	16.20	115.16	-7,377.40	1,525.32	7,995.89	7,959.89	36.00	222.115		
3,800.00	3,553.86	3,171.83	3,079.49	22.99	16.42	115.35	-7,380.48	1,515.68	8,026.53	7,989.53	37.00	216.919		
3,900.00	3,640.12	3,210.29	3,116.57	23.97	16.65	115.55	-7,383.67	1,506.00	8,057.96	8,019.97	38.00	212.057		
4,000.00	3,726.38	3,248.16	3,153.04	24.95	16.87	115.74	-7,386.97	1,496.32	8,090.18	8,051.19	38.99	207.498		
4,100.00	3,812.65	3,278.00	3,181.73	25.93	17.05	115.89	-7,389.68	1,488.61	8,123.18	8,083.25	39.93	203.461		
4,200.00	3,898.91	3,278.00	3,181.73	26.91	17.05	115.89	-7,389.68	1,488.61	8,157.17	8,116.49	40.68	200.541		
4,300.00	3,985.18	3,326.71	3,228.56	27.90	17.35	116.14	-7,394.50	1,476.09	8,191.78	8,150.07	41.71	196.397		
4,400.00	4,071.44	3,366.00	3,266.33	28.88	17.58	116.33	-7,398.82	1,466.16	8,227.48	8,184.79	42.68	192.763		
4,500.00	4,157.70	3,496.52	3,391.65	29.87	18.38	116.98	-7,412.81	1,432.52	8,263.67	8,219.47	44.20	186.962		
4,600.00	4,243.97	3,540.00	3,433.36	30.86	18.65	117.20	-7,417.17	1,421.00	8,299.78	8,254.59	45.19	183.677		
4,700.00	4,330.23	3,574.21	3,466.10	31.85	18.86	117.37	-7,420.72	1,411.77	8,336.64	8,290.53	46.12	180.778		
4,800.00	4,416.49	3,594.41	3,485.39	32.84	18.99	117.48	-7,422.97	1,406.20	8,374.41	8,327.46	46.95	178.379		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,502.76	4,832.12	4,705.14	33.84	23.92	122.28	-7,476.91	1,265.24	8,403.98	8,351.19	52.79	159.206		
5,000.00	4,589.02	4,987.25	4,860.21	34.83	24.29	122.75	-7,472.90	1,264.69	8,431.29	8,377.34	53.94	156.296		
5,100.00	4,675.29	5,118.66	4,991.55	35.82	24.60	123.15	-7,468.66	1,264.09	8,458.27	8,403.23	55.04	153.667		
5,200.00	4,761.55	5,181.21	5,054.07	36.82	24.75	123.34	-7,466.59	1,263.88	8,485.37	8,429.41	55.96	151.627		
5,300.00	4,847.81	5,247.12	5,119.95	37.82	24.91	123.53	-7,464.57	1,263.80	8,512.88	8,456.00	56.89	149.646		
5,400.00	4,934.08	5,286.00	5,158.81	38.81	25.00	123.65	-7,463.46	1,263.81	8,540.86	8,483.13	57.74	147.931		
5,500.00	5,020.34	5,286.00	5,158.81	39.81	25.00	123.65	-7,463.46	1,263.81	8,569.80	8,511.33	58.47	146.563		
5,600.00	5,106.60	5,360.73	5,233.52	40.81	25.21	123.87	-7,461.94	1,263.45	8,598.89	8,539.47	59.42	144.708		
5,700.00	5,192.87	5,391.27	5,264.05	41.81	25.29	123.96	-7,461.65	1,263.05	8,629.05	8,568.81	60.24	143.255		
5,800.00	5,279.13	5,461.00	5,333.77	42.81	25.48	124.18	-7,461.70	1,261.56	8,660.21	8,599.05	61.16	141.600		
5,900.00	5,365.40	5,461.00	5,333.77	43.81	25.48	124.18	-7,461.70	1,261.56	8,691.62	8,629.76	61.87	140.489		
6,000.00	5,451.66	5,502.89	5,375.64	44.81	25.60	124.30	-7,462.08	1,260.53	8,723.93	8,661.23	62.70	139.140		
6,100.00	5,537.92	5,564.50	5,437.24	45.81	25.77	124.49	-7,462.79	1,259.31	8,756.69	8,693.10	63.59	137.705		
6,200.00	5,624.19	5,636.00	5,508.73	46.81	25.98	124.70	-7,463.84	1,258.37	8,789.88	8,725.36	64.51	136.255		
6,300.00	5,710.45	5,879.40	5,752.12	47.81	26.65	125.40	-7,465.31	1,257.13	8,822.40	8,756.43	65.97	133.730		
6,400.00	5,796.72	6,047.66	5,920.36	48.81	27.12	125.89	-7,464.10	1,255.45	8,854.10	8,786.91	67.19	131.779		
6,500.00	5,882.98	6,197.60	6,070.28	49.81	27.53	126.31	-7,461.65	1,255.32	8,885.01	8,816.67	68.34	130.008		
6,600.00	5,969.24	6,275.42	6,148.08	50.82	27.73	126.52	-7,460.22	1,255.09	8,916.01	8,846.74	69.27	128.713		
6,700.00	6,055.51	6,357.98	6,230.62	51.82	27.96	126.75	-7,458.73	1,254.33	8,947.26	8,877.05	70.21	127.435		
6,800.00	6,141.77	6,456.92	6,329.55	52.82	28.24	127.03	-7,456.89	1,253.43	8,978.62	8,907.41	71.20	126.096		
6,900.00	6,228.03	6,538.64	6,411.25	53.83	28.46	127.25	-7,455.30	1,252.89	9,010.07	8,937.93	72.14	124.899		
7,000.00	6,314.30	6,601.14	6,473.74	54.83	28.63	127.42	-7,454.24	1,252.72	9,041.87	8,968.86	73.01	123.850		
7,100.00	6,400.56	6,663.75	6,536.34	55.83	28.80	127.59	-7,453.38	1,252.81	9,074.07	9,000.19	73.87	122.837		
7,200.00	6,486.83	6,748.78	6,621.36	56.84	29.03	127.82	-7,452.39	1,253.20	9,106.57	9,031.77	74.80	121.745		
7,300.00	6,573.09	6,843.78	6,716.36	57.84	29.28	128.07	-7,451.22	1,253.69	9,139.17	9,063.42	75.76	120.637		
7,400.00	6,659.35	6,951.81	6,824.37	58.84	29.58	128.35	-7,449.72	1,254.19	9,171.79	9,095.04	76.76	119.491		
7,500.00	6,745.62	7,062.10	6,934.65	59.85	29.88	128.64	-7,447.88	1,254.48	9,204.35	9,126.59	77.76	118.366		
7,600.00	6,831.88	7,118.60	6,991.14	60.85	30.04	128.78	-7,447.02	1,254.59	9,237.15	9,158.56	78.60	117.528		
7,700.00	6,918.14	7,186.50	7,059.04	61.86	30.23	128.96	-7,446.09	1,254.69	9,270.27	9,190.81	79.46	116.664		
7,800.00	7,004.41	7,293.04	7,165.57	62.86	30.52	129.23	-7,444.69	1,255.00	9,303.59	9,223.14	80.45	115.645		
7,900.00	7,090.67	7,417.14	7,289.64	63.87	30.87	129.54	-7,442.71	1,256.02	9,336.73	9,255.24	81.49	114.569		
8,000.00	7,176.94	7,466.67	7,339.17	64.87	31.00	129.67	-7,442.00	1,256.35	9,370.11	9,287.82	82.29	113.866		
8,027.52	7,200.68	7,484.80	7,357.30	65.15	31.05	129.71	-7,441.75	1,256.47	9,379.35	9,296.83	82.52	113.656		
8,050.00	7,220.18	7,499.67	7,372.17	65.37	31.09	126.25	-7,441.55	1,256.57	9,386.51	9,303.79	82.71	113.480		
8,100.00	7,264.25	7,533.22	7,405.71	65.85	31.19	117.63	-7,441.13	1,256.75	9,399.48	9,316.33	83.15	113.047		
8,150.00	7,308.99	7,570.86	7,443.35	66.28	31.29	107.93	-7,440.69	1,256.92	9,408.33	9,324.73	83.60	112.542		
8,200.00	7,354.07	7,616.22	7,488.71	66.67	31.42	97.61	-7,440.17	1,257.12	9,412.95	9,328.87	84.08	111.956		
8,250.00	7,399.14	7,661.52	7,534.00	67.02	31.55	87.38	-7,439.65	1,257.31	9,413.31	9,328.76	84.55	111.333		
8,300.00	7,443.85	7,706.41	7,578.89	67.32	31.68	77.93	-7,439.14	1,257.49	9,409.40	9,324.39	85.01	110.682		
8,350.00	7,487.88	7,748.39	7,620.87	67.56	31.80	69.73	-7,438.66	1,257.67	9,401.26	9,315.81	85.45	110.019		
8,400.00	7,530.87	7,786.75	7,659.23	67.75	31.90	62.90	-7,438.24	1,257.90	9,388.97	9,303.11	85.86	109.351		
8,450.00	7,572.51	7,823.97	7,696.44	67.90	32.01	57.42	-7,437.87	1,258.20	9,372.62	9,286.37	86.25	108.668		
8,500.00	7,612.48	7,859.75	7,732.22	68.00	32.11	53.11	-7,437.55	1,258.56	9,352.34	9,265.72	86.62	107.974		
8,550.00	7,650.47	7,893.81	7,766.28	68.05	32.20	49.82	-7,437.26	1,258.97	9,328.27	9,241.32	86.96	107.271		
8,600.00	7,686.20	7,922.63	7,795.10	68.06	32.28	47.39	-7,437.04	1,259.37	9,300.61	9,213.34	87.27	106.578		
8,650.00	7,719.39	7,947.82	7,820.28	68.03	32.35	45.71	-7,436.88	1,259.73	9,269.55	9,182.01	87.54	105.888		
8,700.00	7,749.79	7,970.92	7,843.38	67.97	32.42	44.74	-7,436.75	1,260.07	9,235.34	9,147.55	87.79	105.196		
8,750.00	7,777.17	7,991.76	7,864.21	67.87	32.47	44.47	-7,436.65	1,260.39	9,198.22	9,110.20	88.02	104.504		
8,800.00	7,801.32	8,010.16	7,882.61	67.74	32.52	44.95	-7,436.57	1,260.68	9,158.45	9,070.23	88.22	103.814		
8,850.00	7,822.06	8,025.98	7,898.43	67.59	32.57	46.32	-7,436.52	1,260.93	9,116.33	9,027.94	88.40	103.129		
8,900.00	7,839.23	8,039.10	7,911.55	67.41	32.60	48.88	-7,436.48	1,261.15	9,072.17	8,983.62	88.55	102.450		
8,950.00	7,852.69	8,049.40	7,921.84	67.22	32.63	53.15	-7,436.45	1,261.32	9,026.30	8,937.61	88.69	101.779		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,862.35	8,056.78	7,929.22	67.00	32.65	60.22	-7,436.44	1,261.44	8,979.04	8,890.24	88.80	101.119		
9,050.00	7,868.14	8,061.18	7,933.63	66.78	32.66	72.16	-7,436.43	1,261.52	8,930.75	8,841.86	88.89	100.471		
9,098.65	7,870.00	8,062.56	7,935.00	66.55	32.67	91.52	-7,436.43	1,261.54	8,883.12	8,794.16	88.96	99.855		
9,100.00	7,870.00	8,062.56	7,935.00	66.55	32.67	91.52	-7,436.43	1,261.54	8,881.79	8,792.83	88.96	99.838		
9,200.00	7,870.00	8,062.42	7,934.86	66.09	32.67	91.52	-7,436.43	1,261.54	8,783.49	8,694.40	89.09	98.588		
9,300.00	7,870.00	8,062.28	7,934.73	65.65	32.67	91.51	-7,436.43	1,261.54	8,685.22	8,595.99	89.23	97.337		
9,400.00	7,870.00	8,062.15	7,934.59	65.24	32.67	91.51	-7,436.43	1,261.54	8,587.00	8,497.63	89.37	96.086		
9,500.00	7,870.00	8,062.01	7,934.45	64.85	32.67	91.50	-7,436.43	1,261.53	8,488.81	8,399.30	89.51	94.834		
9,600.00	7,870.00	8,061.87	7,934.31	64.48	32.67	91.50	-7,436.43	1,261.53	8,390.67	8,301.01	89.66	93.581		
9,700.00	7,870.00	8,061.73	7,934.17	64.13	32.66	91.49	-7,436.43	1,261.53	8,292.57	8,202.76	89.82	92.328		
9,800.00	7,870.00	8,061.59	7,934.03	63.80	32.66	91.49	-7,436.43	1,261.53	8,194.52	8,104.55	89.98	91.074		
9,900.00	7,870.00	8,061.44	7,933.89	63.50	32.66	91.48	-7,436.43	1,261.52	8,096.52	8,006.38	90.14	89.819		
10,000.00	7,870.00	8,061.30	7,933.75	63.22	32.66	91.48	-7,436.43	1,261.52	7,998.56	7,908.25	90.31	88.564		
10,100.00	7,870.00	8,061.16	7,933.60	62.96	32.66	91.47	-7,436.43	1,261.52	7,900.66	7,810.17	90.49	87.309		
10,200.00	7,870.00	8,061.01	7,933.46	62.72	32.66	91.47	-7,436.43	1,261.52	7,802.81	7,712.14	90.67	86.053		
10,300.00	7,870.00	8,060.87	7,933.31	62.50	32.66	91.46	-7,436.43	1,261.51	7,705.02	7,614.15	90.86	84.797		
10,400.00	7,870.00	8,060.72	7,933.17	62.31	32.66	91.46	-7,436.43	1,261.51	7,607.28	7,516.22	91.06	83.540		
10,500.00	7,870.00	8,060.57	7,933.02	62.15	32.66	91.45	-7,436.43	1,261.51	7,509.60	7,418.34	91.27	82.283		
10,600.00	7,870.00	8,060.43	7,932.87	62.01	32.66	91.45	-7,436.43	1,261.51	7,411.99	7,320.51	91.48	81.026		
10,700.00	7,870.00	8,060.28	7,932.72	61.90	32.66	91.44	-7,436.43	1,261.50	7,314.43	7,222.74	91.69	79.769		
10,800.00	7,870.00	8,060.13	7,932.57	61.82	32.66	91.44	-7,436.43	1,261.50	7,216.95	7,125.03	91.92	78.512		
10,900.00	7,870.00	8,059.98	7,932.42	61.78	32.66	91.43	-7,436.43	1,261.50	7,119.54	7,027.38	92.16	77.255		
11,000.00	7,870.00	8,059.82	7,932.27	61.77	32.66	91.42	-7,436.43	1,261.50	7,022.19	6,929.79	92.40	75.998		
11,100.00	7,870.00	8,059.67	7,932.12	61.81	32.66	91.42	-7,436.43	1,261.49	6,924.93	6,832.28	92.65	74.741		
11,200.00	7,870.00	8,059.52	7,931.96	61.90	32.66	91.41	-7,436.43	1,261.49	6,827.74	6,734.83	92.91	73.485		
11,300.00	7,870.00	8,059.36	7,931.81	62.03	32.66	91.41	-7,436.43	1,261.49	6,730.64	6,637.45	93.18	72.229		
11,400.00	7,870.00	8,059.21	7,931.65	62.23	32.66	91.40	-7,436.43	1,261.49	6,633.62	6,540.15	93.47	70.973		
11,500.00	7,870.00	8,059.05	7,931.50	62.50	32.66	91.40	-7,436.43	1,261.48	6,536.69	6,442.93	93.76	69.718		
11,600.00	7,870.00	8,058.89	7,931.34	62.84	32.66	91.39	-7,436.43	1,261.48	6,439.85	6,345.79	94.06	68.464		
11,700.00	7,870.00	8,058.73	7,931.18	63.25	32.66	91.39	-7,436.44	1,261.48	6,343.12	6,248.74	94.38	67.211		
11,800.00	7,870.00	8,058.57	7,931.02	63.76	32.66	91.38	-7,436.44	1,261.47	6,246.48	6,151.78	94.70	65.958		
11,900.00	7,870.00	8,058.41	7,930.86	64.34	32.66	91.37	-7,436.44	1,261.47	6,149.96	6,054.91	95.04	64.706		
12,000.00	7,870.00	8,058.25	7,930.70	65.01	32.66	91.37	-7,436.44	1,261.47	6,053.54	5,958.15	95.40	63.456		
12,100.00	7,870.00	8,058.09	7,930.53	65.77	32.65	91.36	-7,436.44	1,261.47	5,957.25	5,861.48	95.76	62.207		
12,200.00	7,870.00	8,057.93	7,930.37	66.61	32.65	91.36	-7,436.44	1,261.46	5,861.08	5,764.93	96.15	60.959		
12,300.00	7,870.00	8,057.76	7,930.20	67.51	32.65	91.35	-7,436.44	1,261.46	5,765.04	5,668.49	96.55	59.713		
12,400.00	7,870.00	8,057.59	7,930.04	68.49	32.65	91.35	-7,436.44	1,261.46	5,669.13	5,572.17	96.96	58.469		
12,500.00	7,870.00	8,057.43	7,929.87	69.52	32.65	91.34	-7,436.44	1,261.45	5,573.37	5,475.98	97.39	57.227		
12,600.00	7,870.00	8,057.26	7,929.70	70.61	32.65	91.33	-7,436.44	1,261.45	5,477.76	5,379.92	97.84	55.987		
12,700.00	7,870.00	8,057.09	7,929.53	71.75	32.65	91.33	-7,436.44	1,261.45	5,382.31	5,284.01	98.31	54.749		
12,800.00	7,870.00	8,056.92	7,929.36	72.93	32.65	91.32	-7,436.44	1,261.45	5,287.03	5,188.24	98.80	53.514		
12,900.00	7,870.00	8,056.75	7,929.19	74.14	32.65	91.32	-7,436.44	1,261.44	5,191.93	5,092.62	99.31	52.282		
13,000.00	7,870.00	8,056.57	7,929.02	75.39	32.65	91.31	-7,436.44	1,261.44	5,097.01	4,997.18	99.84	51.053		
13,100.00	7,870.00	8,056.40	7,928.85	76.67	32.65	91.30	-7,436.44	1,261.44	5,002.30	4,901.90	100.39	49.827		
13,200.00	7,870.00	8,056.23	7,928.67	77.98	32.65	91.30	-7,436.44	1,261.43	4,907.79	4,806.82	100.97	48.605		
13,300.00	7,870.00	8,056.05	7,928.49	79.31	32.65	91.29	-7,436.44	1,261.43	4,813.50	4,711.92	101.58	47.387		
13,400.00	7,870.00	8,055.87	7,928.32	80.67	32.65	91.29	-7,436.44	1,261.43	4,719.45	4,617.24	102.21	46.173		
13,500.00	7,870.00	8,055.69	7,928.14	82.04	32.65	91.28	-7,436.44	1,261.43	4,625.65	4,522.78	102.88	44.964		
13,600.00	7,870.00	8,055.51	7,927.96	83.43	32.65	91.27	-7,436.44	1,261.42	4,532.11	4,428.55	103.57	43.759		
13,700.00	7,870.00	8,055.33	7,927.78	84.84	32.65	91.27	-7,436.44	1,261.42	4,438.86	4,334.56	104.30	42.560		
13,800.00	7,870.00	8,055.15	7,927.60	86.27	32.65	91.26	-7,436.44	1,261.42	4,345.91	4,240.85	105.06	41.367		
13,900.00	7,870.00	8,054.97	7,927.41	87.71	32.65	91.25	-7,436.44	1,261.41	4,253.27	4,147.42	105.85	40.180		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,000.00	7,870.00	8,054.78	7,927.23	89.16	32.65	91.25	-7,436.44	1,261.41	4,160.98	4,054.29	106.69	39.000		
14,100.00	7,870.00	8,054.60	7,927.04	90.63	32.65	91.24	-7,436.44	1,261.41	4,069.05	3,961.48	107.57	37.828		
14,200.00	7,870.00	8,054.41	7,926.85	92.10	32.64	91.23	-7,436.44	1,261.40	3,977.51	3,869.02	108.49	36.663		
14,300.00	7,870.00	8,054.22	7,926.66	93.59	32.64	91.23	-7,436.44	1,261.40	3,886.38	3,776.93	109.46	35.506		
14,400.00	7,870.00	8,054.03	7,926.47	95.09	32.64	91.22	-7,436.44	1,261.40	3,795.71	3,685.23	110.47	34.359		
14,500.00	7,870.00	8,053.84	7,926.28	96.60	32.64	91.21	-7,436.44	1,261.39	3,705.51	3,593.97	111.54	33.221		
14,600.00	7,870.00	8,053.65	7,926.09	98.11	32.64	91.21	-7,436.45	1,261.39	3,615.83	3,503.17	112.66	32.094		
14,700.00	7,870.00	8,053.45	7,925.90	99.64	32.64	91.20	-7,436.45	1,261.39	3,526.70	3,412.86	113.84	30.978		
14,800.00	7,870.00	8,053.26	7,925.70	101.17	32.64	91.19	-7,436.45	1,261.38	3,438.18	3,323.09	115.09	29.875		
14,900.00	7,870.00	8,053.06	7,925.50	102.71	32.64	91.19	-7,436.45	1,261.38	3,350.29	3,233.90	116.39	28.784		
15,000.00	7,870.00	8,052.86	7,925.31	104.26	32.64	91.18	-7,436.45	1,261.38	3,263.11	3,145.34	117.77	27.708		
15,100.00	7,870.00	8,052.66	7,925.11	105.82	32.64	91.17	-7,436.45	1,261.37	3,176.68	3,057.46	119.22	26.646		
15,200.00	7,870.00	8,052.46	7,924.91	107.38	32.64	91.16	-7,436.45	1,261.37	3,091.07	2,970.33	120.74	25.601		
15,300.00	7,870.00	8,052.26	7,924.70	108.95	32.64	91.16	-7,436.45	1,261.37	3,006.35	2,884.00	122.34	24.573		
15,400.00	7,870.00	8,052.05	7,924.50	110.52	32.64	91.15	-7,436.45	1,261.36	2,922.59	2,798.56	124.03	23.563		
15,500.00	7,870.00	8,051.85	7,924.29	112.10	32.64	91.14	-7,436.45	1,261.36	2,839.89	2,714.08	125.81	22.573		
15,600.00	7,870.00	8,051.64	7,924.09	113.69	32.64	91.14	-7,436.45	1,261.36	2,758.33	2,630.66	127.67	21.605		
15,700.00	7,870.00	8,051.43	7,923.88	115.28	32.64	91.13	-7,436.45	1,261.35	2,678.02	2,548.39	129.63	20.659		
15,800.00	7,870.00	8,051.22	7,923.67	116.87	32.64	91.12	-7,436.45	1,261.35	2,599.08	2,467.39	131.69	19.737		
15,900.00	7,870.00	8,051.01	7,923.46	118.47	32.64	91.11	-7,436.45	1,261.35	2,521.63	2,387.79	133.84	18.841		
16,000.00	7,870.00	8,050.80	7,923.24	120.07	32.63	91.11	-7,436.45	1,261.34	2,445.82	2,309.73	136.09	17.972		
16,100.00	7,870.00	8,050.58	7,923.03	121.68	32.63	91.10	-7,436.45	1,261.34	2,371.80	2,233.36	138.44	17.133		
16,200.00	7,870.00	8,050.37	7,922.81	123.30	32.63	91.09	-7,436.45	1,261.34	2,299.75	2,158.87	140.88	16.324		
16,300.00	7,870.00	8,050.15	7,922.59	124.91	32.63	91.08	-7,436.45	1,261.33	2,229.86	2,086.45	143.41	15.549		
16,400.00	7,870.00	8,049.93	7,922.37	126.53	32.63	91.07	-7,436.45	1,261.33	2,162.33	2,016.31	146.02	14.808		
16,500.00	7,870.00	8,049.71	7,922.15	128.16	32.63	91.07	-7,436.45	1,261.32	2,097.40	1,948.70	148.70	14.105		
16,600.00	7,870.00	8,049.48	7,921.93	129.79	32.63	91.06	-7,436.45	1,261.32	2,035.32	1,883.89	151.43	13.440		
16,700.00	7,870.00	8,049.26	7,921.71	131.42	32.63	91.05	-7,436.45	1,261.32	1,976.34	1,822.15	154.19	12.817		
16,800.00	7,870.00	8,049.03	7,921.48	133.05	32.63	91.04	-7,436.46	1,261.31	1,920.77	1,763.81	156.96	12.237		
16,900.00	7,870.00	8,048.81	7,921.25	134.69	32.63	91.03	-7,436.46	1,261.31	1,868.89	1,709.19	159.70	11.703		
17,000.00	7,870.00	8,048.58	7,921.02	136.33	32.63	91.03	-7,436.46	1,261.31	1,821.04	1,658.67	162.37	11.216		
17,100.00	7,870.00	8,048.34	7,920.79	137.97	32.63	91.02	-7,436.46	1,261.30	1,777.52	1,612.60	164.92	10.778		
17,200.00	7,870.00	8,048.11	7,920.56	139.62	32.63	91.01	-7,436.46	1,261.30	1,738.68	1,571.36	167.31	10.392		
17,300.00	7,870.00	8,047.87	7,920.32	141.27	32.63	91.00	-7,436.46	1,261.29	1,704.82	1,535.33	169.49	10.059		
17,400.00	7,870.00	8,047.64	7,920.08	142.92	32.63	90.99	-7,436.46	1,261.29	1,676.25	1,504.87	171.39	9.781		
17,500.00	7,870.00	8,047.40	7,919.84	144.58	32.63	90.99	-7,436.46	1,261.29	1,653.25	1,480.30	172.96	9.559		
17,600.00	7,870.00	8,047.16	7,919.60	146.23	32.62	90.98	-7,436.46	1,261.28	1,636.05	1,461.90	174.15	9.395		
17,700.00	7,870.00	8,046.92	7,919.36	147.89	32.62	90.97	-7,436.46	1,261.28	1,624.83	1,449.91	174.92	9.289		
17,800.00	7,870.00	8,046.67	7,919.12	149.56	32.62	90.96	-7,436.46	1,261.27	1,619.72	1,444.48	175.24	9.243		
17,832.94	7,870.00	8,046.59	7,919.04	150.10	32.62	90.96	-7,436.46	1,261.27	1,619.38	1,444.14	175.25	9.241 CC, ES, SF		
17,900.00	7,870.00	8,046.42	7,918.87	151.22	32.62	90.95	-7,436.46	1,261.27	1,620.77	1,445.67	175.10	9.256		
18,000.00	7,870.00	8,046.18	7,918.62	152.89	32.62	90.94	-7,436.46	1,261.27	1,627.98	1,453.48	174.49	9.330		
18,100.00	7,870.00	8,045.92	7,918.37	154.55	32.62	90.93	-7,436.46	1,261.26	1,641.25	1,467.81	173.45	9.463		
18,200.00	7,870.00	8,045.67	7,918.12	156.22	32.62	90.92	-7,436.46	1,261.26	1,660.46	1,488.48	171.98	9.655		
18,300.00	7,870.00	8,045.42	7,917.86	157.90	32.62	90.92	-7,436.46	1,261.25	1,685.39	1,515.24	170.15	9.905		
18,400.00	7,870.00	8,045.16	7,917.61	159.57	32.62	90.91	-7,436.46	1,261.25	1,715.79	1,547.79	168.00	10.213		
18,500.00	7,870.00	8,044.90	7,917.35	161.25	32.62	90.90	-7,436.46	1,261.24	1,751.39	1,585.80	165.59	10.576		
18,600.00	7,870.00	8,044.64	7,917.09	162.93	32.62	90.89	-7,436.47	1,261.24	1,791.86	1,628.89	162.98	10.994		
18,700.00	7,870.00	8,044.38	7,916.82	164.60	32.62	90.88	-7,436.47	1,261.24	1,836.90	1,676.68	160.22	11.465		
18,797.52	7,870.00	8,044.12	7,916.57	166.24	32.62	90.87	-7,436.47	1,261.23	1,884.89	1,727.46	157.43	11.973		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	67.87	67.87	0.00	0.10	163.28	-7,136.62	2,143.50	7,451.71					
100.00	100.00	124.64	124.63	0.13	0.29	163.29	-7,136.67	2,142.55	7,451.35	7,450.93	0.43	N/A		
105.44	105.44	127.45	127.44	0.15	0.30	163.29	-7,136.69	2,142.51	7,451.35	7,450.90	0.46	N/A		
200.00	200.00	187.11	187.09	0.49	0.52	163.30	-7,137.18	2,141.55	7,451.63	7,450.62	1.01	7,383.182		
300.00	300.00	293.94	293.84	0.85	0.91	163.33	-7,138.76	2,137.85	7,452.05	7,450.30	1.76	4,243.116		
400.00	400.00	373.29	373.02	1.21	1.20	163.37	-7,140.57	2,132.90	7,452.47	7,450.06	2.41	3,092.355		
500.00	500.00	440.00	439.46	1.57	1.45	163.41	-7,142.94	2,127.54	7,453.51	7,450.49	3.02	2,466.678		
600.00	600.00	440.00	439.46	1.93	1.45	163.41	-7,142.94	2,127.54	7,455.29	7,451.91	3.38	2,205.389		
700.00	700.00	483.33	482.54	2.29	1.63	163.45	-7,145.20	2,123.56	7,457.94	7,454.03	3.91	1,907.760		
800.00	800.00	533.00	531.84	2.64	1.82	163.49	-7,148.81	2,118.59	7,461.78	7,457.32	4.46	1,672.059		
900.00	900.00	533.00	531.84	3.00	1.82	163.49	-7,148.81	2,118.59	7,466.34	7,461.52	4.82	1,549.101		
1,000.00	1,000.00	577.47	575.87	3.36	2.01	163.54	-7,152.77	2,113.79	7,471.90	7,466.54	5.36	1,394.397		
1,100.00	1,099.98	625.00	622.85	3.72	2.21	108.84	-7,157.54	2,108.37	7,478.85	7,472.94	5.91	1,266.181		
1,200.00	1,199.84	655.37	652.81	4.07	2.34	108.72	-7,160.89	2,104.69	7,487.71	7,481.33	6.39	1,172.167		
1,300.00	1,299.45	717.00	713.42	4.43	2.61	108.63	-7,168.51	2,096.55	7,498.64	7,491.64	7.01	1,069.925		
1,400.00	1,398.70	717.00	713.42	4.80	2.61	108.39	-7,168.51	2,096.55	7,511.34	7,503.97	7.37	1,019.380		
1,500.00	1,497.47	754.05	749.70	5.18	2.79	108.19	-7,173.70	2,091.17	7,526.12	7,518.21	7.91	951.467		
1,600.00	1,595.62	809.00	803.25	5.57	3.05	108.03	-7,182.43	2,082.42	7,543.14	7,534.59	8.55	882.238		
1,700.00	1,693.06	809.00	803.25	6.00	3.05	107.67	-7,182.43	2,082.42	7,561.82	7,552.87	8.95	844.592		
1,800.00	1,789.64	809.00	803.25	6.45	3.05	107.26	-7,182.43	2,082.42	7,582.81	7,573.43	9.38	808.431		
1,900.00	1,885.27	848.34	841.38	6.94	3.26	106.95	-7,189.46	2,075.78	7,605.63	7,595.60	10.03	758.386		
2,000.00	1,979.82	898.00	889.29	7.47	3.51	106.66	-7,199.34	2,067.26	7,630.82	7,620.06	10.76	709.018		
2,100.00	2,073.17	898.00	889.29	8.05	3.51	106.13	-7,199.34	2,067.26	7,657.51	7,646.23	11.28	678.585		
2,200.00	2,165.21	898.00	889.29	8.67	3.51	105.55	-7,199.34	2,067.26	7,686.34	7,674.49	11.85	648.885		
2,300.00	2,255.84	898.00	889.29	9.35	3.51	104.92	-7,199.34	2,067.26	7,717.24	7,704.79	12.45	619.951		
2,400.00	2,344.94	955.38	944.40	10.09	3.83	104.54	-7,211.85	2,057.31	7,749.50	7,736.10	13.40	578.433		
2,500.00	2,432.39	1,011.00	997.61	10.89	4.14	104.13	-7,224.84	2,047.65	7,783.96	7,769.58	14.38	541.266		
2,519.29	2,449.07	1,011.00	997.61	11.05	4.14	103.99	-7,224.84	2,047.65	7,790.72	7,776.20	14.52	536.539		
2,600.00	2,518.69	1,011.00	997.61	11.74	4.14	103.99	-7,224.84	2,047.65	7,819.48	7,804.37	15.11	517.499		
2,700.00	2,604.95	1,011.00	997.61	12.62	4.14	103.99	-7,224.84	2,047.65	7,856.13	7,840.27	15.85	495.571		
2,800.00	2,691.22	1,041.25	1,026.46	13.52	4.32	104.15	-7,232.26	2,042.42	7,893.68	7,876.91	16.77	470.789		
2,900.00	2,777.48	1,061.55	1,045.80	14.43	4.44	104.26	-7,237.39	2,038.95	7,932.15	7,914.52	17.63	449.902		
3,000.00	2,863.75	1,100.00	1,082.35	15.35	4.67	104.46	-7,247.41	2,032.48	7,971.60	7,953.00	18.60	428.551		
3,100.00	2,950.01	1,100.00	1,082.35	16.28	4.67	104.46	-7,247.41	2,032.48	8,011.79	7,992.43	19.36	413.816		
3,200.00	3,036.27	1,100.00	1,082.35	17.22	4.67	104.46	-7,247.41	2,032.48	8,053.02	8,032.91	20.12	400.278		
3,300.00	3,122.54	1,147.44	1,127.35	18.17	4.95	104.71	-7,260.28	2,024.73	8,094.87	8,073.74	21.13	383.029		
3,400.00	3,208.80	1,187.00	1,164.81	19.13	5.19	104.92	-7,271.38	2,018.52	8,137.71	8,115.60	22.11	368.133		
3,500.00	3,295.07	1,187.00	1,164.81	20.09	5.19	104.92	-7,271.38	2,018.52	8,181.26	8,158.41	22.85	358.000		
3,600.00	3,381.33	1,187.00	1,164.81	21.05	5.19	104.92	-7,271.38	2,018.52	8,225.80	8,202.20	23.59	348.637		
3,700.00	3,467.59	1,234.97	1,210.07	22.02	5.49	105.17	-7,285.35	2,010.97	8,270.87	8,246.26	24.60	336.200		
3,800.00	3,553.86	1,275.00	1,247.66	22.99	5.75	105.38	-7,297.47	2,004.42	8,316.93	8,291.37	25.56	325.407		
3,900.00	3,640.12	1,275.00	1,247.66	23.97	5.75	105.38	-7,297.47	2,004.42	8,363.64	8,337.36	26.28	318.237		
4,000.00	3,726.38	1,309.54	1,279.99	24.95	5.97	105.56	-7,308.18	1,998.67	8,411.14	8,383.94	27.20	309.259		
4,100.00	3,812.65	1,341.80	1,310.15	25.93	6.19	105.73	-7,318.30	1,993.32	8,459.30	8,431.21	28.09	301.100		
4,200.00	3,898.91	1,379.76	1,345.59	26.91	6.44	105.93	-7,330.36	1,987.02	8,508.12	8,479.10	29.02	293.182		
4,300.00	3,985.18	1,427.25	1,389.85	27.90	6.76	106.17	-7,345.54	1,978.93	8,557.49	8,527.49	30.00	285.282		
4,400.00	4,071.44	1,449.00	1,410.10	28.88	6.91	106.29	-7,352.53	1,975.15	8,607.44	8,576.62	30.81	279.350		
4,500.00	4,157.70	1,480.22	1,439.10	29.87	7.13	106.45	-7,362.69	1,969.64	8,658.04	8,626.36	31.68	273.292		
4,600.00	4,243.97	1,500.23	1,457.64	30.86	7.27	106.56	-7,369.33	1,966.07	8,709.37	8,676.90	32.47	268.208		
4,700.00	4,330.23	1,537.00	1,491.60	31.85	7.53	106.75	-7,381.76	1,959.45	8,761.45	8,728.09	33.36	262.637		
4,800.00	4,416.49	1,537.00	1,491.60	32.84	7.53	106.75	-7,381.76	1,959.45	8,814.12	8,780.11	34.01	259.148		
4,900.00	4,502.76	1,537.00	1,491.60	33.84	7.53	106.75	-7,381.76	1,959.45	8,867.61	8,832.95	34.66	255.882		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	1,569.46	1,521.46	34.83	7.77	106.92	-7,393.05	1,953.53	8,921.65	8,886.15	35.50	251.348		
5,100.00	4,675.29	1,584.41	1,535.16	35.82	7.88	107.00	-7,398.36	1,950.79	8,976.45	8,940.23	36.22	247.856		
5,200.00	4,761.55	1,624.00	1,571.29	36.82	8.17	107.20	-7,412.78	1,943.46	9,032.06	8,994.97	37.09	243.541		
5,300.00	4,847.81	1,624.00	1,571.29	37.82	8.17	107.20	-7,412.78	1,943.46	9,088.08	9,050.38	37.70	241.090		
5,400.00	4,934.08	1,624.00	1,571.29	38.81	8.17	107.20	-7,412.78	1,943.46	9,144.85	9,106.55	38.30	238.793		
5,500.00	5,020.34	1,650.41	1,595.30	39.81	8.37	107.34	-7,422.63	1,938.55	9,202.24	9,163.18	39.06	235.593		
5,600.00	5,106.60	1,670.64	1,613.65	40.81	8.53	107.45	-7,430.27	1,934.80	9,260.23	9,220.46	39.78	232.811		
5,700.00	5,192.87	1,711.00	1,650.17	41.81	8.84	107.66	-7,445.75	1,927.35	9,318.88	9,278.26	40.62	229.438		
5,800.00	5,279.13	1,711.00	1,650.17	42.81	8.84	107.66	-7,445.75	1,927.35	9,377.96	9,336.78	41.18	227.711		
5,900.00	5,365.40	1,755.33	1,690.19	43.81	9.18	107.88	-7,462.95	1,919.08	9,437.60	9,395.56	42.04	224.498		
6,000.00	5,451.66	1,801.99	1,732.23	44.81	9.55	108.13	-7,481.11	1,910.13	9,497.64	9,454.74	42.90	221.378		
6,100.00	5,537.92	2,223.03	2,114.84	45.81	12.85	110.24	-7,636.93	1,829.10	9,556.07	9,509.81	46.26	206.576		
6,200.00	5,624.19	2,235.00	2,125.78	46.81	12.94	110.30	-7,641.17	1,826.76	9,614.63	9,567.74	46.89	205.062		
6,300.00	5,710.45	2,235.00	2,125.78	47.81	12.94	110.30	-7,641.17	1,826.76	9,673.85	9,626.43	47.43	203.976		
6,400.00	5,796.72	2,273.29	2,160.68	48.81	13.25	110.49	-7,654.97	1,819.16	9,733.43	9,685.21	48.22	201.867		
6,500.00	5,882.98	2,287.10	2,173.22	49.81	13.36	110.56	-7,660.06	1,816.37	9,793.70	9,744.87	48.84	200.545		
6,600.00	5,969.24	2,322.00	2,204.76	50.82	13.64	110.73	-7,673.16	1,809.21	9,854.64	9,805.05	49.59	198.726		
6,700.00	6,055.51	2,322.00	2,204.76	51.82	13.64	110.73	-7,673.16	1,809.21	9,915.95	9,865.85	50.10	197.927		
6,800.00	6,141.77	2,427.74	2,300.32	52.82	14.50	111.25	-7,713.09	1,787.93	9,977.75	9,926.43	51.33	194.396		
9,300.00	7,870.00	8,479.09	8,108.22	65.65	43.65	97.22	-8,716.97	1,170.51	9,963.20	9,872.54	90.66	109.891		
9,400.00	7,870.00	8,477.79	8,106.92	65.24	43.65	97.18	-8,716.99	1,170.48	9,864.72	9,773.93	90.79	108.654		
9,500.00	7,870.00	8,476.48	8,105.62	64.85	43.64	97.14	-8,717.02	1,170.46	9,766.26	9,675.34	90.92	107.416		
9,600.00	7,870.00	8,475.17	8,104.30	64.48	43.64	97.10	-8,717.04	1,170.43	9,667.84	9,576.79	91.05	106.177		
9,700.00	7,870.00	8,473.85	8,102.98	64.13	43.64	97.05	-8,717.07	1,170.41	9,569.45	9,478.26	91.19	104.937		
9,800.00	7,870.00	8,472.51	8,101.65	63.80	43.64	97.01	-8,717.09	1,170.38	9,471.09	9,379.76	91.33	103.697		
9,900.00	7,870.00	8,471.17	8,100.31	63.50	43.63	96.96	-8,717.12	1,170.36	9,372.77	9,281.29	91.48	102.455		
10,000.00	7,870.00	8,469.82	8,098.96	63.22	43.63	96.92	-8,717.14	1,170.33	9,274.48	9,182.85	91.63	101.213		
10,100.00	7,870.00	8,468.47	8,097.60	62.96	43.63	96.87	-8,717.17	1,170.31	9,176.23	9,084.44	91.79	99.969		
10,200.00	7,870.00	8,467.10	8,096.24	62.72	43.63	96.83	-8,717.20	1,170.28	9,078.02	8,986.07	91.95	98.726		
10,300.00	7,870.00	8,465.72	8,094.86	62.50	43.62	96.78	-8,717.22	1,170.26	8,979.85	8,887.73	92.12	97.481		
10,400.00	7,870.00	8,464.34	8,093.48	62.31	43.62	96.74	-8,717.25	1,170.23	8,881.71	8,789.42	92.29	96.236		
10,500.00	7,870.00	8,462.94	8,092.08	62.15	43.62	96.69	-8,717.28	1,170.21	8,783.62	8,691.15	92.47	94.990		
10,600.00	7,870.00	8,461.54	8,090.68	62.01	43.61	96.64	-8,717.31	1,170.18	8,685.58	8,592.92	92.65	93.743		
10,700.00	7,870.00	8,460.13	8,089.27	61.90	43.61	96.60	-8,717.33	1,170.15	8,587.57	8,494.73	92.84	92.496		
10,800.00	7,870.00	8,458.70	8,087.84	61.82	43.61	96.55	-8,717.36	1,170.13	8,489.62	8,396.58	93.04	91.249		
10,900.00	7,870.00	8,457.27	8,086.41	61.78	43.61	96.50	-8,717.39	1,170.10	8,391.71	8,298.47	93.24	90.001		
11,000.00	7,870.00	8,455.83	8,084.97	61.77	43.60	96.45	-8,717.42	1,170.07	8,293.85	8,200.40	93.45	88.752		
11,100.00	7,870.00	8,454.38	8,083.52	61.81	43.60	96.41	-8,717.45	1,170.05	8,196.04	8,102.38	93.67	87.504		
11,200.00	7,870.00	8,452.92	8,082.06	61.90	43.60	96.36	-8,717.48	1,170.02	8,098.29	8,004.40	93.89	86.255		
11,300.00	7,870.00	8,451.45	8,080.59	62.03	43.60	96.31	-8,717.50	1,169.99	8,000.59	7,906.47	94.12	85.006		
11,400.00	7,870.00	8,449.96	8,079.11	62.23	43.59	96.26	-8,717.53	1,169.96	7,902.94	7,808.59	94.36	83.756		
11,500.00	7,870.00	8,448.47	8,077.62	62.50	43.59	96.21	-8,717.56	1,169.94	7,805.36	7,710.76	94.60	82.507		
11,600.00	7,870.00	8,446.97	8,076.11	62.84	43.59	96.16	-8,717.60	1,169.91	7,707.84	7,612.98	94.86	81.258		
11,700.00	7,870.00	8,445.46	8,074.60	63.25	43.58	96.11	-8,717.63	1,169.88	7,610.38	7,515.26	95.12	80.009		
11,800.00	7,870.00	8,443.94	8,073.08	63.76	43.58	96.06	-8,717.66	1,169.85	7,512.99	7,417.60	95.39	78.759		
11,900.00	7,870.00	8,442.40	8,071.55	64.34	43.58	96.01	-8,717.69	1,169.82	7,415.67	7,320.00	95.67	77.511		
12,000.00	7,870.00	8,433.00	8,062.15	65.01	43.56	95.69	-8,717.88	1,169.65	7,318.42	7,222.49	95.94	76.283		
12,100.00	7,870.00	8,433.00	8,062.15	65.77	43.56	95.69	-8,717.88	1,169.65	7,221.25	7,125.00	96.24	75.031		
12,200.00	7,870.00	8,433.00	8,062.15	66.61	43.56	95.69	-8,717.88	1,169.65	7,124.15	7,027.58	96.56	73.779		
12,300.00	7,870.00	8,433.00	8,062.15	67.51	43.56	95.69	-8,717.88	1,169.65	7,027.13	6,930.24	96.89	72.527		
12,400.00	7,870.00	8,433.00	8,062.15	68.49	43.56	95.69	-8,717.88	1,169.65	6,930.19	6,832.96	97.23	71.276		
12,500.00	7,870.00	8,433.00	8,062.15	69.52	43.56	95.69	-8,717.88	1,169.65	6,833.35	6,735.77	97.58	70.026		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
12,600.00	7,870.00	8,433.00	8,062.15	70.61	43.56	95.69	-8,717.88	1,169.65	6,736.60	6,638.65	97.95	68.778		
12,700.00	7,870.00	8,433.00	8,062.15	71.75	43.56	95.69	-8,717.88	1,169.65	6,639.94	6,541.61	98.33	67.530		
12,800.00	7,870.00	8,433.00	8,062.15	72.93	43.56	95.69	-8,717.88	1,169.65	6,543.38	6,444.66	98.72	66.283		
12,900.00	7,870.00	8,433.00	8,062.15	74.14	43.56	95.69	-8,717.88	1,169.65	6,446.93	6,347.81	99.13	65.038		
13,000.00	7,870.00	8,433.00	8,062.15	75.39	43.56	95.69	-8,717.88	1,169.65	6,350.59	6,251.04	99.55	63.794		
13,100.00	7,870.00	8,433.00	8,062.15	76.67	43.56	95.69	-8,717.88	1,169.65	6,254.36	6,154.38	99.99	62.552		
13,200.00	7,870.00	8,433.00	8,062.15	77.98	43.56	95.69	-8,717.88	1,169.65	6,158.26	6,057.81	100.44	61.311		
13,300.00	7,870.00	8,433.00	8,062.15	79.31	43.56	95.69	-8,717.88	1,169.65	6,062.28	5,961.36	100.92	60.073		
13,400.00	7,870.00	8,433.00	8,062.15	80.67	43.56	95.69	-8,717.88	1,169.65	5,966.43	5,865.02	101.41	58.836		
13,500.00	7,870.00	8,433.00	8,062.15	82.04	43.56	95.69	-8,717.88	1,169.65	5,870.72	5,768.80	101.92	57.602		
13,600.00	7,870.00	8,433.00	8,062.15	83.43	43.56	95.69	-8,717.88	1,169.65	5,775.15	5,672.70	102.45	56.371		
13,700.00	7,870.00	8,433.00	8,062.15	84.84	43.56	95.69	-8,717.88	1,169.65	5,679.74	5,576.74	103.00	55.142		
13,800.00	7,870.00	8,433.00	8,062.15	86.27	43.56	95.69	-8,717.88	1,169.65	5,584.49	5,480.91	103.58	53.916		
13,900.00	7,870.00	8,433.00	8,062.15	87.71	43.56	95.69	-8,717.88	1,169.65	5,489.41	5,385.23	104.18	52.693		
14,000.00	7,870.00	8,433.00	8,062.15	89.16	43.56	95.69	-8,717.88	1,169.65	5,394.50	5,289.70	104.80	51.474		
14,100.00	7,870.00	8,433.00	8,062.15	90.63	43.56	95.69	-8,717.88	1,169.65	5,299.79	5,194.34	105.45	50.258		
14,200.00	7,870.00	8,410.60	8,039.75	92.10	43.52	94.95	-8,718.39	1,169.26	5,205.19	5,099.16	106.03	49.090		
14,300.00	7,870.00	8,409.05	8,038.21	93.59	43.52	94.90	-8,718.43	1,169.23	5,110.87	5,004.14	106.73	47.885		
14,400.00	7,870.00	8,407.48	8,036.64	95.09	43.51	94.84	-8,718.46	1,169.20	5,016.77	4,909.30	107.46	46.684		
14,500.00	7,870.00	8,405.88	8,035.04	96.60	43.51	94.79	-8,718.50	1,169.18	4,922.89	4,814.67	108.22	45.488		
14,600.00	7,870.00	8,404.25	8,033.41	98.11	43.51	94.74	-8,718.54	1,169.15	4,829.27	4,720.25	109.02	44.297		
14,700.00	7,870.00	8,402.58	8,031.74	99.64	43.50	94.68	-8,718.59	1,169.13	4,735.90	4,626.05	109.85	43.112		
14,800.00	7,870.00	8,400.88	8,030.05	101.17	43.50	94.62	-8,718.63	1,169.10	4,642.81	4,532.09	110.72	41.932		
14,900.00	7,870.00	8,399.15	8,028.31	102.71	43.50	94.57	-8,718.67	1,169.07	4,550.01	4,438.38	111.63	40.759		
15,000.00	7,870.00	8,397.38	8,026.55	104.26	43.49	94.51	-8,718.72	1,169.04	4,457.52	4,344.94	112.59	39.592		
15,100.00	7,870.00	8,395.58	8,024.74	105.82	43.49	94.45	-8,718.77	1,169.02	4,365.36	4,251.78	113.58	38.433		
15,200.00	7,870.00	8,393.74	8,022.90	107.38	43.49	94.38	-8,718.82	1,168.99	4,273.55	4,158.93	114.63	37.282		
15,300.00	7,870.00	8,391.86	8,021.02	108.95	43.48	94.32	-8,718.87	1,168.96	4,182.12	4,066.40	115.72	36.138		
15,400.00	7,870.00	8,389.94	8,019.10	110.52	43.48	94.26	-8,718.92	1,168.93	4,091.09	3,974.21	116.87	35.004		
15,500.00	7,870.00	8,387.98	8,017.14	112.10	43.48	94.19	-8,718.97	1,168.90	4,000.48	3,882.40	118.08	33.879		
15,600.00	7,870.00	8,385.97	8,015.14	113.69	43.47	94.13	-8,719.03	1,168.87	3,910.33	3,790.99	119.35	32.764		
15,700.00	7,870.00	8,383.92	8,013.09	115.28	43.47	94.06	-8,719.09	1,168.84	3,820.67	3,699.99	120.68	31.660		
15,800.00	7,870.00	8,381.83	8,011.00	116.87	43.47	93.99	-8,719.15	1,168.81	3,731.54	3,609.46	122.08	30.567		
15,900.00	7,870.00	8,379.69	8,008.86	118.47	43.46	93.92	-8,719.21	1,168.78	3,642.96	3,519.41	123.55	29.486		
16,000.00	7,870.00	8,377.50	8,006.68	120.07	43.46	93.84	-8,719.27	1,168.75	3,554.99	3,429.90	125.09	28.418		
16,100.00	7,870.00	8,375.26	8,004.44	121.68	43.45	93.77	-8,719.34	1,168.72	3,467.67	3,340.95	126.72	27.364		
16,200.00	7,870.00	8,372.97	8,002.15	123.30	43.45	93.69	-8,719.41	1,168.69	3,381.05	3,252.62	128.43	26.325		
16,300.00	7,870.00	8,370.63	7,999.81	124.91	43.45	93.61	-8,719.48	1,168.66	3,295.19	3,164.95	130.24	25.301		
16,400.00	7,870.00	8,368.23	7,997.41	126.53	43.44	93.53	-8,719.55	1,168.63	3,210.14	3,078.00	132.14	24.294		
16,500.00	7,870.00	8,365.77	7,994.95	128.16	43.44	93.45	-8,719.62	1,168.59	3,125.98	2,991.84	134.14	23.304		
16,600.00	7,870.00	8,363.26	7,992.44	129.79	43.43	93.37	-8,719.70	1,168.56	3,042.77	2,906.53	136.24	22.334		
16,700.00	7,870.00	8,360.68	7,989.86	131.42	43.43	93.28	-8,719.78	1,168.53	2,960.60	2,822.14	138.46	21.382		
16,800.00	7,870.00	8,358.04	7,987.22	133.05	43.42	93.19	-8,719.87	1,168.50	2,879.55	2,738.76	140.79	20.452		
16,900.00	7,870.00	8,355.33	7,984.51	134.69	43.42	93.10	-8,719.96	1,168.46	2,799.73	2,656.48	143.25	19.545		
17,000.00	7,870.00	8,352.55	7,981.74	136.33	43.41	93.01	-8,720.05	1,168.43	2,721.24	2,575.41	145.83	18.661		
17,100.00	7,870.00	8,349.70	7,978.89	137.97	43.41	92.91	-8,720.14	1,168.40	2,644.19	2,495.65	148.54	17.801		
17,200.00	7,870.00	8,346.77	7,975.96	139.62	43.40	92.81	-8,720.24	1,168.37	2,568.73	2,417.35	151.38	16.969		
17,300.00	7,870.00	8,343.77	7,972.96	141.27	43.40	92.71	-8,720.34	1,168.33	2,494.98	2,340.63	154.36	16.164		
17,400.00	7,870.00	8,340.69	7,969.88	142.92	43.39	92.61	-8,720.45	1,168.30	2,423.12	2,265.66	157.46	15.388		
17,500.00	7,870.00	8,337.52	7,966.72	144.58	43.39	92.51	-8,720.56	1,168.26	2,353.31	2,192.60	160.70	14.644		
17,600.00	7,870.00	8,334.27	7,963.47	146.23	43.38	92.40	-8,720.67	1,168.23	2,285.73	2,121.67	164.06	13.932		
17,700.00	7,870.00	8,330.92	7,960.12	147.89	43.37	92.28	-8,720.79	1,168.20	2,220.60	2,053.06	167.54	13.254		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	
17,800.00	7,870.00	8,327.48	7,956.68	149.56	43.37	92.17	-8,720.92	1,168.16	2,158.13	1,987.02	171.11	12.612	
17,900.00	7,870.00	8,323.94	7,953.15	151.22	43.36	92.05	-8,721.05	1,168.13	2,098.57	1,923.80	174.76	12.008	
18,000.00	7,870.00	8,320.29	7,949.50	152.89	43.35	91.93	-8,721.19	1,168.10	2,042.16	1,863.69	178.47	11.443	
18,100.00	7,870.00	8,316.54	7,945.76	154.55	43.35	91.80	-8,721.33	1,168.06	1,989.17	1,806.98	182.19	10.918	
18,200.00	7,870.00	8,312.68	7,941.89	156.22	43.34	91.67	-8,721.48	1,168.03	1,939.89	1,754.00	185.88	10.436	
18,300.00	7,870.00	8,308.69	7,937.91	157.90	43.33	91.54	-8,721.64	1,168.00	1,894.59	1,705.09	189.51	9.997	
18,400.00	7,870.00	8,304.59	7,933.81	159.57	43.33	91.40	-8,721.80	1,167.97	1,853.59	1,660.59	193.00	9.604	
18,500.00	7,870.00	8,300.35	7,929.58	161.25	43.32	91.26	-8,721.97	1,167.93	1,817.16	1,620.86	196.30	9.257	
18,600.00	7,870.00	8,295.98	7,925.21	162.93	43.31	91.11	-8,722.15	1,167.90	1,785.58	1,586.24	199.34	8.958	
18,700.00	7,870.00	8,291.46	7,920.70	164.60	43.30	90.96	-8,722.34	1,167.87	1,759.11	1,557.07	202.04	8.707	
18,797.52	7,870.00	8,286.92	7,916.16	166.24	43.29	90.81	-8,722.53	1,167.84	1,738.46	1,534.15	204.30	8.509 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	41.22	41.22	0.00	0.06	163.32	-7,154.46	2,143.52	7,468.69					
100.00	100.00	114.22	114.22	0.13	0.25	163.32	-7,154.23	2,143.64	7,468.48	7,468.10	0.38	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.32	-7,154.58	2,143.31	7,468.93	7,468.01	0.92	8,100.182		
300.00	300.00	211.31	211.30	0.85	0.59	163.33	-7,155.29	2,142.77	7,470.06	7,468.62	1.44	5,186.060		
400.00	400.00	257.00	256.97	1.21	0.75	163.34	-7,156.35	2,142.11	7,471.89	7,469.93	1.96	3,813.385		
500.00	500.00	299.16	299.09	1.57	0.90	163.35	-7,157.74	2,141.23	7,474.47	7,472.00	2.47	3,026.574		
600.00	600.00	349.00	348.86	1.93	1.08	163.36	-7,160.02	2,139.66	7,477.87	7,474.87	3.01	2,487.059		
700.00	700.00	379.18	378.97	2.29	1.19	163.37	-7,161.73	2,138.45	7,482.04	7,478.57	3.48	2,152.781		
800.00	800.00	440.00	439.57	2.64	1.42	163.41	-7,165.90	2,135.48	7,487.10	7,483.04	4.06	1,845.470		
900.00	900.00	440.00	439.57	3.00	1.42	163.41	-7,165.90	2,135.48	7,492.87	7,488.46	4.41	1,697.559		
1,000.00	1,000.00	487.01	486.34	3.36	1.60	163.43	-7,169.82	2,132.93	7,499.51	7,494.56	4.95	1,516.044		
1,100.00	1,099.98	533.00	532.05	3.72	1.78	108.69	-7,174.29	2,130.46	7,507.71	7,502.24	5.47	1,371.822		
1,200.00	1,199.84	533.00	532.05	4.07	1.78	108.50	-7,174.29	2,130.46	7,517.90	7,512.08	5.82	1,291.061		
1,300.00	1,299.45	591.62	590.19	4.43	2.02	108.34	-7,180.86	2,126.94	7,529.92	7,523.51	6.40	1,175.752		
1,400.00	1,398.70	625.00	623.23	4.80	2.16	108.13	-7,185.03	2,124.59	7,543.92	7,537.02	6.89	1,094.224		
1,500.00	1,497.47	673.04	670.67	5.18	2.36	107.92	-7,191.54	2,120.72	7,559.76	7,552.30	7.46	1,013.397		
1,600.00	1,595.62	717.00	713.96	5.57	2.55	107.68	-7,197.97	2,116.65	7,577.41	7,569.39	8.02	944.355		
1,700.00	1,693.06	747.83	744.26	6.00	2.70	107.39	-7,202.78	2,113.51	7,596.92	7,588.36	8.56	887.529		
1,800.00	1,789.64	779.02	774.83	6.45	2.84	107.06	-7,207.95	2,110.15	7,618.33	7,609.21	9.12	835.262		
1,900.00	1,885.27	809.00	804.14	6.94	2.98	106.70	-7,213.20	2,106.71	7,641.63	7,631.92	9.71	787.363		
2,000.00	1,979.82	839.07	833.48	7.47	3.13	106.31	-7,218.73	2,103.10	7,666.79	7,656.46	10.33	742.240		
2,100.00	2,073.17	867.82	861.45	8.05	3.27	105.89	-7,224.27	2,099.49	7,693.79	7,682.81	10.98	700.482		
2,200.00	2,165.21	898.00	890.75	8.67	3.42	105.43	-7,230.35	2,095.54	7,722.61	7,710.93	11.68	660.943		
2,300.00	2,255.84	898.00	890.75	9.35	3.42	104.81	-7,230.35	2,095.54	7,753.32	7,741.04	12.29	630.933		
2,400.00	2,344.94	934.23	925.83	10.09	3.61	104.31	-7,238.06	2,090.73	7,785.70	7,772.59	13.11	593.810		
2,500.00	2,432.39	952.19	943.18	10.89	3.70	103.69	-7,242.07	2,088.37	7,819.94	7,806.05	13.89	562.856		
2,519.29	2,449.07	986.00	975.76	11.05	3.88	103.72	-7,249.95	2,083.96	7,826.99	7,812.79	14.20	551.377		
2,600.00	2,518.69	986.00	975.76	11.74	3.88	103.72	-7,249.95	2,083.96	7,855.74	7,840.95	14.79	531.259		
2,700.00	2,604.95	986.00	975.76	12.62	3.88	103.72	-7,249.95	2,083.96	7,892.36	7,876.82	15.53	508.138		
2,800.00	2,691.22	1,010.29	999.12	13.52	4.02	103.85	-7,255.83	2,080.88	7,929.95	7,913.55	16.40	483.412		
2,900.00	2,777.48	1,036.00	1,023.83	14.43	4.16	103.98	-7,262.20	2,077.75	7,968.42	7,951.13	17.29	460.842		
3,000.00	2,863.75	1,036.00	1,023.83	15.35	4.16	103.98	-7,262.20	2,077.75	8,007.83	7,989.78	18.05	443.584		
3,100.00	2,950.01	1,078.44	1,064.59	16.28	4.39	104.19	-7,273.01	2,073.03	8,047.94	8,028.92	19.02	423.096		
3,200.00	3,036.27	1,101.09	1,086.34	17.22	4.52	104.30	-7,278.94	2,070.77	8,088.97	8,069.07	19.90	406.576		
3,300.00	3,122.54	1,143.00	1,126.55	18.17	4.76	104.50	-7,290.17	2,067.07	8,130.89	8,110.02	20.87	389.671		
3,400.00	3,208.80	1,151.69	1,134.88	19.13	4.81	104.54	-7,292.54	2,066.37	8,173.47	8,151.81	21.67	377.266		
3,500.00	3,295.07	1,205.51	1,186.47	20.09	5.11	104.79	-7,307.26	2,062.12	8,216.75	8,194.06	22.68	362.218		
3,600.00	3,381.33	1,288.76	1,266.27	21.05	5.58	105.19	-7,330.09	2,055.71	8,260.48	8,236.63	23.85	346.356		
3,700.00	3,467.59	1,481.32	1,451.21	22.02	6.69	106.08	-7,381.41	2,040.21	8,303.99	8,278.42	25.57	324.813		
3,800.00	3,553.86	1,533.25	1,501.16	22.99	6.99	106.32	-7,394.93	2,035.74	8,347.33	8,320.76	26.57	314.112		
3,900.00	3,640.12	1,580.00	1,546.04	23.97	7.26	106.54	-7,407.29	2,031.48	8,391.27	8,363.71	27.55	304.551		
4,000.00	3,726.38	1,630.12	1,594.10	24.95	7.56	106.77	-7,420.70	2,026.68	8,435.75	8,407.21	28.55	295.500		
4,100.00	3,812.65	1,695.27	1,656.48	25.93	7.94	107.07	-7,438.28	2,020.07	8,480.72	8,451.10	29.62	286.351		
4,200.00	3,898.91	1,775.78	1,733.55	26.91	8.43	107.45	-7,459.95	2,011.59	8,525.97	8,495.20	30.76	277.139		
4,300.00	3,985.18	1,840.60	1,795.59	27.90	8.82	107.75	-7,477.41	2,004.61	8,571.57	8,539.74	31.83	269.331		
4,400.00	4,071.44	1,927.47	1,878.75	28.88	9.34	108.14	-7,500.75	1,995.34	8,617.47	8,584.47	33.00	261.142		
4,500.00	4,157.70	1,978.25	1,927.38	29.87	9.65	108.37	-7,514.38	1,990.15	8,663.72	8,629.75	33.97	255.010		
4,600.00	4,243.97	4,600.00	2,132.77	30.86	24.90	109.32	-7,569.96	1,970.23	8,709.58	8,663.17	46.40	187.689		
4,700.00	4,330.23	2,236.48	2,175.55	31.85	11.17	109.52	-7,581.29	1,965.40	8,755.46	8,718.72	36.74	238.336		
4,800.00	4,416.49	2,392.20	2,324.84	32.84	12.10	110.22	-7,620.86	1,945.52	8,801.61	8,763.34	38.27	230.006		
4,900.00	4,502.76	2,422.24	2,353.69	33.84	12.28	110.35	-7,628.39	1,941.80	8,847.78	8,808.67	39.12	226.192		
5,000.00	4,589.02	2,453.00	2,383.19	34.83	12.46	110.49	-7,636.23	1,938.06	8,894.60	8,854.64	39.96	222.573		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	2,627.00	2,550.62	35.82	13.48	111.24	-7,679.60	1,919.07	8,941.17	8,899.61	41.57	215.105		
5,200.00	4,761.55	2,673.40	2,595.29	36.82	13.76	111.44	-7,690.85	1,913.54	8,987.83	8,945.35	42.49	211.542		
5,300.00	4,847.81	2,714.00	2,634.25	37.82	14.00	111.62	-7,701.15	1,908.54	9,035.38	8,992.01	43.37	208.334		
5,400.00	4,934.08	2,721.43	2,641.36	38.81	14.04	111.65	-7,703.07	1,907.62	9,083.48	9,039.41	44.07	206.137		
5,500.00	5,020.34	2,925.64	2,837.58	39.81	15.26	112.51	-7,754.47	1,883.97	9,131.68	9,085.86	45.82	199.277		
5,600.00	5,106.60	2,976.00	2,886.09	40.81	15.55	112.72	-7,766.70	1,878.23	9,179.50	9,132.76	46.74	196.386		
5,700.00	5,192.87	3,018.56	2,927.09	41.81	15.80	112.90	-7,777.14	1,873.58	9,227.82	9,180.21	47.61	193.819		
5,800.00	5,279.13	3,064.00	2,970.81	42.81	16.06	113.08	-7,788.66	1,869.09	9,276.86	9,228.37	48.49	191.318		
5,900.00	5,365.40	3,083.18	2,989.25	43.81	16.18	113.16	-7,793.59	1,867.29	9,326.38	9,277.17	49.22	189.491		
6,000.00	5,451.66	3,152.33	3,055.76	44.81	16.58	113.44	-7,811.41	1,860.85	9,376.33	9,326.11	50.21	186.733		
6,100.00	5,537.92	3,212.52	3,113.60	45.81	16.94	113.68	-7,826.95	1,854.94	9,426.58	9,375.42	51.16	184.274		
6,200.00	5,624.19	3,270.87	3,169.61	46.81	17.29	113.91	-7,842.08	1,848.71	9,477.17	9,425.08	52.08	181.962		
6,300.00	5,710.45	3,326.00	3,222.51	47.81	17.62	114.13	-7,856.45	1,842.79	9,528.11	9,475.12	52.99	179.813		
6,400.00	5,796.72	3,384.08	3,278.23	48.81	17.97	114.36	-7,871.67	1,836.69	9,579.41	9,525.51	53.91	177.708		
6,500.00	5,882.98	3,626.28	3,511.15	49.81	19.40	115.29	-7,933.65	1,812.94	9,630.73	9,574.90	55.83	172.492		
6,600.00	5,969.24	3,675.00	3,558.11	50.82	19.68	115.48	-7,945.81	1,808.44	9,681.49	9,624.80	56.69	170.785		
6,700.00	6,055.51	3,694.72	3,577.10	51.82	19.80	115.55	-7,950.81	1,806.66	9,732.70	9,675.32	57.38	169.622		
6,800.00	6,141.77	3,747.15	3,627.58	52.82	20.10	115.75	-7,964.17	1,802.01	9,784.35	9,726.10	58.24	167.990		
6,900.00	6,228.03	6,900.00	3,721.18	53.83	38.37	116.10	-7,988.85	1,794.06	9,836.11	9,764.00	72.11	136.403		
7,000.00	6,314.30	3,895.10	3,770.19	54.83	20.96	116.28	-8,001.73	1,790.07	9,888.08	9,827.88	60.20	164.262		
7,100.00	6,400.56	6,726.58	6,558.85	55.83	32.31	124.92	-8,337.92	1,649.10	9,924.06	9,851.22	72.85	136.228		
7,200.00	6,486.83	6,809.71	6,641.96	56.84	32.49	125.12	-8,336.84	1,649.87	9,954.54	9,880.73	73.81	134.871		
7,300.00	6,573.09	6,893.07	6,725.31	57.84	32.67	125.32	-8,335.79	1,650.81	9,985.20	9,910.43	74.76	133.555		
8,800.00	7,801.32	8,100.11	7,932.16	67.74	35.73	40.64	-8,339.00	1,667.86	9,990.90	9,903.03	87.87	113.703		
8,850.00	7,822.06	8,137.35	7,969.39	67.59	35.82	41.72	-8,338.61	1,668.29	9,947.75	9,859.64	88.11	112.902		
8,900.00	7,839.23	8,147.99	7,980.03	67.41	35.85	43.76	-8,338.50	1,668.40	9,902.64	9,814.39	88.25	112.212		
8,950.00	7,852.69	8,160.17	7,992.21	67.22	35.88	47.58	-8,338.37	1,668.53	9,855.90	9,767.53	88.38	111.519		
9,000.00	7,862.35	8,168.76	8,000.80	67.00	35.90	54.57	-8,338.27	1,668.62	9,807.90	9,719.42	88.48	110.846		
9,050.00	7,868.14	8,173.70	8,005.74	66.78	35.91	68.28	-8,338.22	1,668.67	9,758.98	9,670.42	88.56	110.193		
9,098.65	7,870.00	8,174.97	8,007.01	66.55	35.91	95.44	-8,338.21	1,668.69	9,710.86	9,622.24	88.62	109.581		
9,100.00	7,870.00	8,174.96	8,006.99	66.55	35.91	95.43	-8,338.21	1,668.69	9,709.52	9,620.90	88.62	109.564		
9,200.00	7,870.00	8,173.96	8,006.00	66.09	35.91	95.39	-8,338.22	1,668.68	9,610.31	9,521.60	88.71	108.330		
9,300.00	7,870.00	8,172.96	8,005.00	65.65	35.91	95.34	-8,338.23	1,668.67	9,511.12	9,422.31	88.81	107.096		
9,400.00	7,870.00	8,171.96	8,004.00	65.24	35.91	95.29	-8,338.24	1,668.66	9,411.95	9,323.04	88.91	105.861		
9,500.00	7,870.00	8,170.96	8,002.99	64.85	35.90	95.25	-8,338.25	1,668.65	9,312.79	9,223.78	89.01	104.625		
9,600.00	7,870.00	8,169.96	8,001.99	64.48	35.90	95.20	-8,338.26	1,668.63	9,213.65	9,124.54	89.12	103.388		
9,700.00	7,870.00	8,168.95	8,000.99	64.13	35.90	95.15	-8,338.27	1,668.62	9,114.53	9,025.31	89.23	102.150		
9,800.00	7,870.00	8,167.95	7,999.99	63.80	35.90	95.11	-8,338.28	1,668.61	9,015.43	8,926.09	89.34	100.912		
9,900.00	7,870.00	8,166.95	7,998.98	63.50	35.89	95.06	-8,338.29	1,668.60	8,916.35	8,826.90	89.46	99.673		
10,000.00	7,870.00	8,165.94	7,997.98	63.22	35.89	95.01	-8,338.30	1,668.59	8,817.29	8,727.72	89.58	98.433		
10,100.00	7,870.00	8,164.94	7,996.97	62.96	35.89	94.96	-8,338.32	1,668.58	8,718.26	8,628.56	89.70	97.192		
10,200.00	7,870.00	8,163.93	7,995.97	62.72	35.89	94.92	-8,338.33	1,668.57	8,619.24	8,529.41	89.83	95.951		
10,300.00	7,870.00	8,162.92	7,994.96	62.50	35.88	94.87	-8,338.34	1,668.56	8,520.25	8,430.29	89.96	94.710		
10,400.00	7,870.00	8,161.92	7,993.95	62.31	35.88	94.82	-8,338.35	1,668.55	8,421.28	8,331.18	90.10	93.468		
10,500.00	7,870.00	8,160.91	7,992.95	62.15	35.88	94.77	-8,338.36	1,668.54	8,322.34	8,232.10	90.24	92.225		
10,600.00	7,870.00	8,159.90	7,991.94	62.01	35.88	94.73	-8,338.37	1,668.53	8,223.42	8,133.03	90.38	90.982		
10,700.00	7,870.00	8,158.89	7,990.93	61.90	35.87	94.68	-8,338.38	1,668.52	8,124.52	8,033.99	90.54	89.739		
10,800.00	7,870.00	8,157.88	7,989.92	61.82	35.87	94.63	-8,338.39	1,668.51	8,025.66	7,934.97	90.69	88.495		
10,900.00	7,870.00	8,156.87	7,988.91	61.78	35.87	94.58	-8,338.40	1,668.50	7,926.82	7,835.97	90.85	87.251		
11,000.00	7,870.00	8,155.86	7,987.89	61.77	35.86	94.54	-8,338.41	1,668.49	7,828.01	7,737.00	91.02	86.007		
11,100.00	7,870.00	8,154.84	7,986.88	61.81	35.86	94.49	-8,338.42	1,668.48	7,729.24	7,638.05	91.19	84.762		
11,200.00	7,870.00	8,153.83	7,985.87	61.90	35.86	94.44	-8,338.43	1,668.47	7,630.49	7,539.12	91.36	83.517		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
11,300.00	7,870.00	8,152.82	7,984.85	62.03	35.86	94.39	-8,338.44	1,668.46	7,531.78	7,440.23	91.55	82.272		
11,400.00	7,870.00	8,151.80	7,983.84	62.23	35.85	94.34	-8,338.46	1,668.44	7,433.10	7,341.36	91.74	81.026		
11,500.00	7,870.00	8,150.79	7,982.82	62.50	35.85	94.30	-8,338.47	1,668.43	7,334.46	7,242.52	91.93	79.781		
11,600.00	7,870.00	8,162.53	7,994.57	62.84	35.88	94.85	-8,338.31	1,668.57	7,235.83	7,143.64	92.19	78.492		
11,700.00	7,870.00	8,160.69	7,992.73	63.25	35.88	94.76	-8,338.33	1,668.55	7,137.26	7,044.87	92.39	77.250		
11,800.00	7,870.00	8,158.88	7,990.92	63.76	35.87	94.68	-8,338.35	1,668.53	7,038.74	6,946.13	92.61	76.007		
11,900.00	7,870.00	8,157.10	7,989.14	64.34	35.87	94.59	-8,338.38	1,668.51	6,940.26	6,847.43	92.83	74.765		
12,000.00	7,870.00	8,155.34	7,987.38	65.01	35.86	94.51	-8,338.40	1,668.49	6,841.82	6,748.76	93.06	73.522		
12,100.00	7,870.00	8,153.61	7,985.64	65.77	35.86	94.43	-8,338.42	1,668.47	6,743.42	6,650.13	93.30	72.280		
12,200.00	7,870.00	8,151.89	7,983.93	66.61	35.86	94.35	-8,338.44	1,668.45	6,645.08	6,551.54	93.54	71.038		
12,300.00	7,870.00	8,150.20	7,982.24	67.51	35.85	94.27	-8,338.46	1,668.43	6,546.78	6,452.98	93.80	69.796		
12,400.00	7,870.00	8,148.53	7,980.57	68.49	35.85	94.19	-8,338.48	1,668.41	6,448.54	6,354.47	94.06	68.554		
12,500.00	7,870.00	8,146.89	7,978.93	69.52	35.84	94.11	-8,338.50	1,668.39	6,350.35	6,256.01	94.34	67.313		
12,600.00	7,870.00	8,145.26	7,977.30	70.61	35.84	94.04	-8,338.52	1,668.38	6,252.22	6,157.59	94.63	66.072		
12,700.00	7,870.00	8,143.66	7,975.70	71.75	35.83	93.96	-8,338.54	1,668.36	6,154.14	6,059.22	94.92	64.832		
12,800.00	7,870.00	8,142.08	7,974.12	72.93	35.83	93.89	-8,338.55	1,668.34	6,056.13	5,960.90	95.23	63.593		
12,900.00	7,870.00	8,140.52	7,972.56	74.14	35.83	93.81	-8,338.57	1,668.32	5,958.19	5,862.63	95.55	62.354		
13,000.00	7,870.00	8,138.97	7,971.01	75.39	35.82	93.74	-8,338.59	1,668.31	5,860.31	5,764.42	95.89	61.116		
13,100.00	7,870.00	8,137.45	7,969.49	76.67	35.82	93.67	-8,338.61	1,668.29	5,762.51	5,666.27	96.24	59.879		
13,200.00	7,870.00	8,135.95	7,967.99	77.98	35.82	93.60	-8,338.62	1,668.27	5,664.79	5,568.19	96.60	58.642		
13,300.00	7,870.00	8,134.46	7,966.50	79.31	35.81	93.53	-8,338.64	1,668.25	5,567.14	5,470.16	96.98	57.407		
13,400.00	7,870.00	8,132.99	7,965.04	80.67	35.81	93.46	-8,338.66	1,668.24	5,469.58	5,372.21	97.37	56.174		
13,500.00	7,870.00	8,131.55	7,963.59	82.04	35.80	93.39	-8,338.67	1,668.22	5,372.11	5,274.33	97.78	54.941		
13,600.00	7,870.00	8,130.11	7,962.16	83.43	35.80	93.32	-8,338.69	1,668.21	5,274.73	5,176.53	98.21	53.711		
13,700.00	7,870.00	8,128.70	7,960.74	84.84	35.80	93.25	-8,338.70	1,668.19	5,177.45	5,078.80	98.65	52.482		
13,800.00	7,870.00	8,127.30	7,959.35	86.27	35.79	93.19	-8,338.72	1,668.17	5,080.28	4,981.16	99.12	51.254		
13,900.00	7,870.00	8,125.92	7,957.97	87.71	35.79	93.12	-8,338.73	1,668.16	4,983.22	4,883.62	99.61	50.029		
14,000.00	7,870.00	8,124.56	7,956.60	89.16	35.79	93.06	-8,338.75	1,668.14	4,886.28	4,786.16	100.12	48.806		
14,100.00	7,870.00	8,123.21	7,955.26	90.63	35.78	92.99	-8,338.76	1,668.13	4,789.46	4,688.81	100.65	47.586		
14,200.00	7,870.00	8,121.88	7,953.93	92.10	35.78	92.93	-8,338.78	1,668.11	4,692.78	4,591.57	101.21	46.368		
14,300.00	7,870.00	8,120.57	7,952.61	93.59	35.78	92.87	-8,338.79	1,668.10	4,596.24	4,494.45	101.79	45.153		
14,400.00	7,870.00	8,119.27	7,951.31	95.09	35.77	92.81	-8,338.80	1,668.08	4,499.85	4,397.44	102.41	43.941		
14,500.00	7,870.00	8,117.98	7,950.03	96.60	35.77	92.75	-8,338.82	1,668.07	4,403.62	4,300.57	103.05	42.732		
14,600.00	7,870.00	8,116.71	7,948.76	98.11	35.77	92.69	-8,338.83	1,668.05	4,307.56	4,203.83	103.73	41.527		
14,700.00	7,870.00	8,115.46	7,947.50	99.64	35.76	92.63	-8,338.84	1,668.04	4,211.68	4,107.24	104.44	40.326		
14,800.00	7,870.00	8,114.21	7,946.26	101.17	35.76	92.57	-8,338.86	1,668.02	4,116.00	4,010.82	105.19	39.129		
14,900.00	7,870.00	8,112.99	7,945.03	102.71	35.76	92.51	-8,338.87	1,668.01	4,020.54	3,914.56	105.98	37.937		
15,000.00	7,870.00	8,111.77	7,943.82	104.26	35.75	92.45	-8,338.88	1,667.99	3,925.29	3,818.48	106.81	36.751		
15,100.00	7,870.00	8,110.57	7,942.62	105.82	35.75	92.40	-8,338.89	1,667.98	3,830.29	3,722.60	107.69	35.569		
15,200.00	7,870.00	8,109.39	7,941.43	107.38	35.75	92.34	-8,338.91	1,667.97	3,735.55	3,626.94	108.61	34.394		
15,300.00	7,870.00	8,108.21	7,940.26	108.95	35.75	92.29	-8,338.92	1,667.95	3,641.09	3,531.50	109.59	33.225		
15,400.00	7,870.00	8,107.05	7,939.10	110.52	35.74	92.23	-8,338.93	1,667.94	3,546.93	3,436.30	110.62	32.063		
15,500.00	7,870.00	8,105.91	7,937.95	112.10	35.74	92.18	-8,338.94	1,667.93	3,453.10	3,341.38	111.72	30.909		
15,600.00	7,870.00	8,104.77	7,936.82	113.69	35.74	92.12	-8,338.95	1,667.91	3,359.63	3,246.75	112.88	29.763		
15,700.00	7,870.00	8,103.65	7,935.69	115.28	35.73	92.07	-8,338.96	1,667.90	3,266.54	3,152.43	114.11	28.625		
15,800.00	7,870.00	8,102.54	7,934.58	116.87	35.73	92.02	-8,338.97	1,667.89	3,173.87	3,058.45	115.42	27.498		
15,900.00	7,870.00	8,101.44	7,933.48	118.47	35.73	91.96	-8,338.98	1,667.87	3,081.66	2,964.85	116.81	26.382		
16,000.00	7,870.00	8,100.35	7,932.40	120.07	35.73	91.91	-8,338.99	1,667.86	2,989.96	2,871.66	118.29	25.276		
16,100.00	7,870.00	8,099.28	7,931.32	121.68	35.72	91.86	-8,339.00	1,667.85	2,898.80	2,778.93	119.87	24.184		
16,200.00	7,870.00	8,098.21	7,930.26	123.30	35.72	91.81	-8,339.01	1,667.84	2,808.24	2,686.69	121.54	23.105		
16,300.00	7,870.00	8,097.16	7,929.20	124.91	35.72	91.76	-8,339.02	1,667.82	2,718.34	2,595.00	123.34	22.040		
16,400.00	7,870.00	8,096.12	7,928.16	126.53	35.72	91.71	-8,339.03	1,667.81	2,629.17	2,503.92	125.25	20.992		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
16,500.00	7,870.00	8,095.09	7,927.13	128.16	35.71	91.66	-8,339.04	1,667.80	2,540.81	2,413.52	127.29	19.961		
16,600.00	7,870.00	8,094.07	7,926.11	129.79	35.71	91.62	-8,339.05	1,667.79	2,453.34	2,323.87	129.47	18.949		
16,700.00	7,870.00	8,093.06	7,925.10	131.42	35.71	91.57	-8,339.06	1,667.78	2,366.87	2,235.06	131.81	17.957		
16,800.00	7,870.00	8,092.06	7,924.10	133.05	35.71	91.52	-8,339.07	1,667.76	2,281.50	2,147.19	134.30	16.988		
16,900.00	7,870.00	8,091.07	7,923.11	134.69	35.70	91.47	-8,339.08	1,667.75	2,197.36	2,060.39	136.97	16.042		
17,000.00	7,870.00	8,090.09	7,922.13	136.33	35.70	91.43	-8,339.09	1,667.74	2,114.60	1,974.78	139.82	15.123		
17,100.00	7,870.00	8,089.12	7,921.16	137.97	35.70	91.38	-8,339.10	1,667.73	2,033.40	1,890.53	142.87	14.233		
17,200.00	7,870.00	8,088.16	7,920.20	139.62	35.70	91.34	-8,339.11	1,667.72	1,953.94	1,807.83	146.11	13.373		
17,300.00	7,870.00	8,087.21	7,919.25	141.27	35.69	91.29	-8,339.12	1,667.71	1,876.44	1,726.88	149.56	12.546		
17,400.00	7,870.00	8,086.27	7,918.31	142.92	35.69	91.25	-8,339.12	1,667.69	1,801.16	1,647.95	153.22	11.756		
17,500.00	7,870.00	8,085.33	7,917.38	144.58	35.69	91.20	-8,339.13	1,667.68	1,728.39	1,571.32	157.07	11.004		
17,600.00	7,870.00	8,084.41	7,916.46	146.23	35.69	91.16	-8,339.14	1,667.67	1,658.46	1,497.35	161.11	10.294		
17,700.00	7,870.00	8,083.50	7,915.55	147.89	35.68	91.12	-8,339.15	1,667.66	1,591.74	1,426.43	165.32	9.628		
17,800.00	7,870.00	8,082.59	7,914.64	149.56	35.68	91.07	-8,339.16	1,667.65	1,528.66	1,359.02	169.64	9.011		
17,900.00	7,870.00	8,081.70	7,913.75	151.22	35.68	91.03	-8,339.16	1,667.64	1,469.67	1,295.66	174.01	8.446		
18,000.00	7,870.00	8,080.81	7,912.86	152.89	35.68	90.99	-8,339.17	1,667.63	1,415.31	1,236.94	178.37	7.935		
18,100.00	7,870.00	8,079.93	7,911.98	154.55	35.67	90.95	-8,339.18	1,667.62	1,366.10	1,183.52	182.58	7.482		
18,200.00	7,870.00	8,079.06	7,911.11	156.22	35.67	90.91	-8,339.19	1,667.61	1,322.64	1,136.11	186.53	7.091		
18,300.00	7,870.00	8,078.20	7,910.25	157.90	35.67	90.86	-8,339.19	1,667.60	1,285.50	1,095.45	190.05	6.764		
18,400.00	7,870.00	8,077.35	7,909.40	159.57	35.67	90.82	-8,339.20	1,667.59	1,255.25	1,062.27	192.99	6.504		
18,500.00	7,870.00	8,076.50	7,908.55	161.25	35.67	90.78	-8,339.21	1,667.58	1,232.40	1,037.24	195.16	6.315		
18,600.00	7,870.00	8,075.66	7,907.71	162.93	35.66	90.74	-8,339.22	1,667.57	1,217.35	1,020.92	196.43	6.197		
18,700.00	7,870.00	8,074.83	7,906.88	164.60	35.66	90.70	-8,339.22	1,667.56	1,210.40	1,013.70	196.70	6.154 SF		
18,734.32	7,870.00	8,074.55	7,906.60	165.18	35.66	90.69	-8,339.22	1,667.55	1,209.92	1,013.37	196.55	6.156 CC, ES		
18,797.52	7,870.00	8,074.03	7,906.08	166.24	35.66	90.67	-8,339.23	1,667.55	1,211.56	1,015.62	195.95	6.183		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	20.22	20.22	0.00	0.03	163.17	-7,111.18	2,151.61	7,429.55					
100.00	100.00	112.14	112.14	0.13	0.18	163.16	-7,111.16	2,151.92	7,429.63	7,429.31	0.32	N/A		
200.00	200.00	183.88	183.87	0.49	0.40	163.15	-7,111.00	2,153.13	7,429.92	7,429.03	0.89	8,345.811		
300.00	300.00	226.00	225.93	0.85	0.56	163.14	-7,110.68	2,155.16	7,430.72	7,429.32	1.40	5,302.131		
400.00	400.00	263.74	263.58	1.21	0.70	163.12	-7,110.46	2,157.80	7,432.35	7,430.44	1.90	3,907.257		
500.00	500.00	318.00	317.60	1.57	0.91	163.08	-7,110.65	2,162.88	7,435.13	7,432.67	2.46	3,017.055		
600.00	600.00	318.00	317.60	1.93	0.91	163.08	-7,110.65	2,162.88	7,438.55	7,435.73	2.82	2,634.503		
700.00	700.00	388.25	387.41	2.29	1.18	163.03	-7,111.38	2,170.71	7,442.83	7,439.37	3.46	2,153.986		
800.00	800.00	936.03	923.42	2.64	3.77	162.19	-7,085.45	2,275.92	7,442.70	7,436.30	6.40	1,163.308		
900.00	900.00	983.62	969.21	3.00	4.04	162.09	-7,081.03	2,288.13	7,441.69	7,434.66	7.03	1,059.010		
989.07	989.07	1,027.00	1,010.88	3.32	4.28	162.00	-7,077.20	2,299.57	7,441.42	7,433.83	7.59	979.901		
1,000.00	1,000.00	1,029.82	1,013.59	3.36	4.30	161.99	-7,076.96	2,300.32	7,441.43	7,433.78	7.65	972.797		
1,100.00	1,099.98	1,106.61	1,087.40	3.72	4.74	107.20	-7,070.60	2,320.50	7,442.24	7,433.79	8.45	881.007		
1,200.00	1,199.84	1,202.31	1,179.69	4.07	5.29	107.00	-7,063.14	2,344.73	7,444.32	7,434.97	9.35	796.519		
1,300.00	1,299.45	1,261.79	1,236.93	4.43	5.64	106.85	-7,058.52	2,360.16	7,447.71	7,437.65	10.06	740.683		
1,400.00	1,398.70	1,370.98	1,341.33	4.80	6.30	106.61	-7,049.67	2,390.94	7,452.54	7,441.46	11.08	672.495		
1,500.00	1,497.47	1,459.52	1,426.25	5.18	6.83	106.41	-7,042.60	2,414.96	7,458.17	7,446.18	11.99	621.851		
1,600.00	1,595.62	1,511.89	1,476.51	5.57	7.15	106.24	-7,038.64	2,429.13	7,465.20	7,452.50	12.70	587.608		
1,700.00	1,693.06	1,567.75	1,530.10	6.00	7.48	106.04	-7,034.79	2,444.41	7,473.88	7,460.42	13.46	555.316		
1,800.00	1,789.64	1,704.37	1,661.01	6.45	8.32	105.81	-7,025.09	2,482.28	7,483.46	7,468.72	14.74	507.710		
1,900.00	1,885.27	1,820.04	1,771.67	6.94	9.03	105.61	-7,016.34	2,514.79	7,493.70	7,477.76	15.93	470.306		
2,000.00	1,979.82	1,951.65	1,897.95	7.47	9.83	105.43	-7,006.25	2,550.46	7,504.41	7,487.16	17.25	435.020		
2,100.00	2,073.17	2,070.51	2,012.11	8.05	10.55	105.27	-6,997.06	2,582.26	7,515.92	7,497.39	18.53	405.636		
2,200.00	2,165.21	2,159.43	2,097.55	8.67	11.08	105.11	-6,990.10	2,605.85	7,528.19	7,508.52	19.67	382.701		
2,300.00	2,255.84	2,211.96	2,148.03	9.35	11.40	104.90	-6,986.16	2,619.86	7,541.74	7,521.09	20.65	365.295		
2,400.00	2,344.94	2,288.89	2,221.81	10.09	11.87	104.71	-6,980.74	2,640.97	7,556.82	7,534.99	21.83	346.178		
2,500.00	2,432.39	2,430.00	2,356.71	10.89	12.75	104.61	-6,969.40	2,680.76	7,572.02	7,548.53	23.48	322.453		
2,519.29	2,449.07	2,430.00	2,356.71	11.05	12.75	104.54	-6,969.40	2,680.76	7,575.12	7,551.48	23.64	320.491		
2,600.00	2,518.69	2,479.76	2,404.46	11.74	13.06	104.63	-6,965.58	2,694.26	7,588.19	7,563.59	24.60	308.464		
2,700.00	2,604.95	2,517.00	2,440.09	12.62	13.29	104.69	-6,963.04	2,704.77	7,605.31	7,579.65	25.66	296.403		
2,800.00	2,691.22	2,556.18	2,477.56	13.52	13.53	104.76	-6,960.03	2,715.95	7,623.23	7,596.48	26.75	285.025		
2,900.00	2,777.48	2,604.00	2,523.36	14.43	13.83	104.84	-6,958.04	2,729.48	7,641.84	7,613.94	27.90	273.912		
3,000.00	2,863.75	2,699.09	2,614.17	15.35	14.43	104.99	-6,952.96	2,757.21	7,660.83	7,631.46	29.37	260.798		
3,100.00	2,950.01	2,843.46	2,752.35	16.28	15.33	105.23	-6,945.12	2,798.27	7,679.62	7,648.45	31.17	246.355		
3,200.00	3,036.27	2,913.50	2,819.37	17.22	15.77	105.34	-6,941.09	2,818.21	7,698.18	7,665.69	32.50	236.898		
3,300.00	3,122.54	3,300.00	2,984.96	18.17	18.20	105.62	-6,931.22	2,867.86	7,717.14	7,681.30	35.84	215.293		
3,400.00	3,208.80	3,191.42	3,085.04	19.13	17.52	105.78	-6,924.01	2,897.96	7,734.81	7,698.73	36.07	214.412		
3,500.00	3,295.07	3,320.91	3,208.90	20.09	18.33	105.99	-6,915.41	2,934.71	7,752.72	7,714.92	37.81	205.056		
3,600.00	3,381.33	3,518.38	3,400.49	21.05	19.42	106.37	-6,903.50	2,980.94	7,770.05	7,730.22	39.83	195.097		
3,700.00	3,467.59	3,630.52	3,510.37	22.02	19.96	106.63	-6,897.01	3,002.31	7,786.31	7,745.02	41.29	188.562		
3,800.00	3,553.86	3,719.44	3,598.02	22.99	20.36	106.84	-6,892.55	3,016.67	7,802.63	7,760.02	42.60	183.142		
3,900.00	3,640.12	3,834.63	3,712.04	23.97	20.83	107.15	-6,887.60	3,032.20	7,819.05	7,775.06	43.99	177.732		
4,000.00	3,726.38	3,955.65	3,832.27	24.95	21.28	107.49	-6,882.77	3,045.11	7,835.17	7,789.81	45.36	172.740		
4,100.00	3,812.65	4,048.49	3,924.71	25.93	21.60	107.76	-6,879.52	3,053.10	7,851.44	7,804.85	46.59	168.524		
4,200.00	3,898.91	4,135.65	4,011.59	26.91	21.88	108.03	-6,876.72	3,059.45	7,867.84	7,820.06	47.78	164.655		
4,300.00	3,985.18	4,231.30	4,107.02	27.90	22.19	108.33	-6,874.00	3,065.38	7,884.53	7,835.54	48.99	160.931		
4,400.00	4,071.44	4,333.49	4,209.02	28.88	22.50	108.65	-6,871.10	3,070.91	7,901.26	7,851.04	50.21	157.355		
4,500.00	4,157.70	4,450.92	4,326.26	29.87	22.85	109.02	-6,867.65	3,076.62	7,918.02	7,866.54	51.47	153.826		
4,600.00	4,243.97	4,562.21	4,437.38	30.86	23.19	109.37	-6,864.10	3,081.65	7,934.71	7,882.00	52.71	150.535		
4,700.00	4,330.23	4,661.75	4,536.78	31.85	23.48	109.69	-6,860.80	3,085.66	7,951.40	7,897.50	53.90	147.510		
4,800.00	4,416.49	4,750.97	4,625.90	32.84	23.74	109.97	-6,857.89	3,088.87	7,968.30	7,913.24	55.06	144.719		
4,900.00	4,502.76	4,904.09	4,778.85	33.84	24.19	110.46	-6,852.56	3,093.73	7,985.21	7,928.81	56.40	141.571		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	5,026.83	4,901.42	34.83	24.55	110.86	-6,847.36	3,097.21	8,001.55	7,943.90	57.65	138.798		
5,100.00	4,675.29	5,118.90	4,993.39	35.82	24.81	111.15	-6,843.47	3,099.22	8,018.04	7,959.24	58.80	136.367		
5,200.00	4,761.55	5,136.00	5,010.47	36.82	24.86	111.21	-6,842.75	3,099.53	8,035.06	7,975.34	59.72	134.540		
5,300.00	4,847.81	5,208.88	5,083.30	37.82	25.06	111.45	-6,840.12	3,100.78	8,052.54	7,991.74	60.80	132.441		
5,400.00	4,934.08	5,248.82	5,123.22	38.81	25.18	111.58	-6,839.02	3,101.43	8,070.94	8,009.16	61.78	130.643		
5,500.00	5,020.34	5,310.00	5,184.37	39.81	25.35	111.78	-6,837.83	3,102.36	8,090.17	8,027.35	62.81	128.798		
5,600.00	5,106.60	5,310.00	5,184.37	40.81	25.35	111.78	-6,837.83	3,102.36	8,110.07	8,046.41	63.66	127.404		
5,700.00	5,192.87	5,369.86	5,244.22	41.81	25.51	111.97	-6,837.19	3,103.27	8,130.69	8,066.01	64.67	125.724		
5,800.00	5,279.13	5,410.70	5,285.06	42.81	25.62	112.11	-6,837.04	3,103.91	8,152.09	8,086.46	65.62	124.228		
5,900.00	5,365.40	5,485.00	5,359.35	43.81	25.82	112.35	-6,837.36	3,105.11	8,174.37	8,107.69	66.67	122.607		
6,000.00	5,451.66	5,499.91	5,374.25	44.81	25.86	112.40	-6,837.50	3,105.36	8,197.07	8,129.55	67.53	121.390		
6,100.00	5,537.92	5,586.32	5,460.65	45.81	26.09	112.68	-6,838.36	3,106.57	8,220.34	8,151.74	68.60	119.836		
6,200.00	5,624.19	5,903.81	5,778.11	46.81	26.94	113.72	-6,837.24	3,108.95	8,242.52	8,172.15	70.37	117.130		
6,300.00	5,710.45	5,978.61	5,852.90	47.81	27.15	113.96	-6,836.03	3,109.34	8,263.91	8,192.49	71.41	115.723		
6,400.00	5,796.72	6,062.42	5,936.70	48.81	27.38	114.23	-6,834.76	3,109.74	8,285.63	8,213.15	72.47	114.324		
6,500.00	5,882.98	6,152.41	6,026.67	49.81	27.64	114.52	-6,833.40	3,110.10	8,307.56	8,234.01	73.55	112.945		
6,600.00	5,969.24	6,254.47	6,128.73	50.82	27.92	114.85	-6,831.78	3,110.40	8,329.67	8,255.00	74.67	111.558		
6,700.00	6,055.51	6,362.78	6,237.02	51.82	28.22	115.20	-6,829.82	3,110.53	8,351.79	8,276.00	75.79	110.190		
6,800.00	6,141.77	6,465.87	6,340.09	52.82	28.52	115.53	-6,827.72	3,110.60	8,373.96	8,297.06	76.90	108.889		
6,900.00	6,228.03	6,571.34	6,445.52	53.83	28.82	115.86	-6,825.36	3,110.73	8,396.18	8,318.17	78.02	107.617		
7,000.00	6,314.30	6,680.81	6,554.96	54.83	29.13	116.21	-6,822.60	3,111.11	8,418.42	8,339.27	79.15	106.364		
7,100.00	6,400.56	6,764.08	6,638.20	55.83	29.38	116.47	-6,820.36	3,111.55	8,440.76	8,360.56	80.19	105.256		
7,200.00	6,486.83	6,838.98	6,713.08	56.84	29.60	116.70	-6,818.45	3,111.94	8,463.43	8,382.22	81.21	104.219		
7,300.00	6,573.09	6,910.12	6,784.19	57.84	29.80	116.92	-6,816.74	3,112.29	8,486.46	8,404.26	82.21	103.233		
7,400.00	6,659.35	6,976.14	6,850.20	58.84	30.00	117.12	-6,815.32	3,112.57	8,509.92	8,426.73	83.18	102.302		
7,500.00	6,745.62	7,042.01	6,916.06	59.85	30.19	117.32	-6,814.07	3,112.80	8,533.81	8,449.65	84.16	101.405		
7,600.00	6,831.88	7,114.94	6,988.98	60.85	30.41	117.55	-6,812.84	3,113.06	8,558.10	8,472.95	85.15	100.508		
7,700.00	6,918.14	7,189.84	7,063.87	61.86	30.63	117.78	-6,811.68	3,113.44	8,582.73	8,496.59	86.14	99.633		
7,800.00	7,004.41	7,265.20	7,139.22	62.86	30.86	118.01	-6,810.60	3,113.92	8,607.70	8,520.56	87.14	98.784		
7,900.00	7,090.67	7,340.98	7,214.99	63.87	31.08	118.23	-6,809.62	3,114.38	8,632.99	8,544.86	88.13	97.959		
8,000.00	7,176.94	7,419.68	7,293.68	64.87	31.32	118.47	-6,808.71	3,114.80	8,658.60	8,569.48	89.13	97.149		
8,027.52	7,200.68	7,446.42	7,320.42	65.15	31.40	118.55	-6,808.40	3,114.95	8,665.69	8,576.27	89.42	96.911		
8,050.00	7,220.18	7,468.39	7,342.39	65.37	31.47	118.55	-6,808.14	3,115.08	8,671.06	8,581.40	89.66	96.712		
8,100.00	7,264.25	7,518.04	7,392.04	65.85	31.62	106.92	-6,807.53	3,115.41	8,679.93	8,589.74	90.19	96.238		
8,150.00	7,308.99	7,568.44	7,442.43	66.28	31.77	97.41	-6,806.88	3,115.78	8,684.51	8,593.78	90.73	95.722		
8,200.00	7,354.07	7,611.71	7,485.69	66.67	31.90	87.17	-6,806.31	3,116.13	8,684.78	8,593.55	91.23	95.199		
8,250.00	7,399.14	7,652.72	7,526.70	67.02	32.03	76.92	-6,805.78	3,116.47	8,680.76	8,589.06	91.71	94.658		
8,300.00	7,443.85	7,693.36	7,567.33	67.32	32.15	67.38	-6,805.28	3,116.80	8,672.50	8,580.33	92.16	94.098		
8,350.00	7,487.88	7,733.33	7,607.30	67.56	32.28	58.99	-6,804.81	3,117.12	8,660.04	8,567.44	92.60	93.521		
8,400.00	7,530.87	7,773.08	7,647.04	67.75	32.40	51.91	-6,804.35	3,117.45	8,643.47	8,550.46	93.01	92.930		
8,450.00	7,572.51	7,812.47	7,686.43	67.90	32.52	46.07	-6,803.91	3,117.80	8,622.92	8,529.52	93.40	92.325		
8,500.00	7,612.48	7,850.26	7,724.22	68.00	32.64	41.30	-6,803.50	3,118.17	8,598.52	8,504.77	93.75	91.714		
8,550.00	7,650.47	7,886.17	7,760.13	68.05	32.75	37.40	-6,803.11	3,118.54	8,570.46	8,476.38	94.08	91.099		
8,600.00	7,686.20	7,919.93	7,793.88	68.06	32.85	34.21	-6,802.76	3,118.92	8,538.94	8,444.57	94.37	90.483		
8,650.00	7,719.39	7,957.28	7,831.23	68.03	32.97	31.59	-6,802.36	3,119.36	8,504.18	8,409.53	94.65	89.845		
8,700.00	7,749.79	7,993.63	7,867.57	67.97	33.08	29.41	-6,801.95	3,119.81	8,466.43	8,371.52	94.91	89.203		
8,750.00	7,777.17	8,026.22	7,900.15	67.87	33.19	27.56	-6,801.56	3,120.21	8,425.96	8,330.83	95.13	88.570		
8,800.00	7,801.32	8,054.80	7,928.73	67.74	33.28	25.95	-6,801.20	3,120.57	8,383.09	8,287.77	95.32	87.947		
8,850.00	7,822.06	8,079.18	7,953.10	67.59	33.35	24.47	-6,800.88	3,120.89	8,338.15	8,242.68	95.47	87.337		
8,900.00	7,839.23	8,099.16	7,973.08	67.41	33.41	22.95	-6,800.60	3,121.15	8,291.47	8,195.88	95.59	86.741		
8,950.00	7,852.69	8,114.60	7,988.52	67.22	33.46	21.06	-6,800.39	3,121.35	8,243.41	8,147.74	95.67	86.162		
9,000.00	7,862.35	8,125.41	7,999.33	67.00	33.50	17.78	-6,800.23	3,121.50	8,194.34	8,098.61	95.73	85.601		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	8,131.52	8,005.43	66.78	33.52	6.55	-6,800.14	3,121.58	8,144.63	8,048.88	95.75	85.060		
9,098.65	7,870.00	8,132.91	8,006.83	66.55	33.52	-115.66	-6,800.12	3,121.60	8,096.02	8,000.27	95.75	84.555		
9,100.00	7,870.00	8,132.89	8,006.80	66.55	33.52	-115.66	-6,800.12	3,121.60	8,094.67	7,998.92	95.75	84.542		
9,200.00	7,870.00	8,131.15	8,005.07	66.09	33.52	-115.32	-6,800.15	3,121.57	7,994.72	7,899.01	95.71	83.527		
9,300.00	7,870.00	8,129.42	8,003.34	65.65	33.51	-114.98	-6,800.17	3,121.55	7,894.77	7,799.09	95.68	82.512		
9,400.00	7,870.00	8,127.70	8,001.62	65.24	33.50	-114.64	-6,800.20	3,121.53	7,794.83	7,699.18	95.65	81.496		
9,500.00	7,870.00	8,125.99	7,999.90	64.85	33.50	-114.31	-6,800.22	3,121.51	7,694.89	7,599.28	95.61	80.480		
9,600.00	7,870.00	8,124.28	7,998.20	64.48	33.49	-113.97	-6,800.25	3,121.48	7,594.95	7,499.37	95.58	79.463		
9,700.00	7,870.00	8,122.59	7,996.50	64.13	33.49	-113.63	-6,800.27	3,121.46	7,495.01	7,399.46	95.54	78.445		
9,800.00	7,870.00	8,120.90	7,994.82	63.80	33.48	-113.29	-6,800.30	3,121.44	7,395.07	7,299.56	95.51	77.427		
9,900.00	7,870.00	8,119.22	7,993.14	63.50	33.48	-112.95	-6,800.32	3,121.41	7,295.13	7,199.66	95.47	76.409		
10,000.00	7,870.00	8,117.54	7,991.46	63.22	33.47	-112.61	-6,800.34	3,121.39	7,195.19	7,099.76	95.44	75.390		
10,100.00	7,870.00	8,115.88	7,989.80	62.96	33.47	-112.27	-6,800.37	3,121.37	7,095.26	6,999.86	95.40	74.371		
10,200.00	7,870.00	8,114.22	7,988.14	62.72	33.46	-111.93	-6,800.39	3,121.35	6,995.33	6,899.96	95.37	73.351		
10,300.00	7,870.00	8,112.57	7,986.50	62.50	33.46	-111.59	-6,800.41	3,121.33	6,895.40	6,800.06	95.33	72.331		
10,400.00	7,870.00	8,110.93	7,984.85	62.31	33.45	-111.25	-6,800.44	3,121.30	6,795.47	6,700.17	95.29	71.311		
10,500.00	7,870.00	8,109.30	7,983.22	62.15	33.45	-110.92	-6,800.46	3,121.28	6,695.54	6,600.28	95.26	70.290		
10,600.00	7,870.00	8,107.68	7,981.60	62.01	33.44	-110.58	-6,800.48	3,121.26	6,595.61	6,500.39	95.22	69.268		
10,700.00	7,870.00	8,106.06	7,979.98	61.90	33.44	-110.24	-6,800.51	3,121.24	6,495.69	6,400.51	95.18	68.247		
10,800.00	7,870.00	8,104.45	7,978.37	61.82	33.43	-109.90	-6,800.53	3,121.22	6,395.76	6,300.62	95.14	67.225		
10,900.00	7,870.00	8,102.84	7,976.77	61.78	33.43	-109.56	-6,800.55	3,121.20	6,295.84	6,200.74	95.10	66.202		
11,000.00	7,870.00	8,101.25	7,975.17	61.77	33.42	-109.22	-6,800.57	3,121.18	6,195.93	6,100.87	95.06	65.180		
11,100.00	7,870.00	8,099.66	7,973.58	61.81	33.42	-108.88	-6,800.60	3,121.16	6,096.01	6,000.99	95.02	64.157		
11,200.00	7,870.00	8,098.08	7,972.00	61.90	33.41	-108.54	-6,800.62	3,121.14	5,996.10	5,901.12	94.98	63.133		
11,300.00	7,870.00	8,096.51	7,970.43	62.03	33.41	-108.20	-6,800.64	3,121.11	5,896.19	5,801.26	94.93	62.110		
11,400.00	7,870.00	8,094.94	7,968.87	62.23	33.40	-107.86	-6,800.66	3,121.09	5,796.28	5,701.39	94.89	61.086		
11,500.00	7,870.00	8,093.38	7,967.31	62.50	33.40	-107.52	-6,800.68	3,121.07	5,696.37	5,601.53	94.84	60.062		
11,600.00	7,870.00	8,091.83	7,965.76	62.84	33.39	-107.19	-6,800.70	3,121.05	5,596.47	5,501.68	94.80	59.038		
11,700.00	7,870.00	8,090.29	7,964.21	63.25	33.39	-106.85	-6,800.72	3,121.03	5,496.57	5,401.83	94.75	58.013		
11,800.00	7,870.00	8,088.75	7,962.67	63.76	33.38	-106.51	-6,800.75	3,121.01	5,396.68	5,301.98	94.70	56.988		
11,900.00	7,870.00	8,087.22	7,961.14	64.34	33.38	-106.17	-6,800.77	3,120.99	5,296.79	5,202.14	94.65	55.963		
12,000.00	7,870.00	8,085.70	7,959.62	65.01	33.37	-105.84	-6,800.79	3,120.97	5,196.90	5,102.30	94.60	54.938		
12,100.00	7,870.00	8,084.18	7,958.10	65.77	33.37	-105.50	-6,800.81	3,120.95	5,097.01	5,002.47	94.54	53.913		
12,200.00	7,870.00	8,082.67	7,956.59	66.61	33.36	-105.16	-6,800.83	3,120.93	4,997.13	4,902.65	94.49	52.887		
12,300.00	7,870.00	8,081.17	7,955.09	67.51	33.36	-104.83	-6,800.85	3,120.91	4,897.26	4,802.83	94.43	51.862		
12,400.00	7,870.00	8,079.67	7,953.60	68.49	33.35	-104.49	-6,800.87	3,120.89	4,797.39	4,703.02	94.37	50.836		
12,500.00	7,870.00	8,078.18	7,952.11	69.52	33.35	-104.16	-6,800.89	3,120.88	4,697.52	4,603.21	94.31	49.810		
12,600.00	7,870.00	8,076.70	7,950.62	70.61	33.34	-103.82	-6,800.91	3,120.86	4,597.66	4,503.42	94.25	48.784		
12,700.00	7,870.00	8,075.22	7,949.15	71.75	33.34	-103.49	-6,800.93	3,120.84	4,497.81	4,403.63	94.18	47.758		
12,800.00	7,870.00	8,073.75	7,947.68	72.93	33.34	-103.15	-6,800.95	3,120.82	4,397.96	4,303.85	94.11	46.732		
12,900.00	7,870.00	8,072.29	7,946.22	74.14	33.33	-102.82	-6,800.97	3,120.80	4,298.12	4,204.08	94.04	45.705		
13,000.00	7,870.00	8,070.83	7,944.76	75.39	33.33	-102.49	-6,800.99	3,120.78	4,198.28	4,104.32	93.97	44.679		
13,100.00	7,870.00	8,069.38	7,943.31	76.67	33.32	-102.16	-6,801.01	3,120.76	4,098.45	4,004.57	93.89	43.653		
13,200.00	7,870.00	8,067.94	7,941.87	77.98	33.32	-101.83	-6,801.02	3,120.74	3,998.64	3,904.83	93.81	42.626		
13,300.00	7,870.00	8,066.50	7,940.43	79.31	33.31	-101.50	-6,801.04	3,120.72	3,898.83	3,805.10	93.72	41.600		
13,400.00	7,870.00	8,065.07	7,939.00	80.67	33.31	-101.17	-6,801.06	3,120.71	3,799.02	3,705.39	93.63	40.574		
13,500.00	7,870.00	8,063.65	7,937.58	82.04	33.30	-100.84	-6,801.08	3,120.69	3,699.23	3,605.69	93.54	39.547		
13,600.00	7,870.00	8,062.23	7,936.16	83.43	33.30	-100.51	-6,801.10	3,120.67	3,599.45	3,506.01	93.44	38.521		
13,700.00	7,870.00	8,060.82	7,934.75	84.84	33.29	-100.18	-6,801.12	3,120.65	3,499.69	3,406.35	93.34	37.495		
13,800.00	7,870.00	8,059.41	7,933.34	86.27	33.29	-99.85	-6,801.14	3,120.63	3,399.93	3,306.70	93.23	36.468		
13,900.00	7,870.00	8,058.01	7,931.94	87.71	33.29	-99.53	-6,801.15	3,120.62	3,300.19	3,207.08	93.12	35.442		
14,000.00	7,870.00	8,056.62	7,930.55	89.16	33.28	-99.20	-6,801.17	3,120.60	3,200.47	3,107.48	92.99	34.416		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	8,055.23	7,929.16	90.63	33.28	-98.87	-6,801.19	3,120.58	3,100.76	3,007.90	92.87	33.390		
14,200.00	7,870.00	8,053.85	7,927.78	92.10	33.27	-98.55	-6,801.21	3,120.56	3,001.07	2,908.34	92.73	32.364		
14,300.00	7,870.00	8,052.47	7,926.40	93.59	33.27	-98.23	-6,801.23	3,120.54	2,901.41	2,808.82	92.59	31.338		
14,400.00	7,870.00	8,051.10	7,925.03	95.09	33.26	-97.90	-6,801.24	3,120.53	2,801.76	2,709.33	92.43	30.312		
14,500.00	7,870.00	8,049.74	7,923.67	96.60	33.26	-97.58	-6,801.26	3,120.51	2,702.14	2,609.88	92.27	29.286		
14,600.00	7,870.00	8,048.38	7,922.31	98.11	33.26	-97.26	-6,801.28	3,120.49	2,602.55	2,510.46	92.09	28.260		
14,700.00	7,870.00	8,047.03	7,920.96	99.64	33.25	-96.94	-6,801.30	3,120.47	2,503.00	2,411.09	91.91	27.234		
14,800.00	7,870.00	8,045.68	7,919.61	101.17	33.25	-96.62	-6,801.31	3,120.46	2,403.48	2,311.77	91.71	26.208		
14,900.00	7,870.00	8,044.34	7,918.27	102.71	33.24	-96.30	-6,801.33	3,120.44	2,303.99	2,212.50	91.49	25.182		
15,000.00	7,870.00	8,043.01	7,916.94	104.26	33.24	-95.99	-6,801.35	3,120.42	2,204.56	2,113.30	91.26	24.156		
15,100.00	7,870.00	8,041.68	7,915.61	105.82	33.23	-95.67	-6,801.36	3,120.41	2,105.18	2,014.16	91.01	23.130		
15,200.00	7,870.00	8,040.35	7,914.29	107.38	33.23	-95.35	-6,801.38	3,120.39	2,005.85	1,915.11	90.75	22.104		
15,300.00	7,870.00	8,039.04	7,912.97	108.95	33.23	-95.04	-6,801.40	3,120.37	1,906.60	1,816.14	90.46	21.077		
15,400.00	7,870.00	8,037.72	7,911.66	110.52	33.22	-94.73	-6,801.41	3,120.36	1,807.43	1,717.29	90.15	20.050		
15,500.00	7,870.00	8,036.42	7,910.35	112.10	33.22	-94.41	-6,801.43	3,120.34	1,708.36	1,618.55	89.81	19.022		
15,600.00	7,870.00	8,035.12	7,909.05	113.69	33.21	-94.10	-6,801.45	3,120.32	1,609.40	1,519.95	89.45	17.992		
15,700.00	7,870.00	8,033.82	7,907.75	115.28	33.21	-93.79	-6,801.46	3,120.31	1,510.57	1,421.51	89.06	16.961		
15,800.00	7,870.00	8,032.53	7,906.46	116.87	33.21	-93.48	-6,801.48	3,120.29	1,411.91	1,323.27	88.64	15.928		
15,900.00	7,870.00	8,031.24	7,905.18	118.47	33.20	-93.17	-6,801.50	3,120.27	1,313.45	1,225.25	88.20	14.892		
16,000.00	7,870.00	8,029.96	7,903.90	120.07	33.20	-92.87	-6,801.51	3,120.26	1,215.24	1,127.50	87.74	13.851		
16,100.00	7,870.00	8,028.69	7,902.62	121.68	33.19	-92.56	-6,801.53	3,120.24	1,117.35	1,030.08	87.27	12.803		
16,200.00	7,870.00	8,027.42	7,901.35	123.30	33.19	-92.25	-6,801.54	3,120.23	1,019.86	933.04	86.83	11.746		
16,300.00	7,870.00	8,026.16	7,900.09	124.91	33.19	-91.95	-6,801.56	3,120.21	922.91	836.45	86.46	10.675		
16,400.00	7,870.00	8,024.90	7,898.83	126.53	33.18	-91.65	-6,801.57	3,120.20	826.69	740.42	86.27	9.583		
16,500.00	7,870.00	8,023.64	7,897.58	128.16	33.18	-91.35	-6,801.59	3,120.18	731.48	645.03	86.45	8.461		
16,600.00	7,870.00	8,022.40	7,896.33	129.79	33.17	-91.04	-6,801.61	3,120.16	637.73	550.35	87.38	7.299		
16,700.00	7,870.00	8,021.15	7,895.09	131.42	33.17	-90.74	-6,801.62	3,120.15	546.20	456.45	89.76	6.085		
16,800.00	7,870.00	8,019.91	7,893.85	133.05	33.17	-90.45	-6,801.64	3,120.13	458.23	363.35	94.88	4.830		
16,900.00	7,870.00	8,018.68	7,892.62	134.69	33.16	-90.15	-6,801.65	3,120.12	376.30	271.50	104.80	3.591		
17,000.00	7,870.00	8,017.45	7,891.39	136.33	33.16	-89.85	-6,801.67	3,120.10	305.34	183.40	121.93	2.504		
17,100.00	7,870.00	8,016.23	7,890.17	137.97	33.15	-89.56	-6,801.68	3,120.09	254.67	108.97	145.69	1.748		
17,191.90	7,870.00	8,015.11	7,889.05	139.49	33.15	-89.29	-6,801.69	3,120.07	237.51	73.09	164.42	1.444	Level 3, CC	
17,200.00	7,870.00	8,015.01	7,888.95	139.62	33.15	-89.26	-6,801.70	3,120.07	237.65	72.17	165.48	1.436	Level 3, ES, SF	
17,300.00	7,870.00	8,013.80	7,887.74	141.27	33.15	-88.97	-6,801.71	3,120.06	260.95	92.43	168.52	1.548		
17,400.00	7,870.00	8,012.59	7,886.53	142.92	33.14	-88.68	-6,801.73	3,120.04	315.77	155.90	159.87	1.975		
17,500.00	7,870.00	8,011.39	7,885.32	144.58	33.14	-88.39	-6,801.74	3,120.03	389.00	239.65	149.35	2.605		
17,600.00	7,870.00	8,010.19	7,884.13	146.23	33.14	-88.10	-6,801.75	3,120.01	472.16	331.60	140.56	3.359		
17,700.00	7,870.00	8,009.00	7,882.93	147.89	33.13	-87.81	-6,801.77	3,120.00	560.84	427.04	133.80	4.192		
17,800.00	7,870.00	8,007.81	7,881.74	149.56	33.13	-87.53	-6,801.78	3,119.98	652.80	524.14	128.66	5.074		
17,900.00	7,870.00	8,006.62	7,880.56	151.22	33.12	-87.24	-6,801.80	3,119.97	746.82	622.13	124.69	5.989		
18,000.00	7,870.00	8,005.44	7,879.38	152.89	33.12	-86.96	-6,801.81	3,119.95	842.23	720.64	121.58	6.927		
18,100.00	7,870.00	8,004.27	7,878.21	154.55	33.12	-86.67	-6,801.83	3,119.94	938.58	819.48	119.10	7.881		
18,200.00	7,870.00	8,003.10	7,877.04	156.22	33.11	-86.39	-6,801.84	3,119.92	1,035.63	918.55	117.08	8.845		
18,300.00	7,870.00	8,001.93	7,875.87	157.90	33.11	-86.11	-6,801.85	3,119.91	1,133.19	1,017.78	115.42	9.818		
18,400.00	7,870.00	8,000.77	7,874.71	159.57	33.11	-85.83	-6,801.87	3,119.89	1,231.14	1,117.12	114.02	10.797		
18,500.00	7,870.00	7,999.62	7,873.56	161.25	33.10	-85.56	-6,801.88	3,119.88	1,329.40	1,216.55	112.85	11.781		
18,600.00	7,870.00	7,998.46	7,872.40	162.93	33.10	-85.28	-6,801.89	3,119.87	1,427.89	1,316.05	111.84	12.767		
18,700.00	7,870.00	7,997.32	7,871.26	164.60	33.10	-85.00	-6,801.91	3,119.85	1,526.58	1,415.61	110.97	13.757		
18,797.52	7,870.00	7,996.20	7,870.14	166.24	33.09	-84.74	-6,801.92	3,119.84	1,622.98	1,512.75	110.23	14.723		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.26	-7,147.24	2,149.64	7,463.54					
100.00	100.00	42.89	42.89	0.13	0.08	163.26	-7,147.34	2,150.11	7,464.16	7,463.96	0.20	N/A		
200.00	200.00	83.11	83.09	0.49	0.17	163.25	-7,147.60	2,151.37	7,465.65	7,465.01	0.64	N/A		
300.00	300.00	160.79	160.71	0.85	0.43	163.23	-7,148.35	2,154.26	7,467.65	7,466.37	1.28	5,842.317		
400.00	400.00	227.00	226.87	1.21	0.67	163.21	-7,149.21	2,156.73	7,469.99	7,468.11	1.88	3,981.238		
500.00	500.00	279.54	279.36	1.57	0.86	163.20	-7,150.16	2,158.78	7,472.88	7,470.46	2.43	3,081.292		
600.00	600.00	318.00	317.77	1.93	1.00	163.19	-7,151.09	2,160.38	7,476.49	7,473.57	2.92	2,557.878		
700.00	700.00	373.86	373.54	2.29	1.21	163.17	-7,152.70	2,163.22	7,480.78	7,477.30	3.49	2,146.323		
800.00	800.00	410.00	409.58	2.64	1.35	163.16	-7,153.86	2,165.53	7,485.81	7,481.84	3.98	1,883.123		
900.00	900.00	410.00	409.58	3.00	1.35	163.16	-7,153.86	2,165.53	7,491.99	7,487.66	4.33	1,729.271		
1,000.00	1,000.00	456.38	455.80	3.36	1.53	163.14	-7,155.95	2,168.85	7,498.80	7,493.94	4.86	1,542.789		
1,100.00	1,099.98	502.00	501.18	3.72	1.70	108.34	-7,159.03	2,172.33	7,507.63	7,502.25	5.38	1,394.997		
1,200.00	1,199.84	502.00	501.18	4.07	1.70	108.14	-7,159.03	2,172.33	7,518.20	7,512.47	5.73	1,311.619		
1,300.00	1,299.45	502.00	501.18	4.43	1.70	107.89	-7,159.03	2,172.33	7,531.16	7,525.08	6.09	1,237.551		
1,400.00	1,398.70	549.61	548.44	4.80	1.89	107.63	-7,163.13	2,176.37	7,545.92	7,539.30	6.63	1,138.973		
1,500.00	1,497.47	594.00	592.40	5.18	2.08	107.33	-7,167.56	2,180.67	7,562.87	7,555.71	7.16	1,055.865		
1,600.00	1,595.62	594.00	592.40	5.57	2.08	106.97	-7,167.56	2,180.67	7,581.64	7,574.09	7.55	1,004.677		
1,700.00	1,693.06	636.89	634.76	6.00	2.26	106.61	-7,172.25	2,185.45	7,602.31	7,594.19	8.12	936.378		
1,800.00	1,789.64	686.00	683.12	6.45	2.47	106.23	-7,177.93	2,191.84	7,624.86	7,616.12	8.74	872.406		
1,900.00	1,885.27	717.55	714.11	6.94	2.62	105.79	-7,181.68	2,196.43	7,649.04	7,639.72	9.33	820.064		
2,000.00	1,979.82	778.00	773.35	7.47	2.90	105.38	-7,188.75	2,206.14	7,674.68	7,664.61	10.07	762.251		
2,100.00	2,073.17	809.61	804.26	8.05	3.05	104.88	-7,192.53	2,211.61	7,701.87	7,691.13	10.73	717.605		
2,200.00	2,165.21	855.00	848.53	8.67	3.27	104.39	-7,198.38	2,219.74	7,730.80	7,719.30	11.50	672.353		
2,300.00	2,255.84	855.00	848.53	9.35	3.27	103.77	-7,198.38	2,219.74	7,761.32	7,749.21	12.11	641.001		
2,400.00	2,344.94	905.38	897.53	10.09	3.53	103.23	-7,205.35	2,229.12	7,793.37	7,780.37	13.00	599.660		
2,500.00	2,432.39	942.00	933.07	10.89	3.72	102.64	-7,210.69	2,236.16	7,826.96	7,813.10	13.87	564.368		
2,519.29	2,449.07	942.00	933.07	11.05	3.72	102.50	-7,210.69	2,236.16	7,833.62	7,819.61	14.01	559.140		
2,600.00	2,518.69	942.00	933.07	11.74	3.72	102.50	-7,210.69	2,236.16	7,861.96	7,847.35	14.61	538.115		
2,700.00	2,604.95	995.51	984.86	12.62	4.01	102.65	-7,219.03	2,246.69	7,897.51	7,881.88	15.62	505.539		
2,800.00	2,691.22	1,036.00	1,023.95	13.52	4.23	102.77	-7,225.82	2,254.80	7,934.02	7,917.43	16.59	478.256		
2,900.00	2,777.48	1,061.40	1,048.43	14.43	4.37	102.84	-7,230.24	2,259.92	7,971.22	7,953.73	17.49	455.753		
3,000.00	2,863.75	3,000.00	1,143.90	15.35	15.40	103.12	-7,247.76	2,279.61	8,008.91	7,981.65	27.26	293.810		
3,100.00	2,950.01	1,235.30	1,216.14	16.28	5.35	103.33	-7,260.79	2,294.26	8,046.44	8,026.50	19.94	403.627		
3,200.00	3,036.27	1,289.00	1,267.78	17.22	5.66	103.48	-7,270.50	2,305.33	8,084.74	8,063.73	21.00	384.950		
3,300.00	3,122.54	1,289.00	1,267.78	18.17	5.66	103.48	-7,270.50	2,305.33	8,123.56	8,101.77	21.79	372.817		
3,400.00	3,208.80	1,350.17	1,326.43	19.13	6.02	103.64	-7,281.97	2,318.44	8,163.05	8,140.15	22.91	356.369		
3,500.00	3,295.07	1,405.39	1,379.28	20.09	6.35	103.79	-7,292.52	2,330.42	8,203.02	8,179.02	23.99	341.878		
3,600.00	3,381.33	1,463.00	1,434.36	21.05	6.70	103.94	-7,303.69	2,343.12	8,243.41	8,218.31	25.10	328.453		
3,700.00	3,467.59	1,493.64	1,463.60	22.02	6.89	104.02	-7,309.76	2,349.95	8,284.36	8,258.30	26.05	318.002		
3,800.00	3,553.86	1,524.40	1,492.91	22.99	7.09	104.10	-7,316.05	2,356.85	8,325.98	8,298.98	27.00	308.341		
3,900.00	3,640.12	1,550.00	1,517.26	23.97	7.25	104.17	-7,321.43	2,362.63	8,368.29	8,340.37	27.92	299.722		
4,000.00	3,726.38	1,602.29	1,566.91	24.95	7.58	104.30	-7,332.66	2,374.62	8,411.16	8,382.16	29.00	290.085		
4,100.00	3,812.65	1,638.00	1,600.74	25.93	7.82	104.39	-7,340.45	2,382.97	8,454.55	8,424.58	29.97	282.110		
4,200.00	3,898.91	1,672.22	1,633.09	26.91	8.04	104.47	-7,348.10	2,391.09	8,498.56	8,467.62	30.93	274.739		
4,300.00	3,985.18	1,725.00	1,682.82	27.90	8.40	104.60	-7,360.37	2,403.81	8,543.34	8,511.33	32.01	266.898		
4,400.00	4,071.44	2,204.45	2,138.03	28.88	11.53	105.76	-7,461.06	2,515.36	8,586.56	8,550.83	35.74	240.270		
4,500.00	4,157.70	2,249.00	2,180.65	29.87	11.81	105.87	-7,469.52	2,525.18	8,627.69	8,590.91	36.78	234.601		
4,600.00	4,243.97	2,298.77	2,228.17	30.86	12.13	105.99	-7,479.14	2,536.45	8,669.30	8,631.45	37.85	229.048		
4,700.00	4,330.23	2,336.00	2,263.60	31.85	12.36	106.07	-7,486.50	2,545.18	8,711.50	8,672.65	38.84	224.288		
4,800.00	4,416.49	2,598.00	2,513.95	32.84	14.02	106.69	-7,537.71	2,602.91	8,753.67	8,712.45	41.22	212.360		
4,900.00	4,502.76	2,651.31	2,565.14	33.84	14.35	106.82	-7,547.57	2,614.05	8,794.60	8,752.29	42.31	207.871		
5,000.00	4,589.02	2,685.00	2,597.41	34.83	14.55	106.90	-7,554.01	2,621.28	8,836.19	8,792.92	43.27	204.204		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	2,734.63	2,644.83	35.82	14.87	107.02	-7,563.68	2,632.30	8,878.31	8,833.97	44.34	200.245		
5,200.00	4,761.55	2,951.14	2,851.10	36.82	16.27	107.48	-7,604.33	2,684.00	8,920.36	8,873.86	46.50	191.836		
5,300.00	4,847.81	2,994.16	2,892.14	37.82	16.55	107.57	-7,612.17	2,694.24	8,961.79	8,914.26	47.53	188.548		
5,400.00	4,934.08	3,035.00	2,931.12	38.81	16.81	107.66	-7,619.82	2,703.71	9,003.71	8,955.16	48.54	185.480		
5,500.00	5,020.34	3,071.64	2,966.07	39.81	17.04	107.74	-7,626.89	2,712.13	9,046.16	8,996.64	49.52	182.673		
5,600.00	5,106.60	3,122.00	3,014.01	40.81	17.37	107.85	-7,636.97	2,723.85	9,089.26	9,038.67	50.59	179.679		
5,700.00	5,192.87	3,122.00	3,014.01	41.81	17.37	107.85	-7,636.97	2,723.85	9,132.88	9,081.57	51.31	178.002		
5,800.00	5,279.13	3,168.57	3,058.24	42.81	17.68	107.95	-7,646.68	2,734.74	9,177.07	9,124.73	52.34	175.339		
5,900.00	5,365.40	3,209.00	3,096.56	43.81	17.95	108.03	-7,655.43	2,744.17	9,221.88	9,168.56	53.32	172.942		
6,000.00	5,451.66	3,209.00	3,096.56	44.81	17.95	108.03	-7,655.43	2,744.17	9,267.32	9,213.30	54.02	171.551		
6,100.00	5,537.92	3,247.73	3,133.18	45.81	18.22	108.11	-7,664.17	2,753.25	9,313.30	9,258.32	54.98	169.383		
6,200.00	5,624.19	3,296.00	3,178.64	46.81	18.55	108.22	-7,675.64	2,764.71	9,360.12	9,304.11	56.01	167.114		
6,300.00	5,710.45	3,628.03	3,491.53	47.81	20.86	108.87	-7,749.00	2,848.06	9,406.32	9,347.20	59.12	159.092		
6,400.00	5,796.72	3,672.44	3,533.44	48.81	21.17	108.95	-7,758.18	2,859.52	9,451.09	9,390.95	60.14	157.141		
6,500.00	5,882.98	3,705.85	3,564.96	49.81	21.40	109.01	-7,765.30	2,868.03	9,496.39	9,435.32	61.08	155.481		
6,600.00	5,969.24	3,733.00	3,590.55	50.82	21.59	109.07	-7,771.23	2,874.87	9,542.24	9,480.28	61.96	154.010		
6,700.00	6,055.51	3,780.18	3,635.01	51.82	21.92	109.16	-7,781.78	2,886.61	9,588.55	9,525.57	62.98	152.245		
6,800.00	6,141.77	6,497.44	6,288.11	52.82	33.90	115.67	-8,088.51	3,198.96	9,635.26	9,558.38	76.88	125.328		
6,900.00	6,228.03	6,610.21	6,400.86	53.83	34.12	115.99	-8,087.05	3,197.62	9,658.47	9,580.44	78.02	123.791		
7,000.00	6,314.30	6,724.46	6,515.09	54.83	34.36	116.31	-8,085.21	3,196.53	9,681.63	9,602.47	79.17	122.296		
7,100.00	6,400.56	6,793.41	6,584.03	55.83	34.50	116.50	-8,084.09	3,196.04	9,705.00	9,624.79	80.21	121.002		
7,200.00	6,486.83	6,870.25	6,660.86	56.84	34.66	116.72	-8,082.88	3,195.66	9,728.65	9,647.39	81.26	119.725		
7,300.00	6,573.09	6,934.91	6,725.52	57.84	34.81	116.89	-8,081.94	3,195.53	9,752.63	9,670.35	82.29	118.522		
7,400.00	6,659.35	6,998.74	6,789.34	58.84	34.95	117.07	-8,081.15	3,195.66	9,777.02	9,693.71	83.31	117.361		
7,500.00	6,745.62	7,050.00	6,840.60	59.85	35.07	117.20	-8,080.61	3,195.94	9,801.80	9,717.52	84.29	116.287		
7,600.00	6,831.88	7,118.75	6,909.34	60.85	35.24	117.39	-8,080.04	3,196.60	9,827.00	9,741.67	85.33	115.167		
7,700.00	6,918.14	7,176.22	6,966.81	61.86	35.39	117.54	-8,079.74	3,197.40	9,852.66	9,766.33	86.33	114.128		
7,800.00	7,004.41	7,235.25	7,025.82	62.86	35.54	117.69	-8,079.59	3,198.45	9,878.75	9,791.41	87.33	113.116		
7,900.00	7,090.67	7,302.44	7,093.00	63.87	35.72	117.86	-8,079.56	3,199.88	9,905.22	9,816.85	88.36	112.095		
8,000.00	7,176.94	7,369.75	7,160.28	64.87	35.90	118.04	-8,079.65	3,201.54	9,932.03	9,842.64	89.39	111.106		
8,027.52	7,200.68	7,388.29	7,178.82	65.15	35.95	118.08	-8,079.70	3,202.03	9,939.47	9,849.80	89.67	110.839		
8,050.00	7,220.18	7,400.00	7,190.53	65.37	35.99	114.75	-8,079.73	3,202.35	9,945.15	9,855.25	89.89	110.632		
8,100.00	7,264.25	7,433.62	7,224.13	65.85	36.08	106.38	-8,079.86	3,203.34	9,954.75	9,864.34	90.41	110.105		
8,150.00	7,308.99	7,464.66	7,255.15	66.28	36.17	96.80	-8,080.01	3,204.34	9,960.17	9,869.25	90.92	109.553		
8,200.00	7,354.07	7,496.02	7,286.49	66.67	36.27	86.52	-8,080.21	3,205.45	9,961.34	9,869.93	91.41	108.970		
8,250.00	7,399.14	7,527.47	7,317.92	67.02	36.36	76.23	-8,080.45	3,206.66	9,958.27	9,866.37	91.90	108.363		
8,300.00	7,443.85	7,574.00	7,364.41	67.32	36.49	66.67	-8,080.88	3,208.61	9,950.98	9,858.57	92.41	107.679		
8,350.00	7,487.88	7,590.73	7,381.12	67.56	36.54	58.19	-8,081.06	3,209.37	9,939.49	9,846.68	92.81	107.099		
8,400.00	7,530.87	7,623.00	7,413.35	67.75	36.65	51.06	-8,081.42	3,210.92	9,923.91	9,830.68	93.23	106.443		
8,450.00	7,572.51	7,654.42	7,444.72	67.90	36.74	45.14	-8,081.81	3,212.54	9,904.33	9,810.70	93.63	105.784		
8,500.00	7,612.48	7,684.73	7,474.99	68.00	36.84	40.28	-8,082.21	3,214.21	9,880.90	9,786.90	93.99	105.123		
8,550.00	7,650.47	7,713.70	7,503.91	68.05	36.93	36.29	-8,082.62	3,215.91	9,853.78	9,759.45	94.33	104.463		
8,600.00	7,686.20	7,749.00	7,539.13	68.06	37.04	32.99	-8,083.15	3,218.11	9,823.17	9,728.51	94.66	103.774		
8,650.00	7,719.39	7,779.98	7,570.04	68.03	37.14	30.22	-8,083.63	3,220.07	9,789.27	9,694.32	94.95	103.100		
8,700.00	7,749.79	7,820.94	7,610.93	67.97	37.27	27.89	-8,084.23	3,222.55	9,752.28	9,657.03	95.25	102.386		
8,750.00	7,777.17	7,857.80	7,647.72	67.87	37.39	25.84	-8,084.74	3,224.66	9,712.50	9,616.99	95.51	101.690		
8,800.00	7,801.32	7,890.29	7,680.16	67.74	37.49	23.96	-8,085.17	3,226.44	9,670.23	9,574.50	95.73	101.015		
8,850.00	7,822.06	7,918.21	7,708.04	67.59	37.58	22.11	-8,085.52	3,227.90	9,625.79	9,529.88	95.91	100.363		
8,900.00	7,839.23	7,941.38	7,731.18	67.41	37.65	20.05	-8,085.80	3,229.07	9,579.53	9,483.48	96.05	99.735		
8,950.00	7,852.69	7,942.54	7,732.34	67.22	37.66	17.21	-8,085.83	3,229.13	9,531.82	9,435.74	96.09	99.201		
9,000.00	7,862.35	7,949.70	7,739.49	67.00	37.68	12.39	-8,085.92	3,229.48	9,483.01	9,386.88	96.13	98.651		
9,050.00	7,868.14	7,954.19	7,743.97	66.78	37.69	-0.46	-8,085.98	3,229.71	9,433.47	9,337.32	96.14	98.120		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	7,955.94	7,745.72	66.55	37.70	-67.41	-8,086.01	3,229.79	9,384.91	9,288.78	96.13	97.624		
9,100.00	7,870.00	7,955.95	7,745.73	66.55	37.70	-67.41	-8,086.01	3,229.79	9,383.56	9,287.43	96.13	97.611		
9,200.00	7,870.00	7,956.90	7,746.67	66.09	37.70	-67.54	-8,086.02	3,229.84	9,283.64	9,187.55	96.09	96.613		
9,300.00	7,870.00	7,957.84	7,747.62	65.65	37.70	-67.68	-8,086.03	3,229.89	9,183.73	9,087.68	96.05	95.616		
9,400.00	7,870.00	7,958.80	7,748.58	65.24	37.71	-67.81	-8,086.05	3,229.93	9,083.82	8,987.81	96.01	94.617		
9,500.00	7,870.00	7,959.76	7,749.54	64.85	37.71	-67.95	-8,086.06	3,229.98	8,983.90	8,887.94	95.96	93.619		
9,600.00	7,870.00	7,960.73	7,750.50	64.48	37.71	-68.09	-8,086.07	3,230.03	8,883.99	8,788.07	95.92	92.620		
9,700.00	7,870.00	7,961.71	7,751.48	64.13	37.72	-68.23	-8,086.09	3,230.08	8,784.09	8,688.21	95.88	91.620		
9,800.00	7,870.00	7,962.69	7,752.46	63.80	37.72	-68.37	-8,086.10	3,230.12	8,684.18	8,588.35	95.83	90.620		
9,900.00	7,870.00	7,963.68	7,753.45	63.50	37.72	-68.51	-8,086.12	3,230.17	8,584.28	8,488.49	95.79	89.620		
10,000.00	7,870.00	7,964.68	7,754.44	63.22	37.73	-68.65	-8,086.13	3,230.22	8,484.37	8,388.63	95.74	88.619		
10,100.00	7,870.00	7,965.68	7,755.45	62.96	37.73	-68.80	-8,086.15	3,230.27	8,384.47	8,288.78	95.69	87.618		
10,200.00	7,870.00	7,966.69	7,756.46	62.72	37.73	-68.94	-8,086.16	3,230.32	8,284.58	8,188.93	95.65	86.616		
10,300.00	7,870.00	7,967.71	7,757.48	62.50	37.74	-69.09	-8,086.17	3,230.37	8,184.68	8,089.08	95.60	85.614		
10,400.00	7,870.00	7,968.74	7,758.50	62.31	37.74	-69.24	-8,086.19	3,230.42	8,084.79	7,989.24	95.55	84.611		
10,500.00	7,870.00	7,969.77	7,759.53	62.15	37.74	-69.39	-8,086.20	3,230.47	7,984.90	7,889.40	95.50	83.609		
10,600.00	7,870.00	7,970.81	7,760.57	62.01	37.75	-69.54	-8,086.22	3,230.52	7,885.01	7,789.56	95.45	82.606		
10,700.00	7,870.00	7,971.86	7,761.62	61.90	37.75	-69.69	-8,086.24	3,230.57	7,785.13	7,689.72	95.40	81.602		
10,800.00	7,870.00	7,972.92	7,762.68	61.82	37.75	-69.85	-8,086.25	3,230.62	7,685.24	7,589.89	95.35	80.599		
10,900.00	7,870.00	7,973.98	7,763.74	61.78	37.76	-70.00	-8,086.27	3,230.67	7,585.37	7,490.07	95.30	79.594		
11,000.00	7,870.00	7,975.06	7,764.81	61.77	37.76	-70.16	-8,086.28	3,230.73	7,485.49	7,390.24	95.25	78.590		
11,100.00	7,870.00	7,976.14	7,765.89	61.81	37.76	-70.32	-8,086.30	3,230.78	7,385.62	7,290.42	95.19	77.586		
11,200.00	7,870.00	7,977.23	7,766.98	61.90	37.77	-70.48	-8,086.31	3,230.83	7,285.75	7,190.61	95.14	76.581		
11,300.00	7,870.00	7,978.33	7,768.08	62.03	37.77	-70.64	-8,086.33	3,230.88	7,185.88	7,090.80	95.08	75.576		
11,400.00	7,870.00	7,979.43	7,769.18	62.23	37.77	-70.80	-8,086.35	3,230.94	7,086.02	6,990.99	95.02	74.570		
11,500.00	7,870.00	7,980.55	7,770.30	62.50	37.78	-70.96	-8,086.36	3,230.99	6,986.16	6,891.19	94.97	73.565		
11,600.00	7,870.00	7,981.67	7,771.42	62.84	37.78	-71.13	-8,086.38	3,231.04	6,886.30	6,791.40	94.91	72.559		
11,700.00	7,870.00	7,982.80	7,772.55	63.25	37.78	-71.30	-8,086.40	3,231.10	6,786.45	6,691.61	94.85	71.553		
11,800.00	7,870.00	7,983.94	7,773.69	63.76	37.79	-71.47	-8,086.42	3,231.15	6,686.60	6,591.82	94.78	70.547		
11,900.00	7,870.00	7,985.09	7,774.84	64.34	37.79	-71.64	-8,086.43	3,231.21	6,586.76	6,492.04	94.72	69.540		
12,000.00	7,870.00	7,986.25	7,775.99	65.01	37.79	-71.81	-8,086.45	3,231.26	6,486.92	6,392.27	94.65	68.534		
12,100.00	7,870.00	7,987.42	7,777.16	65.77	37.80	-71.98	-8,086.47	3,231.32	6,387.09	6,292.50	94.59	67.527		
12,200.00	7,870.00	7,988.60	7,778.33	66.61	37.80	-72.16	-8,086.49	3,231.37	6,287.26	6,192.75	94.52	66.520		
12,300.00	7,870.00	7,989.78	7,779.52	67.51	37.80	-72.33	-8,086.51	3,231.43	6,187.44	6,092.99	94.45	65.514		
12,400.00	7,870.00	7,990.98	7,780.71	68.49	37.81	-72.51	-8,086.53	3,231.49	6,087.62	5,993.25	94.37	64.506		
12,500.00	7,870.00	7,992.18	7,781.92	69.52	37.81	-72.69	-8,086.54	3,231.54	5,987.81	5,893.51	94.30	63.499		
12,600.00	7,870.00	7,993.40	7,783.13	70.61	37.82	-72.88	-8,086.56	3,231.60	5,888.00	5,793.78	94.22	62.492		
12,700.00	7,870.00	7,994.62	7,784.35	71.75	37.82	-73.06	-8,086.58	3,231.66	5,788.20	5,694.06	94.14	61.485		
12,800.00	7,870.00	7,995.86	7,785.58	72.93	37.82	-73.25	-8,086.60	3,231.72	5,688.41	5,594.35	94.06	60.477		
12,900.00	7,870.00	7,997.10	7,786.83	74.14	37.83	-73.43	-8,086.62	3,231.78	5,588.63	5,494.65	93.97	59.470		
13,000.00	7,870.00	7,998.35	7,788.08	75.39	37.83	-73.62	-8,086.64	3,231.84	5,488.85	5,394.96	93.89	58.462		
13,100.00	7,870.00	7,999.62	7,789.34	76.67	37.84	-73.81	-8,086.66	3,231.90	5,389.08	5,295.28	93.80	57.455		
13,200.00	7,870.00	8,000.89	7,790.62	77.98	37.84	-74.01	-8,086.68	3,231.96	5,289.32	5,195.61	93.70	56.447		
13,300.00	7,870.00	8,002.18	7,791.90	79.31	37.84	-74.20	-8,086.70	3,232.02	5,189.56	5,095.95	93.61	55.440		
13,400.00	7,870.00	8,003.47	7,793.19	80.67	37.85	-74.40	-8,086.73	3,232.08	5,089.82	4,996.31	93.51	54.432		
13,500.00	7,870.00	8,004.78	7,794.50	82.04	37.85	-74.60	-8,086.75	3,232.14	4,990.08	4,896.68	93.40	53.424		
13,600.00	7,870.00	8,006.10	7,795.82	83.43	37.86	-74.80	-8,086.77	3,232.20	4,890.36	4,797.06	93.30	52.417		
13,700.00	7,870.00	8,007.43	7,797.14	84.84	37.86	-75.00	-8,086.79	3,232.26	4,790.65	4,697.46	93.19	51.409		
13,800.00	7,870.00	8,008.77	7,798.48	86.27	37.86	-75.21	-8,086.81	3,232.32	4,690.95	4,597.87	93.07	50.401		
13,900.00	7,870.00	8,010.12	7,799.83	87.71	37.87	-75.41	-8,086.84	3,232.39	4,591.26	4,498.31	92.95	49.394		
14,000.00	7,870.00	8,011.48	7,801.19	89.16	37.87	-75.62	-8,086.86	3,232.45	4,491.58	4,398.76	92.83	48.386		
14,100.00	7,870.00	8,012.86	7,802.56	90.63	37.88	-75.83	-8,086.88	3,232.51	4,391.92	4,299.22	92.70	47.379		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,014.24	7,803.95	92.10	37.88	-76.04	-8,086.90	3,232.58	4,292.28	4,199.71	92.56	46.371		
14,300.00	7,870.00	8,015.64	7,805.34	93.59	37.89	-76.26	-8,086.93	3,232.64	4,192.65	4,100.22	92.42	45.364		
14,400.00	7,870.00	8,017.05	7,806.75	95.09	37.89	-76.48	-8,086.95	3,232.71	4,093.04	4,000.76	92.28	44.356		
14,500.00	7,870.00	8,018.47	7,808.17	96.60	37.89	-76.70	-8,086.98	3,232.77	3,993.44	3,901.32	92.12	43.349		
14,600.00	7,870.00	8,019.91	7,809.61	98.11	37.90	-76.92	-8,087.00	3,232.84	3,893.87	3,801.91	91.96	42.341		
14,700.00	7,870.00	8,021.35	7,811.05	99.64	37.90	-77.14	-8,087.03	3,232.91	3,794.32	3,702.52	91.80	41.334		
14,800.00	7,870.00	8,022.81	7,812.51	101.17	37.91	-77.37	-8,087.05	3,232.97	3,694.79	3,603.17	91.62	40.326		
14,900.00	7,870.00	8,024.28	7,813.98	102.71	37.91	-77.60	-8,087.08	3,233.04	3,595.29	3,503.85	91.44	39.319		
15,000.00	7,870.00	8,025.77	7,815.46	104.26	37.92	-77.83	-8,087.10	3,233.11	3,495.82	3,404.57	91.25	38.311		
15,100.00	7,870.00	8,027.27	7,816.96	105.82	37.92	-78.06	-8,087.13	3,233.18	3,396.37	3,305.32	91.05	37.303		
15,200.00	7,870.00	8,028.78	7,818.47	107.38	37.93	-78.30	-8,087.16	3,233.25	3,296.96	3,206.12	90.84	36.295		
15,300.00	7,870.00	8,030.31	7,819.99	108.95	37.93	-78.54	-8,087.18	3,233.32	3,197.59	3,106.97	90.62	35.287		
15,400.00	7,870.00	8,031.84	7,821.53	110.52	37.94	-78.78	-8,087.21	3,233.39	3,098.25	3,007.87	90.39	34.278		
15,500.00	7,870.00	8,033.40	7,823.08	112.10	37.94	-79.02	-8,087.24	3,233.46	2,998.96	2,908.82	90.14	33.269		
15,600.00	7,870.00	8,034.97	7,824.65	113.69	37.95	-79.27	-8,087.27	3,233.53	2,899.71	2,809.83	89.89	32.260		
15,700.00	7,870.00	8,036.55	7,826.23	115.28	37.95	-79.51	-8,087.29	3,233.60	2,800.52	2,710.90	89.62	31.250		
15,800.00	7,870.00	8,038.14	7,827.82	116.87	37.96	-79.76	-8,087.32	3,233.67	2,701.39	2,612.05	89.34	30.239		
15,900.00	7,870.00	8,039.75	7,829.43	118.47	37.96	-80.02	-8,087.35	3,233.74	2,602.32	2,513.28	89.04	29.227		
16,000.00	7,870.00	8,041.38	7,831.05	120.07	37.97	-80.27	-8,087.38	3,233.82	2,503.32	2,414.60	88.73	28.213		
16,100.00	7,870.00	8,043.02	7,832.69	121.68	37.97	-80.53	-8,087.41	3,233.89	2,404.41	2,316.01	88.40	27.199		
16,200.00	7,870.00	8,044.68	7,834.35	123.30	37.98	-80.79	-8,087.44	3,233.96	2,305.59	2,217.53	88.06	26.182		
16,300.00	7,870.00	8,046.35	7,836.02	124.91	37.98	-81.06	-8,087.47	3,234.04	2,206.87	2,119.17	87.71	25.162		
16,400.00	7,870.00	8,048.04	7,837.70	126.53	37.99	-81.32	-8,087.50	3,234.11	2,108.28	2,020.94	87.34	24.139		
16,500.00	7,870.00	8,049.74	7,839.40	128.16	37.99	-81.59	-8,087.54	3,234.19	2,009.82	1,922.86	86.96	23.112		
16,600.00	7,870.00	8,051.46	7,841.12	129.79	38.00	-81.87	-8,087.57	3,234.27	1,911.52	1,824.94	86.57	22.080		
16,700.00	7,870.00	8,053.19	7,842.86	131.42	38.00	-82.14	-8,087.60	3,234.34	1,813.40	1,727.22	86.18	21.042		
16,800.00	7,870.00	8,054.95	7,844.61	133.05	38.01	-82.42	-8,087.63	3,234.42	1,715.50	1,629.70	85.80	19.995		
16,900.00	7,870.00	8,056.72	7,846.37	134.69	38.01	-82.70	-8,087.67	3,234.50	1,617.85	1,532.42	85.43	18.938		
17,000.00	7,870.00	8,058.50	7,848.16	136.33	38.02	-82.99	-8,087.70	3,234.58	1,520.51	1,435.40	85.10	17.867		
17,100.00	7,870.00	8,060.31	7,849.96	137.97	38.03	-83.27	-8,087.74	3,234.66	1,423.53	1,338.69	84.84	16.779		
17,200.00	7,870.00	8,062.13	7,851.78	139.62	38.03	-83.56	-8,087.77	3,234.74	1,327.00	1,242.31	84.69	15.669		
17,300.00	7,870.00	8,063.97	7,853.62	141.27	38.04	-83.86	-8,087.81	3,234.82	1,231.02	1,146.31	84.71	14.532		
17,400.00	7,870.00	8,065.83	7,855.47	142.92	38.04	-84.15	-8,087.84	3,234.90	1,135.73	1,050.72	85.00	13.361		
17,500.00	7,870.00	8,067.70	7,857.35	144.58	38.05	-84.45	-8,087.88	3,234.98	1,041.32	955.61	85.71	12.149		
17,600.00	7,870.00	8,069.60	7,859.24	146.23	38.06	-84.75	-8,087.92	3,235.06	948.05	861.00	87.05	10.891		
17,700.00	7,870.00	8,071.51	7,861.15	147.89	38.06	-85.06	-8,087.96	3,235.15	856.30	766.98	89.32	9.587		
17,800.00	7,870.00	8,073.45	7,863.08	149.56	38.07	-85.37	-8,087.99	3,235.23	766.61	673.63	92.98	8.245		
17,900.00	7,870.00	8,075.40	7,865.04	151.22	38.07	-85.68	-8,088.03	3,235.32	679.80	581.17	98.63	6.893		
18,000.00	7,870.00	8,077.37	7,867.01	152.89	38.08	-86.00	-8,088.07	3,235.40	597.12	490.06	107.06	5.577		
18,100.00	7,870.00	8,079.37	7,869.00	154.55	38.09	-86.32	-8,088.11	3,235.49	520.56	401.35	119.21	4.367		
18,200.00	7,870.00	8,081.38	7,871.01	156.22	38.09	-86.64	-8,088.15	3,235.57	453.20	317.39	135.81	3.337		
18,300.00	7,870.00	8,083.42	7,873.04	157.90	38.10	-86.96	-8,088.19	3,235.66	399.74	243.23	156.52	2.554		
18,400.00	7,870.00	8,085.47	7,875.09	159.57	38.11	-87.29	-8,088.24	3,235.75	366.32	188.26	178.06	2.057		
18,478.07	7,870.00	8,087.09	7,876.71	160.88	38.11	-87.55	-8,088.27	3,235.82	357.91	166.69	191.21	1.872 CC		
18,500.00	7,870.00	8,087.55	7,877.17	161.25	38.11	-87.63	-8,088.28	3,235.84	358.58	164.75	193.83	1.850 ES, SF		
18,600.00	7,870.00	8,089.65	7,879.27	162.93	38.12	-87.96	-8,088.32	3,235.93	378.10	179.32	198.78	1.902		
18,700.00	7,870.00	8,091.77	7,881.39	164.60	38.12	-88.30	-8,088.37	3,236.02	421.10	226.72	194.38	2.166		
18,797.52	7,870.00	8,093.86	7,883.47	166.24	38.13	-88.64	-8,088.41	3,236.10	479.68	293.92	185.77	2.582		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	11.27	11.27	0.00	0.01	163.36	-7,164.01	2,141.81	7,477.33					
100.00	100.00	64.11	64.11	0.13	0.13	163.35	-7,164.18	2,142.08	7,477.79	7,477.53	0.27	N/A		
200.00	200.00	119.55	119.54	0.49	0.33	163.35	-7,164.56	2,142.90	7,478.87	7,478.04	0.82	9,091.815		
300.00	300.00	178.51	178.49	0.85	0.54	163.34	-7,165.15	2,144.32	7,480.52	7,479.12	1.39	5,368.797		
400.00	400.00	227.00	226.94	1.21	0.72	163.33	-7,165.78	2,145.81	7,482.72	7,480.79	1.93	3,884.032		
500.00	500.00	264.97	264.87	1.57	0.86	163.32	-7,166.46	2,147.38	7,485.69	7,483.26	2.42	3,088.675		
600.00	600.00	318.00	317.79	1.93	1.05	163.30	-7,167.83	2,150.55	7,489.67	7,486.70	2.97	2,517.912		
700.00	700.00	318.00	317.79	2.29	1.05	163.30	-7,167.83	2,150.55	7,494.40	7,491.07	3.33	2,248.549		
800.00	800.00	318.00	317.79	2.64	1.05	163.30	-7,167.83	2,150.55	7,500.46	7,496.77	3.69	2,031.879		
900.00	900.00	374.01	373.58	3.00	1.27	163.27	-7,170.11	2,154.89	7,506.98	7,502.72	4.26	1,764.043		
1,000.00	1,000.00	410.00	409.37	3.36	1.41	163.25	-7,172.16	2,158.09	7,514.83	7,510.08	4.74	1,583.902		
1,100.00	1,099.98	410.00	409.37	3.72	1.41	108.45	-7,172.16	2,158.09	7,524.19	7,519.10	5.10	1,476.347		
1,200.00	1,199.84	453.84	452.91	4.07	1.58	108.23	-7,175.29	2,162.15	7,535.54	7,529.93	5.61	1,342.826		
1,300.00	1,299.45	502.00	500.69	4.43	1.77	107.98	-7,179.49	2,166.49	7,549.02	7,542.87	6.15	1,228.355		
1,400.00	1,398.70	502.00	500.69	4.80	1.77	107.69	-7,179.49	2,166.49	7,564.34	7,557.83	6.50	1,162.953		
1,500.00	1,497.47	541.46	539.79	5.18	1.94	107.38	-7,183.53	2,169.94	7,581.65	7,574.63	7.02	1,079.559		
1,600.00	1,595.62	594.00	591.78	5.57	2.16	107.06	-7,189.74	2,174.35	7,601.03	7,593.42	7.60	999.481		
1,700.00	1,693.06	594.00	591.78	6.00	2.16	106.65	-7,189.74	2,174.35	7,622.06	7,614.06	8.01	951.918		
1,800.00	1,789.64	639.85	637.08	6.45	2.35	106.27	-7,195.84	2,177.88	7,644.98	7,636.38	8.61	888.195		
1,900.00	1,885.27	686.00	682.64	6.94	2.55	105.88	-7,202.53	2,180.98	7,669.63	7,660.40	9.24	830.328		
2,000.00	1,979.82	686.00	682.64	7.47	2.55	105.35	-7,202.53	2,180.98	7,696.08	7,686.36	9.72	791.486		
2,100.00	2,073.17	722.42	718.52	8.05	2.71	104.88	-7,208.36	2,183.14	7,724.24	7,713.85	10.39	743.717		
2,200.00	2,165.21	742.15	737.92	8.67	2.79	104.32	-7,211.80	2,184.23	7,754.28	7,743.26	11.02	703.375		
2,300.00	2,255.84	778.00	773.08	9.35	2.95	103.79	-7,218.55	2,186.04	7,786.17	7,774.40	11.77	661.548		
2,400.00	2,344.94	778.00	773.08	10.09	2.95	103.10	-7,218.55	2,186.04	7,819.63	7,807.21	12.42	629.571		
2,500.00	2,432.39	778.00	773.08	10.89	2.95	102.36	-7,218.55	2,186.04	7,854.95	7,841.84	13.12	598.796		
2,519.29	2,449.07	778.00	773.08	11.05	2.95	102.22	-7,218.55	2,186.04	7,861.98	7,848.72	13.26	593.005		
2,600.00	2,518.69	814.68	808.94	11.74	3.12	102.36	-7,226.12	2,187.69	7,891.47	7,877.47	14.00	563.763		
2,700.00	2,604.95	855.00	848.18	12.62	3.31	102.53	-7,235.21	2,189.28	7,929.18	7,914.28	14.91	531.856		
2,800.00	2,691.22	855.00	848.18	13.52	3.31	102.53	-7,235.21	2,189.28	7,967.50	7,951.84	15.67	508.586		
2,900.00	2,777.48	855.00	848.18	14.43	3.31	102.53	-7,235.21	2,189.28	8,006.89	7,990.46	16.43	487.378		
3,000.00	2,863.75	889.80	881.93	15.35	3.48	102.67	-7,243.60	2,190.62	8,047.05	8,029.71	17.34	464.033		
3,100.00	2,950.01	911.39	902.81	16.28	3.59	102.76	-7,248.98	2,191.51	8,088.08	8,069.88	18.20	444.395		
3,200.00	3,036.27	942.00	932.37	17.22	3.75	102.88	-7,256.85	2,192.86	8,129.95	8,110.85	19.10	425.707		
3,300.00	3,122.54	942.00	932.37	18.17	3.75	102.88	-7,256.85	2,192.86	8,172.61	8,152.75	19.86	411.479		
3,400.00	3,208.80	983.49	972.31	19.13	3.97	103.05	-7,267.87	2,194.91	8,215.97	8,195.16	20.82	394.709		
3,500.00	3,295.07	1,031.00	1,017.92	20.09	4.22	103.23	-7,280.90	2,197.64	8,260.18	8,238.40	21.78	379.187		
3,600.00	3,381.33	1,031.00	1,017.92	21.05	4.22	103.23	-7,280.90	2,197.64	8,304.97	8,282.43	22.54	368.497		
3,700.00	3,467.59	1,073.82	1,058.92	22.02	4.46	103.40	-7,292.95	2,200.42	8,350.47	8,326.99	23.49	355.542		
3,800.00	3,553.86	1,116.00	1,099.23	22.99	4.70	103.56	-7,305.00	2,203.40	8,396.60	8,372.17	24.44	343.629		
3,900.00	3,640.12	1,203.32	1,182.64	23.97	5.21	103.89	-7,330.12	2,209.39	8,443.11	8,417.51	25.60	329.796		
4,000.00	3,726.38	1,232.18	1,210.20	24.95	5.38	104.00	-7,338.48	2,211.24	8,489.95	8,463.47	26.48	320.632		
4,100.00	3,812.65	1,260.34	1,237.05	25.93	5.55	104.11	-7,346.79	2,213.07	8,537.45	8,510.10	27.35	312.171		
4,200.00	3,898.91	1,291.00	1,266.22	26.91	5.73	104.23	-7,356.00	2,215.10	8,585.60	8,557.38	28.23	304.172		
4,300.00	3,985.18	1,320.21	1,293.96	27.90	5.91	104.34	-7,364.92	2,217.09	8,634.38	8,605.29	29.09	296.794		
4,400.00	4,071.44	1,352.39	1,324.48	28.88	6.11	104.46	-7,374.89	2,219.36	8,683.76	8,653.79	29.97	289.761		
4,500.00	4,157.70	1,378.00	1,348.72	29.87	6.27	104.56	-7,382.92	2,221.23	8,733.73	8,702.92	30.81	283.513		
4,600.00	4,243.97	1,415.48	1,384.14	30.86	6.51	104.69	-7,394.83	2,224.12	8,784.27	8,752.57	31.70	277.090		
4,700.00	4,330.23	1,466.00	1,431.75	31.85	6.83	104.88	-7,411.17	2,228.42	8,835.45	8,802.78	32.67	270.482		
4,800.00	4,416.49	1,466.00	1,431.75	32.84	6.83	104.88	-7,411.17	2,228.42	8,887.11	8,853.76	33.35	266.509		
4,900.00	4,502.76	1,466.00	1,431.75	33.84	6.83	104.88	-7,411.17	2,228.42	8,939.59	8,905.57	34.02	262.791		
5,000.00	4,589.02	1,508.94	1,472.05	34.83	7.12	105.03	-7,425.51	2,232.23	8,992.44	8,957.52	34.93	257.470		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	1,553.00	1,513.16	35.82	7.42	105.19	-7,440.87	2,236.11	9,046.26	9,010.42	35.84	252.429		
5,200.00	4,761.55	1,553.00	1,513.16	36.82	7.42	105.19	-7,440.87	2,236.11	9,100.40	9,063.92	36.49	249.420		
5,300.00	4,847.81	1,553.00	1,513.16	37.82	7.42	105.19	-7,440.87	2,236.11	9,155.32	9,118.20	37.13	246.598		
5,400.00	4,934.08	1,585.10	1,542.98	38.81	7.64	105.30	-7,452.43	2,238.84	9,210.81	9,172.86	37.95	242.710		
5,500.00	5,020.34	1,606.18	1,562.52	39.81	7.79	105.38	-7,460.17	2,240.55	9,266.90	9,228.20	38.70	239.447		
5,600.00	5,106.60	1,640.00	1,593.77	40.81	8.03	105.50	-7,472.82	2,243.15	9,323.59	9,284.07	39.52	235.900		
5,700.00	5,192.87	1,640.00	1,593.77	41.81	8.03	105.50	-7,472.82	2,243.15	9,380.79	9,340.66	40.13	233.744		
5,800.00	5,279.13	1,680.38	1,630.97	42.81	8.32	105.65	-7,488.23	2,246.07	9,438.50	9,397.52	40.98	230.298		
5,900.00	5,365.40	1,728.00	1,674.74	43.81	8.67	105.82	-7,506.72	2,249.30	9,496.75	9,454.88	41.88	226.784		
6,000.00	5,451.66	6,000.00	2,287.41	44.81	37.70	108.13	-7,744.64	2,293.19	9,554.76	9,492.72	62.04	154.009		
6,100.00	5,537.92	2,477.40	2,372.61	45.81	13.95	108.43	-7,774.32	2,298.40	9,608.68	9,560.98	47.70	201.441		
6,200.00	5,624.19	2,685.36	2,569.22	46.81	15.32	109.14	-7,841.36	2,308.09	9,662.19	9,612.64	49.55	195.000		
6,300.00	5,710.45	2,713.78	2,596.13	47.81	15.51	109.23	-7,850.42	2,309.23	9,715.64	9,665.30	50.34	192.997		
6,400.00	5,796.72	2,740.53	2,621.42	48.81	15.68	109.32	-7,859.06	2,310.58	9,769.61	9,718.50	51.12	191.124		
6,500.00	5,882.98	2,775.00	2,653.91	49.81	15.91	109.43	-7,870.35	2,312.71	9,824.12	9,772.18	51.93	189.166		
6,600.00	5,969.24	2,836.71	2,712.01	50.82	16.33	109.63	-7,890.68	2,317.08	9,879.00	9,826.08	52.92	186.680		
6,700.00	6,055.51	3,075.33	2,937.34	51.82	17.93	110.38	-7,967.86	2,331.11	9,933.78	9,878.79	54.98	180.672		
6,800.00	6,141.77	3,124.00	2,983.44	52.82	18.24	110.54	-7,983.27	2,333.71	9,987.86	9,931.98	55.88	178.736		
9,200.00	7,870.00	8,100.00	7,820.33	66.09	40.04	80.63	-8,784.29	2,441.48	9,986.49	9,895.59	90.90	109.867		
9,300.00	7,870.00	8,100.00	7,820.33	65.65	40.04	80.63	-8,784.29	2,441.48	9,886.58	9,795.65	90.93	108.726		
9,400.00	7,870.00	8,100.00	7,820.33	65.24	40.04	80.63	-8,784.29	2,441.48	9,786.68	9,695.72	90.97	107.585		
9,500.00	7,870.00	8,100.00	7,820.33	64.85	40.04	80.63	-8,784.29	2,441.48	9,686.79	9,595.78	91.00	106.443		
9,600.00	7,870.00	8,100.00	7,820.33	64.48	40.04	80.63	-8,784.29	2,441.48	9,586.89	9,495.85	91.04	105.301		
9,700.00	7,870.00	8,100.00	7,820.33	64.13	40.04	80.63	-8,784.29	2,441.48	9,487.00	9,395.91	91.08	104.158		
9,800.00	7,870.00	8,100.00	7,820.33	63.80	40.04	80.63	-8,784.29	2,441.48	9,387.11	9,295.98	91.12	103.014		
9,900.00	7,870.00	8,100.00	7,820.33	63.50	40.04	80.63	-8,784.29	2,441.48	9,287.22	9,196.05	91.17	101.870		
10,000.00	7,870.00	8,100.00	7,820.33	63.22	40.04	80.63	-8,784.29	2,441.48	9,187.33	9,096.12	91.21	100.725		
10,100.00	7,870.00	8,100.00	7,820.33	62.96	40.04	80.63	-8,784.29	2,441.48	9,087.45	8,996.19	91.26	99.580		
10,200.00	7,870.00	8,100.00	7,820.33	62.72	40.04	80.63	-8,784.29	2,441.48	8,987.57	8,896.26	91.31	98.434		
10,300.00	7,870.00	8,100.00	7,820.33	62.50	40.04	80.63	-8,784.29	2,441.48	8,887.69	8,796.33	91.35	97.287		
10,400.00	7,870.00	8,100.00	7,820.33	62.31	40.04	80.63	-8,784.29	2,441.48	8,787.81	8,696.41	91.41	96.141		
10,500.00	7,870.00	8,100.00	7,820.33	62.15	40.04	80.63	-8,784.29	2,441.48	8,687.94	8,596.48	91.46	94.993		
10,600.00	7,870.00	8,100.00	7,820.33	62.01	40.04	80.63	-8,784.29	2,441.48	8,588.07	8,496.56	91.51	93.845		
10,700.00	7,870.00	8,100.00	7,820.33	61.90	40.04	80.63	-8,784.29	2,441.48	8,488.20	8,396.63	91.57	92.697		
10,800.00	7,870.00	8,100.00	7,820.33	61.82	40.04	80.63	-8,784.29	2,441.48	8,388.34	8,296.71	91.63	91.549		
10,900.00	7,870.00	8,100.00	7,820.33	61.78	40.04	80.63	-8,784.29	2,441.48	8,288.48	8,196.79	91.69	90.400		
11,000.00	7,870.00	8,100.00	7,820.33	61.77	40.04	80.63	-8,784.29	2,441.48	8,188.62	8,096.87	91.75	89.250		
11,100.00	7,870.00	8,100.00	7,820.33	61.81	40.04	80.63	-8,784.29	2,441.48	8,088.77	7,996.95	91.81	88.101		
11,200.00	7,870.00	8,100.00	7,820.33	61.90	40.04	80.63	-8,784.29	2,441.48	7,988.92	7,897.04	91.88	86.951		
11,300.00	7,870.00	8,100.00	7,820.33	62.03	40.04	80.63	-8,784.29	2,441.48	7,889.07	7,797.12	91.95	85.800		
11,400.00	7,870.00	8,100.00	7,820.33	62.23	40.04	80.63	-8,784.29	2,441.48	7,789.23	7,697.21	92.02	84.650		
11,500.00	7,870.00	8,100.00	7,820.33	62.50	40.04	80.63	-8,784.29	2,441.48	7,689.39	7,597.30	92.09	83.499		
11,600.00	7,870.00	8,100.00	7,820.33	62.84	40.04	80.63	-8,784.29	2,441.48	7,589.56	7,497.39	92.16	82.348		
11,700.00	7,870.00	8,100.00	7,820.33	63.25	40.04	80.63	-8,784.29	2,441.48	7,489.73	7,397.49	92.24	81.197		
11,800.00	7,870.00	8,100.00	7,820.33	63.76	40.04	80.63	-8,784.29	2,441.48	7,389.90	7,297.58	92.32	80.045		
11,900.00	7,870.00	8,100.00	7,820.33	64.34	40.04	80.63	-8,784.29	2,441.48	7,290.08	7,197.68	92.40	78.893		
12,000.00	7,870.00	8,100.00	7,820.33	65.01	40.04	80.63	-8,784.29	2,441.48	7,190.27	7,097.78	92.49	77.741		
12,100.00	7,870.00	8,100.00	7,820.33	65.77	40.04	80.63	-8,784.29	2,441.48	7,090.46	6,997.88	92.58	76.589		
12,200.00	7,870.00	8,100.00	7,820.33	66.61	40.04	80.63	-8,784.29	2,441.48	6,990.65	6,897.98	92.67	75.437		
12,300.00	7,870.00	8,100.00	7,820.33	67.51	40.04	80.63	-8,784.29	2,441.48	6,890.85	6,798.09	92.76	74.285		
12,400.00	7,870.00	8,126.88	7,847.18	68.49	40.11	84.09	-8,784.52	2,442.75	6,790.97	6,698.00	92.97	73.044		
12,500.00	7,870.00	8,127.45	7,847.75	69.52	40.11	84.17	-8,784.52	2,442.78	6,691.18	6,598.10	93.08	71.890		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,870.00	8,128.03	7,848.33	70.61	40.11	84.24	-8,784.53	2,442.81	6,591.39	6,498.21	93.18	70.737		
12,700.00	7,870.00	8,128.62	7,848.92	71.75	40.12	84.32	-8,784.53	2,442.84	6,491.62	6,398.32	93.29	69.583		
12,800.00	7,870.00	8,129.22	7,849.52	72.93	40.12	84.40	-8,784.54	2,442.87	6,391.84	6,298.44	93.41	68.429		
12,900.00	7,870.00	8,129.83	7,850.13	74.14	40.12	84.48	-8,784.55	2,442.90	6,292.08	6,198.55	93.53	67.276		
13,000.00	7,870.00	8,130.45	7,850.74	75.39	40.12	84.56	-8,784.55	2,442.93	6,192.32	6,098.67	93.65	66.122		
13,100.00	7,870.00	8,131.07	7,851.36	76.67	40.12	84.64	-8,784.56	2,442.96	6,092.57	5,998.80	93.78	64.969		
13,200.00	7,870.00	8,131.70	7,852.00	77.98	40.12	84.72	-8,784.57	2,442.99	5,992.83	5,898.93	93.91	63.816		
13,300.00	7,870.00	8,132.35	7,852.64	79.31	40.13	84.80	-8,784.57	2,443.02	5,893.10	5,799.06	94.04	62.663		
13,400.00	7,870.00	8,133.00	7,853.29	80.67	40.13	84.89	-8,784.58	2,443.06	5,793.38	5,699.19	94.19	61.510		
13,500.00	7,870.00	8,133.66	7,853.95	82.04	40.13	84.98	-8,784.59	2,443.09	5,693.66	5,599.33	94.33	60.357		
13,600.00	7,870.00	8,134.33	7,854.62	83.43	40.13	85.06	-8,784.59	2,443.13	5,593.96	5,499.48	94.49	59.204		
13,700.00	7,870.00	8,135.01	7,855.30	84.84	40.13	85.15	-8,784.60	2,443.16	5,494.27	5,399.62	94.64	58.052		
13,800.00	7,870.00	8,135.71	7,855.99	86.27	40.14	85.24	-8,784.61	2,443.20	5,394.59	5,299.78	94.81	56.899		
13,900.00	7,870.00	8,136.41	7,856.69	87.71	40.14	85.33	-8,784.62	2,443.23	5,294.92	5,199.94	94.98	55.747		
14,000.00	7,870.00	8,137.12	7,857.41	89.16	40.14	85.43	-8,784.63	2,443.27	5,195.26	5,100.10	95.16	54.596		
14,100.00	7,870.00	8,137.85	7,858.13	90.63	40.14	85.52	-8,784.63	2,443.31	5,095.62	5,000.27	95.34	53.445		
14,200.00	7,870.00	8,138.58	7,858.87	92.10	40.14	85.62	-8,784.64	2,443.35	4,995.99	4,900.45	95.54	52.294		
14,300.00	7,870.00	8,139.33	7,859.61	93.59	40.15	85.72	-8,784.65	2,443.38	4,896.37	4,800.63	95.74	51.143		
14,400.00	7,870.00	8,140.09	7,860.37	95.09	40.15	85.82	-8,784.66	2,443.42	4,796.77	4,700.83	95.95	49.993		
14,500.00	7,870.00	8,140.86	7,861.14	96.60	40.15	85.92	-8,784.67	2,443.46	4,697.19	4,601.02	96.17	48.843		
14,600.00	7,870.00	8,141.64	7,861.92	98.11	40.15	86.02	-8,784.68	2,443.51	4,597.63	4,501.23	96.40	47.694		
14,700.00	7,870.00	8,142.44	7,862.72	99.64	40.15	86.13	-8,784.69	2,443.55	4,498.08	4,401.45	96.64	46.546		
14,800.00	7,870.00	8,143.25	7,863.53	101.17	40.16	86.23	-8,784.70	2,443.59	4,398.56	4,301.67	96.89	45.398		
14,900.00	7,870.00	8,144.07	7,864.35	102.71	40.16	86.34	-8,784.71	2,443.63	4,299.06	4,201.90	97.15	44.250		
15,000.00	7,870.00	8,144.91	7,865.19	104.26	40.16	86.45	-8,784.72	2,443.68	4,199.58	4,102.15	97.43	43.104		
15,100.00	7,870.00	8,145.76	7,866.04	105.82	40.16	86.56	-8,784.73	2,443.72	4,100.12	4,002.40	97.72	41.958		
15,200.00	7,870.00	8,146.63	7,866.90	107.38	40.17	86.68	-8,784.74	2,443.77	4,000.70	3,902.67	98.03	40.813		
15,300.00	7,870.00	8,147.51	7,867.78	108.95	40.17	86.79	-8,784.75	2,443.82	3,901.30	3,802.95	98.35	39.668		
15,400.00	7,870.00	8,148.40	7,868.67	110.52	40.17	86.91	-8,784.76	2,443.86	3,801.93	3,703.24	98.69	38.525		
15,500.00	7,870.00	8,149.31	7,869.58	112.10	40.17	87.03	-8,784.77	2,443.91	3,702.60	3,603.55	99.05	37.382		
15,600.00	7,870.00	8,150.24	7,870.51	113.69	40.18	87.15	-8,784.78	2,443.96	3,603.30	3,503.87	99.43	36.241		
15,700.00	7,870.00	8,151.18	7,871.45	115.28	40.18	87.28	-8,784.79	2,444.02	3,504.04	3,404.21	99.83	35.100		
15,800.00	7,870.00	8,152.14	7,872.41	116.87	40.18	87.40	-8,784.81	2,444.07	3,404.83	3,304.57	100.26	33.961		
15,900.00	7,870.00	8,153.12	7,873.38	118.47	40.18	87.53	-8,784.82	2,444.12	3,305.66	3,204.95	100.71	32.823		
16,000.00	7,870.00	8,154.12	7,874.38	120.07	40.19	87.66	-8,784.83	2,444.18	3,206.55	3,105.35	101.19	31.687		
16,100.00	7,870.00	8,155.13	7,875.39	121.68	40.19	87.80	-8,784.85	2,444.23	3,107.49	3,005.78	101.71	30.552		
16,200.00	7,870.00	8,156.16	7,876.42	123.30	40.19	87.93	-8,784.86	2,444.29	3,008.49	2,906.23	102.26	29.419		
16,300.00	7,870.00	8,157.21	7,877.47	124.91	40.19	88.07	-8,784.87	2,444.35	2,909.56	2,806.71	102.86	28.288		
16,400.00	7,870.00	8,158.29	7,878.54	126.53	40.20	88.21	-8,784.89	2,444.41	2,810.71	2,707.22	103.49	27.159		
16,500.00	7,870.00	8,159.38	7,879.63	128.16	40.20	88.36	-8,784.90	2,444.47	2,711.94	2,607.76	104.18	26.032		
16,600.00	7,870.00	8,160.49	7,880.74	129.79	40.20	88.50	-8,784.92	2,444.53	2,613.26	2,508.34	104.92	24.908		
16,700.00	7,870.00	8,161.63	7,881.87	131.42	40.21	88.65	-8,784.93	2,444.59	2,514.69	2,408.97	105.72	23.786		
16,800.00	7,870.00	8,162.78	7,883.03	133.05	40.21	88.81	-8,784.95	2,444.66	2,416.23	2,309.64	106.59	22.668		
16,900.00	7,870.00	8,163.96	7,884.21	134.69	40.21	88.96	-8,784.97	2,444.72	2,317.91	2,210.36	107.54	21.553		
17,000.00	7,870.00	8,165.17	7,885.41	136.33	40.22	89.12	-8,784.98	2,444.79	2,219.73	2,111.14	108.58	20.442		
17,100.00	7,870.00	8,166.39	7,886.63	137.97	40.22	89.29	-8,785.00	2,444.86	2,121.72	2,011.99	109.73	19.336		
17,200.00	7,870.00	8,167.65	7,887.88	139.62	40.22	89.45	-8,785.02	2,444.93	2,023.91	1,912.92	110.99	18.235		
17,300.00	7,870.00	8,168.92	7,889.16	141.27	40.23	89.62	-8,785.04	2,445.01	1,926.32	1,813.94	112.38	17.141		
17,400.00	7,870.00	8,170.23	7,890.46	142.92	40.23	89.80	-8,785.06	2,445.08	1,828.99	1,715.05	113.94	16.053		
17,500.00	7,870.00	8,171.56	7,891.79	144.58	40.23	89.97	-8,785.08	2,445.16	1,731.96	1,616.29	115.67	14.973		
17,600.00	7,870.00	8,172.92	7,893.15	146.23	40.24	90.15	-8,785.10	2,445.24	1,635.29	1,517.67	117.63	13.902		
17,700.00	7,870.00	8,174.31	7,894.54	147.89	40.24	90.34	-8,785.12	2,445.32	1,539.05	1,419.21	119.83	12.843		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	7,870.00	8,175.73	7,895.96	149.56	40.25	90.53	-8,785.14	2,445.40	1,443.31	1,320.97	122.35	11.797	
17,900.00	7,870.00	8,177.19	7,897.41	151.22	40.25	90.72	-8,785.17	2,445.49	1,348.19	1,222.97	125.22	10.767	
18,000.00	7,870.00	8,178.67	7,898.89	152.89	40.25	90.92	-8,785.19	2,445.58	1,253.83	1,125.29	128.54	9.755	
18,100.00	7,870.00	8,180.19	7,900.40	154.55	40.26	91.12	-8,785.22	2,445.67	1,160.41	1,028.03	132.38	8.766	
18,200.00	7,870.00	8,181.74	7,901.95	156.22	40.26	91.33	-8,785.24	2,445.76	1,068.18	931.30	136.88	7.804	
18,300.00	7,870.00	8,183.33	7,903.54	157.90	40.27	91.54	-8,785.27	2,445.86	977.48	835.31	142.17	6.875	
18,400.00	7,870.00	8,184.95	7,905.16	159.57	40.27	91.75	-8,785.29	2,445.95	888.78	740.35	148.43	5.988	
18,500.00	7,870.00	8,186.61	7,906.82	161.25	40.28	91.97	-8,785.32	2,446.06	802.73	646.88	155.85	5.151	
18,600.00	7,870.00	8,188.32	7,908.52	162.93	40.28	92.20	-8,785.35	2,446.16	720.28	555.68	164.60	4.376	
18,700.00	7,870.00	8,190.06	7,910.25	164.60	40.28	92.43	-8,785.38	2,446.27	642.84	468.05	174.78	3.678	
18,797.52	7,870.00	8,191.80	7,911.99	166.24	40.29	92.67	-8,785.41	2,446.37	574.06	388.19	185.88	3.088 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	163.21	-7,118.83	2,147.68	7,435.77					
100.00	100.00	43.08	43.07	0.13	0.08	163.21	-7,118.94	2,148.10	7,436.39	7,436.18	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.20	-7,119.16	2,148.92	7,437.89	7,437.28	0.61	N/A		
300.00	300.00	117.97	117.92	0.85	0.29	163.19	-7,119.71	2,150.56	7,440.22	7,439.09	1.12	6,617.006		
400.00	400.00	166.00	165.89	1.21	0.45	163.18	-7,120.69	2,152.69	7,443.38	7,441.72	1.66	4,491.742		
500.00	500.00	218.40	218.20	1.57	0.64	163.16	-7,121.99	2,155.47	7,447.22	7,445.01	2.21	3,372.468		
600.00	600.00	300.94	300.54	1.93	0.96	163.13	-7,124.02	2,160.91	7,451.47	7,448.60	2.87	2,595.208		
700.00	700.00	349.00	348.43	2.29	1.14	163.10	-7,125.01	2,164.74	7,455.97	7,452.56	3.41	2,187.735		
800.00	800.00	407.36	406.54	2.64	1.37	163.06	-7,126.43	2,169.96	7,461.05	7,457.06	3.99	1,871.100		
900.00	900.00	440.00	439.02	3.00	1.49	163.04	-7,127.49	2,173.09	7,467.04	7,462.57	4.47	1,671.015		
1,000.00	1,000.00	474.14	472.94	3.36	1.63	163.02	-7,128.81	2,176.68	7,473.91	7,468.95	4.96	1,507.176		
1,100.00	1,099.98	533.00	531.28	3.72	1.88	108.20	-7,131.64	2,183.98	7,482.46	7,476.92	5.54	1,350.018		
1,200.00	1,199.84	534.98	533.24	4.07	1.88	108.01	-7,131.75	2,184.24	7,492.65	7,486.75	5.90	1,269.748		
1,300.00	1,299.45	626.68	623.80	4.43	2.28	107.75	-7,136.39	2,197.84	7,504.59	7,497.96	6.63	1,131.488		
1,400.00	1,398.70	673.17	669.58	4.80	2.49	107.48	-7,138.65	2,205.64	7,518.00	7,510.80	7.19	1,044.924		
1,500.00	1,497.47	722.62	718.13	5.18	2.72	107.18	-7,141.17	2,214.69	7,533.12	7,525.34	7.78	968.057		
1,600.00	1,595.62	802.29	795.93	5.57	3.11	106.86	-7,144.91	2,231.35	7,549.70	7,541.16	8.54	884.360		
1,700.00	1,693.06	835.35	828.06	6.00	3.28	106.51	-7,146.40	2,238.99	7,567.81	7,558.70	9.11	831.089		
1,800.00	1,789.64	893.00	883.90	6.45	3.59	106.14	-7,149.56	2,252.98	7,587.90	7,578.08	9.82	772.454		
1,900.00	1,885.27	893.00	883.90	6.94	3.59	105.71	-7,149.56	2,252.98	7,609.52	7,599.24	10.28	739.992		
2,000.00	1,979.82	948.67	937.53	7.47	3.90	105.29	-7,152.96	2,267.50	7,632.90	7,621.83	11.07	689.340		
2,100.00	2,073.17	980.00	967.57	8.05	4.08	104.81	-7,154.88	2,276.21	7,657.84	7,646.06	11.77	650.495		
2,200.00	2,165.21	1,031.00	1,016.18	8.67	4.38	104.33	-7,158.14	2,291.29	7,684.34	7,671.71	12.64	608.106		
2,300.00	2,255.84	1,063.77	1,047.26	9.35	4.59	103.80	-7,160.39	2,301.44	7,712.46	7,699.01	13.45	573.393		
2,400.00	2,344.94	1,118.50	1,099.02	10.09	4.94	103.27	-7,164.44	2,318.75	7,742.08	7,727.63	14.45	535.849		
2,500.00	2,432.39	1,183.00	1,160.11	10.89	5.36	102.75	-7,169.29	2,338.87	7,772.64	7,757.08	15.56	499.447		
2,519.29	2,449.07	1,183.00	1,160.11	11.05	5.36	102.62	-7,169.29	2,338.87	7,778.72	7,763.01	15.71	495.252		
2,600.00	2,518.69	1,229.95	1,204.50	11.74	5.67	102.71	-7,172.99	2,353.69	7,804.25	7,787.63	16.62	469.623		
2,700.00	2,604.95	1,270.00	1,242.17	12.62	5.94	102.77	-7,176.43	2,366.87	7,836.72	7,819.07	17.65	444.044		
2,800.00	2,691.22	2,800.00	1,376.75	13.52	16.78	103.01	-7,188.31	2,415.54	7,869.41	7,841.06	28.34	277.631		
2,900.00	2,777.48	1,562.49	1,516.13	14.43	8.01	103.24	-7,198.52	2,466.85	7,900.78	7,879.53	21.25	371.812		
3,000.00	2,863.75	1,619.00	1,568.88	15.35	8.43	103.32	-7,202.48	2,486.75	7,932.67	7,910.20	22.46	353.114		
3,100.00	2,950.01	1,707.97	1,651.71	16.28	9.09	103.45	-7,208.77	2,518.60	7,964.89	7,940.95	23.93	332.792		
3,200.00	3,036.27	1,787.85	1,725.98	17.22	9.69	103.56	-7,214.30	2,547.48	7,997.12	7,971.77	25.35	315.458		
3,300.00	3,122.54	1,882.95	1,814.37	18.17	10.41	103.69	-7,220.93	2,581.93	8,029.45	8,002.56	26.89	298.579		
3,400.00	3,208.80	1,964.00	1,889.63	19.13	11.03	103.79	-7,226.57	2,611.50	8,061.87	8,033.53	28.34	284.481		
3,500.00	3,295.07	2,014.70	1,936.65	20.09	11.42	103.86	-7,230.23	2,630.09	8,094.63	8,065.07	29.56	273.856		
3,600.00	3,381.33	2,071.11	1,988.93	21.05	11.86	103.94	-7,234.62	2,650.81	8,127.92	8,097.10	30.82	263.701		
3,700.00	3,467.59	2,167.18	2,078.04	22.02	12.60	104.06	-7,242.31	2,685.88	8,161.39	8,129.00	32.40	251.918		
3,800.00	3,553.86	2,230.00	2,136.46	22.99	13.09	104.15	-7,247.44	2,708.41	8,194.94	8,161.23	33.71	243.103		
3,900.00	3,640.12	2,286.01	2,188.57	23.97	13.51	104.23	-7,252.29	2,728.35	8,228.91	8,193.94	34.97	235.341		
4,000.00	3,726.38	2,422.64	2,315.49	24.95	14.57	104.41	-7,264.60	2,777.42	8,263.37	8,226.51	36.86	224.184		
4,100.00	3,812.65	2,497.28	2,384.73	25.93	15.15	104.51	-7,270.96	2,804.56	8,297.40	8,259.12	38.28	216.772		
4,200.00	3,898.91	2,532.94	2,417.84	26.91	15.42	104.56	-7,274.18	2,817.43	8,331.82	8,292.44	39.37	211.602		
4,300.00	3,985.18	2,579.00	2,460.68	27.90	15.78	104.62	-7,278.74	2,833.72	8,366.88	8,326.32	40.55	206.320		
4,400.00	4,071.44	2,698.18	2,571.58	28.88	16.69	104.79	-7,290.53	2,875.73	8,401.96	8,359.65	42.31	198.584		
4,500.00	4,157.70	2,763.53	2,632.29	29.87	17.20	104.88	-7,296.97	2,899.04	8,437.16	8,393.52	43.64	193.326		
4,600.00	4,243.97	2,870.73	2,731.58	30.86	18.04	105.01	-7,307.28	2,938.12	8,472.39	8,427.06	45.33	186.908		
4,700.00	4,330.23	2,982.06	2,834.59	31.85	18.92	105.15	-7,317.86	2,979.00	8,507.64	8,460.58	47.05	180.802		
4,800.00	4,416.49	3,120.22	2,962.98	32.84	19.99	105.33	-7,330.60	3,028.40	8,542.39	8,493.39	48.99	174.366		
4,900.00	4,502.76	3,178.15	3,016.53	33.84	20.46	105.40	-7,335.77	3,049.89	8,577.21	8,526.92	50.29	170.567		
5,000.00	4,589.02	3,296.34	3,125.93	34.83	21.40	105.54	-7,346.32	3,093.34	8,612.01	8,559.93	52.08	165.348		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	3,365.00	3,189.48	35.82	21.94	105.63	-7,352.52	3,118.58	8,646.93	8,593.47	53.46	161.742		
5,200.00	4,761.55	3,405.29	3,226.69	36.82	22.26	105.67	-7,356.30	3,133.56	8,682.27	8,627.67	54.60	159.023		
5,300.00	4,847.81	3,452.00	3,269.86	37.82	22.64	105.73	-7,360.94	3,150.79	8,718.11	8,662.32	55.78	156.281		
5,400.00	4,934.08	3,503.25	3,317.27	38.81	23.05	105.79	-7,366.34	3,169.50	8,754.43	8,697.43	57.00	153.583		
5,500.00	5,020.34	3,733.12	3,529.63	39.81	24.89	106.06	-7,389.15	3,254.47	8,790.43	8,730.65	59.78	147.040		
5,600.00	5,106.60	3,778.94	3,571.84	40.81	25.27	106.11	-7,393.32	3,271.79	8,825.82	8,764.85	60.97	144.757		
5,700.00	5,192.87	3,802.00	3,593.04	41.81	25.45	106.13	-7,395.49	3,280.58	8,861.78	8,799.83	61.95	143.050		
5,800.00	5,279.13	4,883.88	4,620.89	42.81	32.59	107.81	-7,471.93	3,600.23	8,898.25	8,827.66	70.59	126.055		
5,900.00	5,365.40	5,306.41	5,038.16	43.81	34.32	108.79	-7,481.66	3,664.99	8,922.25	8,848.86	73.38	121.584		
6,000.00	5,451.66	5,377.49	5,108.88	44.81	34.55	108.97	-7,483.00	3,671.98	8,945.34	8,870.80	74.53	120.016		
6,100.00	5,537.92	5,642.43	5,373.36	45.81	35.24	109.74	-7,489.28	3,684.92	8,968.57	8,892.38	76.19	117.710		
6,200.00	5,624.19	5,791.00	5,521.91	46.81	35.55	110.19	-7,491.45	3,686.37	8,989.99	8,912.55	77.44	116.089		
6,300.00	5,710.45	5,894.75	5,625.65	47.81	35.76	110.51	-7,492.68	3,686.99	9,011.40	8,932.82	78.57	114.690		
6,400.00	5,796.72	6,050.91	5,781.80	48.81	36.08	110.99	-7,493.83	3,687.62	9,032.63	8,952.81	79.82	113.162		
6,500.00	5,882.98	6,151.07	5,881.95	49.81	36.27	111.30	-7,494.12	3,687.69	9,053.65	8,972.72	80.93	111.867		
6,600.00	5,969.24	6,242.46	5,973.35	50.82	36.45	111.58	-7,494.39	3,687.34	9,074.85	8,992.83	82.02	110.643		
6,700.00	6,055.51	6,700.00	6,115.98	51.82	37.32	112.01	-7,493.92	3,686.70	9,095.58	9,011.73	83.85	108.479		
6,800.00	6,141.77	6,552.28	6,283.15	52.82	37.05	112.52	-7,492.29	3,686.20	9,116.06	9,031.60	84.46	107.931		
6,900.00	6,228.03	6,662.77	6,393.63	53.83	37.27	112.85	-7,490.72	3,685.96	9,136.53	9,050.94	85.59	106.743		
7,000.00	6,314.30	6,777.76	6,508.61	54.83	37.51	113.19	-7,488.70	3,686.03	9,156.98	9,070.24	86.73	105.575		
7,100.00	6,400.56	6,911.18	6,641.99	55.83	37.80	113.58	-7,485.76	3,686.35	9,177.29	9,089.36	87.92	104.381		
7,200.00	6,486.83	7,001.48	6,732.26	56.84	37.99	113.84	-7,483.44	3,686.72	9,197.53	9,108.52	89.01	103.329		
7,300.00	6,573.09	7,077.89	6,808.64	57.84	38.16	114.06	-7,481.51	3,687.37	9,218.07	9,128.00	90.07	102.344		
7,400.00	6,659.35	7,159.56	6,890.29	58.84	38.35	114.29	-7,479.48	3,688.39	9,238.92	9,147.78	91.14	101.371		
7,500.00	6,745.62	7,247.17	6,977.86	59.85	38.56	114.54	-7,477.29	3,689.63	9,259.98	9,167.76	92.23	100.406		
7,600.00	6,831.88	7,320.81	7,051.46	60.85	38.73	114.74	-7,475.46	3,690.79	9,281.28	9,188.01	93.27	99.505		
7,700.00	6,918.14	7,378.33	7,108.96	61.86	38.88	114.90	-7,474.17	3,691.82	9,303.03	9,208.75	94.28	98.675		
7,800.00	7,004.41	7,435.87	7,166.48	62.86	39.02	115.06	-7,473.06	3,692.98	9,325.25	9,229.97	95.28	97.873		
7,900.00	7,090.67	7,493.94	7,224.52	63.87	39.16	115.22	-7,472.10	3,694.29	9,347.95	9,251.68	96.28	97.093		
8,000.00	7,176.94	7,552.68	7,283.24	64.87	39.32	115.38	-7,471.30	3,695.77	9,371.12	9,273.84	97.28	96.333		
8,027.52	7,200.68	7,568.85	7,299.41	65.15	39.36	115.43	-7,471.11	3,696.20	9,377.58	9,280.02	97.55	96.129		
8,050.00	7,220.18	7,582.14	7,312.68	65.37	39.40	112.12	-7,470.96	3,696.57	9,382.45	9,284.67	97.78	95.959		
8,100.00	7,264.25	7,612.14	7,342.67	65.85	39.47	103.77	-7,470.66	3,697.42	9,390.28	9,292.01	98.27	95.554		
8,150.00	7,308.99	7,643.00	7,373.52	66.28	39.56	94.21	-7,470.39	3,698.34	9,393.92	9,295.15	98.76	95.114		
8,200.00	7,354.07	7,674.88	7,405.39	66.67	39.64	83.91	-7,470.16	3,699.30	9,393.33	9,294.08	99.25	94.644		
8,250.00	7,399.14	7,707.17	7,437.66	67.02	39.73	73.60	-7,469.98	3,700.28	9,388.53	9,288.81	99.72	94.151		
8,300.00	7,443.85	7,739.19	7,469.66	67.32	39.82	63.96	-7,469.84	3,701.24	9,379.53	9,279.36	100.16	93.643		
8,350.00	7,487.88	7,770.72	7,501.18	67.56	39.90	55.45	-7,469.75	3,702.18	9,366.40	9,265.82	100.58	93.123		
8,400.00	7,530.87	7,801.53	7,531.97	67.75	39.99	48.21	-7,469.70	3,703.10	9,349.23	9,248.26	100.97	92.596		
8,450.00	7,572.51	7,845.85	7,576.27	67.90	40.11	42.21	-7,469.68	3,704.40	9,328.13	9,226.76	101.37	92.021		
8,500.00	7,612.48	7,903.14	7,633.55	68.00	40.26	37.26	-7,469.58	3,705.96	9,303.15	9,201.37	101.78	91.403		
8,550.00	7,650.47	7,957.37	7,687.76	68.05	40.41	33.14	-7,469.41	3,707.30	9,274.47	9,172.31	102.16	90.788		
8,600.00	7,686.20	8,038.42	7,768.79	68.06	40.62	29.72	-7,468.93	3,709.18	9,242.29	9,139.71	102.58	90.096		
8,650.00	7,719.39	8,172.28	7,902.58	68.03	40.99	26.94	-7,466.96	3,712.88	9,206.64	9,103.50	103.14	89.267		
8,700.00	7,749.79	8,700.00	7,863.18	67.97	42.41	23.95	-7,467.50	3,711.81	9,167.95	9,063.23	104.72	87.549		
8,750.00	7,777.17	8,199.89	7,930.17	67.87	41.07	21.43	-7,466.45	3,713.78	9,126.77	9,023.32	103.45	88.222		
8,800.00	7,801.32	8,213.33	7,943.60	67.74	41.10	18.67	-7,466.22	3,714.25	9,083.31	8,979.74	103.57	87.702		
8,850.00	7,822.06	8,224.84	7,955.10	67.59	41.14	15.53	-7,466.04	3,714.66	9,037.92	8,934.26	103.66	87.190		
8,900.00	7,839.23	8,234.34	7,964.59	67.41	41.16	11.42	-7,465.89	3,715.01	8,990.93	8,887.21	103.72	86.688		
8,950.00	7,852.69	8,241.72	7,971.97	67.22	41.18	5.00	-7,465.78	3,715.29	8,942.68	8,838.93	103.75	86.196		
9,000.00	7,862.35	8,246.92	7,977.17	67.00	41.20	-7.79	-7,465.71	3,715.49	8,893.54	8,789.79	103.75	85.718		
9,050.00	7,868.14	8,249.89	7,980.13	66.78	41.21	-41.21	-7,465.67	3,715.61	8,843.87	8,740.14	103.74	85.254		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	8,250.59	7,980.83	66.55	41.21	-96.07	-7,465.66	3,715.63	8,795.40	8,691.70	103.70	84.818		
9,100.00	7,870.00	8,250.58	7,980.82	66.55	41.21	-96.07	-7,465.66	3,715.63	8,794.05	8,690.36	103.70	84.806		
9,200.00	7,870.00	8,249.78	7,980.02	66.09	41.21	-96.02	-7,465.67	3,715.60	8,694.52	8,590.92	103.60	83.927		
9,300.00	7,870.00	8,248.97	7,979.21	65.65	41.21	-95.96	-7,465.68	3,715.57	8,594.99	8,491.49	103.50	83.047		
9,400.00	7,870.00	8,248.16	7,978.40	65.24	41.20	-95.91	-7,465.69	3,715.54	8,495.47	8,392.08	103.39	82.167		
9,500.00	7,870.00	8,247.34	7,977.58	64.85	41.20	-95.85	-7,465.70	3,715.51	8,395.97	8,292.68	103.29	81.287		
9,600.00	7,870.00	8,246.51	7,976.76	64.48	41.20	-95.80	-7,465.71	3,715.48	8,296.48	8,193.29	103.18	80.406		
9,700.00	7,870.00	8,245.68	7,975.92	64.13	41.20	-95.74	-7,465.73	3,715.44	8,197.00	8,093.92	103.07	79.525		
9,800.00	7,870.00	8,244.84	7,975.08	63.80	41.19	-95.68	-7,465.74	3,715.41	8,097.53	7,994.56	102.96	78.644		
9,900.00	7,870.00	8,243.99	7,974.23	63.50	41.19	-95.62	-7,465.75	3,715.38	7,998.07	7,895.22	102.85	77.762		
10,000.00	7,870.00	8,243.13	7,973.38	63.22	41.19	-95.57	-7,465.76	3,715.34	7,898.63	7,795.89	102.74	76.880		
10,100.00	7,870.00	8,242.27	7,972.51	62.96	41.19	-95.51	-7,465.77	3,715.31	7,799.20	7,696.58	102.62	75.998		
10,200.00	7,870.00	8,241.40	7,971.64	62.72	41.18	-95.45	-7,465.79	3,715.28	7,699.79	7,597.29	102.51	75.116		
10,300.00	7,870.00	8,240.52	7,970.76	62.50	41.18	-95.39	-7,465.80	3,715.24	7,600.39	7,498.01	102.39	74.233		
10,400.00	7,870.00	8,239.63	7,969.88	62.31	41.18	-95.33	-7,465.81	3,715.21	7,501.01	7,398.75	102.26	73.350		
10,500.00	7,870.00	8,238.73	7,968.98	62.15	41.18	-95.27	-7,465.83	3,715.18	7,401.65	7,299.51	102.14	72.467		
10,600.00	7,870.00	8,237.83	7,968.08	62.01	41.17	-95.21	-7,465.84	3,715.14	7,302.30	7,200.29	102.01	71.584		
10,700.00	7,870.00	8,236.91	7,967.16	61.90	41.17	-95.15	-7,465.85	3,715.11	7,202.97	7,101.09	101.88	70.700		
10,800.00	7,870.00	8,235.99	7,966.24	61.82	41.17	-95.08	-7,465.87	3,715.07	7,103.66	7,001.91	101.75	69.817		
10,900.00	7,870.00	8,235.06	7,965.31	61.78	41.17	-95.02	-7,465.88	3,715.04	7,004.37	6,902.76	101.61	68.933		
11,000.00	7,870.00	8,234.12	7,964.38	61.77	41.16	-94.96	-7,465.89	3,715.00	6,905.10	6,803.62	101.47	68.048		
11,100.00	7,870.00	8,233.17	7,963.43	61.81	41.16	-94.89	-7,465.91	3,714.97	6,805.85	6,704.51	101.33	67.164		
11,200.00	7,870.00	8,232.22	7,962.47	61.90	41.16	-94.83	-7,465.92	3,714.93	6,706.62	6,605.43	101.19	66.279		
11,300.00	7,870.00	8,231.25	7,961.51	62.03	41.15	-94.76	-7,465.94	3,714.90	6,607.41	6,506.37	101.04	65.394		
11,400.00	7,870.00	8,230.28	7,960.53	62.23	41.15	-94.69	-7,465.95	3,714.86	6,508.23	6,407.34	100.89	64.509		
11,500.00	7,870.00	8,229.29	7,959.55	62.50	41.15	-94.63	-7,465.97	3,714.82	6,409.07	6,308.34	100.73	63.624		
11,600.00	7,870.00	8,228.30	7,958.56	62.84	41.15	-94.56	-7,465.98	3,714.79	6,309.94	6,209.37	100.57	62.739		
11,700.00	7,870.00	8,227.29	7,957.55	63.25	41.14	-94.49	-7,466.00	3,714.75	6,210.84	6,110.43	100.41	61.853		
11,800.00	7,870.00	8,226.28	7,956.54	63.76	41.14	-94.42	-7,466.01	3,714.71	6,111.77	6,011.52	100.25	60.967		
11,900.00	7,870.00	8,225.26	7,955.52	64.34	41.14	-94.35	-7,466.03	3,714.67	6,012.73	5,912.65	100.08	60.081		
12,000.00	7,870.00	8,224.22	7,954.48	65.01	41.13	-94.28	-7,466.05	3,714.64	5,913.72	5,813.81	99.90	59.195		
12,100.00	7,870.00	8,223.18	7,953.44	65.77	41.13	-94.21	-7,466.06	3,714.60	5,814.74	5,715.02	99.72	58.309		
12,200.00	7,870.00	8,222.12	7,952.39	66.61	41.13	-94.14	-7,466.08	3,714.56	5,715.80	5,616.26	99.54	57.422		
12,300.00	7,870.00	8,221.06	7,951.32	67.51	41.13	-94.07	-7,466.10	3,714.52	5,616.89	5,517.54	99.35	56.535		
12,400.00	7,870.00	8,219.98	7,950.25	68.49	41.12	-93.99	-7,466.11	3,714.48	5,518.03	5,418.87	99.16	55.648		
12,500.00	7,870.00	8,218.90	7,949.16	69.52	41.12	-93.92	-7,466.13	3,714.44	5,419.20	5,320.24	98.96	54.761		
12,600.00	7,870.00	8,217.80	7,948.07	70.61	41.12	-93.85	-7,466.15	3,714.40	5,320.42	5,221.66	98.76	53.873		
12,700.00	7,870.00	8,216.69	7,946.96	71.75	41.11	-93.77	-7,466.17	3,714.36	5,221.69	5,123.14	98.55	52.986		
12,800.00	7,870.00	8,215.57	7,945.84	72.93	41.11	-93.69	-7,466.18	3,714.32	5,123.00	5,024.67	98.34	52.097		
12,900.00	7,870.00	8,214.44	7,944.71	74.14	41.11	-93.62	-7,466.20	3,714.28	5,024.37	4,926.25	98.12	51.209		
13,000.00	7,870.00	8,213.29	7,943.56	75.39	41.10	-93.54	-7,466.22	3,714.24	4,925.79	4,827.90	97.89	50.320		
13,100.00	7,870.00	8,212.14	7,942.41	76.67	41.10	-93.46	-7,466.24	3,714.20	4,827.27	4,729.61	97.66	49.430		
13,200.00	7,870.00	8,210.97	7,941.24	77.98	41.10	-93.38	-7,466.26	3,714.16	4,728.81	4,631.39	97.42	48.540		
13,300.00	7,870.00	8,209.79	7,940.06	79.31	41.09	-93.30	-7,466.28	3,714.12	4,630.41	4,533.24	97.18	47.650		
13,400.00	7,870.00	8,208.60	7,938.87	80.67	41.09	-93.22	-7,466.30	3,714.08	4,532.09	4,435.16	96.93	46.759		
13,500.00	7,870.00	8,207.39	7,937.67	82.04	41.09	-93.14	-7,466.32	3,714.04	4,433.84	4,337.17	96.67	45.867		
13,600.00	7,870.00	8,206.17	7,936.45	83.43	41.08	-93.05	-7,466.34	3,713.99	4,335.67	4,239.26	96.40	44.974		
13,700.00	7,870.00	8,204.94	7,935.22	84.84	41.08	-92.97	-7,466.36	3,713.95	4,237.58	4,141.45	96.13	44.080		
13,800.00	7,870.00	8,203.70	7,933.98	86.27	41.08	-92.88	-7,466.38	3,713.91	4,139.59	4,043.73	95.86	43.185		
13,900.00	7,870.00	8,202.44	7,932.72	87.71	41.07	-92.80	-7,466.41	3,713.87	4,041.69	3,946.12	95.57	42.289		
14,000.00	7,870.00	8,201.17	7,931.45	89.16	41.07	-92.71	-7,466.43	3,713.82	3,943.90	3,848.62	95.28	41.391		
14,100.00	7,870.00	8,199.88	7,930.16	90.63	41.06	-92.62	-7,466.45	3,713.78	3,846.22	3,751.23	94.99	40.491		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	8,198.58	7,928.86	92.10	41.06	-92.53	-7,466.47	3,713.73	3,748.67	3,653.98	94.69	39.590		
14,300.00	7,870.00	8,197.27	7,927.55	93.59	41.06	-92.44	-7,466.50	3,713.69	3,651.24	3,556.86	94.38	38.686		
14,400.00	7,870.00	8,195.94	7,926.22	95.09	41.05	-92.35	-7,466.52	3,713.65	3,553.96	3,459.89	94.07	37.780		
14,500.00	7,870.00	8,194.59	7,924.88	96.60	41.05	-92.26	-7,466.54	3,713.60	3,456.83	3,363.07	93.76	36.870		
14,600.00	7,870.00	8,193.23	7,923.52	98.11	41.05	-92.17	-7,466.57	3,713.55	3,359.87	3,266.43	93.44	35.957		
14,700.00	7,870.00	8,191.86	7,922.14	99.64	41.04	-92.07	-7,466.59	3,713.51	3,263.09	3,169.97	93.13	35.040		
14,800.00	7,870.00	8,190.47	7,920.75	101.17	41.04	-91.98	-7,466.62	3,713.46	3,166.51	3,073.70	92.81	34.117		
14,900.00	7,870.00	8,189.06	7,919.35	102.71	41.03	-91.88	-7,466.65	3,713.42	3,070.15	2,977.65	92.50	33.190		
15,000.00	7,870.00	8,200.85	7,931.13	104.26	41.06	-92.69	-7,466.34	3,713.78	2,973.97	2,881.71	92.27	32.233		
15,100.00	7,870.00	8,197.97	7,928.25	105.82	41.05	-92.49	-7,466.41	3,713.69	2,878.13	2,786.15	91.97	31.294		
15,200.00	7,870.00	8,195.15	7,925.43	107.38	41.05	-92.30	-7,466.47	3,713.60	2,782.57	2,690.87	91.70	30.346		
15,300.00	7,870.00	8,192.38	7,922.67	108.95	41.04	-92.11	-7,466.53	3,713.51	2,687.33	2,595.89	91.44	29.388		
15,400.00	7,870.00	8,189.68	7,919.97	110.52	41.03	-91.92	-7,466.59	3,713.42	2,592.45	2,501.22	91.23	28.418		
15,500.00	7,870.00	8,187.03	7,917.32	112.10	41.02	-91.74	-7,466.65	3,713.34	2,497.96	2,406.91	91.05	27.434		
15,600.00	7,870.00	8,184.44	7,914.73	113.69	41.02	-91.56	-7,466.71	3,713.26	2,403.92	2,312.99	90.94	26.435		
15,700.00	7,870.00	8,181.90	7,912.19	115.28	41.01	-91.39	-7,466.76	3,713.18	2,310.38	2,219.49	90.89	25.419		
15,800.00	7,870.00	8,179.41	7,909.70	116.87	41.00	-91.22	-7,466.81	3,713.10	2,217.40	2,126.46	90.94	24.383		
15,900.00	7,870.00	8,176.97	7,907.26	118.47	41.00	-91.05	-7,466.87	3,713.02	2,125.06	2,033.95	91.11	23.325		
16,000.00	7,870.00	8,174.57	7,904.87	120.07	40.99	-90.89	-7,466.92	3,712.95	2,033.43	1,942.01	91.42	22.243		
16,100.00	7,870.00	8,172.23	7,902.53	121.68	40.99	-90.72	-7,466.96	3,712.88	1,942.63	1,850.72	91.91	21.136		
16,200.00	7,870.00	8,169.93	7,900.23	123.30	40.98	-90.57	-7,467.01	3,712.81	1,852.78	1,760.16	92.62	20.004		
16,300.00	7,870.00	8,167.67	7,897.97	124.91	40.97	-90.41	-7,467.06	3,712.74	1,764.01	1,670.41	93.60	18.846		
16,400.00	7,870.00	8,165.46	7,895.76	126.53	40.97	-90.26	-7,467.10	3,712.67	1,676.51	1,581.60	94.91	17.664		
16,500.00	7,870.00	8,163.29	7,893.59	128.16	40.96	-90.11	-7,467.14	3,712.60	1,590.48	1,493.87	96.60	16.464		
16,600.00	7,870.00	8,161.15	7,891.46	129.79	40.96	-89.96	-7,467.19	3,712.54	1,506.17	1,407.41	98.76	15.251		
16,700.00	7,870.00	8,159.06	7,889.37	131.42	40.95	-89.82	-7,467.23	3,712.47	1,423.89	1,322.44	101.45	14.036		
16,800.00	7,870.00	8,157.01	7,887.32	133.05	40.94	-89.68	-7,467.27	3,712.41	1,344.01	1,239.27	104.75	12.831		
16,900.00	7,870.00	8,154.99	7,885.30	134.69	40.94	-89.54	-7,467.30	3,712.35	1,267.00	1,158.25	108.74	11.651		
17,000.00	7,870.00	8,153.01	7,883.32	136.33	40.93	-89.40	-7,467.34	3,712.29	1,193.39	1,079.89	113.50	10.515		
17,100.00	7,870.00	8,151.07	7,881.38	137.97	40.93	-89.27	-7,467.38	3,712.23	1,123.86	1,004.79	119.07	9.439		
17,200.00	7,870.00	8,149.16	7,879.47	139.62	40.92	-89.14	-7,467.41	3,712.18	1,059.22	933.74	125.48	8.441		
17,300.00	7,870.00	8,147.28	7,877.59	141.27	40.92	-89.01	-7,467.45	3,712.12	1,000.41	867.71	132.70	7.539		
17,400.00	7,870.00	8,145.43	7,875.75	142.92	40.91	-88.88	-7,467.48	3,712.07	948.52	807.89	140.63	6.745		
17,500.00	7,870.00	8,143.62	7,873.94	144.58	40.91	-88.76	-7,467.52	3,712.01	904.73	755.67	149.06	6.069		
17,600.00	7,870.00	8,141.84	7,872.16	146.23	40.90	-88.63	-7,467.55	3,711.96	870.29	712.61	157.68	5.519		
17,700.00	7,870.00	8,140.09	7,870.41	147.89	40.90	-88.51	-7,467.58	3,711.91	846.31	680.27	166.04	5.097		
17,800.00	7,870.00	8,138.36	7,868.69	149.56	40.89	-88.39	-7,467.61	3,711.86	833.72	660.07	173.64	4.801		
17,855.83	7,870.00	8,137.42	7,867.74	150.48	40.89	-88.33	-7,467.63	3,711.83	831.85	654.48	177.37	4.690 CC		
17,900.00	7,870.00	8,136.67	7,866.99	151.22	40.89	-88.28	-7,467.64	3,711.81	833.02	653.03	179.99	4.628 ES		
18,000.00	7,870.00	8,135.00	7,865.33	152.89	40.88	-88.16	-7,467.67	3,711.76	844.25	659.52	184.73	4.570 SF		
18,100.00	7,870.00	8,133.37	7,863.69	154.55	40.88	-88.05	-7,467.70	3,711.71	866.93	679.24	187.70	4.619		
18,200.00	7,870.00	8,131.75	7,862.08	156.22	40.88	-87.94	-7,467.72	3,711.67	900.22	711.23	188.98	4.763		
18,300.00	7,870.00	8,130.17	7,860.49	157.90	40.87	-87.83	-7,467.75	3,711.62	942.98	754.14	188.83	4.994		
18,400.00	7,870.00	8,128.61	7,858.93	159.57	40.87	-87.72	-7,467.78	3,711.57	993.99	806.42	187.57	5.299		
18,500.00	7,870.00	8,127.07	7,857.40	161.25	40.86	-87.62	-7,467.80	3,711.53	1,052.05	866.52	185.53	5.671		
18,600.00	7,870.00	8,125.56	7,855.89	162.93	40.86	-87.51	-7,467.83	3,711.49	1,116.07	933.08	182.99	6.099		
18,700.00	7,870.00	8,124.07	7,854.40	164.60	40.86	-87.41	-7,467.85	3,711.44	1,185.07	1,004.89	180.18	6.577		
18,797.52	7,870.00	8,122.64	7,852.97	166.24	40.85	-87.31	-7,467.87	3,711.40	1,256.39	1,079.05	177.34	7.085		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	161.97	-5,369.91	1,748.15	5,647.31					
100.00	100.00	50.51	50.51	0.13	0.08	161.97	-5,370.15	1,748.03	5,647.64	5,647.42	0.21	N/A		
200.00	200.00	157.52	157.50	0.49	0.38	161.98	-5,371.59	1,747.05	5,648.66	5,647.79	0.87	6,470.790		
300.00	300.00	253.02	252.99	0.85	0.72	162.00	-5,372.51	1,745.81	5,649.18	5,647.61	1.57	3,590.199		
400.00	400.00	347.11	347.06	1.21	1.06	162.01	-5,373.68	1,744.58	5,649.96	5,647.69	2.27	2,488.536		
500.00	500.00	410.31	410.25	1.57	1.29	162.03	-5,374.72	1,743.47	5,651.02	5,648.16	2.86	1,977.668		
600.00	600.00	456.00	455.90	1.93	1.46	162.04	-5,376.00	1,742.16	5,652.88	5,649.50	3.38	1,671.770		
700.00	700.00	511.87	511.68	2.29	1.66	162.07	-5,378.25	1,739.99	5,655.59	5,651.64	3.94	1,433.659		
800.00	800.00	549.00	548.72	2.64	1.80	162.10	-5,380.21	1,738.23	5,659.26	5,654.82	4.44	1,274.905		
900.00	900.00	601.81	601.34	3.00	2.00	162.13	-5,383.63	1,735.38	5,663.87	5,658.88	4.99	1,134.177		
1,000.00	1,000.00	640.00	639.35	3.36	2.15	162.16	-5,386.58	1,733.13	5,669.51	5,664.02	5.49	1,032.126		
1,100.00	1,099.98	688.64	687.69	3.72	2.34	107.46	-5,390.93	1,730.00	5,676.66	5,670.62	6.03	941.111		
1,200.00	1,199.84	732.00	730.72	4.07	2.51	107.35	-5,395.35	1,726.95	5,685.85	5,679.30	6.55	868.256		
1,300.00	1,299.45	772.91	771.24	4.43	2.68	107.21	-5,400.03	1,723.83	5,697.08	5,690.02	7.06	806.524		
1,400.00	1,398.70	825.00	822.72	4.80	2.89	107.08	-5,406.70	1,719.48	5,710.41	5,702.78	7.63	748.379		
1,500.00	1,497.47	856.13	853.41	5.18	3.03	106.87	-5,411.06	1,716.65	5,725.71	5,717.59	8.13	704.467		
1,600.00	1,595.62	919.00	915.21	5.57	3.30	106.74	-5,420.68	1,710.30	5,743.11	5,734.34	8.77	654.630		
1,700.00	1,693.06	946.40	942.07	6.00	3.43	106.47	-5,425.18	1,707.27	5,762.32	5,753.02	9.29	620.049		
1,800.00	1,789.64	1,012.00	1,006.19	6.45	3.74	106.33	-5,436.54	1,699.38	5,783.48	5,773.47	10.01	577.999		
1,900.00	1,885.27	1,038.63	1,032.14	6.94	3.87	106.00	-5,441.42	1,695.90	5,806.44	5,795.86	10.58	548.742		
2,000.00	1,979.82	1,075.32	1,067.78	7.47	4.05	105.68	-5,448.49	1,690.80	5,831.44	5,820.21	11.23	519.141		
2,100.00	2,073.17	1,121.56	1,112.51	8.05	4.28	105.39	-5,457.94	1,683.88	5,858.43	5,846.46	11.97	489.463		
2,200.00	2,165.21	1,200.00	1,188.27	8.67	4.69	105.27	-5,474.05	1,671.50	5,886.78	5,873.87	12.91	455.955		
2,300.00	2,255.84	1,232.00	1,219.14	9.35	4.86	104.85	-5,480.77	1,666.39	5,916.94	5,903.28	13.67	432.952		
2,400.00	2,344.94	1,274.44	1,260.07	10.09	5.09	104.46	-5,489.99	1,659.97	5,949.08	5,934.57	14.52	409.796		
2,500.00	2,432.39	1,371.07	1,353.51	10.89	5.61	104.39	-5,510.89	1,646.94	5,982.89	5,967.20	15.68	381.503		
2,519.29	2,449.07	1,409.19	1,390.48	11.05	5.81	104.50	-5,518.83	1,642.15	5,989.47	5,973.46	16.01	374.116		
2,600.00	2,518.69	1,483.78	1,462.82	11.74	6.21	104.98	-5,534.22	1,632.44	6,017.17	6,000.21	16.96	354.743		
2,700.00	2,604.95	1,535.13	1,512.56	12.62	6.49	105.32	-5,544.85	1,625.39	6,051.99	6,034.04	17.95	337.074		
2,800.00	2,691.22	1,584.00	1,559.79	13.52	6.75	105.64	-5,555.23	1,618.36	6,087.70	6,068.76	18.94	321.373		
2,900.00	2,777.48	1,622.47	1,596.91	14.43	6.97	105.89	-5,563.60	1,612.70	6,124.32	6,104.44	19.89	307.982		
3,000.00	2,863.75	1,661.90	1,634.91	15.35	7.19	106.15	-5,572.37	1,606.89	6,161.90	6,141.06	20.83	295.757		
3,100.00	2,950.01	1,735.85	1,706.14	16.28	7.61	106.62	-5,589.04	1,596.08	6,200.29	6,178.33	21.97	282.278		
3,200.00	3,036.27	3,200.00	1,979.03	17.22	15.49	108.40	-5,647.08	1,556.88	6,237.81	6,208.15	29.66	210.313		
3,300.00	3,122.54	2,156.04	2,113.80	18.17	9.88	109.24	-5,672.44	1,537.96	6,274.26	6,248.64	25.62	244.944		
3,400.00	3,208.80	2,187.69	2,144.59	19.13	10.06	109.44	-5,678.26	1,533.51	6,311.28	6,284.76	26.52	237.961		
3,500.00	3,295.07	2,240.00	2,195.38	20.09	10.34	109.75	-5,688.22	1,525.96	6,349.27	6,321.74	27.53	230.636		
3,600.00	3,381.33	2,264.77	2,219.42	21.05	10.47	109.91	-5,693.06	1,522.39	6,388.10	6,359.72	28.39	225.027		
3,700.00	3,467.59	2,308.42	2,261.78	22.02	10.71	110.17	-5,701.72	1,516.43	6,427.81	6,398.48	29.34	219.095		
3,800.00	3,553.86	2,390.55	2,341.53	22.99	11.15	110.65	-5,718.21	1,505.83	6,468.25	6,437.77	30.48	212.207		
3,900.00	3,640.12	3,900.00	2,457.97	23.97	19.24	111.35	-5,741.38	1,489.96	6,508.50	6,470.39	38.11	170.788		
4,000.00	3,726.38	2,576.17	2,522.04	24.95	12.15	111.74	-5,753.89	1,481.37	6,549.08	6,516.23	32.86	199.322		
4,100.00	3,812.65	2,621.90	2,566.47	25.93	12.40	112.00	-5,762.81	1,475.26	6,590.46	6,556.67	33.79	195.035		
4,200.00	3,898.91	2,695.17	2,637.61	26.91	12.79	112.42	-5,777.23	1,465.28	6,632.42	6,597.56	34.86	190.233		
4,300.00	3,985.18	3,046.16	2,980.40	27.90	14.60	114.37	-5,837.90	1,420.81	6,672.25	6,634.91	37.33	178.730		
4,400.00	4,071.44	3,084.00	3,017.53	28.88	14.79	114.57	-5,843.74	1,416.39	6,712.07	6,673.86	38.21	175.673		
4,500.00	4,157.70	3,125.16	3,057.88	29.87	14.99	114.79	-5,850.30	1,411.61	6,752.69	6,713.60	39.09	172.736		
4,600.00	4,243.97	3,178.00	3,109.56	30.86	15.26	115.07	-5,859.44	1,405.46	6,794.48	6,754.45	40.03	169.744		
4,700.00	4,330.23	3,178.00	3,109.56	31.85	15.26	115.07	-5,859.44	1,405.46	6,836.88	6,796.19	40.69	168.028		
4,800.00	4,416.49	3,216.76	3,147.40	32.84	15.46	115.27	-5,866.51	1,400.92	6,880.28	6,838.74	41.54	165.639		
4,900.00	4,502.76	3,272.00	3,201.26	33.84	15.75	115.57	-5,876.85	1,394.33	6,924.41	6,881.94	42.46	163.067		
5,000.00	4,589.02	3,315.24	3,243.36	34.83	15.98	115.79	-5,885.09	1,388.92	6,969.16	6,925.83	43.32	160.863		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	3,365.00	3,291.73	35.82	16.25	116.06	-5,894.64	1,382.18	7,014.46	6,970.25	44.21	158.667		
5,200.00	4,761.55	3,411.79	3,337.15	36.82	16.50	116.31	-5,903.76	1,375.62	7,060.39	7,015.32	45.07	156.644		
5,300.00	4,847.81	3,459.00	3,382.94	37.82	16.76	116.56	-5,913.22	1,369.08	7,107.04	7,061.11	45.93	154.730		
5,400.00	4,934.08	3,459.00	3,382.94	38.81	16.76	116.56	-5,913.22	1,369.08	7,154.50	7,107.98	46.52	153.783		
5,500.00	5,020.34	3,499.07	3,421.74	39.81	16.99	116.77	-5,921.60	1,363.63	7,202.67	7,155.35	47.33	152.195		
5,600.00	5,106.60	3,520.82	3,442.76	40.81	17.11	116.88	-5,926.37	1,360.75	7,251.76	7,203.74	48.02	151.026		
5,700.00	5,192.87	3,553.00	3,473.82	41.81	17.29	117.05	-5,933.69	1,356.56	7,301.70	7,252.95	48.76	149.755		
5,800.00	5,279.13	5,403.85	5,296.21	42.81	24.88	124.89	-6,138.08	1,227.95	7,340.30	7,282.81	57.49	127.684		
5,900.00	5,365.40	5,522.89	5,415.24	43.81	25.16	125.29	-6,137.44	1,228.85	7,371.63	7,313.10	58.54	125.934		
6,000.00	5,451.66	5,626.65	5,518.99	44.81	25.41	125.63	-6,136.54	1,229.43	7,402.90	7,343.36	59.54	124.340		
6,100.00	5,537.92	5,734.59	5,626.93	45.81	25.67	125.99	-6,135.32	1,229.73	7,434.16	7,373.61	60.55	122.773		
6,200.00	5,624.19	5,845.76	5,738.09	46.81	25.94	126.36	-6,133.70	1,230.13	7,465.32	7,403.74	61.58	121.239		
6,300.00	5,710.45	5,947.99	5,840.30	47.81	26.19	126.69	-6,131.93	1,230.35	7,496.46	7,433.89	62.57	119.808		
6,400.00	5,796.72	6,038.66	5,930.95	48.81	26.41	126.99	-6,130.21	1,230.38	7,527.68	7,464.15	63.53	118.490		
6,500.00	5,882.98	6,128.51	6,020.79	49.81	26.64	127.28	-6,128.49	1,230.15	7,559.09	7,494.60	64.49	117.221		
6,600.00	5,969.24	6,229.13	6,121.39	50.82	26.90	127.61	-6,126.41	1,229.76	7,590.59	7,525.12	65.47	115.933		
6,700.00	6,055.51	6,321.53	6,213.76	51.82	27.14	127.90	-6,124.36	1,229.44	7,622.14	7,555.71	66.43	114.732		
6,800.00	6,141.77	6,423.20	6,315.41	52.82	27.40	128.23	-6,122.03	1,229.00	7,653.85	7,586.43	67.42	113.523		
6,900.00	6,228.03	6,535.15	6,427.31	53.83	27.69	128.58	-6,119.11	1,228.55	7,685.45	7,617.02	68.44	112.298		
7,000.00	6,314.30	6,618.85	6,510.99	54.83	27.91	128.84	-6,116.83	1,228.53	7,717.11	7,647.75	69.36	111.257		
7,100.00	6,400.56	6,690.33	6,582.44	55.83	28.09	129.06	-6,115.01	1,228.82	7,749.07	7,678.83	70.25	110.314		
7,200.00	6,486.83	6,762.71	6,654.80	56.84	28.28	129.28	-6,113.36	1,229.16	7,781.41	7,710.29	71.13	109.401		
7,300.00	6,573.09	6,846.18	6,738.25	57.84	28.50	129.54	-6,111.51	1,229.57	7,814.00	7,741.95	72.04	108.463		
7,400.00	6,659.35	6,913.88	6,805.94	58.84	28.68	129.74	-6,110.12	1,229.81	7,846.89	7,773.99	72.90	107.634		
7,500.00	6,745.62	7,019.66	6,911.69	59.85	28.96	130.06	-6,108.00	1,230.28	7,880.01	7,806.12	73.89	106.647		
7,600.00	6,831.88	7,106.72	6,998.73	60.85	29.19	130.31	-6,106.15	1,230.99	7,913.14	7,838.34	74.81	105.779		
7,700.00	6,918.14	7,205.83	7,097.81	61.86	29.46	130.60	-6,104.00	1,231.87	7,946.39	7,870.62	75.77	104.880		
7,800.00	7,004.41	7,279.36	7,171.33	62.86	29.65	130.81	-6,102.42	1,232.62	7,979.79	7,903.15	76.64	104.126		
7,900.00	7,090.67	7,381.70	7,273.63	63.87	29.93	131.10	-6,100.31	1,233.82	8,013.40	7,935.80	77.60	103.264		
8,000.00	7,176.94	7,521.08	7,412.95	64.87	30.30	131.49	-6,096.83	1,236.13	8,046.72	7,968.03	78.69	102.259		
8,027.52	7,200.68	7,549.08	7,440.93	65.15	30.38	131.57	-6,096.07	1,236.76	8,055.84	7,976.88	78.95	102.033		
8,050.00	7,220.18	7,572.10	7,463.94	65.37	30.44	128.11	-6,095.44	1,237.32	8,062.87	7,983.70	79.17	101.842		
8,100.00	7,264.25	7,621.70	7,513.50	65.85	30.57	119.50	-6,094.09	1,238.69	8,075.54	7,995.89	79.65	101.383		
8,150.00	7,308.99	7,670.87	7,562.63	66.28	30.70	109.82	-6,092.76	1,240.23	8,084.03	8,003.88	80.14	100.872		
8,200.00	7,354.07	7,726.93	7,618.64	66.67	30.85	99.54	-6,091.22	1,242.13	8,088.26	8,007.61	80.65	100.284		
8,250.00	7,399.14	7,785.10	7,676.75	67.02	31.01	89.36	-6,089.52	1,244.01	8,088.18	8,007.01	81.17	99.647		
8,300.00	7,443.85	7,802.74	7,694.37	67.32	31.06	79.86	-6,089.03	1,244.51	8,083.92	8,002.39	81.54	99.146		
8,350.00	7,487.88	7,825.34	7,716.96	67.56	31.12	71.64	-6,088.43	1,245.08	8,075.58	7,993.68	81.91	98.595		
8,400.00	7,530.87	8,114.63	8,005.84	67.75	31.89	65.74	-6,077.50	1,254.67	8,062.90	7,979.75	83.15	96.965		
8,450.00	7,572.51	8,141.01	8,032.16	67.90	31.96	60.35	-6,076.16	1,255.94	8,045.21	7,961.71	83.51	96.340		
8,500.00	7,612.48	8,156.00	8,047.11	68.00	32.00	56.13	-6,075.42	1,256.65	8,023.75	7,939.94	83.81	95.738		
8,550.00	7,650.47	8,181.00	8,072.06	68.05	32.06	53.01	-6,074.23	1,257.76	7,998.65	7,914.52	84.13	95.079		
8,600.00	7,686.20	8,197.33	8,088.36	68.06	32.11	50.76	-6,073.48	1,258.40	7,970.12	7,885.73	84.40	94.438		
8,650.00	7,719.39	8,212.38	8,103.39	68.03	32.15	49.33	-6,072.81	1,258.94	7,938.36	7,853.72	84.64	93.787		
8,700.00	7,749.79	8,226.05	8,117.04	67.97	32.19	48.67	-6,072.23	1,259.38	7,903.58	7,818.72	84.87	93.129		
8,750.00	7,777.17	8,250.00	8,140.95	67.87	32.25	48.89	-6,071.25	1,260.06	7,866.05	7,780.94	85.11	92.423		
8,800.00	7,801.32	8,250.00	8,140.95	67.74	32.25	49.81	-6,071.25	1,260.06	7,825.97	7,740.72	85.26	91.794		
8,850.00	7,822.06	8,263.22	8,154.16	67.59	32.29	51.91	-6,070.73	1,260.39	7,783.68	7,698.24	85.43	91.109		
8,900.00	7,839.23	8,275.45	8,166.38	67.41	32.32	55.43	-6,070.25	1,260.69	7,739.44	7,653.85	85.59	90.422		
8,950.00	7,852.69	8,284.72	8,175.63	67.22	32.35	60.97	-6,069.89	1,260.92	7,693.60	7,607.87	85.73	89.742		
9,000.00	7,862.35	8,290.93	8,181.84	67.00	32.36	69.58	-6,069.65	1,261.08	7,646.48	7,560.63	85.85	89.072		
9,050.00	7,868.14	8,294.04	8,184.95	66.78	32.37	82.81	-6,069.53	1,261.15	7,598.42	7,512.48	85.94	88.412		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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		
9,098.65	7,870.00	8,294.05	8,184.96	66.55	32.37	101.25	-6,069.53	1,261.15	7,551.12	7,465.10	86.02	87.783		
9,100.00	7,870.00	8,294.01	8,184.92	66.55	32.37	101.25	-6,069.53	1,261.15	7,549.80	7,463.78	86.02	87.765		
9,200.00	7,870.00	8,290.96	8,181.87	66.09	32.36	101.14	-6,069.65	1,261.08	7,452.27	7,366.10	86.16	86.489		
9,300.00	7,870.00	8,287.90	8,178.81	65.65	32.35	101.04	-6,069.77	1,261.00	7,354.80	7,268.49	86.31	85.211		
9,400.00	7,870.00	8,284.82	8,175.73	65.24	32.35	100.93	-6,069.89	1,260.93	7,257.40	7,170.93	86.47	83.933		
9,500.00	7,870.00	8,281.72	8,172.64	64.85	32.34	100.83	-6,070.01	1,260.85	7,160.06	7,073.44	86.63	82.654		
9,600.00	7,870.00	8,278.61	8,169.54	64.48	32.33	100.72	-6,070.13	1,260.77	7,062.80	6,976.01	86.79	81.375		
9,700.00	7,870.00	8,275.49	8,166.41	64.13	32.32	100.61	-6,070.25	1,260.70	6,965.62	6,878.65	86.97	80.095		
9,800.00	7,870.00	8,272.34	8,163.27	63.80	32.31	100.51	-6,070.37	1,260.62	6,868.51	6,781.37	87.15	78.815		
9,900.00	7,870.00	8,269.19	8,160.12	63.50	32.30	100.40	-6,070.49	1,260.54	6,771.49	6,684.16	87.33	77.535		
10,000.00	7,870.00	8,266.01	8,156.95	63.22	32.29	100.29	-6,070.62	1,260.46	6,674.56	6,587.03	87.53	76.254		
10,100.00	7,870.00	8,262.82	8,153.76	62.96	32.29	100.18	-6,070.74	1,260.38	6,577.71	6,489.98	87.73	74.973		
10,200.00	7,870.00	8,259.62	8,150.56	62.72	32.28	100.07	-6,070.87	1,260.30	6,480.96	6,393.01	87.95	73.692		
10,300.00	7,870.00	8,256.39	8,147.34	62.50	32.27	99.96	-6,071.00	1,260.22	6,384.30	6,296.14	88.17	72.411		
10,400.00	7,870.00	8,253.15	8,144.10	62.31	32.26	99.85	-6,071.12	1,260.14	6,287.75	6,199.35	88.40	71.130		
10,500.00	7,870.00	8,250.00	8,140.95	62.15	32.25	99.74	-6,071.25	1,260.06	6,191.31	6,102.67	88.64	69.849		
10,600.00	7,870.00	8,250.00	8,140.95	62.01	32.25	99.74	-6,071.25	1,260.06	6,094.98	6,006.07	88.90	68.558		
10,700.00	7,870.00	8,250.00	8,140.95	61.90	32.25	99.74	-6,071.25	1,260.06	5,998.77	5,909.59	89.18	67.267		
10,800.00	7,870.00	8,250.00	8,140.95	61.82	32.25	99.74	-6,071.25	1,260.06	5,902.68	5,813.22	89.46	65.978		
10,900.00	7,870.00	8,250.00	8,140.95	61.78	32.25	99.74	-6,071.25	1,260.06	5,806.73	5,716.96	89.76	64.689		
11,000.00	7,870.00	8,250.00	8,140.95	61.77	32.25	99.74	-6,071.25	1,260.06	5,710.91	5,620.84	90.08	63.401		
11,100.00	7,870.00	8,250.00	8,140.95	61.81	32.25	99.74	-6,071.25	1,260.06	5,615.25	5,524.84	90.40	62.114		
11,200.00	7,870.00	8,250.00	8,140.95	61.90	32.25	99.74	-6,071.25	1,260.06	5,519.73	5,428.99	90.74	60.829		
11,300.00	7,870.00	8,250.00	8,140.95	62.03	32.25	99.74	-6,071.25	1,260.06	5,424.38	5,333.28	91.10	59.545		
11,400.00	7,870.00	8,230.92	8,121.90	62.23	32.20	99.08	-6,072.03	1,259.53	5,329.13	5,237.75	91.38	58.316		
11,500.00	7,870.00	8,228.70	8,119.68	62.50	32.19	99.01	-6,072.12	1,259.47	5,234.11	5,142.35	91.76	57.041		
11,600.00	7,870.00	8,226.45	8,117.43	62.84	32.19	98.93	-6,072.21	1,259.40	5,139.28	5,047.13	92.15	55.768		
11,700.00	7,870.00	8,224.18	8,115.16	63.25	32.18	98.85	-6,072.31	1,259.33	5,044.65	4,952.08	92.57	54.497		
11,800.00	7,870.00	8,221.88	8,112.87	63.76	32.17	98.77	-6,072.41	1,259.25	4,950.22	4,857.22	93.00	53.228		
11,900.00	7,870.00	8,219.56	8,110.55	64.34	32.17	98.69	-6,072.51	1,259.18	4,856.02	4,762.57	93.45	51.962		
12,000.00	7,870.00	8,217.21	8,108.21	65.01	32.16	98.61	-6,072.61	1,259.10	4,762.05	4,668.12	93.93	50.699		
12,100.00	7,870.00	8,214.84	8,105.84	65.77	32.16	98.53	-6,072.71	1,259.02	4,668.33	4,573.90	94.42	49.440		
12,200.00	7,870.00	8,212.44	8,103.44	66.61	32.15	98.45	-6,072.81	1,258.94	4,574.87	4,479.92	94.95	48.184		
12,300.00	7,870.00	8,210.01	8,101.02	67.51	32.14	98.36	-6,072.92	1,258.86	4,481.69	4,386.20	95.49	46.932		
12,400.00	7,870.00	8,207.56	8,098.57	68.49	32.14	98.28	-6,073.03	1,258.77	4,388.81	4,292.74	96.07	45.684		
12,500.00	7,870.00	8,205.08	8,096.09	69.52	32.13	98.19	-6,073.13	1,258.69	4,296.25	4,199.57	96.67	44.441		
12,600.00	7,870.00	8,202.57	8,093.59	70.61	32.12	98.10	-6,073.25	1,258.60	4,204.02	4,106.71	97.31	43.203		
12,700.00	7,870.00	8,200.03	8,091.06	71.75	32.12	98.02	-6,073.36	1,258.50	4,112.16	4,014.18	97.98	41.970		
12,800.00	7,870.00	8,197.47	8,088.50	72.93	32.11	97.93	-6,073.47	1,258.41	4,020.68	3,922.00	98.68	40.744		
12,900.00	7,870.00	8,194.87	8,085.91	74.14	32.10	97.84	-6,073.59	1,258.31	3,929.61	3,830.19	99.42	39.525		
13,000.00	7,870.00	8,192.25	8,083.28	75.39	32.10	97.75	-6,073.71	1,258.21	3,838.99	3,738.79	100.20	38.313		
13,100.00	7,870.00	8,189.59	8,080.63	76.67	32.09	97.65	-6,073.83	1,258.10	3,748.84	3,647.82	101.02	37.109		
13,200.00	7,870.00	8,186.91	8,077.95	77.98	32.08	97.56	-6,073.95	1,258.00	3,659.19	3,557.31	101.89	35.914		
13,300.00	7,870.00	8,184.19	8,075.24	79.31	32.07	97.47	-6,074.08	1,257.89	3,570.10	3,467.30	102.80	34.728		
13,400.00	7,870.00	8,181.44	8,072.49	80.67	32.07	97.37	-6,074.21	1,257.78	3,481.59	3,377.83	103.76	33.553		
13,500.00	7,870.00	8,178.65	8,069.72	82.04	32.06	97.27	-6,074.34	1,257.66	3,393.72	3,288.94	104.78	32.389		
13,600.00	7,870.00	8,175.84	8,066.91	83.43	32.05	97.18	-6,074.47	1,257.54	3,306.53	3,200.68	105.85	31.237		
13,700.00	7,870.00	8,172.99	8,064.06	84.84	32.04	97.08	-6,074.60	1,257.42	3,220.08	3,113.10	106.99	30.098		
13,800.00	7,870.00	8,170.10	8,061.18	86.27	32.04	96.98	-6,074.74	1,257.29	3,134.44	3,026.26	108.18	28.974		
13,900.00	7,870.00	8,156.00	8,047.11	87.71	32.00	96.49	-6,075.42	1,256.65	3,049.70	2,940.32	109.37	27.883		
14,000.00	7,870.00	8,156.00	8,047.11	89.16	32.00	96.49	-6,075.42	1,256.65	2,965.85	2,855.12	110.73	26.786		
14,100.00	7,870.00	8,156.00	8,047.11	90.63	32.00	96.49	-6,075.42	1,256.65	2,883.03	2,770.88	112.15	25.707		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	7,870.00	8,156.00	8,047.11	92.10	32.00	96.49	-6,075.42	1,256.65	2,801.34	2,687.68	113.65	24.648		
14,300.00	7,870.00	8,154.87	8,045.98	93.59	31.99	96.45	-6,075.48	1,256.60	2,720.86	2,605.63	115.23	23.612		
14,400.00	7,870.00	8,150.75	8,041.88	95.09	31.98	96.30	-6,075.68	1,256.40	2,641.72	2,524.85	116.87	22.604		
14,500.00	7,870.00	8,146.59	8,037.73	96.60	31.97	96.16	-6,075.88	1,256.21	2,564.03	2,445.43	118.60	21.620		
14,600.00	7,870.00	8,142.39	8,033.53	98.11	31.96	96.01	-6,076.09	1,256.01	2,487.92	2,367.51	120.41	20.662		
14,700.00	7,870.00	8,138.14	8,029.29	99.64	31.95	95.86	-6,076.31	1,255.80	2,413.54	2,291.24	122.31	19.734		
14,800.00	7,870.00	8,133.84	8,025.01	101.17	31.94	95.71	-6,076.52	1,255.60	2,341.07	2,216.78	124.29	18.836		
14,900.00	7,870.00	8,129.50	8,020.67	102.71	31.93	95.56	-6,076.74	1,255.39	2,270.68	2,144.32	126.36	17.970		
15,000.00	7,870.00	8,125.10	8,016.29	104.26	31.92	95.41	-6,076.97	1,255.18	2,202.57	2,074.07	128.50	17.141		
15,100.00	7,870.00	8,120.66	8,011.85	105.82	31.91	95.25	-6,077.19	1,254.96	2,136.96	2,006.25	130.71	16.348		
15,200.00	7,870.00	8,116.16	8,007.37	107.38	31.89	95.10	-6,077.43	1,254.74	2,074.09	1,941.10	132.99	15.596		
15,300.00	7,870.00	8,111.61	8,002.83	108.95	31.88	94.94	-6,077.66	1,254.52	2,014.20	1,878.91	135.30	14.887		
15,400.00	7,870.00	8,107.01	7,998.24	110.52	31.87	94.78	-6,077.90	1,254.30	1,957.59	1,819.96	137.64	14.223		
15,500.00	7,870.00	8,102.36	7,993.60	112.10	31.86	94.61	-6,078.14	1,254.07	1,904.54	1,764.57	139.97	13.607		
15,600.00	7,870.00	8,097.65	7,988.91	113.69	31.85	94.45	-6,078.39	1,253.84	1,855.34	1,713.08	142.27	13.041		
15,700.00	7,870.00	8,092.89	7,984.16	115.28	31.83	94.28	-6,078.64	1,253.60	1,810.33	1,665.84	144.49	12.529		
15,800.00	7,870.00	8,088.07	7,979.35	116.87	31.82	94.11	-6,078.90	1,253.36	1,769.81	1,623.20	146.61	12.072		
15,900.00	7,870.00	8,083.20	7,974.49	118.47	31.81	93.94	-6,079.16	1,253.12	1,734.11	1,585.54	148.57	11.672		
16,000.00	7,870.00	8,078.27	7,969.57	120.07	31.80	93.77	-6,079.43	1,252.87	1,703.52	1,553.20	150.32	11.333		
16,100.00	7,870.00	8,073.27	7,964.59	121.68	31.78	93.60	-6,079.70	1,252.62	1,678.32	1,526.51	151.81	11.055		
16,200.00	7,870.00	8,074.03	7,965.34	123.30	31.79	93.62	-6,079.63	1,252.68	1,658.75	1,505.70	153.05	10.838		
16,300.00	7,870.00	8,064.65	7,955.99	124.91	31.76	93.29	-6,080.17	1,252.19	1,645.04	1,491.16	153.88	10.691		
16,400.00	7,870.00	8,055.89	7,947.25	126.53	31.74	92.99	-6,080.65	1,251.74	1,637.31	1,482.96	154.34	10.608		
16,477.51	7,870.00	8,049.48	7,940.87	127.79	31.72	92.76	-6,080.99	1,251.43	1,635.48	1,481.04	154.44	10.590 CC, ES, SF		
16,500.00	7,870.00	8,047.68	7,939.07	128.16	31.72	92.70	-6,081.09	1,251.34	1,635.63	1,481.21	154.42	10.592		
16,600.00	7,870.00	8,039.98	7,931.39	129.79	31.70	92.43	-6,081.48	1,250.98	1,640.04	1,485.92	154.12	10.642		
16,700.00	7,870.00	8,032.75	7,924.17	131.42	31.68	92.18	-6,081.85	1,250.65	1,650.48	1,497.05	153.43	10.757		
16,800.00	7,870.00	8,025.93	7,917.37	133.05	31.66	91.94	-6,082.18	1,250.35	1,666.85	1,514.47	152.38	10.939		
16,900.00	7,870.00	8,019.50	7,910.95	134.69	31.64	91.71	-6,082.48	1,250.08	1,688.97	1,537.97	151.00	11.185		
17,000.00	7,870.00	8,013.42	7,904.88	136.33	31.63	91.50	-6,082.76	1,249.82	1,716.62	1,567.28	149.34	11.495		
17,100.00	7,870.00	8,007.67	7,899.14	137.97	31.61	91.30	-6,083.02	1,249.59	1,749.54	1,602.11	147.43	11.867		
17,200.00	7,870.00	8,002.21	7,893.70	139.62	31.60	91.11	-6,083.25	1,249.38	1,787.45	1,642.11	145.34	12.298		
17,300.00	7,870.00	7,997.04	7,888.53	141.27	31.58	90.93	-6,083.47	1,249.18	1,830.03	1,686.92	143.10	12.788		
17,400.00	7,870.00	7,992.12	7,883.62	142.92	31.57	90.76	-6,083.67	1,249.00	1,876.96	1,736.19	140.76	13.334		
17,500.00	7,870.00	7,987.44	7,878.94	144.58	31.56	90.59	-6,083.86	1,248.83	1,927.93	1,789.56	138.37	13.933		
17,600.00	7,870.00	7,983.02	7,874.53	146.23	31.55	90.44	-6,084.04	1,248.68	1,982.63	1,846.67	135.96	14.583		
17,700.00	7,870.00	7,978.83	7,870.35	147.89	31.54	90.29	-6,084.20	1,248.54	2,040.76	1,907.21	133.55	15.281		
17,800.00	7,870.00	7,974.78	7,866.30	149.56	31.53	90.15	-6,084.35	1,248.40	2,102.03	1,970.86	131.17	16.025		
17,900.00	7,870.00	7,970.86	7,862.39	151.22	31.51	90.01	-6,084.49	1,248.28	2,166.18	2,037.33	128.85	16.811		
18,000.00	7,870.00	7,967.06	7,858.59	152.89	31.50	89.88	-6,084.63	1,248.16	2,232.96	2,106.37	126.60	17.638		
18,100.00	7,870.00	7,963.38	7,854.91	154.55	31.49	89.75	-6,084.76	1,248.05	2,302.15	2,177.72	124.42	18.503		
18,200.00	7,870.00	7,959.81	7,851.35	156.22	31.48	89.63	-6,084.88	1,247.94	2,373.52	2,251.19	122.33	19.402		
18,300.00	7,870.00	7,956.34	7,847.88	157.90	31.48	89.51	-6,085.00	1,247.84	2,446.90	2,326.57	120.33	20.334		
18,400.00	7,870.00	7,952.98	7,844.52	159.57	31.47	89.39	-6,085.11	1,247.74	2,522.10	2,403.67	118.43	21.297		
18,500.00	7,870.00	7,949.71	7,841.26	161.25	31.46	89.27	-6,085.22	1,247.65	2,598.97	2,482.36	116.62	22.287		
18,600.00	7,870.00	7,946.54	7,838.09	162.93	31.45	89.16	-6,085.33	1,247.56	2,677.37	2,562.47	114.90	23.302		
18,700.00	7,870.00	7,943.45	7,835.01	164.60	31.44	89.06	-6,085.42	1,247.47	2,757.16	2,643.89	113.27	24.342		
18,797.52	7,870.00	7,940.53	7,832.09	166.24	31.43	88.95	-6,085.52	1,247.39	2,836.20	2,724.43	111.77	25.376		

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.00	-5,380.84	1,748.16	5,657.69					
100.00	100.00	108.59	108.59	0.13	0.20	162.00	-5,380.64	1,748.08	5,657.50	5,657.16	0.33	N/A		
178.48	178.48	171.48	171.48	0.42	0.42	162.00	-5,380.50	1,748.21	5,657.39	5,656.55	0.84	6,761.552		
200.00	200.00	185.00	185.00	0.49	0.47	162.00	-5,380.49	1,748.27	5,657.40	5,656.44	0.96	5,884.718		
300.00	300.00	226.70	226.70	0.85	0.62	162.00	-5,380.61	1,748.74	5,658.04	5,656.57	1.47	3,856.501		
400.00	400.00	274.00	273.98	1.21	0.78	161.99	-5,381.13	1,749.90	5,659.76	5,657.76	1.99	2,841.510		
500.00	500.00	306.24	306.19	1.57	0.90	161.98	-5,381.71	1,751.10	5,662.51	5,660.04	2.47	2,295.883		
600.00	600.00	365.00	364.84	1.93	1.11	161.95	-5,383.20	1,754.27	5,666.42	5,663.39	3.03	1,867.771		
700.00	700.00	365.00	364.84	2.29	1.11	161.95	-5,383.20	1,754.27	5,671.33	5,667.94	3.39	1,671.797		
800.00	800.00	420.25	419.92	2.64	1.31	161.92	-5,385.25	1,758.18	5,677.26	5,673.31	3.95	1,437.041		
900.00	900.00	456.00	455.51	3.00	1.45	161.90	-5,386.98	1,761.04	5,684.39	5,679.95	4.44	1,281.315		
1,000.00	1,000.00	497.68	496.94	3.36	1.61	161.87	-5,389.29	1,764.96	5,692.59	5,687.64	4.95	1,150.394		
1,100.00	1,099.98	549.00	547.82	3.72	1.81	107.02	-5,392.37	1,770.90	5,702.35	5,696.86	5.49	1,038.366		
1,200.00	1,199.84	576.37	574.90	4.07	1.93	106.78	-5,394.18	1,774.49	5,714.13	5,708.18	5.95	960.762		
1,300.00	1,299.45	613.09	611.16	4.43	2.08	106.50	-5,396.88	1,779.56	5,728.01	5,721.56	6.44	889.092		
1,400.00	1,398.70	640.00	637.70	4.80	2.19	106.19	-5,399.06	1,783.46	5,743.96	5,737.06	6.90	831.938		
1,500.00	1,497.47	688.71	685.64	5.18	2.41	105.86	-5,403.42	1,790.90	5,761.87	5,754.40	7.47	771.333		
1,600.00	1,595.62	732.00	728.14	5.57	2.60	105.50	-5,407.73	1,797.90	5,781.76	5,773.74	8.03	720.277		
1,700.00	1,693.06	760.81	756.36	6.00	2.74	105.09	-5,410.83	1,802.82	5,803.60	5,795.05	8.55	678.820		
1,800.00	1,789.64	793.75	788.53	6.45	2.90	104.66	-5,414.60	1,808.78	5,827.41	5,818.29	9.11	639.458		
1,900.00	1,885.27	825.00	818.97	6.94	3.05	104.19	-5,418.42	1,814.77	5,853.14	5,843.44	9.70	603.604		
2,000.00	1,979.82	864.66	857.47	7.47	3.25	103.70	-5,423.55	1,822.74	5,880.70	5,870.34	10.36	567.602		
2,100.00	2,073.17	919.00	910.05	8.05	3.54	103.21	-5,431.07	1,834.23	5,910.08	5,898.95	11.13	531.072		
2,200.00	2,165.21	951.53	941.44	8.67	3.72	102.66	-5,435.77	1,841.37	5,940.99	5,929.14	11.84	501.574		
2,300.00	2,255.84	1,013.00	1,000.65	9.35	4.05	102.15	-5,444.82	1,855.16	5,973.32	5,960.58	12.74	468.752		
2,400.00	2,344.94	1,062.24	1,048.01	10.09	4.33	101.60	-5,452.31	1,866.38	6,006.99	5,993.36	13.63	440.603		
2,500.00	2,432.39	1,106.00	1,090.05	10.89	4.58	101.01	-5,459.23	1,876.36	6,042.04	6,027.49	14.55	415.174		
2,519.29	2,449.07	1,124.93	1,108.23	11.05	4.69	100.93	-5,462.29	1,880.67	6,048.94	6,034.15	14.79	408.983		
2,600.00	2,518.69	1,170.57	1,152.03	11.74	4.96	101.09	-5,469.82	1,891.02	6,078.15	6,062.53	15.62	389.156		
2,700.00	2,604.95	1,221.39	1,200.79	12.62	5.26	101.27	-5,478.47	1,902.46	6,114.91	6,098.28	16.63	367.672		
2,800.00	2,691.22	2,800.00	1,366.55	13.52	14.41	101.89	-5,507.43	1,939.26	6,151.19	6,126.32	24.87	247.327		
2,900.00	2,777.48	1,452.65	1,423.52	14.43	6.59	102.11	-5,517.28	1,951.06	6,187.45	6,168.08	19.37	319.372		
3,000.00	2,863.75	1,490.00	1,459.56	15.35	6.81	102.25	-5,523.86	1,958.35	6,224.53	6,204.19	20.34	305.978		
3,100.00	2,950.01	1,531.09	1,499.17	16.28	7.04	102.40	-5,531.44	1,966.21	6,262.45	6,241.12	21.33	293.577		
3,200.00	3,036.27	1,584.00	1,550.10	17.22	7.35	102.60	-5,541.82	1,976.10	6,301.30	6,278.91	22.38	281.504		
3,300.00	3,122.54	1,608.29	1,573.45	18.17	7.49	102.70	-5,546.78	1,980.57	6,340.87	6,317.59	23.28	272.343		
3,400.00	3,208.80	1,654.37	1,617.71	19.13	7.76	102.87	-5,556.41	1,989.03	6,381.23	6,356.94	24.30	262.644		
3,500.00	3,295.07	1,719.33	1,680.05	20.09	8.14	103.12	-5,570.38	2,000.83	6,422.23	6,396.82	25.41	252.733		
3,600.00	3,381.33	2,180.96	2,127.17	21.05	10.68	104.92	-5,659.36	2,072.57	6,461.18	6,432.59	28.59	226.028		
3,700.00	3,467.59	2,240.00	2,184.76	22.02	10.99	105.15	-5,669.60	2,080.57	6,498.11	6,468.44	29.67	219.017		
3,800.00	3,553.86	2,291.98	2,235.42	22.99	11.26	105.35	-5,678.83	2,087.71	6,535.62	6,504.90	30.72	212.766		
3,900.00	3,640.12	2,365.22	2,306.80	23.97	11.64	105.63	-5,691.68	2,097.88	6,573.34	6,541.47	31.87	206.248		
4,000.00	3,726.38	2,428.00	2,367.94	24.95	11.97	105.87	-5,703.13	2,106.31	6,611.71	6,578.74	32.97	200.545		
4,100.00	3,812.65	4,100.00	2,447.16	25.93	20.74	106.19	-5,718.03	2,116.92	6,650.35	6,609.64	40.71	163.348		
4,200.00	3,898.91	2,586.56	2,522.44	26.91	12.80	106.48	-5,732.07	2,127.18	6,689.13	6,653.80	35.33	189.353		
4,300.00	3,985.18	2,615.00	2,550.12	27.90	12.95	106.59	-5,737.29	2,131.12	6,728.54	6,692.30	36.24	185.691		
4,400.00	4,071.44	2,671.98	2,605.45	28.88	13.26	106.79	-5,748.03	2,139.44	6,768.57	6,731.27	37.30	181.468		
4,500.00	4,157.70	4,500.00	2,695.04	29.87	23.60	107.12	-5,765.72	2,154.47	6,809.20	6,762.85	46.36	146.890		
4,600.00	4,243.97	2,877.59	2,804.53	30.86	14.42	107.50	-5,786.56	2,173.47	6,849.45	6,809.49	39.96	171.398		
4,700.00	4,330.23	2,948.19	2,872.96	31.85	14.81	107.74	-5,799.76	2,184.73	6,890.02	6,848.91	41.11	167.615		
4,800.00	4,416.49	3,033.56	2,955.69	32.84	15.29	108.03	-5,815.83	2,198.30	6,930.85	6,888.52	42.33	163.727		
4,900.00	4,502.76	3,120.66	3,040.17	33.84	15.77	108.33	-5,832.18	2,211.84	6,971.76	6,928.20	43.56	160.039		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	3,189.57	3,107.07	34.83	16.15	108.56	-5,845.29	2,221.90	7,012.94	6,968.25	44.68	156.949		
5,100.00	4,675.29	3,242.34	3,158.26	35.82	16.44	108.74	-5,855.53	2,229.60	7,054.59	7,008.88	45.70	154.351		
5,200.00	4,761.55	3,295.79	3,210.04	36.82	16.73	108.92	-5,866.09	2,237.61	7,096.77	7,050.04	46.73	151.877		
5,300.00	4,847.81	3,349.95	3,262.46	37.82	17.04	109.11	-5,877.02	2,245.74	7,139.47	7,091.72	47.75	149.518		
5,400.00	4,934.08	3,484.40	3,392.60	38.81	17.79	109.55	-5,903.82	2,266.29	7,182.14	7,132.88	49.26	145.807		
5,500.00	5,020.34	3,539.95	3,446.32	39.81	18.11	109.72	-5,914.78	2,275.20	7,224.90	7,174.61	50.29	143.661		
5,600.00	5,106.60	3,578.17	3,483.22	40.81	18.33	109.84	-5,922.48	2,281.48	7,268.23	7,217.01	51.21	141.920		
5,700.00	5,192.87	3,610.83	3,514.71	41.81	18.52	109.95	-5,929.29	2,286.85	7,312.28	7,260.18	52.09	140.367		
5,800.00	5,279.13	3,647.00	3,549.53	42.81	18.73	110.06	-5,937.10	2,292.78	7,357.06	7,304.07	52.99	138.839		
5,900.00	5,365.40	3,682.99	3,582.67	43.81	18.94	110.17	-6,131.38	2,474.75	7,391.00	7,327.84	63.16	117.019		
6,000.00	5,451.66	3,786.17	3,655.80	44.81	19.15	110.28	-6,128.76	2,473.07	7,413.71	7,349.43	64.28	115.342		
6,100.00	5,537.92	3,867.53	3,737.12	45.81	19.36	110.39	-6,126.55	2,471.88	7,436.53	7,371.20	65.34	113.822		
6,200.00	5,624.19	3,947.78	3,814.32	46.81	19.57	110.50	-6,123.63	2,470.35	7,459.64	7,393.19	66.46	112.250		
6,300.00	5,710.45	4,030.18	3,896.66	47.81	19.78	110.61	-6,120.38	2,468.87	7,482.70	7,415.13	67.57	110.743		
6,400.00	5,796.72	4,114.43	3,980.84	48.81	19.99	110.72	-6,116.69	2,467.47	7,505.80	7,437.11	68.69	109.268		
6,500.00	5,882.98	4,199.20	4,066.53	49.81	20.20	110.83	-6,112.80	2,466.26	7,528.84	7,459.04	69.80	107.864		
6,600.00	5,969.24	4,284.00	4,152.28	50.82	20.41	110.94	-6,110.25	2,465.55	7,552.20	7,481.39	70.81	106.650		
6,700.00	6,055.51	4,369.63	4,238.86	51.82	20.62	111.05	-6,107.45	2,465.00	7,575.96	7,504.10	71.85	105.439		
6,800.00	6,141.77	4,455.33	4,324.51	52.82	20.83	111.16	-6,104.90	2,464.90	7,600.06	7,527.18	72.88	104.287		
6,900.00	6,228.03	4,541.39	4,410.54	53.83	21.04	111.27	-6,102.78	2,465.17	7,624.58	7,550.71	73.87	103.212		
7,000.00	6,314.30	4,627.00	4,496.12	54.83	21.25	111.38	-6,100.98	2,465.61	7,649.65	7,574.79	74.86	102.188		
7,100.00	6,400.56	4,712.46	4,581.55	55.83	21.46	111.49	-6,098.67	2,466.21	7,675.11	7,599.20	75.91	101.110		
7,200.00	6,486.83	4,798.68	4,667.70	56.84	21.67	111.60	-6,094.26	2,465.90	7,700.44	7,623.33	77.11	99.863		
7,300.00	6,573.09	4,884.45	4,753.40	57.84	21.88	111.71	-6,090.76	2,464.64	7,725.57	7,647.40	78.17	98.829		
7,400.00	6,659.35	4,970.19	4,839.08	58.84	22.09	111.82	-6,087.92	2,463.15	7,750.97	7,671.79	79.17	97.897		
7,500.00	6,745.62	5,055.73	4,924.55	59.85	22.30	111.93	-6,085.18	2,461.73	7,776.67	7,696.50	80.17	97.003		
7,600.00	6,831.88	5,141.34	5,010.11	60.85	22.51	112.04	-6,082.86	2,460.47	7,802.74	7,721.61	81.14	96.169		
7,700.00	6,918.14	5,227.36	5,095.07	61.86	22.72	112.15	-6,079.87	2,459.02	7,829.12	7,746.95	82.16	95.289		
7,800.00	7,004.41	5,313.33	5,180.00	62.86	22.93	112.26	-6,077.54	2,458.10	7,855.74	7,772.61	83.13	94.501		
7,900.00	7,090.67	5,399.90	5,265.53	63.87	23.14	112.37	-6,075.43	2,457.12	7,882.76	7,798.68	84.08	93.749		
8,000.00	7,176.94	5,485.71	5,351.31	64.87	23.35	112.48	-6,073.45	2,456.05	7,910.18	7,825.15	85.03	93.026		
8,027.52	7,200.68	5,532.67	5,401.26	65.15	31.53	123.09	-6,072.92	2,455.72	7,917.80	7,832.50	85.29	92.830		
8,050.00	7,220.18	5,549.04	5,417.62	65.37	31.57	119.74	-6,072.49	2,455.44	7,923.61	7,838.11	85.51	92.666		
8,100.00	7,264.25	5,585.91	5,454.47	65.85	31.67	111.31	-6,071.54	2,454.78	7,933.54	7,847.56	85.99	92.265		
8,150.00	7,308.99	5,618.10	5,486.64	66.28	31.75	101.72	-6,070.75	2,454.20	7,939.28	7,852.83	86.45	91.835		
8,200.00	7,354.07	5,650.03	5,518.57	66.67	31.84	91.46	-6,070.02	2,453.68	7,940.80	7,853.89	86.91	91.367		
8,250.00	7,399.14	5,683.00	5,551.52	67.02	31.92	81.23	-6,069.32	2,453.20	7,938.10	7,850.74	87.36	90.864		
8,300.00	7,443.85	5,738.67	5,607.18	67.32	32.08	71.81	-6,068.16	2,452.92	7,931.13	7,843.24	87.88	90.245		
8,350.00	7,487.88	5,796.15	5,664.64	67.56	32.25	63.59	-6,066.90	2,453.63	7,919.85	7,831.45	88.40	89.596		
8,400.00	7,530.87	5,853.02	5,721.47	67.75	32.41	56.71	-6,065.59	2,455.34	7,904.35	7,815.47	88.89	88.926		
8,450.00	7,572.51	5,926.02	5,794.38	67.90	32.63	51.18	-6,063.76	2,458.48	7,884.72	7,795.30	89.42	88.173		
8,500.00	7,612.48	5,993.95	5,862.22	68.00	32.83	46.78	-6,061.76	2,461.24	7,861.03	7,771.11	89.92	87.422		
8,550.00	7,650.47	6,047.22	5,915.43	68.05	32.99	43.29	-6,060.05	2,463.09	7,833.54	7,743.20	90.34	86.712		
8,600.00	7,686.20	6,087.59	5,955.76	68.06	33.11	40.58	-6,058.68	2,464.28	7,802.52	7,711.83	90.69	86.037		
8,650.00	7,719.39	6,121.48	5,989.62	68.03	33.21	38.53	-6,057.51	2,465.13	7,768.23	7,677.24	90.99	85.375		
8,700.00	7,749.79	6,152.18	6,020.30	67.97	33.30	37.09	-6,056.44	2,465.80	7,730.93	7,639.67	91.26	84.714		
8,750.00	7,777.17	6,175.98	6,044.07	67.87	33.37	36.20	-6,055.62	2,466.26	7,690.92	7,599.44	91.48	84.070		
8,800.00	7,801.32	6,196.23	6,064.31	67.74	33.43	35.90	-6,054.92	2,466.63	7,648.49	7,556.82	91.67	83.432		
8,850.00	7,822.06	6,213.38	6,081.45	67.59	33.48	36.30	-6,054.33	2,466.92	7,603.97	7,512.13	91.84	82.800		
8,900.00	7,839.23	6,227.29	6,095.35	67.41	33.52	37.69	-6,053.85	2,467.14	7,557.67	7,465.70	91.97	82.177		
8,950.00	7,852.69	6,237.86	6,105.91	67.22	33.55	40.74	-6,053.50	2,467.31	7,509.94	7,417.86	92.07	81.565		
9,000.00	7,862.35	6,245.01	6,113.06	67.00	33.57	47.47	-6,053.25	2,467.41	7,461.13	7,368.98	92.15	80.965		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	8,248.69	8,116.73	66.78	33.58	65.74	-6,053.13	2,467.47	7,411.62	7,319.42	92.21	80.381		
9,098.65	7,870.00	8,248.90	8,116.94	66.55	33.58	121.30	-6,053.12	2,467.47	7,363.13	7,270.89	92.24	79.829		
9,100.00	7,870.00	8,248.86	8,116.90	66.55	33.58	121.30	-6,053.12	2,467.47	7,361.78	7,269.54	92.24	79.814		
9,200.00	7,870.00	8,245.86	8,113.91	66.09	33.57	120.99	-6,053.23	2,467.43	7,262.00	7,169.72	92.28	78.697		
9,300.00	7,870.00	8,242.86	8,110.91	65.65	33.56	120.69	-6,053.33	2,467.38	7,162.23	7,069.91	92.32	77.580		
9,400.00	7,870.00	8,239.85	8,107.90	65.24	33.55	120.38	-6,053.43	2,467.34	7,062.46	6,970.10	92.36	76.463		
9,500.00	7,870.00	8,236.83	8,104.88	64.85	33.55	120.07	-6,053.53	2,467.29	6,962.70	6,870.29	92.41	75.345		
9,600.00	7,870.00	8,233.80	8,101.86	64.48	33.54	119.75	-6,053.63	2,467.24	6,862.94	6,770.48	92.46	74.226		
9,700.00	7,870.00	8,230.77	8,098.83	64.13	33.53	119.44	-6,053.74	2,467.20	6,763.19	6,670.68	92.51	73.107		
9,800.00	7,870.00	8,227.73	8,095.79	63.80	33.52	119.12	-6,053.84	2,467.15	6,663.45	6,570.88	92.56	71.988		
9,900.00	7,870.00	8,224.68	8,092.74	63.50	33.51	118.79	-6,053.94	2,467.10	6,563.71	6,471.09	92.62	70.868		
10,000.00	7,870.00	8,221.62	8,089.69	63.22	33.50	118.47	-6,054.05	2,467.05	6,463.98	6,371.30	92.68	69.747		
10,100.00	7,870.00	8,218.56	8,086.63	62.96	33.49	118.14	-6,054.15	2,467.00	6,364.25	6,271.51	92.74	68.626		
10,200.00	7,870.00	8,215.49	8,083.56	62.72	33.48	117.81	-6,054.26	2,466.95	6,264.53	6,171.73	92.80	67.505		
10,300.00	7,870.00	8,212.41	8,080.48	62.50	33.47	117.48	-6,054.36	2,466.90	6,164.82	6,071.95	92.87	66.383		
10,400.00	7,870.00	8,209.32	8,077.39	62.31	33.47	117.14	-6,054.47	2,466.85	6,065.12	5,972.18	92.94	65.261		
10,500.00	7,870.00	8,206.22	8,074.30	62.15	33.46	116.80	-6,054.57	2,466.80	5,965.42	5,872.41	93.01	64.139		
10,600.00	7,870.00	8,203.12	8,071.20	62.01	33.45	116.46	-6,054.68	2,466.75	5,865.74	5,772.65	93.08	63.016		
10,700.00	7,870.00	8,200.01	8,068.09	61.90	33.44	116.11	-6,054.79	2,466.69	5,766.06	5,672.90	93.16	61.893		
10,800.00	7,870.00	8,196.89	8,064.97	61.82	33.43	115.76	-6,054.89	2,466.64	5,666.39	5,573.15	93.24	60.770		
10,900.00	7,870.00	8,193.76	8,061.85	61.78	33.42	115.41	-6,055.00	2,466.58	5,566.73	5,473.40	93.33	59.647		
11,000.00	7,870.00	8,190.63	8,058.71	61.77	33.41	115.06	-6,055.11	2,466.53	5,467.08	5,373.67	93.42	58.523		
11,100.00	7,870.00	8,187.48	8,055.57	61.81	33.40	114.70	-6,055.22	2,466.47	5,367.45	5,273.94	93.51	57.399		
11,200.00	7,870.00	8,184.33	8,052.42	61.90	33.39	114.34	-6,055.33	2,466.42	5,267.82	5,174.21	93.61	56.275		
11,300.00	7,870.00	8,181.17	8,049.27	62.03	33.38	113.98	-6,055.44	2,466.36	5,168.21	5,074.50	93.71	55.151		
11,400.00	7,870.00	8,178.00	8,046.10	62.23	33.38	113.62	-6,055.55	2,466.30	5,068.61	4,974.79	93.82	54.027		
11,500.00	7,870.00	8,174.83	8,042.93	62.50	33.37	113.25	-6,055.66	2,466.24	4,969.03	4,875.10	93.93	52.902		
11,600.00	7,870.00	8,171.64	8,039.75	62.84	33.36	112.88	-6,055.77	2,466.18	4,869.45	4,775.41	94.05	51.778		
11,700.00	7,870.00	8,168.45	8,036.56	63.25	33.35	112.50	-6,055.88	2,466.12	4,769.90	4,675.73	94.17	50.653		
11,800.00	7,870.00	8,165.25	8,033.36	63.76	33.34	112.12	-6,055.99	2,466.06	4,670.36	4,576.07	94.30	49.529		
11,900.00	7,870.00	8,162.58	8,030.69	64.34	33.33	111.81	-6,056.08	2,466.01	4,570.84	4,476.41	94.43	48.403		
12,000.00	7,870.00	8,159.07	8,027.18	65.01	33.32	111.39	-6,056.20	2,465.94	4,471.34	4,376.76	94.57	47.279		
12,100.00	7,870.00	8,155.57	8,023.68	65.77	33.31	110.97	-6,056.33	2,465.87	4,371.86	4,277.14	94.72	46.155		
12,200.00	7,870.00	8,152.07	8,020.18	66.61	33.30	110.55	-6,056.45	2,465.80	4,272.40	4,177.52	94.87	45.032		
12,300.00	7,870.00	8,148.58	8,016.70	67.51	33.29	110.13	-6,056.57	2,465.73	4,172.96	4,077.92	95.04	43.908		
12,400.00	7,870.00	8,145.09	8,013.22	68.49	33.28	109.70	-6,056.69	2,465.66	4,073.55	3,978.34	95.21	42.785		
12,500.00	7,870.00	8,141.62	8,009.74	69.52	33.27	109.28	-6,056.81	2,465.59	3,974.16	3,878.77	95.39	41.662		
12,600.00	7,870.00	8,138.15	8,006.28	70.61	33.26	108.85	-6,056.93	2,465.51	3,874.80	3,779.22	95.58	40.539		
12,700.00	7,870.00	8,134.69	8,002.82	71.75	33.25	108.43	-6,057.05	2,465.44	3,775.47	3,679.69	95.78	39.416		
12,800.00	7,870.00	8,131.24	7,999.37	72.93	33.24	108.00	-6,057.17	2,465.36	3,676.18	3,580.18	96.00	38.294		
12,900.00	7,870.00	8,127.79	7,995.93	74.14	33.23	107.57	-6,057.29	2,465.28	3,576.92	3,480.69	96.23	37.172		
13,000.00	7,870.00	8,124.35	7,992.49	75.39	33.22	107.14	-6,057.41	2,465.20	3,477.70	3,381.23	96.47	36.050		
13,100.00	7,870.00	8,120.92	7,989.06	76.67	33.21	106.71	-6,057.53	2,465.12	3,378.52	3,281.80	96.72	34.929		
13,200.00	7,870.00	8,117.49	7,985.64	77.98	33.20	106.28	-6,057.65	2,465.04	3,279.39	3,182.40	97.00	33.809		
13,300.00	7,870.00	8,114.07	7,982.22	79.31	33.19	105.84	-6,057.77	2,464.96	3,180.31	3,083.03	97.29	32.689		
13,400.00	7,870.00	8,110.66	7,978.82	80.67	33.18	105.41	-6,057.89	2,464.87	3,081.29	2,983.69	97.60	31.570		
13,500.00	7,870.00	8,107.26	7,975.42	82.04	33.17	104.97	-6,058.00	2,464.79	2,982.33	2,884.39	97.94	30.452		
13,600.00	7,870.00	8,103.86	7,972.02	83.43	33.16	104.54	-6,058.12	2,464.70	2,883.43	2,785.14	98.29	29.335		
13,700.00	7,870.00	8,100.47	7,968.64	84.84	33.15	104.10	-6,058.24	2,464.62	2,784.61	2,685.93	98.68	28.219		
13,800.00	7,870.00	8,097.09	7,965.26	86.27	33.14	103.67	-6,058.35	2,464.53	2,685.87	2,586.78	99.10	27.104		
13,900.00	7,870.00	8,093.72	7,961.88	87.71	33.13	103.23	-6,058.47	2,464.44	2,587.23	2,487.68	99.55	25.990		
14,000.00	7,870.00	8,090.35	7,958.52	89.16	33.12	102.79	-6,058.58	2,464.35	2,488.69	2,388.65	100.03	24.879		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	8,086.99	7,955.16	90.63	33.11	102.35	-6,058.70	2,464.26	2,390.26	2,289.70	100.56	23.769		
14,200.00	7,870.00	8,083.63	7,951.81	92.10	33.10	101.91	-6,058.81	2,464.17	2,291.97	2,190.83	101.14	22.661		
14,300.00	7,870.00	8,080.28	7,948.47	93.59	33.09	101.48	-6,058.93	2,464.07	2,193.82	2,092.05	101.78	21.556		
14,400.00	7,870.00	8,076.94	7,945.13	95.09	33.08	101.04	-6,059.04	2,463.98	2,095.85	1,993.38	102.47	20.453		
14,500.00	7,870.00	8,073.61	7,941.80	96.60	33.07	100.60	-6,059.15	2,463.88	1,998.07	1,894.83	103.24	19.354		
14,600.00	7,870.00	8,070.28	7,939.01	98.11	33.06	100.23	-6,059.25	2,463.80	1,900.51	1,796.42	104.10	18.257		
14,700.00	7,870.00	8,067.29	7,935.48	99.64	33.05	99.76	-6,059.37	2,463.70	1,803.22	1,698.18	105.04	17.167		
14,800.00	7,870.00	8,063.79	7,931.98	101.17	33.04	99.29	-6,059.49	2,463.60	1,706.23	1,600.14	106.10	16.082		
14,900.00	7,870.00	8,060.31	7,928.51	102.71	33.03	98.83	-6,059.61	2,463.49	1,609.61	1,502.32	107.29	15.003		
15,000.00	7,870.00	8,056.87	7,925.07	104.26	33.02	98.37	-6,059.72	2,463.39	1,513.41	1,404.78	108.63	13.932		
15,100.00	7,870.00	8,053.46	7,921.66	105.82	33.01	97.92	-6,059.84	2,463.28	1,417.73	1,307.57	110.16	12.870		
15,200.00	7,870.00	8,050.07	7,918.28	107.38	33.00	97.46	-6,059.95	2,463.18	1,322.69	1,210.78	111.91	11.819		
15,300.00	7,870.00	8,046.71	7,914.93	108.95	32.99	97.01	-6,060.06	2,463.07	1,228.42	1,114.49	113.93	10.782		
15,400.00	7,870.00	8,043.38	7,911.60	110.52	32.98	96.57	-6,060.17	2,462.97	1,135.13	1,018.85	116.28	9.762		
15,500.00	7,870.00	8,040.08	7,908.30	112.10	32.97	96.12	-6,060.28	2,462.86	1,043.06	924.04	119.02	8.764		
15,600.00	7,870.00	8,036.81	7,905.03	113.69	32.96	95.68	-6,060.39	2,462.75	952.59	830.35	122.24	7.793		
15,700.00	7,870.00	8,033.56	7,901.79	115.28	32.95	95.25	-6,060.50	2,462.64	864.21	738.18	126.03	6.857		
15,800.00	7,870.00	8,030.34	7,898.57	116.87	32.94	94.81	-6,060.60	2,462.54	778.63	648.13	130.49	5.967		
15,900.00	7,870.00	8,027.14	7,895.38	118.47	32.93	94.38	-6,060.71	2,462.43	696.88	561.18	135.70	5.136		
16,000.00	7,870.00	8,023.97	7,892.21	120.07	32.92	93.95	-6,060.81	2,462.32	620.49	478.88	141.61	4.382		
16,100.00	7,870.00	8,020.83	7,889.07	121.68	32.91	93.53	-6,060.91	2,462.21	551.68	403.75	147.93	3.729		
16,200.00	7,870.00	8,017.71	7,885.96	123.30	32.91	93.11	-6,061.01	2,462.10	493.63	339.84	153.79	3.210		
16,300.00	7,870.00	8,014.62	7,882.87	124.91	32.90	92.69	-6,061.11	2,461.99	450.52	293.02	157.50	2.860		
16,400.00	7,870.00	8,011.55	7,879.81	126.53	32.89	92.27	-6,061.21	2,461.89	426.91	270.10	156.81	2.722 SF		
16,453.69	7,870.00	8,009.92	7,878.17	127.41	32.88	92.05	-6,061.26	2,461.83	423.52	269.45	154.07	2.749 CC, ES		
16,500.00	7,870.00	8,008.51	7,876.77	128.16	32.88	91.86	-6,061.31	2,461.78	426.05	275.63	150.41	2.833		
16,600.00	7,870.00	8,005.49	7,873.75	129.79	32.87	91.45	-6,061.40	2,461.67	448.06	308.52	139.53	3.211		
16,700.00	7,870.00	8,002.49	7,870.76	131.42	32.86	91.05	-6,061.50	2,461.56	489.88	362.72	127.16	3.852		
16,800.00	7,870.00	7,999.52	7,867.79	133.05	32.85	90.65	-6,061.59	2,461.45	546.98	431.20	115.78	4.724		
16,900.00	7,870.00	7,996.57	7,864.84	134.69	32.84	90.25	-6,061.68	2,461.34	615.12	508.62	106.50	5.776		
17,000.00	7,870.00	7,993.65	7,861.92	136.33	32.83	89.85	-6,061.77	2,461.23	691.04	591.62	99.42	6.951		
17,100.00	7,870.00	7,990.75	7,859.02	137.97	32.82	89.46	-6,061.86	2,461.12	772.46	678.24	94.22	8.199		
17,200.00	7,870.00	7,987.87	7,856.15	139.62	32.82	89.07	-6,061.95	2,461.01	857.80	767.32	90.48	9.481		
17,300.00	7,870.00	7,985.01	7,853.29	141.27	32.81	88.69	-6,062.04	2,460.90	946.01	858.18	87.83	10.771		
17,400.00	7,870.00	7,982.17	7,850.46	142.92	32.80	88.31	-6,062.13	2,460.79	1,036.36	950.38	85.98	12.054		
17,500.00	7,870.00	7,979.36	7,847.65	144.58	32.79	87.93	-6,062.21	2,460.68	1,128.32	1,043.63	84.70	13.322		
17,600.00	7,870.00	7,976.56	7,844.86	146.23	32.78	87.55	-6,062.30	2,460.57	1,221.55	1,137.72	83.83	14.572		
17,700.00	7,870.00	7,973.79	7,842.09	147.89	32.77	87.18	-6,062.38	2,460.46	1,315.76	1,232.50	83.26	15.803		
17,800.00	7,870.00	7,971.05	7,839.35	149.56	32.77	86.81	-6,062.46	2,460.35	1,410.76	1,327.86	82.90	17.018		
17,900.00	7,870.00	7,968.31	7,836.62	151.22	32.76	86.45	-6,062.55	2,460.24	1,506.41	1,423.72	82.69	18.217		
18,000.00	7,870.00	7,965.61	7,833.92	152.89	32.75	86.08	-6,062.63	2,460.13	1,602.58	1,519.99	82.59	19.403		
18,100.00	7,870.00	7,962.93	7,831.24	154.55	32.74	85.73	-6,062.71	2,460.02	1,699.19	1,616.61	82.57	20.578		
18,200.00	7,870.00	7,960.29	7,828.60	156.22	32.73	85.37	-6,062.79	2,459.91	1,796.16	1,713.55	82.61	21.742		
18,300.00	7,870.00	7,957.67	7,825.99	157.90	32.73	85.03	-6,062.86	2,459.80	1,893.45	1,810.76	82.69	22.898		
18,400.00	7,870.00	7,955.09	7,823.41	159.57	32.72	84.68	-6,062.94	2,459.69	1,991.00	1,908.20	82.80	24.046		
18,500.00	7,870.00	7,952.53	7,820.85	161.25	32.71	84.34	-6,063.01	2,459.59	2,088.78	2,005.85	82.93	25.188		
18,600.00	7,870.00	7,950.00	7,818.33	162.93	32.70	84.01	-6,063.09	2,459.48	2,186.76	2,103.69	83.07	26.324		
18,700.00	7,870.00	7,947.50	7,815.83	164.60	32.69	83.68	-6,063.16	2,459.38	2,284.90	2,201.68	83.22	27.455		
18,797.52	7,870.00	7,945.08	7,813.42	166.24	32.69	83.36	-6,063.23	2,459.28	2,380.76	2,297.38	83.38	28.554		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	148.75	-5,442.61	3,302.51	6,366.26					
100.00	100.00	59.21	59.21	0.13	0.09	148.75	-5,442.76	3,302.43	6,366.31	6,366.09	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	148.76	-5,443.34	3,301.37	6,366.24	6,365.31	0.93	6,847.478		
212.41	212.41	188.42	188.41	0.54	0.52	148.77	-5,443.50	3,300.97	6,366.17	6,365.11	1.06	6,018.350		
300.00	300.00	224.17	224.15	0.85	0.65	148.77	-5,443.93	3,300.54	6,366.53	6,365.03	1.50	4,244.846		
400.00	400.00	255.00	254.98	1.21	0.76	148.78	-5,444.48	3,300.33	6,367.83	6,365.86	1.97	3,233.529		
500.00	500.00	300.75	300.71	1.57	0.92	148.78	-5,445.64	3,300.31	6,370.06	6,367.57	2.49	2,557.729		
600.00	600.00	349.00	348.93	1.93	1.10	148.79	-5,447.33	3,300.68	6,373.34	6,370.32	3.02	2,110.154		
700.00	700.00	384.98	384.88	2.29	1.22	148.79	-5,448.84	3,301.18	6,377.49	6,373.99	3.51	1,818.929		
800.00	800.00	441.00	440.82	2.64	1.43	148.79	-5,451.45	3,302.23	6,382.43	6,378.37	4.06	1,571.213		
900.00	900.00	480.15	479.90	3.00	1.57	148.80	-5,453.56	3,303.13	6,388.18	6,383.62	4.56	1,401.329		
1,000.00	1,000.00	536.00	535.62	3.36	1.77	148.80	-5,457.11	3,304.58	6,394.87	6,389.75	5.11	1,250.332		
1,100.00	1,099.98	536.00	535.62	3.72	1.77	94.03	-5,457.11	3,304.58	6,402.65	6,397.19	5.47	1,171.438		
1,200.00	1,199.84	588.70	588.14	4.07	1.97	93.87	-5,461.22	3,306.23	6,411.55	6,405.55	6.01	1,067.549		
1,300.00	1,299.45	623.00	622.27	4.43	2.10	93.70	-5,464.37	3,307.48	6,421.86	6,415.38	6.48	990.774		
1,400.00	1,398.70	667.47	666.48	4.80	2.27	93.52	-5,468.83	3,309.26	6,433.33	6,426.33	7.00	918.469		
1,500.00	1,497.47	711.00	709.72	5.18	2.44	93.34	-5,473.49	3,311.09	6,445.81	6,438.27	7.53	855.493		
1,600.00	1,595.62	747.74	746.18	5.57	2.59	93.13	-5,477.64	3,312.90	6,459.41	6,451.35	8.06	801.625		
1,700.00	1,693.06	798.00	795.98	6.00	2.79	92.94	-5,483.66	3,316.07	6,474.30	6,465.65	8.65	748.204		
1,800.00	1,789.64	798.00	795.98	6.45	2.79	92.62	-5,483.66	3,316.07	6,490.30	6,481.21	9.09	714.241		
1,900.00	1,885.27	854.94	852.28	6.94	3.03	92.42	-5,491.01	3,320.29	6,507.35	6,497.58	9.77	666.070		
2,000.00	1,979.82	885.00	881.96	7.47	3.16	92.14	-5,495.13	3,322.67	6,525.55	6,515.17	10.39	628.255		
2,100.00	2,073.17	919.94	916.41	8.05	3.31	91.85	-5,500.17	3,325.65	6,544.90	6,533.83	11.07	591.377		
2,200.00	2,165.21	973.00	968.58	8.67	3.54	91.62	-5,508.35	3,330.77	6,565.58	6,553.72	11.86	553.444		
2,300.00	2,255.84	981.58	977.00	9.35	3.58	91.21	-5,509.73	3,331.66	6,587.13	6,574.60	12.54	525.481		
2,400.00	2,344.94	1,057.48	1,051.50	10.09	3.92	91.06	-5,522.02	3,339.45	6,609.59	6,596.06	13.53	488.559		
2,500.00	2,432.39	1,104.58	1,097.69	10.89	4.14	90.79	-5,529.82	3,344.30	6,632.73	6,618.26	14.47	458.530		
2,519.29	2,449.07	1,113.35	1,106.29	11.05	4.18	90.73	-5,531.31	3,345.22	6,637.29	6,622.64	14.65	453.047		
2,600.00	2,518.69	1,195.18	1,186.47	11.74	4.56	91.10	-5,545.17	3,353.81	6,656.61	6,640.99	15.63	425.996		
2,700.00	2,604.95	1,365.84	1,354.06	12.62	5.36	91.85	-5,572.30	3,371.22	6,679.76	6,662.62	17.14	389.613		
2,800.00	2,691.22	1,420.00	1,407.26	13.52	5.61	92.09	-5,581.01	3,376.45	6,703.33	6,685.13	18.20	368.370		
2,900.00	2,777.48	1,472.17	1,458.46	14.43	5.86	92.32	-5,589.69	3,381.43	6,727.63	6,708.38	19.25	349.427		
3,000.00	2,863.75	1,527.23	1,512.47	15.35	6.12	92.56	-5,599.02	3,386.66	6,752.57	6,732.24	20.33	332.149		
3,100.00	2,950.01	1,569.71	1,554.10	16.28	6.33	92.75	-5,606.46	3,390.75	6,778.32	6,756.96	21.36	317.361		
3,200.00	3,036.27	1,616.29	1,599.68	17.22	6.56	92.96	-5,614.89	3,395.28	6,804.92	6,782.51	22.41	303.678		
3,300.00	3,122.54	1,668.92	1,651.13	18.17	6.82	93.19	-5,624.72	3,400.32	6,832.26	6,808.77	23.49	290.889		
3,400.00	3,208.80	1,737.52	1,718.16	19.13	7.16	93.50	-5,637.81	3,406.87	6,860.24	6,835.60	24.64	278.414		
3,500.00	3,295.07	1,882.51	1,859.89	20.09	7.88	94.13	-5,664.79	3,421.17	6,888.35	6,862.21	26.14	263.506		
3,600.00	3,381.33	2,170.07	2,142.26	21.05	9.27	95.34	-5,710.91	3,449.83	6,914.08	6,885.80	28.28	244.506		
3,700.00	3,467.59	2,220.40	2,191.76	22.02	9.50	95.55	-5,718.64	3,454.54	6,940.09	6,910.73	29.36	236.363		
3,800.00	3,553.86	2,269.75	2,240.27	22.99	9.74	95.76	-5,726.49	3,459.14	6,966.85	6,936.41	30.44	228.868		
3,900.00	3,640.12	2,320.25	2,289.86	23.97	9.98	95.97	-5,734.74	3,463.97	6,994.33	6,962.81	31.52	221.884		
4,000.00	3,726.38	2,400.00	2,399.04	24.95	18.09	96.43	-5,752.88	3,475.27	7,022.35	6,983.46	38.89	180.568		
4,100.00	3,812.65	2,525.03	2,490.92	25.93	10.97	96.81	-5,767.48	3,484.71	7,050.03	7,015.86	34.16	206.376		
4,200.00	3,898.91	2,555.00	2,520.36	26.91	11.11	96.93	-5,772.31	3,487.67	7,078.46	7,043.31	35.14	201.412		
4,300.00	3,985.18	2,588.42	2,553.14	27.90	11.28	97.07	-5,777.97	3,490.95	7,107.80	7,071.67	36.14	196.683		
4,400.00	4,071.44	2,614.08	2,578.25	28.88	11.41	97.17	-5,782.55	3,493.49	7,138.14	7,101.05	37.09	192.457		
4,500.00	4,157.70	2,643.00	2,606.51	29.87	11.55	97.29	-5,787.97	3,496.36	7,169.45	7,131.40	38.05	188.425		
4,600.00	4,243.97	2,844.26	2,803.48	30.86	12.56	98.10	-5,823.93	3,516.73	7,200.14	7,160.29	39.85	180.684		
4,700.00	4,330.23	2,905.00	2,862.94	31.85	12.86	98.34	-5,834.39	3,523.35	7,231.12	7,190.16	40.96	176.520		
4,800.00	4,416.49	2,955.57	2,912.42	32.84	13.12	98.54	-5,843.27	3,528.96	7,262.70	7,220.67	42.03	172.808		
4,900.00	4,502.76	3,057.91	3,012.50	33.84	13.63	98.94	-5,861.69	3,539.67	7,294.78	7,251.44	43.34	168.302		

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

Anticollision Report

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

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	3,198.46	3,150.28	34.83	14.33	99.51	-5,886.60	3,551.99	7,326.35	7,281.51	44.84	163.383		
5,100.00	4,675.29	3,273.90	3,224.24	35.82	14.70	99.80	-5,899.75	3,558.88	7,358.14	7,312.12	46.02	159.897		
5,200.00	4,761.55	3,376.22	3,324.59	36.82	15.20	100.20	-5,917.40	3,568.40	7,390.10	7,342.78	47.33	156.153		
5,300.00	4,847.81	3,473.20	3,419.77	37.82	15.67	100.59	-5,934.36	3,576.00	7,422.17	7,373.57	48.60	152.712		
5,400.00	4,934.08	3,563.52	3,508.38	38.81	16.11	100.93	-5,949.46	3,584.80	7,454.38	7,404.53	49.85	149.542		
5,500.00	5,020.34	3,652.27	3,595.44	39.81	16.55	101.26	-5,964.23	3,593.59	7,486.81	7,435.73	51.08	146.556		
5,600.00	5,106.60	3,899.32	3,838.54	40.81	17.72	102.20	-6,002.78	3,614.66	7,517.89	7,464.79	53.10	141.579		
5,700.00	5,192.87	3,965.98	3,904.22	41.81	18.03	102.44	-6,012.72	3,620.21	7,549.05	7,494.83	54.22	139.228		
5,800.00	5,279.13	4,015.24	3,952.71	42.81	18.26	102.62	-6,020.13	3,624.75	7,580.79	7,525.53	55.25	137.200		
5,900.00	5,365.40	4,100.43	4,036.49	43.81	18.66	102.93	-6,033.11	3,633.06	7,613.06	7,556.59	56.46	134.830		
6,000.00	5,451.66	4,159.13	4,094.24	44.81	18.94	103.14	-6,042.06	3,638.60	7,645.53	7,588.00	57.54	132.882		
6,100.00	5,537.92	5,449.56	5,376.85	45.81	23.88	107.91	-6,153.69	3,688.51	7,668.23	7,604.41	63.82	120.145		
6,200.00	5,624.19	5,635.00	5,562.25	46.81	24.41	108.61	-6,156.62	3,685.86	7,687.67	7,622.36	65.31	117.712		
6,300.00	5,710.45	5,936.56	5,863.67	47.81	25.19	109.75	-6,155.23	3,677.75	7,705.02	7,637.94	67.08	114.858		
6,400.00	5,796.72	6,027.61	5,954.68	48.81	25.42	110.09	-6,153.57	3,675.56	7,722.01	7,653.77	68.23	113.168		
6,500.00	5,882.98	6,121.36	6,048.39	49.81	25.66	110.43	-6,151.73	3,673.52	7,739.23	7,669.84	69.39	111.529		
6,600.00	5,969.24	6,216.15	6,143.14	50.82	25.90	110.78	-6,149.69	3,671.78	7,756.65	7,686.10	70.55	109.947		
6,700.00	6,055.51	6,322.22	6,249.17	51.82	26.17	111.16	-6,147.17	3,670.05	7,774.21	7,702.48	71.74	108.372		
6,800.00	6,141.77	6,429.10	6,356.00	52.82	26.44	111.54	-6,144.33	3,668.35	7,791.83	7,718.91	72.92	106.853		
6,900.00	6,228.03	6,481.93	6,408.81	53.83	26.58	111.73	-6,143.02	3,667.71	7,809.91	7,735.95	73.95	105.606		
7,000.00	6,314.30	6,547.73	6,474.58	54.83	26.76	111.97	-6,141.48	3,667.10	7,828.47	7,753.45	75.02	104.358		
7,100.00	6,400.56	6,624.58	6,551.42	55.83	26.96	112.23	-6,139.78	3,666.71	7,847.49	7,771.38	76.11	103.108		
7,200.00	6,486.83	6,707.87	6,634.69	56.84	27.19	112.52	-6,137.89	3,666.81	7,866.83	7,789.61	77.22	101.874		
7,300.00	6,573.09	6,790.96	6,717.75	57.84	27.42	112.80	-6,135.97	3,667.37	7,886.48	7,808.15	78.33	100.682		
7,400.00	6,659.35	6,873.59	6,800.36	58.84	27.65	113.08	-6,134.07	3,668.06	7,906.43	7,826.99	79.44	99.530		
7,500.00	6,745.62	6,956.24	6,882.98	59.85	27.88	113.36	-6,132.21	3,668.85	7,926.68	7,846.14	80.54	98.418		
7,600.00	6,831.88	7,038.87	6,965.59	60.85	28.12	113.63	-6,130.39	3,669.71	7,947.22	7,865.58	81.64	97.343		
7,700.00	6,918.14	7,121.25	7,047.95	61.86	28.35	113.91	-6,128.61	3,670.65	7,968.07	7,885.33	82.74	96.305		
7,800.00	7,004.41	7,203.05	7,129.72	62.86	28.59	114.18	-6,126.89	3,671.65	7,989.21	7,905.38	83.83	95.302		
7,900.00	7,090.67	7,287.96	7,214.60	63.87	28.83	114.45	-6,125.15	3,672.77	8,010.66	7,925.73	84.93	94.323		
8,000.00	7,176.94	7,386.28	7,312.90	64.87	29.12	114.78	-6,123.12	3,673.59	8,032.28	7,946.21	86.06	93.330		
8,027.52	7,200.68	7,413.22	7,339.84	65.15	29.20	114.87	-6,122.56	3,673.69	8,038.25	7,951.88	86.37	93.063		
8,050.00	7,220.18	7,435.30	7,361.91	65.37	29.26	111.60	-6,122.10	3,673.73	8,042.71	7,956.08	86.63	92.842		
8,100.00	7,264.25	7,478.14	7,404.73	65.85	29.38	103.30	-6,121.21	3,673.73	8,049.56	7,962.39	87.17	92.345		
8,150.00	7,308.99	7,520.02	7,446.61	66.28	29.50	93.78	-6,120.36	3,673.70	8,052.17	7,964.48	87.70	91.817		
8,200.00	7,354.07	7,562.09	7,488.68	66.67	29.62	83.53	-6,119.52	3,673.65	8,050.53	7,962.31	88.21	91.260		
8,250.00	7,399.14	7,604.06	7,530.63	67.02	29.74	73.24	-6,118.71	3,673.56	8,044.64	7,955.92	88.71	90.681		
8,300.00	7,443.85	7,644.46	7,571.02	67.32	29.86	63.63	-6,117.94	3,673.47	8,034.53	7,945.35	89.18	90.089		
8,350.00	7,487.88	7,683.58	7,610.13	67.56	29.98	55.15	-6,117.22	3,673.43	8,020.30	7,930.68	89.63	89.486		
8,400.00	7,530.87	7,721.76	7,648.32	67.75	30.09	47.93	-6,116.53	3,673.44	8,002.04	7,912.00	90.04	88.875		
8,450.00	7,572.51	7,758.74	7,685.28	67.90	30.19	41.90	-6,115.87	3,673.49	7,979.88	7,889.46	90.42	88.257		
8,500.00	7,612.48	7,794.34	7,720.89	68.00	30.30	36.89	-6,115.26	3,673.59	7,953.97	7,863.21	90.76	87.634		
8,550.00	7,650.47	7,831.88	7,758.42	68.05	30.41	32.70	-6,114.61	3,673.72	7,924.50	7,833.42	91.09	86.998		
8,600.00	7,686.20	7,867.09	7,793.63	68.06	30.51	29.12	-6,114.01	3,673.84	7,891.68	7,800.30	91.38	86.363		
8,650.00	7,719.39	7,899.71	7,826.24	68.03	30.61	25.99	-6,113.45	3,673.95	7,855.73	7,764.10	91.63	85.732		
8,700.00	7,749.79	7,929.49	7,856.01	67.97	30.70	23.13	-6,112.94	3,674.05	7,816.94	7,725.09	91.85	85.106		
8,750.00	7,777.17	7,956.20	7,882.72	67.87	30.78	20.36	-6,112.49	3,674.14	7,775.59	7,683.56	92.03	84.490		
8,800.00	7,801.32	7,979.63	7,906.15	67.74	30.85	17.46	-6,112.08	3,674.22	7,731.98	7,639.81	92.18	83.883		
8,850.00	7,822.06	7,998.86	7,925.37	67.59	30.90	14.07	-6,111.76	3,674.30	7,686.46	7,594.17	92.29	83.290		
8,900.00	7,839.23	8,014.86	7,941.37	67.41	30.95	9.53	-6,111.48	3,674.36	7,639.35	7,546.99	92.36	82.711		
8,950.00	7,852.69	8,027.22	7,953.73	67.22	30.99	2.25	-6,111.27	3,674.41	7,591.02	7,498.61	92.41	82.147		
9,000.00	7,862.35	8,035.85	7,962.36	67.00	31.02	-12.50	-6,111.13	3,674.44	7,541.83	7,449.40	92.42	81.602		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	8,040.69	7,967.19	66.78	31.03	-49.01	-6,111.05	3,674.46	7,492.15	7,399.74	92.41	81.076		
9,098.65	7,870.00	8,041.70	7,968.21	66.55	31.03	-98.80	-6,111.03	3,674.46	7,443.72	7,351.35	92.37	80.586		
9,100.00	7,870.00	8,041.68	7,968.19	66.55	31.03	-98.80	-6,111.03	3,674.46	7,442.37	7,350.00	92.37	80.572		
9,200.00	7,870.00	8,040.03	7,966.53	66.09	31.03	-98.68	-6,111.06	3,674.46	7,342.96	7,250.69	92.26	79.587		
9,300.00	7,870.00	8,038.37	7,964.88	65.65	31.02	-98.56	-6,111.09	3,674.45	7,243.56	7,151.40	92.16	78.601		
9,400.00	7,870.00	8,036.72	7,963.22	65.24	31.02	-98.45	-6,111.11	3,674.44	7,144.18	7,052.13	92.05	77.615		
9,500.00	7,870.00	8,035.06	7,961.57	64.85	31.01	-98.33	-6,111.14	3,674.44	7,044.81	6,952.88	91.94	76.628		
9,600.00	7,870.00	8,033.40	7,959.91	64.48	31.01	-98.21	-6,111.17	3,674.43	6,945.46	6,853.64	91.82	75.641		
9,700.00	7,870.00	8,031.75	7,958.25	64.13	31.00	-98.09	-6,111.20	3,674.42	6,846.13	6,754.43	91.71	74.653		
9,800.00	7,870.00	8,030.09	7,956.59	63.80	31.00	-97.97	-6,111.23	3,674.42	6,746.83	6,655.24	91.59	73.666		
9,900.00	7,870.00	8,028.43	7,954.94	63.50	30.99	-97.86	-6,111.25	3,674.41	6,647.54	6,556.07	91.47	72.678		
10,000.00	7,870.00	8,026.77	7,953.28	63.22	30.99	-97.74	-6,111.28	3,674.40	6,548.27	6,456.93	91.34	71.689		
10,100.00	7,870.00	8,025.11	7,951.62	62.96	30.98	-97.62	-6,111.31	3,674.40	6,449.02	6,357.81	91.22	70.700		
10,200.00	7,870.00	8,023.45	7,949.95	62.72	30.98	-97.50	-6,111.34	3,674.39	6,349.80	6,258.71	91.09	69.712		
10,300.00	7,870.00	8,021.78	7,948.29	62.50	30.97	-97.38	-6,111.37	3,674.38	6,250.60	6,159.65	90.95	68.722		
10,400.00	7,870.00	8,020.12	7,946.63	62.31	30.97	-97.26	-6,111.40	3,674.38	6,151.43	6,060.61	90.82	67.733		
10,500.00	7,870.00	8,018.46	7,944.97	62.15	30.96	-97.15	-6,111.42	3,674.37	6,052.28	5,961.60	90.68	66.743		
10,600.00	7,870.00	8,016.79	7,943.30	62.01	30.96	-97.03	-6,111.45	3,674.36	5,953.17	5,862.63	90.54	65.753		
10,700.00	7,870.00	8,015.13	7,941.64	61.90	30.95	-96.91	-6,111.48	3,674.36	5,854.08	5,763.68	90.39	64.763		
10,800.00	7,870.00	8,013.46	7,939.97	61.82	30.95	-96.79	-6,111.51	3,674.35	5,755.02	5,664.78	90.24	63.773		
10,900.00	7,870.00	8,011.79	7,938.30	61.78	30.94	-96.67	-6,111.54	3,674.34	5,655.99	5,565.91	90.09	62.782		
11,000.00	7,870.00	8,010.13	7,936.64	61.77	30.94	-96.55	-6,111.56	3,674.34	5,557.00	5,467.07	89.93	61.791		
11,100.00	7,870.00	8,008.46	7,934.97	61.81	30.93	-96.43	-6,111.59	3,674.33	5,458.05	5,368.28	89.77	60.800		
11,200.00	7,870.00	8,006.79	7,933.30	61.90	30.93	-96.31	-6,111.62	3,674.33	5,359.14	5,269.53	89.60	59.809		
11,300.00	7,870.00	8,005.12	7,931.63	62.03	30.92	-96.19	-6,111.65	3,674.32	5,260.26	5,170.83	89.43	58.817		
11,400.00	7,870.00	8,003.45	7,929.96	62.23	30.92	-96.07	-6,111.68	3,674.31	5,161.43	5,072.17	89.26	57.826		
11,500.00	7,870.00	8,001.78	7,928.29	62.50	30.91	-95.95	-6,111.71	3,674.31	5,062.64	4,973.56	89.08	56.834		
11,600.00	7,870.00	8,000.11	7,926.62	62.84	30.91	-95.83	-6,111.74	3,674.30	4,963.90	4,875.01	88.89	55.842		
11,700.00	7,870.00	7,998.43	7,924.94	63.25	30.90	-95.71	-6,111.76	3,674.29	4,865.21	4,776.51	88.70	54.850		
11,800.00	7,870.00	7,996.76	7,923.27	63.76	30.90	-95.59	-6,111.79	3,674.29	4,766.58	4,678.08	88.50	53.857		
11,900.00	7,870.00	7,995.08	7,921.60	64.34	30.89	-95.47	-6,111.82	3,674.28	4,668.00	4,579.70	88.30	52.865		
12,000.00	7,870.00	7,993.41	7,919.92	65.01	30.89	-95.35	-6,111.85	3,674.27	4,569.49	4,481.40	88.09	51.872		
12,100.00	7,870.00	7,991.73	7,918.24	65.77	30.88	-95.23	-6,111.88	3,674.27	4,471.04	4,383.16	87.88	50.878		
12,200.00	7,870.00	7,990.06	7,916.57	66.61	30.88	-95.11	-6,111.91	3,674.26	4,372.66	4,285.00	87.66	49.885		
12,300.00	7,870.00	7,988.38	7,914.89	67.51	30.87	-94.99	-6,111.94	3,674.26	4,274.35	4,186.92	87.43	48.891		
12,400.00	7,870.00	7,986.70	7,913.21	68.49	30.87	-94.87	-6,111.96	3,674.25	4,176.13	4,088.93	87.19	47.896		
12,500.00	7,870.00	7,985.02	7,911.81	69.52	30.86	-94.77	-6,111.99	3,674.24	4,077.98	3,991.03	86.95	46.901		
12,600.00	7,870.00	7,983.35	7,910.10	70.61	30.86	-94.64	-6,112.02	3,674.24	3,979.94	3,893.24	86.70	45.905		
12,700.00	7,870.00	7,981.67	7,908.39	71.75	30.85	-94.52	-6,112.05	3,674.23	3,881.99	3,795.54	86.44	44.909		
12,800.00	7,870.00	7,980.00	7,906.68	72.93	30.85	-94.40	-6,112.08	3,674.23	3,784.14	3,697.97	86.18	43.912		
12,900.00	7,870.00	7,978.32	7,904.97	74.14	30.84	-94.27	-6,112.10	3,674.22	3,686.41	3,600.51	85.90	42.914		
13,000.00	7,870.00	7,976.64	7,903.26	75.39	30.84	-94.15	-6,112.13	3,674.21	3,588.81	3,503.19	85.62	41.915		
13,100.00	7,870.00	7,975.03	7,901.54	76.67	30.83	-94.03	-6,112.16	3,674.21	3,491.34	3,406.01	85.33	40.915		
13,200.00	7,870.00	7,973.32	7,899.83	77.98	30.83	-93.90	-6,112.19	3,674.20	3,394.02	3,308.98	85.04	39.913		
13,300.00	7,870.00	7,971.61	7,898.12	79.31	30.82	-93.78	-6,112.22	3,674.20	3,296.85	3,212.12	84.73	38.909		
13,400.00	7,870.00	7,969.90	7,896.41	80.67	30.82	-93.65	-6,112.25	3,674.19	3,199.86	3,115.44	84.42	37.903		
13,500.00	7,870.00	7,968.19	7,894.70	82.04	30.81	-93.53	-6,112.28	3,674.18	3,103.07	3,018.96	84.11	36.894		
13,600.00	7,870.00	7,966.48	7,892.99	83.43	30.81	-93.41	-6,112.31	3,674.18	3,006.47	2,922.69	83.79	35.882		
13,700.00	7,870.00	7,964.77	7,891.28	84.84	30.80	-93.28	-6,112.34	3,674.17	2,910.11	2,826.65	83.46	34.866		
13,800.00	7,870.00	7,963.05	7,889.57	86.27	30.80	-93.16	-6,112.37	3,674.17	2,814.00	2,730.86	83.14	33.846		
13,900.00	7,870.00	7,961.34	7,887.86	87.71	30.79	-93.04	-6,112.40	3,674.16	2,718.18	2,635.36	82.82	32.820		
14,000.00	7,870.00	7,959.63	7,886.15	89.16	30.79	-92.91	-6,112.43	3,674.16	2,622.66	2,540.15	82.50	31.788		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	7,957.92	7,884.44	90.63	30.78	-92.79	-6,112.46	3,674.15	2,527.48	2,445.28	82.20	30.748		
14,200.00	7,870.00	7,956.21	7,882.73	92.10	30.78	-92.66	-6,112.49	3,674.14	2,432.70	2,350.78	81.91	29.699		
14,300.00	7,870.00	7,954.50	7,881.02	93.59	30.77	-92.54	-6,112.51	3,674.14	2,338.34	2,256.69	81.65	28.638		
14,400.00	7,870.00	7,952.79	7,879.31	95.09	30.77	-92.42	-6,112.54	3,674.13	2,244.48	2,163.05	81.43	27.564		
14,500.00	7,870.00	7,951.08	7,877.60	96.60	30.76	-92.29	-6,112.57	3,674.13	2,151.16	2,069.91	81.25	26.475		
14,600.00	7,870.00	7,949.37	7,875.89	98.11	30.76	-92.17	-6,112.60	3,674.12	2,058.47	1,977.32	81.15	25.367		
14,700.00	7,870.00	7,947.66	7,874.17	99.64	30.75	-92.04	-6,112.63	3,674.11	1,966.50	1,885.36	81.13	24.238		
14,800.00	7,870.00	7,945.94	7,872.46	101.17	30.75	-91.92	-6,112.66	3,674.11	1,875.35	1,794.10	81.24	23.084		
14,900.00	7,870.00	7,944.23	7,870.75	102.71	30.74	-91.80	-6,112.69	3,674.10	1,785.14	1,703.63	81.51	21.902		
15,000.00	7,870.00	7,942.52	7,869.04	104.26	30.74	-91.67	-6,112.72	3,674.10	1,696.03	1,614.05	81.98	20.689		
15,100.00	7,870.00	7,940.81	7,867.33	105.82	30.73	-91.55	-6,112.75	3,674.09	1,608.20	1,525.49	82.71	19.444		
15,200.00	7,870.00	7,939.10	7,865.62	107.38	30.73	-91.42	-6,112.78	3,674.08	1,521.87	1,438.10	83.77	18.167		
15,300.00	7,870.00	7,937.39	7,863.91	108.95	30.72	-91.30	-6,112.81	3,674.08	1,437.31	1,352.06	85.25	16.861		
15,400.00	7,870.00	7,935.68	7,862.20	110.52	30.72	-91.18	-6,112.84	3,674.07	1,354.85	1,267.62	87.23	15.532		
15,500.00	7,870.00	7,933.96	7,860.49	112.10	30.71	-91.05	-6,112.87	3,674.07	1,274.90	1,185.07	89.83	14.192		
15,600.00	7,870.00	7,932.25	7,858.77	113.69	30.71	-90.93	-6,112.90	3,674.06	1,197.97	1,104.81	93.16	12.859		
15,700.00	7,870.00	7,930.54	7,857.06	115.28	30.70	-90.80	-6,112.92	3,674.06	1,124.67	1,027.36	97.32	11.557		
15,800.00	7,870.00	7,928.83	7,855.35	116.87	30.70	-90.68	-6,112.95	3,674.05	1,055.76	953.37	102.39	10.311		
15,900.00	7,870.00	7,927.12	7,853.64	118.47	30.69	-90.55	-6,112.98	3,674.04	992.16	883.73	108.42	9.151		
16,000.00	7,870.00	7,925.41	7,851.93	120.07	30.69	-90.43	-6,113.01	3,674.04	934.94	819.56	115.38	8.103		
16,100.00	7,870.00	7,923.69	7,850.22	121.68	30.68	-90.31	-6,113.04	3,674.03	885.34	762.24	123.11	7.192		
16,200.00	7,870.00	7,921.98	7,848.51	123.30	30.68	-90.18	-6,113.07	3,674.03	844.72	713.41	131.32	6.433		
16,300.00	7,870.00	7,920.27	7,846.79	124.91	30.67	-90.06	-6,113.10	3,674.02	814.41	674.86	139.55	5.836		
16,400.00	7,870.00	7,918.56	7,845.08	126.53	30.67	-89.93	-6,113.13	3,674.01	795.60	648.36	147.24	5.403		
16,500.00	7,870.00	7,916.85	7,843.37	128.16	30.66	-89.81	-6,113.16	3,674.01	789.10	635.31	153.80	5.131		
16,501.50	7,870.00	7,916.82	7,843.35	128.18	30.66	-89.81	-6,113.16	3,674.01	789.10	635.22	153.88	5.128 CC, ES		
16,600.00	7,870.00	7,915.14	7,841.66	129.79	30.66	-89.68	-6,113.19	3,674.00	795.23	636.45	158.77	5.009 SF		
16,700.00	7,870.00	7,913.42	7,839.95	131.42	30.65	-89.56	-6,113.22	3,674.00	813.68	651.73	161.95	5.024		
16,800.00	7,870.00	7,911.71	7,838.24	133.05	30.65	-89.44	-6,113.25	3,673.99	843.66	680.27	163.39	5.163		
16,900.00	7,870.00	7,910.00	7,836.52	134.69	30.64	-89.31	-6,113.28	3,673.99	883.99	720.63	163.36	5.411		
17,000.00	7,870.00	7,908.29	7,834.81	136.33	30.64	-89.19	-6,113.31	3,673.98	933.34	771.13	162.21	5.754		
17,100.00	7,870.00	7,906.58	7,833.10	137.97	30.63	-89.06	-6,113.33	3,673.97	990.35	830.05	160.30	6.178		
17,200.00	7,870.00	7,904.86	7,831.39	139.62	30.63	-88.94	-6,113.36	3,673.97	1,053.78	895.85	157.93	6.673		
17,300.00	7,870.00	7,903.15	7,829.68	141.27	30.62	-88.81	-6,113.39	3,673.96	1,122.54	967.22	155.33	7.227		
17,400.00	7,870.00	7,901.44	7,827.97	142.92	30.62	-88.69	-6,113.42	3,673.96	1,195.72	1,043.07	152.66	7.833		
17,500.00	7,870.00	7,899.73	7,826.25	144.58	30.61	-88.57	-6,113.45	3,673.95	1,272.56	1,122.54	150.02	8.482		
17,600.00	7,870.00	7,898.02	7,824.54	146.23	30.61	-88.44	-6,113.48	3,673.94	1,352.42	1,204.94	147.48	9.170		
17,700.00	7,870.00	7,896.30	7,822.83	147.89	30.60	-88.32	-6,113.51	3,673.94	1,434.81	1,289.73	145.08	9.890		
17,800.00	7,870.00	7,894.59	7,821.12	149.56	30.60	-88.19	-6,113.54	3,673.93	1,519.31	1,376.49	142.82	10.638		
17,900.00	7,870.00	7,892.88	7,819.41	151.22	30.59	-88.07	-6,113.57	3,673.93	1,605.59	1,464.87	140.72	11.410		
18,000.00	7,870.00	7,891.17	7,817.69	152.89	30.58	-87.95	-6,113.60	3,673.92	1,693.38	1,554.61	138.77	12.203		
18,100.00	7,870.00	7,889.45	7,815.98	154.55	30.58	-87.82	-6,113.63	3,673.92	1,782.46	1,645.49	136.96	13.014		
18,200.00	7,870.00	7,887.74	7,814.27	156.22	30.57	-87.70	-6,113.66	3,673.91	1,872.63	1,737.34	135.29	13.841		
18,300.00	7,870.00	7,886.03	7,812.56	157.90	30.57	-87.57	-6,113.69	3,673.90	1,963.76	1,830.01	133.75	14.682		
18,400.00	7,870.00	7,884.32	7,810.85	159.57	30.56	-87.45	-6,113.72	3,673.90	2,055.71	1,923.39	132.32	15.536		
18,500.00	7,870.00	7,882.60	7,809.13	161.25	30.56	-87.32	-6,113.74	3,673.89	2,148.38	2,017.38	131.00	16.400		
18,600.00	7,870.00	7,880.89	7,807.42	162.93	30.55	-87.20	-6,113.77	3,673.89	2,241.68	2,111.90	129.78	17.273		
18,700.00	7,870.00	7,879.18	7,805.71	164.60	30.55	-87.08	-6,113.80	3,673.88	2,335.53	2,206.89	128.64	18.156		
18,797.52	7,870.00	7,877.51	7,804.04	166.24	30.54	-86.96	-6,113.83	3,673.87	2,427.52	2,299.91	127.61	19.023		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	161.31	-5,370.64	1,816.77	5,669.62					
100.00	100.00	65.79	65.79	0.13	0.10	161.31	-5,370.76	1,816.72	5,669.74	5,669.50	0.24	N/A		
200.00	200.00	172.71	172.71	0.49	0.42	161.31	-5,371.22	1,816.58	5,670.11	5,669.20	0.91	6,240.350		
300.00	300.00	320.11	320.11	0.85	0.93	161.31	-5,370.96	1,816.45	5,669.92	5,668.14	1.78	3,190.072		
400.00	400.00	420.07	420.07	1.21	1.27	161.31	-5,370.34	1,816.47	5,669.34	5,666.86	2.48	2,284.927		
500.00	500.00	570.64	570.63	1.57	1.80	161.30	-5,368.77	1,817.03	5,668.58	5,665.21	3.37	1,682.255		
600.00	600.00	668.57	668.53	1.93	2.15	161.29	-5,366.77	1,817.78	5,666.89	5,662.82	4.08	1,390.536		
700.00	700.00	754.07	754.02	2.29	2.45	161.28	-5,365.33	1,818.49	5,665.57	5,660.83	4.74	1,195.750		
800.00	800.00	845.28	845.22	2.64	2.78	161.26	-5,363.95	1,819.28	5,664.40	5,658.98	5.42	1,044.771		
900.00	900.00	923.30	923.22	3.00	3.06	161.25	-5,362.85	1,820.15	5,663.45	5,657.39	6.06	934.851		
996.77	996.77	980.86	980.77	3.35	3.26	161.24	-5,362.37	1,820.96	5,663.12	5,656.51	6.61	856.818		
1,000.00	1,000.00	982.78	982.69	3.36	3.27	161.24	-5,362.36	1,820.99	5,663.12	5,656.49	6.63	854.438		
1,100.00	1,099.98	1,059.29	1,059.19	3.72	3.54	106.61	-5,362.14	1,822.31	5,663.89	5,656.64	7.25	780.811		
1,200.00	1,199.84	1,160.79	1,160.68	4.07	3.90	106.60	-5,362.01	1,824.29	5,665.89	5,657.92	7.97	711.141		
1,300.00	1,299.45	1,282.61	1,282.48	4.43	4.33	106.64	-5,361.81	1,825.70	5,668.61	5,659.85	8.76	647.172		
1,400.00	1,398.70	1,374.62	1,374.50	4.80	4.65	106.68	-5,361.74	1,826.03	5,672.17	5,662.73	9.45	600.362		
1,500.00	1,497.47	1,480.69	1,480.56	5.18	5.01	106.75	-5,361.88	1,826.04	5,676.86	5,666.67	10.19	557.105		
1,600.00	1,595.62	1,604.51	1,604.38	5.57	5.44	106.87	-5,361.67	1,825.90	5,682.27	5,671.26	11.01	515.949		
1,700.00	1,693.06	1,697.48	1,697.35	6.00	5.77	106.96	-5,361.34	1,825.74	5,688.58	5,676.82	11.76	483.790		
1,800.00	1,789.64	1,787.06	1,786.93	6.45	6.08	107.04	-5,361.21	1,825.27	5,696.08	5,683.57	12.51	455.144		
1,900.00	1,885.27	1,931.61	1,931.46	6.94	6.57	107.30	-5,360.65	1,823.42	5,704.25	5,690.75	13.49	422.725		
2,000.00	1,979.82	2,012.97	2,012.81	7.47	6.86	107.39	-5,360.24	1,822.12	5,713.46	5,699.16	14.29	399.733		
2,100.00	2,073.17	2,106.70	2,106.52	8.05	7.18	107.53	-5,359.94	1,820.35	5,723.99	5,708.81	15.18	377.159		
2,200.00	2,165.21	2,202.01	2,201.81	8.67	7.52	107.68	-5,359.64	1,818.37	5,735.77	5,719.66	16.11	356.011		
2,300.00	2,255.84	2,293.13	2,292.92	9.35	7.83	107.81	-5,359.31	1,816.50	5,748.85	5,731.77	17.08	336.580		
2,400.00	2,344.94	2,390.37	2,390.14	10.09	8.17	107.97	-5,358.91	1,814.38	5,763.23	5,745.11	18.12	318.023		
2,500.00	2,432.39	2,511.40	2,511.11	10.89	8.60	108.26	-5,358.18	1,810.90	5,778.73	5,759.43	19.30	299.396		
2,519.29	2,449.07	2,517.36	2,517.07	11.05	8.62	108.23	-5,358.15	1,810.73	5,781.87	5,762.40	19.47	296.912		
2,600.00	2,518.69	2,566.31	2,566.00	11.74	8.79	108.48	-5,357.88	1,809.31	5,795.37	5,775.09	20.29	285.655		
2,700.00	2,604.95	2,623.59	2,623.25	12.62	9.00	108.77	-5,357.69	1,808.03	5,812.82	5,791.52	21.30	272.897		
2,800.00	2,691.22	2,676.28	2,675.94	13.52	9.18	109.03	-5,357.78	1,807.00	5,831.14	5,808.83	22.31	261.393		
2,900.00	2,777.48	2,767.28	2,766.93	14.43	9.50	109.48	-5,358.23	1,805.45	5,850.19	5,826.73	23.46	249.343		
3,000.00	2,863.75	3,008.02	3,007.62	15.35	10.35	110.63	-5,355.31	1,802.65	5,868.25	5,843.08	25.17	233.174		
3,100.00	2,950.01	3,082.79	3,082.37	16.28	10.62	110.98	-5,353.49	1,801.93	5,885.75	5,859.47	26.28	223.960		
3,200.00	3,036.27	3,147.87	3,147.42	17.22	10.85	111.29	-5,352.11	1,801.03	5,903.82	5,876.46	27.36	215.766		
3,300.00	3,122.54	3,200.00	3,199.54	18.17	11.03	111.54	-5,351.24	1,800.15	5,922.63	5,894.24	28.40	208.558		
3,400.00	3,208.80	3,264.04	3,263.55	19.13	11.26	111.85	-5,350.57	1,798.63	5,942.22	5,912.74	29.48	201.595		
3,500.00	3,295.07	3,350.26	3,349.72	20.09	11.57	112.27	-5,350.22	1,795.68	5,962.55	5,931.92	30.63	194.640		
3,600.00	3,381.33	3,445.15	3,444.55	21.05	11.91	112.74	-5,349.53	1,792.07	5,982.94	5,951.12	31.82	188.011		
3,700.00	3,467.59	3,520.34	3,519.68	22.02	12.17	113.10	-5,349.12	1,789.22	6,003.88	5,970.95	32.94	182.284		
3,800.00	3,553.86	3,620.14	3,619.42	22.99	12.53	113.58	-5,348.41	1,785.86	6,025.14	5,991.00	34.14	176.481		
3,900.00	3,640.12	3,704.22	3,703.47	23.97	12.83	113.98	-5,347.63	1,783.71	6,046.71	6,011.43	35.28	171.372		
4,000.00	3,726.38	3,786.07	3,785.30	24.95	13.12	114.36	-5,346.82	1,782.00	6,068.66	6,032.24	36.42	166.645		
4,100.00	3,812.65	3,855.10	3,854.32	25.93	13.37	114.67	-5,346.18	1,781.05	6,091.09	6,053.59	37.50	162.450		
4,200.00	3,898.91	3,936.63	3,935.84	26.91	13.65	115.03	-5,345.45	1,781.45	6,114.09	6,075.47	38.62	158.331		
4,300.00	3,985.18	4,035.67	4,034.87	27.90	14.00	115.46	-5,344.38	1,781.92	6,137.24	6,097.45	39.80	154.209		
4,400.00	4,071.44	4,124.67	4,123.87	28.88	14.31	115.85	-5,343.46	1,781.68	6,160.69	6,119.74	40.94	150.473		
4,500.00	4,157.70	4,259.34	4,258.52	29.87	14.79	116.44	-5,341.70	1,780.47	6,184.21	6,141.95	42.26	146.352		
4,600.00	4,243.97	4,433.16	4,432.24	30.86	15.42	117.21	-5,337.23	1,777.05	6,206.69	6,162.98	43.71	142.007		
4,700.00	4,330.23	4,507.29	4,506.34	31.85	15.68	117.53	-5,334.94	1,776.39	6,229.27	6,184.48	44.79	139.092		
4,800.00	4,416.49	4,643.19	4,642.16	32.84	16.16	118.10	-5,330.39	1,776.13	6,252.06	6,205.97	46.09	135.661		
4,900.00	4,502.76	4,809.77	4,808.56	33.84	16.75	118.80	-5,322.74	1,775.46	6,273.91	6,226.42	47.49	132.106		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	4,869.72	4,868.44	34.83	16.97	119.05	-5,319.88	1,774.79	6,295.92	6,247.42	48.51	129.794		
5,100.00	4,675.29	4,931.88	4,930.53	35.82	17.19	119.31	-5,317.13	1,773.96	6,318.56	6,269.03	49.52	127.585		
5,200.00	4,761.55	5,000.00	4,998.59	36.82	17.43	119.60	-5,314.43	1,772.93	6,341.87	6,291.31	50.56	125.440		
5,300.00	4,847.81	5,029.43	5,028.00	37.82	17.54	119.72	-5,313.44	1,772.43	6,365.96	6,314.52	51.44	123.756		
5,400.00	4,934.08	5,063.52	5,062.08	38.81	17.66	119.87	-5,312.56	1,771.78	6,391.07	6,338.74	52.33	122.131		
5,500.00	5,020.34	5,100.00	5,098.54	39.81	17.79	120.02	-5,311.93	1,771.02	6,417.19	6,363.97	53.22	120.580		
5,600.00	5,106.60	5,165.17	5,163.69	40.81	18.03	120.30	-5,311.15	1,769.67	6,444.09	6,389.87	54.21	118.867		
5,700.00	5,192.87	5,230.02	5,228.53	41.81	18.25	120.56	-5,310.53	1,768.63	6,471.51	6,416.31	55.20	117.244		
5,800.00	5,279.13	5,289.63	5,288.14	42.81	18.46	120.80	-5,310.19	1,768.45	6,499.55	6,443.39	56.15	115.745		
5,900.00	5,365.40	5,387.70	5,386.21	43.81	18.80	121.19	-5,309.76	1,769.27	6,527.99	6,470.74	57.26	114.015		
6,000.00	5,451.66	5,490.58	5,489.08	44.81	19.16	121.59	-5,309.04	1,769.84	6,556.47	6,498.09	58.38	112.315		
6,100.00	5,537.92	5,612.28	5,610.77	45.81	19.60	122.07	-5,307.67	1,768.90	6,584.82	6,525.25	59.57	110.540		
6,200.00	5,624.19	5,680.65	5,679.12	46.81	19.84	122.35	-5,306.83	1,767.59	6,613.37	6,552.82	60.54	109.234		
6,300.00	5,710.45	5,784.22	5,782.65	47.81	20.21	122.77	-5,305.62	1,764.99	6,642.26	6,580.61	61.65	107.742		
6,400.00	5,796.72	5,856.89	5,855.29	48.81	20.47	123.06	-5,304.66	1,763.34	6,671.29	6,608.66	62.63	106.521		
6,500.00	5,882.98	5,934.36	5,932.74	49.81	20.75	123.37	-5,303.85	1,761.62	6,700.81	6,637.19	63.62	105.323		
6,600.00	5,969.24	6,063.04	6,061.40	50.82	21.21	123.86	-5,302.25	1,760.16	6,730.44	6,665.63	64.82	103.835		
6,700.00	6,055.51	6,217.41	6,215.73	51.82	21.75	124.44	-5,298.81	1,760.11	6,759.32	6,693.20	66.11	102.236		
6,800.00	6,141.77	6,272.35	6,270.66	52.82	21.95	124.64	-5,297.50	1,760.06	6,788.38	6,721.37	67.01	101.307		
6,900.00	6,228.03	6,300.00	6,300.00	53.83	24.19	125.03	-5,295.08	1,759.59	6,817.74	6,747.78	69.96	97.451		
7,000.00	6,314.30	6,471.91	6,470.15	54.83	22.66	125.38	-5,292.58	1,759.55	6,847.04	6,777.90	69.14	99.035		
7,100.00	6,400.56	6,528.05	6,526.28	55.83	22.86	125.57	-5,291.31	1,760.19	6,876.85	6,806.83	70.02	98.213		
7,200.00	6,486.83	6,577.79	6,576.00	56.84	23.03	125.75	-5,290.47	1,760.96	6,907.33	6,836.46	70.87	97.467		
7,300.00	6,573.09	7,300.00	6,686.65	57.84	25.53	126.12	-5,288.68	1,763.28	6,938.02	6,863.94	74.08	93.655		
7,400.00	6,659.35	6,763.89	6,762.03	58.84	23.68	126.38	-5,287.25	1,764.72	6,968.73	6,895.82	72.91	95.582		
7,500.00	6,745.62	6,816.39	6,814.52	59.85	23.86	126.56	-5,286.53	1,765.03	7,000.16	6,926.40	73.75	94.915		
7,600.00	6,831.88	6,884.57	6,882.70	60.85	24.10	126.80	-5,285.82	1,765.40	7,032.09	6,957.44	74.65	94.195		
7,700.00	6,918.14	7,010.66	7,008.78	61.86	24.54	127.23	-5,284.43	1,766.69	7,064.15	6,988.35	75.80	93.199		
7,800.00	7,004.41	7,091.25	7,089.35	62.86	24.82	127.49	-5,283.37	1,767.97	7,096.16	7,019.42	76.74	92.466		
7,900.00	7,090.67	7,181.79	7,179.87	63.87	25.14	127.79	-5,282.21	1,769.42	7,128.39	7,050.66	77.73	91.708		
8,000.00	7,176.94	7,246.61	7,244.68	64.87	25.37	128.01	-5,281.39	1,770.12	7,160.88	7,082.28	78.60	91.105		
8,027.52	7,200.68	7,262.59	7,260.66	65.15	25.42	128.06	-5,281.23	1,770.28	7,169.92	7,091.09	78.83	90.953		
8,050.00	7,220.18	7,275.71	7,273.78	65.37	25.47	124.62	-5,281.11	1,770.41	7,176.92	7,097.90	79.02	90.824		
8,100.00	7,264.25	7,308.32	7,306.38	65.85	25.58	116.07	-5,280.86	1,770.70	7,189.56	7,110.10	79.46	90.481		
8,150.00	7,308.99	7,355.41	7,353.48	66.28	25.75	106.45	-5,280.52	1,771.09	7,198.04	7,118.08	79.96	90.017		
8,200.00	7,354.07	7,402.78	7,400.84	66.67	25.91	96.20	-5,280.15	1,771.42	7,202.27	7,121.80	80.47	89.506		
8,250.00	7,399.14	7,443.48	7,441.54	67.02	26.06	85.99	-5,279.85	1,771.71	7,202.24	7,121.30	80.94	88.988		
8,300.00	7,443.85	7,484.24	7,482.30	67.32	26.20	76.56	-5,279.57	1,772.05	7,197.97	7,116.58	81.39	88.435		
8,350.00	7,487.88	7,526.06	7,524.11	67.56	26.34	68.37	-5,279.31	1,772.44	7,189.50	7,107.66	81.84	87.848		
8,400.00	7,530.87	7,567.95	7,566.00	67.75	26.49	61.57	-5,279.06	1,772.87	7,176.87	7,094.60	82.27	87.233		
8,450.00	7,572.51	7,600.00	7,598.05	67.90	26.60	56.06	-5,278.88	1,773.21	7,160.18	7,077.54	82.64	86.639		
8,500.00	7,612.48	7,628.71	7,626.76	68.00	26.70	51.71	-5,278.76	1,773.53	7,139.62	7,056.64	82.98	86.038		
8,550.00	7,650.47	7,651.15	7,649.20	68.05	26.78	48.34	-5,278.73	1,773.76	7,115.35	7,032.08	83.28	85.443		
8,600.00	7,686.20	7,672.32	7,670.37	68.06	26.85	45.81	-5,278.74	1,773.98	7,087.55	7,004.01	83.55	84.835		
8,650.00	7,719.39	7,700.00	7,698.04	68.03	26.94	44.08	-5,278.81	1,774.26	7,056.41	6,972.59	83.83	84.179		
8,700.00	7,749.79	7,747.37	7,745.41	67.97	27.11	43.16	-5,278.92	1,774.79	7,022.09	6,937.91	84.18	83.421		
8,750.00	7,777.17	8,750.00	7,774.63	67.87	30.54	42.84	-5,278.82	1,775.24	6,984.63	6,896.87	87.76	79.585		
8,800.00	7,801.32	7,843.79	7,841.81	67.74	27.44	43.62	-5,278.62	1,776.29	6,944.54	6,859.70	84.84	81.853		
8,850.00	7,822.06	7,871.69	7,869.71	67.59	27.53	45.04	-5,278.46	1,776.82	6,902.07	6,817.00	85.07	81.137		
8,900.00	7,839.23	7,894.66	7,892.68	67.41	27.61	47.67	-5,278.31	1,777.29	6,857.57	6,772.31	85.26	80.433		
8,950.00	7,852.69	7,912.53	7,910.54	67.22	27.68	52.11	-5,278.19	1,777.68	6,811.38	6,725.96	85.42	79.743		
9,000.00	7,862.35	7,923.81	7,921.82	67.00	27.71	59.54	-5,278.10	1,777.92	6,763.85	6,678.31	85.54	79.074		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	7,930.73	7,928.74	66.78	27.74	72.45	-5,278.05	1,778.07	6,715.34	6,629.71	85.63	78.420		
9,098.65	7,870.00	7,932.62	7,930.63	66.55	27.75	93.95	-5,278.03	1,778.11	6,667.55	6,581.85	85.70	77.802		
9,100.00	7,870.00	7,932.61	7,930.62	66.55	27.74	93.95	-5,278.03	1,778.11	6,666.22	6,580.52	85.70	77.785		
9,200.00	7,870.00	7,931.59	7,929.60	66.09	27.74	93.90	-5,278.04	1,778.08	6,567.64	6,481.83	85.81	76.536		
9,300.00	7,870.00	7,930.59	7,928.60	65.65	27.74	93.85	-5,278.05	1,778.06	6,469.11	6,383.18	85.92	75.288		
9,400.00	7,870.00	7,929.59	7,927.60	65.24	27.73	93.79	-5,278.06	1,778.04	6,370.62	6,284.58	86.04	74.039		
9,500.00	7,870.00	7,928.60	7,926.61	64.85	27.73	93.74	-5,278.06	1,778.02	6,272.18	6,186.01	86.17	72.789		
9,600.00	7,870.00	7,927.62	7,925.62	64.48	27.73	93.69	-5,278.07	1,778.00	6,173.79	6,087.49	86.30	71.540		
9,700.00	7,870.00	7,926.64	7,924.65	64.13	27.72	93.64	-5,278.08	1,777.98	6,075.45	5,989.02	86.43	70.290		
9,800.00	7,870.00	7,925.67	7,923.68	63.80	27.72	93.59	-5,278.09	1,777.96	5,977.17	5,890.59	86.58	69.039		
9,900.00	7,870.00	7,924.72	7,922.72	63.50	27.72	93.54	-5,278.09	1,777.94	5,878.95	5,792.22	86.72	67.789		
10,000.00	7,870.00	7,923.76	7,921.77	63.22	27.71	93.49	-5,278.10	1,777.92	5,780.78	5,693.90	86.88	66.538		
10,100.00	7,870.00	7,922.82	7,920.83	62.96	27.71	93.45	-5,278.11	1,777.90	5,682.68	5,595.64	87.04	65.288		
10,200.00	7,870.00	7,921.88	7,919.89	62.72	27.71	93.40	-5,278.12	1,777.88	5,584.65	5,497.44	87.21	64.037		
10,300.00	7,870.00	7,920.95	7,918.96	62.50	27.70	93.35	-5,278.12	1,777.86	5,486.69	5,399.30	87.39	62.786		
10,400.00	7,870.00	7,920.03	7,918.04	62.31	27.70	93.30	-5,278.13	1,777.84	5,388.80	5,301.23	87.57	61.536		
10,500.00	7,870.00	7,920.25	7,918.26	62.15	27.70	93.31	-5,278.13	1,777.85	5,290.99	5,203.22	87.77	60.282		
10,600.00	7,870.00	7,919.29	7,917.30	62.01	27.70	93.26	-5,278.14	1,777.83	5,193.26	5,105.29	87.97	59.032		
10,700.00	7,870.00	7,918.34	7,916.35	61.90	27.70	93.22	-5,278.14	1,777.81	5,095.63	5,007.44	88.19	57.783		
10,800.00	7,870.00	7,917.39	7,915.40	61.82	27.69	93.17	-5,278.15	1,777.79	4,998.08	4,909.67	88.41	56.534		
10,900.00	7,870.00	7,916.45	7,914.46	61.78	27.69	93.12	-5,278.16	1,777.77	4,900.64	4,812.00	88.64	55.286		
11,000.00	7,870.00	7,915.52	7,913.53	61.77	27.69	93.07	-5,278.16	1,777.75	4,803.30	4,714.41	88.89	54.038		
11,100.00	7,870.00	7,914.59	7,912.61	61.81	27.68	93.02	-5,278.17	1,777.73	4,706.07	4,616.92	89.14	52.792		
11,200.00	7,870.00	7,913.68	7,911.69	61.90	27.68	92.97	-5,278.18	1,777.71	4,608.96	4,519.54	89.41	51.546		
11,300.00	7,870.00	7,912.76	7,910.78	62.03	27.68	92.93	-5,278.18	1,777.69	4,511.97	4,422.27	89.70	50.301		
11,400.00	7,870.00	7,911.86	7,909.87	62.23	27.67	92.88	-5,278.19	1,777.67	4,415.12	4,325.13	90.00	49.058		
11,500.00	7,870.00	7,910.96	7,908.97	62.50	27.67	92.84	-5,278.20	1,777.65	4,318.42	4,228.10	90.31	47.816		
11,600.00	7,870.00	7,910.07	7,908.08	62.84	27.67	92.79	-5,278.20	1,777.63	4,221.87	4,131.22	90.65	46.575		
11,700.00	7,870.00	7,909.18	7,907.19	63.25	27.66	92.74	-5,278.21	1,777.61	4,125.48	4,034.48	91.00	45.337		
11,800.00	7,870.00	7,908.30	7,906.31	63.76	27.66	92.70	-5,278.22	1,777.59	4,029.26	3,937.90	91.37	44.100		
11,900.00	7,870.00	7,907.43	7,905.44	64.34	27.66	92.65	-5,278.22	1,777.57	3,933.24	3,841.48	91.76	42.865		
12,000.00	7,870.00	7,906.56	7,904.57	65.01	27.65	92.61	-5,278.23	1,777.55	3,837.42	3,745.25	92.17	41.633		
12,100.00	7,870.00	7,905.70	7,903.71	65.77	27.65	92.56	-5,278.24	1,777.53	3,741.82	3,649.21	92.61	40.404		
12,200.00	7,870.00	7,904.84	7,902.86	66.61	27.65	92.52	-5,278.24	1,777.51	3,646.45	3,553.37	93.07	39.178		
12,300.00	7,870.00	7,903.99	7,902.01	67.51	27.65	92.48	-5,278.25	1,777.49	3,551.34	3,457.77	93.57	37.955		
12,400.00	7,870.00	7,903.15	7,901.16	68.49	27.64	92.43	-5,278.25	1,777.47	3,456.50	3,362.41	94.09	36.736		
12,500.00	7,870.00	7,902.31	7,900.33	69.52	27.64	92.39	-5,278.26	1,777.46	3,361.96	3,267.32	94.65	35.522		
12,600.00	7,870.00	7,901.48	7,899.49	70.61	27.64	92.35	-5,278.26	1,777.44	3,267.75	3,172.51	95.24	34.312		
12,700.00	7,870.00	7,900.65	7,898.67	71.75	27.63	92.30	-5,278.27	1,777.42	3,173.89	3,078.02	95.87	33.107		
12,800.00	7,870.00	7,899.83	7,897.85	72.93	27.63	92.26	-5,278.28	1,777.40	3,080.42	2,983.88	96.54	31.908		
12,900.00	7,870.00	7,899.02	7,897.03	74.14	27.63	92.22	-5,278.28	1,777.39	2,987.37	2,890.11	97.26	30.716		
13,000.00	7,870.00	7,898.21	7,896.22	75.39	27.63	92.18	-5,278.29	1,777.37	2,894.78	2,796.76	98.03	29.531		
13,100.00	7,870.00	7,897.40	7,895.42	76.67	27.62	92.14	-5,278.29	1,777.35	2,802.71	2,703.86	98.85	28.354		
13,200.00	7,870.00	7,896.61	7,894.62	77.98	27.62	92.10	-5,278.30	1,777.33	2,711.19	2,611.46	99.73	27.186		
13,300.00	7,870.00	7,895.81	7,893.83	79.31	27.62	92.05	-5,278.30	1,777.32	2,620.29	2,519.62	100.67	26.028		
13,400.00	7,870.00	7,895.02	7,893.04	80.67	27.61	92.01	-5,278.31	1,777.30	2,530.09	2,428.40	101.68	24.882		
13,500.00	7,870.00	7,894.24	7,892.26	82.04	27.61	91.97	-5,278.31	1,777.28	2,440.64	2,337.87	102.77	23.748		
13,600.00	7,870.00	7,893.46	7,891.48	83.43	27.61	91.93	-5,278.32	1,777.27	2,352.04	2,248.10	103.94	22.629		
13,700.00	7,870.00	7,892.69	7,890.71	84.84	27.61	91.89	-5,278.32	1,777.25	2,264.40	2,159.20	105.20	21.525		
13,800.00	7,870.00	7,891.92	7,889.94	86.27	27.60	91.85	-5,278.33	1,777.24	2,177.82	2,071.27	106.55	20.439		
13,900.00	7,870.00	7,891.16	7,889.18	87.71	27.60	91.81	-5,278.34	1,777.22	2,092.43	1,984.43	108.00	19.374		
14,000.00	7,870.00	7,890.40	7,888.42	89.16	27.60	91.78	-5,278.34	1,777.20	2,008.39	1,898.83	109.57	18.330		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	7,889.65	7,887.67	90.63	27.60	91.74	-5,278.35	1,777.19	1,925.88	1,814.64	111.24	17.312		
14,200.00	7,870.00	7,888.91	7,886.92	92.10	27.59	91.70	-5,278.35	1,777.17	1,845.10	1,732.06	113.04	16.322		
14,300.00	7,870.00	7,888.16	7,886.18	93.59	27.59	91.66	-5,278.35	1,777.16	1,766.29	1,651.33	114.96	15.364		
14,400.00	7,870.00	7,887.42	7,885.44	95.09	27.59	91.62	-5,278.36	1,777.14	1,689.72	1,572.72	117.00	14.442		
14,500.00	7,870.00	7,886.69	7,884.71	96.60	27.59	91.58	-5,278.36	1,777.13	1,615.72	1,496.55	119.17	13.559		
14,600.00	7,870.00	7,885.96	7,883.98	98.11	27.58	91.55	-5,278.37	1,777.11	1,544.64	1,423.21	121.43	12.720		
14,700.00	7,870.00	7,885.24	7,883.26	99.64	27.58	91.51	-5,278.37	1,777.10	1,476.92	1,353.14	123.79	11.931		
14,800.00	7,870.00	7,884.52	7,882.54	101.17	27.58	91.47	-5,278.38	1,777.08	1,413.04	1,286.84	126.20	11.197		
14,900.00	7,870.00	7,883.81	7,881.83	102.71	27.58	91.44	-5,278.38	1,777.07	1,353.53	1,224.92	128.61	10.524		
15,000.00	7,870.00	7,883.10	7,881.12	104.26	27.57	91.40	-5,278.39	1,777.05	1,299.01	1,168.04	130.97	9.918		
15,100.00	7,870.00	7,882.39	7,880.41	105.82	27.57	91.36	-5,278.39	1,777.04	1,250.12	1,116.93	133.19	9.386		
15,200.00	7,870.00	7,881.69	7,879.71	107.38	27.57	91.33	-5,278.40	1,777.02	1,207.55	1,072.38	135.16	8.934		
15,300.00	7,870.00	7,880.99	7,879.01	108.95	27.57	91.29	-5,278.40	1,777.01	1,171.98	1,035.20	136.78	8.568		
15,400.00	7,870.00	7,880.30	7,878.32	110.52	27.56	91.25	-5,278.41	1,777.00	1,144.08	1,006.16	137.92	8.295		
15,500.00	7,870.00	7,879.61	7,877.63	112.10	27.56	91.22	-5,278.41	1,776.98	1,124.40	985.93	138.48	8.120		
15,600.00	7,870.00	7,878.93	7,876.95	113.69	27.56	91.18	-5,278.41	1,776.97	1,113.39	975.03	138.37	8.047 SF		
15,673.17	7,870.00	7,878.43	7,876.45	114.85	27.56	91.16	-5,278.42	1,776.96	1,110.99	973.14	137.85	8.059 CC, ES		
15,700.00	7,870.00	7,878.25	7,876.27	115.28	27.56	91.15	-5,278.42	1,776.95	1,111.31	973.75	137.56	8.079		
15,800.00	7,870.00	7,877.58	7,875.60	116.87	27.55	91.11	-5,278.42	1,776.94	1,118.20	982.13	136.07	8.218		
15,900.00	7,870.00	7,876.91	7,874.93	118.47	27.55	91.08	-5,278.43	1,776.93	1,133.91	999.94	133.97	8.464		
16,000.00	7,870.00	7,876.24	7,874.26	120.07	27.55	91.04	-5,278.43	1,776.91	1,158.06	1,026.70	131.36	8.816		
16,100.00	7,870.00	7,875.58	7,873.60	121.68	27.55	91.01	-5,278.44	1,776.90	1,190.16	1,061.78	128.38	9.271		
16,200.00	7,870.00	7,874.92	7,872.94	123.30	27.55	90.98	-5,278.44	1,776.89	1,229.57	1,104.40	125.16	9.824		
16,300.00	7,870.00	7,874.26	7,872.28	124.91	27.54	90.94	-5,278.44	1,776.87	1,275.62	1,153.78	121.84	10.470		
16,400.00	7,870.00	7,873.61	7,871.63	126.53	27.54	90.91	-5,278.45	1,776.86	1,327.61	1,209.10	118.51	11.202		
16,500.00	7,870.00	7,872.97	7,870.99	128.16	27.54	90.88	-5,278.45	1,776.85	1,384.89	1,269.61	115.28	12.014		
16,600.00	7,870.00	7,872.32	7,870.35	129.79	27.54	90.84	-5,278.46	1,776.84	1,446.82	1,334.64	112.18	12.897		
16,700.00	7,870.00	7,871.69	7,869.71	131.42	27.53	90.81	-5,278.46	1,776.82	1,512.82	1,403.56	109.27	13.845		
16,800.00	7,870.00	7,871.05	7,869.07	133.05	27.53	90.78	-5,278.46	1,776.81	1,582.40	1,475.84	106.56	14.850		
16,900.00	7,870.00	7,870.42	7,868.44	134.69	27.53	90.74	-5,278.47	1,776.80	1,655.10	1,551.04	104.06	15.905		
17,000.00	7,870.00	7,869.79	7,867.81	136.33	27.53	90.71	-5,278.47	1,776.79	1,730.52	1,628.74	101.78	17.003		
17,100.00	7,870.00	7,869.17	7,867.19	137.97	27.53	90.68	-5,278.47	1,776.77	1,808.33	1,708.63	99.70	18.137		
17,200.00	7,870.00	7,868.55	7,866.57	139.62	27.52	90.65	-5,278.48	1,776.76	1,888.23	1,790.41	97.82	19.303		
17,300.00	7,870.00	7,867.93	7,865.95	141.27	27.52	90.62	-5,278.48	1,776.75	1,969.97	1,873.85	96.12	20.495		
17,400.00	7,870.00	7,867.32	7,865.34	142.92	27.52	90.58	-5,278.49	1,776.74	2,053.32	1,958.74	94.58	21.709		
17,500.00	7,870.00	7,866.71	7,864.73	144.58	27.52	90.55	-5,278.49	1,776.72	2,138.10	2,044.90	93.20	22.940		
17,600.00	7,870.00	7,866.10	7,864.13	146.23	27.51	90.52	-5,278.49	1,776.71	2,224.15	2,132.19	91.96	24.185		
17,700.00	7,870.00	7,865.50	7,863.53	147.89	27.51	90.49	-5,278.50	1,776.70	2,311.32	2,220.47	90.85	25.442		
17,800.00	7,870.00	7,864.90	7,862.93	149.56	27.51	90.46	-5,278.50	1,776.69	2,399.49	2,309.64	89.85	26.707		
17,900.00	7,870.00	7,864.31	7,862.33	151.22	27.51	90.43	-5,278.50	1,776.68	2,488.55	2,399.60	88.95	27.978		
18,000.00	7,870.00	7,863.72	7,861.74	152.89	27.51	90.40	-5,278.51	1,776.67	2,578.42	2,490.28	88.14	29.254		
18,100.00	7,870.00	7,863.13	7,861.15	154.55	27.50	90.37	-5,278.51	1,776.65	2,669.00	2,581.59	87.41	30.533		
18,200.00	7,870.00	7,862.55	7,860.57	156.22	27.50	90.34	-5,278.51	1,776.64	2,760.24	2,673.48	86.76	31.814		
18,300.00	7,870.00	7,861.96	7,859.99	157.90	27.50	90.31	-5,278.52	1,776.63	2,852.07	2,765.89	86.18	33.095		
18,400.00	7,870.00	7,861.39	7,859.41	159.57	27.50	90.28	-5,278.52	1,776.62	2,944.42	2,858.77	85.65	34.376		
18,500.00	7,870.00	7,860.81	7,858.84	161.25	27.50	90.25	-5,278.52	1,776.61	3,037.26	2,952.08	85.18	35.656		
18,600.00	7,870.00	7,860.24	7,858.26	162.93	27.49	90.22	-5,278.53	1,776.60	3,130.55	3,045.79	84.76	36.935		
18,700.00	7,870.00	7,859.67	7,857.70	164.60	27.49	90.19	-5,278.53	1,776.59	3,224.23	3,139.85	84.38	38.212		
18,797.52	7,870.00	7,859.12	7,857.15	166.24	27.49	90.16	-5,278.53	1,776.58	3,315.94	3,231.90	84.04	39.454		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.46	-5,617.76	5,723.99	8,020.23					
100.00	100.00	71.00	71.00	0.13	0.55	134.46	-5,617.76	5,723.99	8,020.18	8,019.50	0.68	N/A		
200.00	200.00	171.00	171.00	0.49	2.01	134.46	-5,617.76	5,723.99	8,020.18	8,017.68	2.50	3,208.035		
300.00	300.00	271.00	271.00	0.85	3.75	134.46	-5,617.76	5,723.99	8,020.18	8,015.57	4.60	1,742.067		
400.00	400.00	371.00	371.00	1.21	5.50	134.46	-5,617.76	5,723.99	8,020.18	8,013.47	6.71	1,195.680		
500.00	500.00	471.00	471.00	1.57	7.24	134.46	-5,617.76	5,723.99	8,020.18	8,011.37	8.81	910.202		
600.00	600.00	571.00	571.00	1.93	8.99	134.46	-5,617.76	5,723.99	8,020.18	8,009.26	10.92	734.769		
700.00	700.00	671.00	671.00	2.29	10.73	134.46	-5,617.76	5,723.99	8,020.18	8,007.16	13.02	616.035		
800.00	800.00	771.00	771.00	2.64	12.48	134.46	-5,617.76	5,723.99	8,020.18	8,005.06	15.12	530.336		
900.00	900.00	871.00	871.00	3.00	14.22	134.46	-5,617.76	5,723.99	8,020.18	8,002.95	17.23	465.568		
1,000.00	1,000.00	971.00	971.00	3.36	15.97	134.46	-5,617.76	5,723.99	8,020.18	8,000.85	19.33	414.899		
1,100.00	1,099.98	1,070.98	1,070.98	3.72	17.71	79.86	-5,617.76	5,723.99	8,019.87	7,998.44	21.43	374.232		
1,200.00	1,199.84	1,170.84	1,170.84	4.07	19.46	79.92	-5,617.76	5,723.99	8,018.95	7,995.42	23.53	340.854		
1,300.00	1,299.45	1,270.45	1,270.45	4.43	21.20	80.01	-5,617.76	5,723.99	8,017.43	7,991.80	25.62	312.909		
1,400.00	1,398.70	1,369.70	1,369.70	4.80	22.93	80.13	-5,617.76	5,723.99	8,015.31	7,987.59	27.72	289.150		
1,500.00	1,497.47	1,468.47	1,468.47	5.18	24.65	80.30	-5,617.76	5,723.99	8,012.62	7,982.79	29.82	268.675		
1,600.00	1,595.62	1,566.62	1,566.62	5.57	26.37	80.49	-5,617.76	5,723.99	8,009.37	7,977.44	31.93	250.821		
1,700.00	1,693.06	1,664.06	1,664.06	6.00	28.07	80.72	-5,617.76	5,723.99	8,005.61	7,971.56	34.05	235.090		
1,800.00	1,789.64	1,760.64	1,760.64	6.45	29.75	80.98	-5,617.76	5,723.99	8,001.35	7,965.16	36.19	221.101		
1,900.00	1,885.27	1,856.27	1,856.27	6.94	31.42	81.27	-5,617.76	5,723.99	7,996.64	7,958.30	38.34	208.560		
2,000.00	1,979.82	1,950.82	1,950.82	7.47	33.07	81.59	-5,617.76	5,723.99	7,991.52	7,951.00	40.52	197.237		
2,100.00	2,073.17	2,044.17	2,044.17	8.05	34.70	81.94	-5,617.76	5,723.99	7,986.03	7,943.31	42.72	186.950		
2,200.00	2,165.21	2,136.21	2,136.21	8.67	36.31	82.31	-5,617.76	5,723.99	7,980.22	7,935.28	44.95	177.555		
2,300.00	2,255.84	2,226.84	2,226.84	9.35	37.89	82.70	-5,617.76	5,723.99	7,974.15	7,926.95	47.20	168.933		
2,400.00	2,344.94	2,315.94	2,315.94	10.09	39.44	83.12	-5,617.76	5,723.99	7,967.88	7,918.39	49.49	160.991		
2,500.00	2,432.39	2,403.39	2,403.39	10.89	40.97	83.55	-5,617.76	5,723.99	7,961.46	7,909.64	51.82	153.650		
2,519.29	2,449.07	2,420.07	2,420.07	11.05	41.26	83.63	-5,617.76	5,723.99	7,960.21	7,907.94	52.27	152.299		
2,600.00	2,518.69	2,489.69	2,489.69	11.74	42.48	83.89	-5,617.76	5,723.99	7,955.07	7,900.91	54.17	146.856		
2,700.00	2,604.95	2,575.95	2,575.95	12.62	43.98	84.20	-5,617.76	5,723.99	7,949.00	7,892.45	56.55	140.570		
2,800.00	2,691.22	2,662.22	2,662.22	13.52	45.49	84.51	-5,617.76	5,723.99	7,943.25	7,884.30	58.95	134.751		
2,900.00	2,777.48	2,748.48	2,748.48	14.43	46.99	84.83	-5,617.76	5,723.99	7,937.81	7,876.44	61.36	129.359		
3,000.00	2,863.75	2,834.75	2,834.75	15.35	48.50	85.14	-5,617.76	5,723.99	7,932.69	7,868.90	63.79	124.354		
3,100.00	2,950.01	2,921.01	2,921.01	16.28	50.00	85.46	-5,617.76	5,723.99	7,927.89	7,861.66	66.23	119.700		
3,200.00	3,036.27	3,007.27	3,007.27	17.22	51.51	85.77	-5,617.76	5,723.99	7,923.41	7,854.73	68.68	115.366		
3,300.00	3,122.54	3,106.46	3,106.46	18.17	53.24	86.09	-5,617.76	5,723.99	7,919.25	7,847.89	71.36	110.971		
3,400.00	3,208.80	3,179.80	3,179.80	19.13	54.52	86.40	-5,617.76	5,723.99	7,915.41	7,841.81	73.60	107.544		
3,500.00	3,295.07	3,266.07	3,266.07	20.09	56.03	86.72	-5,617.76	5,723.99	7,911.90	7,835.82	76.07	104.006		
3,600.00	3,381.33	3,352.33	3,352.33	21.05	57.53	87.03	-5,617.76	5,723.99	7,908.70	7,830.15	78.55	100.689		
3,700.00	3,467.59	3,438.59	3,438.59	22.02	59.04	87.35	-5,617.76	5,723.99	7,905.83	7,824.80	81.03	97.572		
3,800.00	3,553.86	3,524.86	3,524.86	22.99	60.54	87.67	-5,617.76	5,723.99	7,903.28	7,819.77	83.51	94.641		
3,900.00	3,640.12	3,611.12	3,611.12	23.97	62.05	87.98	-5,617.76	5,723.99	7,901.05	7,815.06	85.99	91.880		
4,000.00	3,726.38	3,702.62	3,702.62	24.95	63.65	88.30	-5,617.76	5,723.99	7,899.15	7,810.58	88.57	89.182		
4,100.00	3,812.65	3,783.65	3,783.65	25.93	65.06	88.61	-5,617.76	5,723.99	7,897.57	7,806.60	90.97	86.813		
4,200.00	3,898.91	3,869.91	3,869.91	26.91	66.57	88.93	-5,617.76	5,723.99	7,896.31	7,802.85	93.46	84.485		
4,300.00	3,985.18	3,956.18	3,956.18	27.90	68.07	89.25	-5,617.76	5,723.99	7,895.38	7,799.42	95.96	82.279		
4,400.00	4,071.44	4,042.44	4,042.44	28.88	69.58	89.56	-5,617.76	5,723.99	7,894.77	7,796.32	98.45	80.188		
4,500.00	4,157.70	4,128.70	4,128.70	29.87	71.08	89.88	-5,617.76	5,723.99	7,894.49	7,793.54	100.95	78.202		
4,537.66	4,190.19	4,161.19	4,161.19	30.24	71.65	90.00	-5,617.76	5,723.99	7,894.47	7,792.58	101.89	77.480		
4,600.00	4,243.97	4,214.97	4,214.97	30.86	72.59	90.20	-5,617.76	5,723.99	7,894.53	7,791.08	103.45	76.315		
4,700.00	4,330.23	4,301.23	4,301.23	31.85	74.09	90.51	-5,617.76	5,723.99	7,894.89	7,788.95	105.94	74.520		
4,800.00	4,416.49	4,387.49	4,387.49	32.84	75.60	90.83	-5,617.76	5,723.99	7,895.58	7,787.14	108.44	72.810		
4,900.00	4,502.76	4,473.76	4,473.76	33.84	77.10	91.15	-5,617.76	5,723.99	7,896.59	7,785.66	110.94	71.180		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	4,560.02	4,560.02	34.83	78.61	91.46	-5,617.76	5,723.99	7,897.93	7,784.49	113.44	69.625		
5,100.00	4,675.29	4,646.29	4,646.29	35.82	80.12	91.78	-5,617.76	5,723.99	7,899.59	7,783.66	115.93	68.140		
5,200.00	4,761.55	4,732.55	4,732.55	36.82	81.62	92.10	-5,617.76	5,723.99	7,901.57	7,783.14	118.43	66.720		
5,300.00	4,847.81	4,818.81	4,818.81	37.82	83.13	92.41	-5,617.76	5,723.99	7,903.88	7,782.95	120.92	65.362		
5,400.00	4,934.08	4,905.08	4,905.08	38.81	84.63	92.73	-5,617.76	5,723.99	7,906.51	7,783.09	123.42	64.062		
5,500.00	5,020.34	5,008.66	4,991.34	39.81	86.44	93.04	-5,617.76	5,723.99	7,909.46	7,783.24	126.22	62.666		
5,600.00	5,106.60	5,077.60	5,077.60	40.81	87.64	93.36	-5,617.76	5,723.99	7,912.73	7,784.33	128.41	61.623		
5,700.00	5,192.87	5,163.87	5,163.87	41.81	89.15	93.68	-5,617.76	5,723.99	7,916.33	7,785.43	130.90	60.477		
5,800.00	5,279.13	5,250.13	5,250.13	42.81	90.65	93.99	-5,617.76	5,723.99	7,920.25	7,786.86	133.39	59.377		
5,900.00	5,365.40	5,336.40	5,336.40	43.81	92.16	94.31	-5,617.76	5,723.99	7,924.48	7,788.61	135.88	58.321		
6,000.00	5,451.66	5,422.66	5,422.66	44.81	93.67	94.62	-5,617.76	5,723.99	7,929.04	7,790.68	138.36	57.306		
6,100.00	5,537.92	5,508.92	5,508.92	45.81	95.17	94.94	-5,617.76	5,723.99	7,933.92	7,793.07	140.85	56.329		
6,200.00	5,624.19	5,604.81	5,595.19	46.81	96.85	95.25	-5,617.76	5,723.99	7,939.12	7,795.62	143.50	55.324		
6,300.00	5,710.45	5,681.45	5,681.45	47.81	98.18	95.56	-5,617.76	5,723.99	7,944.64	7,798.82	145.81	54.485		
6,400.00	5,796.72	5,767.72	5,767.72	48.81	99.69	95.88	-5,617.76	5,723.99	7,950.47	7,802.18	148.29	53.613		
6,500.00	5,882.98	5,853.98	5,853.98	49.81	101.19	96.19	-5,617.76	5,723.99	7,956.62	7,805.85	150.77	52.773		
6,600.00	5,969.24	5,940.24	5,940.24	50.82	102.70	96.50	-5,617.76	5,723.99	7,963.09	7,809.84	153.25	51.963		
6,700.00	6,055.51	6,026.51	6,026.51	51.82	104.20	96.82	-5,617.76	5,723.99	7,969.87	7,814.16	155.72	51.181		
6,800.00	6,141.77	6,112.77	6,112.77	52.82	105.71	97.13	-5,617.76	5,723.99	7,976.97	7,818.79	158.19	50.427		
6,900.00	6,228.03	6,200.97	6,199.03	53.83	107.25	97.44	-5,617.76	5,723.99	7,984.39	7,823.70	160.69	49.688		
7,000.00	6,314.30	6,285.30	6,285.30	54.83	108.72	97.75	-5,617.76	5,723.99	7,992.11	7,828.99	163.12	48.995		
7,100.00	6,400.56	6,371.56	6,371.56	55.83	110.23	98.06	-5,617.76	5,723.99	8,000.15	7,834.57	165.58	48.315		
7,200.00	6,486.83	6,457.83	6,457.83	56.84	111.73	98.37	-5,617.76	5,723.99	8,008.50	7,840.46	168.04	47.658		
7,300.00	6,573.09	6,544.09	6,544.09	57.84	113.24	98.68	-5,617.76	5,723.99	8,017.16	7,846.66	170.50	47.022		
7,400.00	6,659.35	6,630.35	6,630.35	58.84	114.74	98.99	-5,617.76	5,723.99	8,026.13	7,853.18	172.95	46.407		
7,500.00	6,745.62	6,716.62	6,716.62	59.85	116.25	99.30	-5,617.76	5,723.99	8,035.41	7,860.01	175.40	45.811		
7,600.00	6,831.88	6,802.88	6,802.88	60.85	117.76	99.61	-5,617.76	5,723.99	8,045.00	7,867.15	177.85	45.235		
7,700.00	6,918.14	6,889.14	6,889.14	61.86	119.26	99.91	-5,617.76	5,723.99	8,054.89	7,874.60	180.29	44.677		
7,800.00	7,004.41	6,975.41	6,975.41	62.86	120.77	100.22	-5,617.76	5,723.99	8,065.09	7,882.35	182.73	44.136		
7,900.00	7,090.67	7,061.67	7,061.67	63.87	122.27	100.53	-5,617.76	5,723.99	8,075.59	7,890.42	185.17	43.612		
8,000.00	7,176.94	7,147.94	7,147.94	64.87	123.78	100.83	-5,617.76	5,723.99	8,086.39	7,898.79	187.60	43.103		
8,027.52	7,200.68	7,171.68	7,171.68	65.15	124.19	100.92	-5,617.76	5,723.99	8,089.42	7,901.15	188.27	42.966		
8,050.00	7,220.18	7,208.82	7,191.18	65.37	124.84	97.66	-5,617.76	5,723.99	8,091.50	7,902.37	189.13	42.783		
8,100.00	7,264.25	7,235.25	7,235.25	65.85	125.30	89.35	-5,617.76	5,723.99	8,093.22	7,903.18	190.03	42.588		
8,150.00	7,308.99	7,279.99	7,279.99	66.28	126.08	79.74	-5,617.76	5,723.99	8,090.91	7,899.68	191.24	42.308		
8,200.00	7,354.07	7,325.07	7,325.07	66.67	126.87	69.28	-5,617.76	5,723.99	8,084.59	7,892.17	192.42	42.015		
8,250.00	7,399.14	7,370.14	7,370.14	67.02	127.66	58.70	-5,617.76	5,723.99	8,074.29	7,880.73	193.57	41.713		
8,300.00	7,443.85	7,414.85	7,414.85	67.32	128.44	48.66	-5,617.76	5,723.99	8,060.08	7,865.41	194.67	41.404		
8,350.00	7,487.88	7,458.88	7,458.88	67.56	129.20	39.62	-5,617.76	5,723.99	8,042.05	7,846.33	195.72	41.089		
8,400.00	7,530.87	7,501.87	7,501.87	67.75	129.95	31.69	-5,617.76	5,723.99	8,020.32	7,823.61	196.72	40.771		
8,450.00	7,572.51	7,543.51	7,543.51	67.90	130.68	24.77	-5,617.76	5,723.99	7,995.06	7,797.42	197.65	40.451		
8,500.00	7,612.48	7,583.48	7,583.48	68.00	131.38	18.63	-5,617.76	5,723.99	7,966.45	7,767.94	198.51	40.132		
8,550.00	7,650.47	7,621.47	7,621.47	68.05	132.04	13.03	-5,617.76	5,723.99	7,934.70	7,735.40	199.29	39.814		
8,600.00	7,686.20	7,657.20	7,657.20	68.06	132.67	7.68	-5,617.76	5,723.99	7,900.03	7,700.03	200.00	39.500		
8,650.00	7,719.39	7,709.61	7,690.39	68.03	133.58	2.32	-5,617.76	5,723.99	7,862.72	7,661.76	200.96	39.125		
8,700.00	7,749.79	7,720.79	7,720.79	67.97	133.78	-3.36	-5,617.76	5,723.99	7,823.05	7,621.88	201.17	38.888		
8,750.00	7,777.17	7,748.17	7,748.17	67.87	134.25	-9.70	-5,617.76	5,723.99	7,781.31	7,579.68	201.63	38.593		
8,800.00	7,801.32	7,772.32	7,772.32	67.74	134.68	-17.13	-5,617.76	5,723.99	7,737.83	7,535.83	201.99	38.307		
8,850.00	7,822.06	7,806.94	7,793.06	67.59	135.28	-26.13	-5,617.76	5,723.99	7,692.94	7,490.42	202.51	37.987		
8,900.00	7,839.23	7,810.23	7,810.23	67.41	135.34	-37.10	-5,617.76	5,723.99	7,646.99	7,444.53	202.46	37.770		
8,950.00	7,852.69	7,823.69	7,823.69	67.22	135.57	-50.08	-5,617.76	5,723.99	7,600.34	7,397.78	202.56	37.522		
9,000.00	7,862.35	7,833.35	7,833.35	67.00	135.74	-64.30	-5,617.76	5,723.99	7,553.35	7,350.78	202.57	37.288		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	7,839.14	7,839.14	66.78	135.84	-78.20	-5,617.76	5,723.99	7,506.40	7,303.91	202.49	37.070		
9,098.65	7,870.00	7,841.00	7,841.00	66.55	135.87	-90.00	-5,617.76	5,723.99	7,461.10	7,258.77	202.34	36.874		
9,100.00	7,870.00	7,841.00	7,841.00	66.55	135.87	-90.00	-5,617.76	5,723.99	7,459.85	7,257.52	202.33	36.869		
9,200.00	7,870.00	7,841.00	7,841.00	66.09	135.87	-90.00	-5,617.76	5,723.99	7,367.47	7,165.54	201.93	36.485		
9,300.00	7,870.00	7,841.00	7,841.00	65.65	135.87	-90.00	-5,617.76	5,723.99	7,275.28	7,073.76	201.52	36.102		
9,400.00	7,870.00	7,841.00	7,841.00	65.24	135.87	-90.00	-5,617.76	5,723.99	7,183.31	6,982.20	201.11	35.719		
9,500.00	7,870.00	7,841.00	7,841.00	64.85	135.87	-90.00	-5,617.76	5,723.99	7,091.55	6,890.86	200.69	35.336		
9,600.00	7,870.00	7,841.00	7,841.00	64.48	135.87	-90.00	-5,617.76	5,723.99	7,000.02	6,799.75	200.26	34.954		
9,700.00	7,870.00	7,841.00	7,841.00	64.13	135.87	-90.00	-5,617.76	5,723.99	6,908.72	6,708.89	199.83	34.573		
9,800.00	7,870.00	7,841.00	7,841.00	63.80	135.87	-90.00	-5,617.76	5,723.99	6,817.67	6,618.27	199.39	34.192		
9,900.00	7,870.00	7,841.00	7,841.00	63.50	135.87	-90.00	-5,617.76	5,723.99	6,726.87	6,527.91	198.95	33.811		
10,000.00	7,870.00	7,841.00	7,841.00	63.22	135.87	-90.00	-5,617.76	5,723.99	6,636.33	6,437.83	198.51	33.431		
10,100.00	7,870.00	7,841.00	7,841.00	62.96	135.87	-90.00	-5,617.76	5,723.99	6,546.07	6,348.02	198.05	33.052		
10,200.00	7,870.00	7,841.00	7,841.00	62.72	135.87	-90.00	-5,617.76	5,723.99	6,456.10	6,258.50	197.60	32.673		
10,300.00	7,870.00	7,841.00	7,841.00	62.50	135.87	-90.00	-5,617.76	5,723.99	6,366.43	6,169.29	197.14	32.294		
10,400.00	7,870.00	7,841.00	7,841.00	62.31	135.87	-90.00	-5,617.76	5,723.99	6,277.07	6,080.39	196.67	31.916		
10,500.00	7,870.00	7,841.00	7,841.00	62.15	135.87	-90.00	-5,617.76	5,723.99	6,188.03	5,991.82	196.21	31.538		
10,600.00	7,870.00	7,841.00	7,841.00	62.01	135.87	-90.00	-5,617.76	5,723.99	6,099.33	5,903.60	195.74	31.160		
10,700.00	7,870.00	7,841.00	7,841.00	61.90	135.87	-90.00	-5,617.76	5,723.99	6,010.99	5,815.72	195.27	30.783		
10,800.00	7,870.00	7,841.00	7,841.00	61.82	135.87	-90.00	-5,617.76	5,723.99	5,923.02	5,728.22	194.80	30.405		
10,900.00	7,870.00	7,841.00	7,841.00	61.78	135.87	-90.00	-5,617.76	5,723.99	5,835.44	5,641.11	194.33	30.028		
11,000.00	7,870.00	7,841.00	7,841.00	61.77	135.87	-90.00	-5,617.76	5,723.99	5,748.26	5,554.40	193.87	29.651		
11,100.00	7,870.00	7,841.00	7,841.00	61.81	135.87	-90.00	-5,617.76	5,723.99	5,661.51	5,468.11	193.40	29.273		
11,200.00	7,870.00	7,841.00	7,841.00	61.90	135.87	-90.00	-5,617.76	5,723.99	5,575.20	5,382.25	192.95	28.895		
11,300.00	7,870.00	7,841.00	7,841.00	62.03	135.87	-90.00	-5,617.76	5,723.99	5,489.36	5,296.86	192.50	28.516		
11,400.00	7,870.00	7,841.00	7,841.00	62.23	135.87	-90.00	-5,617.76	5,723.99	5,404.00	5,211.94	192.06	28.137		
11,500.00	7,870.00	7,841.00	7,841.00	62.50	135.87	-90.00	-5,617.76	5,723.99	5,319.15	5,127.52	191.63	27.757		
11,600.00	7,870.00	7,841.00	7,841.00	62.84	135.87	-90.00	-5,617.76	5,723.99	5,234.84	5,043.62	191.22	27.376		
11,700.00	7,870.00	7,841.00	7,841.00	63.25	135.87	-90.00	-5,617.76	5,723.99	5,151.09	4,960.26	190.82	26.994		
11,800.00	7,870.00	7,841.00	7,841.00	63.76	135.87	-90.00	-5,617.76	5,723.99	5,067.93	4,877.48	190.45	26.610		
11,900.00	7,870.00	7,841.00	7,841.00	64.34	135.87	-90.00	-5,617.76	5,723.99	4,985.38	4,795.28	190.10	26.225		
12,000.00	7,870.00	7,841.00	7,841.00	65.01	135.87	-90.00	-5,617.76	5,723.99	4,903.49	4,713.71	189.78	25.838		
12,100.00	7,870.00	7,841.00	7,841.00	65.77	135.87	-90.00	-5,617.76	5,723.99	4,822.28	4,632.78	189.49	25.448		
12,200.00	7,870.00	7,841.00	7,841.00	66.61	135.87	-90.00	-5,617.76	5,723.99	4,741.79	4,552.54	189.25	25.056		
12,300.00	7,870.00	7,841.00	7,841.00	67.51	135.87	-90.00	-5,617.76	5,723.99	4,662.05	4,473.00	189.04	24.661		
12,400.00	7,870.00	7,841.00	7,841.00	68.49	135.87	-90.00	-5,617.76	5,723.99	4,583.11	4,394.21	188.89	24.263		
12,500.00	7,870.00	7,841.00	7,841.00	69.52	135.87	-90.00	-5,617.76	5,723.99	4,505.00	4,316.20	188.79	23.862		
12,600.00	7,870.00	7,841.00	7,841.00	70.61	135.87	-90.00	-5,617.76	5,723.99	4,427.77	4,239.01	188.76	23.457		
12,700.00	7,870.00	7,841.00	7,841.00	71.75	135.87	-90.00	-5,617.76	5,723.99	4,351.48	4,162.68	188.80	23.048		
12,800.00	7,870.00	7,841.00	7,841.00	72.93	135.87	-90.00	-5,617.76	5,723.99	4,276.16	4,087.24	188.92	22.635		
12,900.00	7,870.00	7,841.00	7,841.00	74.14	135.87	-90.00	-5,617.76	5,723.99	4,201.87	4,012.75	189.12	22.218		
13,000.00	7,870.00	7,841.00	7,841.00	75.39	135.87	-90.00	-5,617.76	5,723.99	4,128.66	3,939.25	189.42	21.797		
13,100.00	7,870.00	7,841.00	7,841.00	76.67	135.87	-90.00	-5,617.76	5,723.99	4,056.60	3,866.79	189.81	21.371		
13,200.00	7,870.00	7,841.00	7,841.00	77.98	135.87	-90.00	-5,617.76	5,723.99	3,985.75	3,795.43	190.32	20.942		
13,300.00	7,870.00	7,841.00	7,841.00	79.31	135.87	-90.00	-5,617.76	5,723.99	3,916.16	3,725.22	190.94	20.510		
13,400.00	7,870.00	7,841.00	7,841.00	80.67	135.87	-90.00	-5,617.76	5,723.99	3,847.92	3,656.23	191.69	20.074		
13,500.00	7,870.00	7,841.00	7,841.00	82.04	135.87	-90.00	-5,617.76	5,723.99	3,781.09	3,588.53	192.57	19.635		
13,600.00	7,870.00	7,841.00	7,841.00	83.43	135.87	-90.00	-5,617.76	5,723.99	3,715.76	3,522.18	193.58	19.195		
13,700.00	7,870.00	7,841.00	7,841.00	84.84	135.87	-90.00	-5,617.76	5,723.99	3,651.99	3,457.26	194.73	18.754		
13,800.00	7,870.00	7,841.00	7,841.00	86.27	135.87	-90.00	-5,617.76	5,723.99	3,589.87	3,393.85	196.02	18.314		
13,900.00	7,870.00	7,841.00	7,841.00	87.71	135.87	-90.00	-5,617.76	5,723.99	3,529.49	3,332.03	197.46	17.874		
14,000.00	7,870.00	7,841.00	7,841.00	89.16	135.87	-90.00	-5,617.76	5,723.99	3,470.95	3,271.90	199.05	17.438		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	7,841.00	7,841.00	90.63	135.87	-90.00	-5,617.76	5,723.99	3,414.33	3,213.55	200.79	17.005		
14,200.00	7,870.00	7,841.00	7,841.00	92.10	135.87	-90.00	-5,617.76	5,723.99	3,359.74	3,157.07	202.67	16.578		
14,300.00	7,870.00	7,841.00	7,841.00	93.59	135.87	-90.00	-5,617.76	5,723.99	3,307.26	3,102.58	204.69	16.158		
14,400.00	7,870.00	7,841.00	7,841.00	95.09	135.87	-90.00	-5,617.76	5,723.99	3,257.02	3,050.17	206.85	15.746		
14,500.00	7,870.00	7,841.00	7,841.00	96.60	135.87	-90.00	-5,617.76	5,723.99	3,209.10	2,999.96	209.14	15.344		
14,600.00	7,870.00	7,841.00	7,841.00	98.11	135.87	-90.00	-5,617.76	5,723.99	3,163.62	2,952.06	211.56	14.954		
14,700.00	7,870.00	7,841.00	7,841.00	99.64	135.87	-90.00	-5,617.76	5,723.99	3,120.68	2,906.59	214.09	14.577		
14,800.00	7,870.00	7,841.00	7,841.00	101.17	135.87	-90.00	-5,617.76	5,723.99	3,080.39	2,863.67	216.73	14.213		
14,900.00	7,870.00	7,841.00	7,841.00	102.71	135.87	-90.00	-5,617.76	5,723.99	3,042.86	2,823.40	219.46	13.865		
15,000.00	7,870.00	7,841.00	7,841.00	104.26	135.87	-90.00	-5,617.76	5,723.99	3,008.18	2,785.91	222.27	13.534		
15,100.00	7,870.00	7,841.00	7,841.00	105.82	135.87	-90.00	-5,617.76	5,723.99	2,976.46	2,751.32	225.14	13.220		
15,200.00	7,870.00	7,841.00	7,841.00	107.38	135.87	-90.00	-5,617.76	5,723.99	2,947.79	2,719.72	228.07	12.925		
15,300.00	7,870.00	7,841.00	7,841.00	108.95	135.87	-90.00	-5,617.76	5,723.99	2,922.27	2,691.23	231.04	12.648		
15,400.00	7,870.00	7,841.00	7,841.00	110.52	135.87	-90.00	-5,617.76	5,723.99	2,899.97	2,665.95	234.02	12.392		
15,500.00	7,870.00	7,841.00	7,841.00	112.10	135.87	-90.00	-5,617.76	5,723.99	2,880.97	2,643.97	237.00	12.156		
15,600.00	7,870.00	7,841.00	7,841.00	113.69	135.87	-90.00	-5,617.76	5,723.99	2,865.33	2,625.37	239.97	11.940		
15,700.00	7,870.00	7,841.00	7,841.00	115.28	135.87	-90.00	-5,617.76	5,723.99	2,853.12	2,610.22	242.90	11.746		
15,800.00	7,870.00	7,841.00	7,841.00	116.87	135.87	-90.00	-5,617.76	5,723.99	2,844.38	2,598.59	245.78	11.573		
15,900.00	7,870.00	7,841.00	7,841.00	118.47	135.87	-90.00	-5,617.76	5,723.99	2,839.13	2,590.53	248.60	11.421		
15,999.17	7,870.00	7,841.00	7,841.00	120.06	135.87	-90.00	-5,617.76	5,723.99	2,837.39	2,586.08	251.31	11.290 CC		
16,000.00	7,870.00	7,841.00	7,841.00	120.07	135.87	-90.00	-5,617.76	5,723.99	2,837.39	2,586.06	251.33	11.289		
16,100.00	7,870.00	7,841.00	7,841.00	121.68	135.87	-90.00	-5,617.76	5,723.99	2,839.18	2,585.22	253.97	11.179 ES		
16,200.00	7,870.00	7,841.00	7,841.00	123.30	135.87	-90.00	-5,617.76	5,723.99	2,844.49	2,587.99	256.50	11.090		
16,300.00	7,870.00	7,841.00	7,841.00	124.91	135.87	-90.00	-5,617.76	5,723.99	2,853.30	2,594.39	258.91	11.021		
16,400.00	7,870.00	7,841.00	7,841.00	126.53	135.87	-90.00	-5,617.76	5,723.99	2,865.56	2,604.38	261.19	10.971		
16,500.00	7,870.00	7,841.00	7,841.00	128.16	135.87	-90.00	-5,617.76	5,723.99	2,881.25	2,617.92	263.34	10.941		
16,600.00	7,870.00	7,841.00	7,841.00	129.79	135.87	-90.00	-5,617.76	5,723.99	2,900.31	2,634.97	265.34	10.930 SF		
16,700.00	7,870.00	7,841.00	7,841.00	131.42	135.87	-90.00	-5,617.76	5,723.99	2,922.66	2,655.46	267.21	10.938		
16,800.00	7,870.00	7,841.00	7,841.00	133.05	135.87	-90.00	-5,617.76	5,723.99	2,948.24	2,679.32	268.93	10.963		
16,900.00	7,870.00	7,841.00	7,841.00	134.69	135.87	-90.00	-5,617.76	5,723.99	2,976.96	2,706.46	270.50	11.005		
17,000.00	7,870.00	7,841.00	7,841.00	136.33	135.87	-90.00	-5,617.76	5,723.99	3,008.73	2,736.80	271.93	11.064		
17,100.00	7,870.00	7,841.00	7,841.00	137.97	135.87	-90.00	-5,617.76	5,723.99	3,043.45	2,770.23	273.22	11.139		
17,200.00	7,870.00	7,841.00	7,841.00	139.62	135.87	-90.00	-5,617.76	5,723.99	3,081.04	2,806.66	274.38	11.229		
17,300.00	7,870.00	7,841.00	7,841.00	141.27	135.87	-90.00	-5,617.76	5,723.99	3,121.37	2,845.97	275.40	11.334		
17,400.00	7,870.00	7,841.00	7,841.00	142.92	135.87	-90.00	-5,617.76	5,723.99	3,164.35	2,888.05	276.30	11.453		
17,500.00	7,870.00	7,841.00	7,841.00	144.58	135.87	-90.00	-5,617.76	5,723.99	3,209.87	2,932.79	277.08	11.585		
17,600.00	7,870.00	7,841.00	7,841.00	146.23	135.87	-90.00	-5,617.76	5,723.99	3,257.83	2,980.08	277.75	11.729		
17,700.00	7,870.00	7,841.00	7,841.00	147.89	135.87	-90.00	-5,617.76	5,723.99	3,308.11	3,029.80	278.32	11.886		
17,800.00	7,870.00	7,841.00	7,841.00	149.56	135.87	-90.00	-5,617.76	5,723.99	3,360.62	3,081.84	278.78	12.055		
17,900.00	7,870.00	7,841.00	7,841.00	151.22	135.87	-90.00	-5,617.76	5,723.99	3,415.25	3,136.09	279.16	12.234		
18,000.00	7,870.00	7,841.00	7,841.00	152.89	135.87	-90.00	-5,617.76	5,723.99	3,471.90	3,192.44	279.46	12.424		
18,100.00	7,870.00	7,841.00	7,841.00	154.55	135.87	-90.00	-5,617.76	5,723.99	3,530.48	3,250.80	279.68	12.623		
18,200.00	7,870.00	7,841.00	7,841.00	156.22	135.87	-90.00	-5,617.76	5,723.99	3,590.88	3,311.06	279.83	12.833		
18,300.00	7,870.00	7,841.00	7,841.00	157.90	135.87	-90.00	-5,617.76	5,723.99	3,653.03	3,373.11	279.91	13.051		
18,400.00	7,870.00	7,841.00	7,841.00	159.57	135.87	-90.00	-5,617.76	5,723.99	3,716.82	3,436.88	279.94	13.277		
18,500.00	7,870.00	7,841.00	7,841.00	161.25	135.87	-90.00	-5,617.76	5,723.99	3,782.19	3,502.26	279.92	13.512		
18,600.00	7,870.00	7,841.00	7,841.00	162.93	135.87	-90.00	-5,617.76	5,723.99	3,849.04	3,569.19	279.85	13.754		
18,700.00	7,870.00	7,841.00	7,841.00	164.60	135.87	-90.00	-5,617.76	5,723.99	3,917.30	3,637.56	279.74	14.003		
18,797.52	7,870.00	7,841.00	7,841.00	166.24	135.87	-90.00	-5,617.76	5,723.99	3,985.16	3,705.56	279.60	14.253		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.26	-4,823.78	4,950.57	6,912.25					
100.00	100.00	52.00	52.00	0.13	0.40	134.26	-4,823.78	4,950.57	6,912.09	6,911.55	0.53	N/A		
200.00	200.00	152.00	152.00	0.49	1.68	134.26	-4,823.78	4,950.57	6,912.09	6,909.92	2.17	3,187.621		
300.00	300.00	252.00	252.00	0.85	3.42	134.26	-4,823.78	4,950.57	6,912.09	6,907.81	4.27	1,617.916		
400.00	400.00	352.00	352.00	1.21	5.17	134.26	-4,823.78	4,950.57	6,912.09	6,905.71	6.38	1,084.076		
500.00	500.00	452.00	452.00	1.57	6.91	134.26	-4,823.78	4,950.57	6,912.09	6,903.61	8.48	815.122		
600.00	600.00	552.00	552.00	1.93	8.66	134.26	-4,823.78	4,950.57	6,912.09	6,901.50	10.58	653.093		
700.00	700.00	652.00	652.00	2.29	10.40	134.26	-4,823.78	4,950.57	6,912.09	6,899.40	12.69	544.798		
800.00	800.00	752.00	752.00	2.64	12.15	134.26	-4,823.78	4,950.57	6,912.09	6,897.30	14.79	467.310		
900.00	900.00	852.00	852.00	3.00	13.89	134.26	-4,823.78	4,950.57	6,912.09	6,895.19	16.90	409.120		
1,000.00	1,000.00	952.00	952.00	3.36	15.64	134.26	-4,823.78	4,950.57	6,912.09	6,893.09	19.00	363.817		
1,100.00	1,099.98	1,051.98	1,051.98	3.72	17.38	79.66	-4,823.78	4,950.57	6,911.77	6,890.67	21.10	327.594		
1,200.00	1,199.84	1,151.84	1,151.84	4.07	19.13	79.72	-4,823.78	4,950.57	6,910.84	6,887.64	23.19	297.953		
1,300.00	1,299.45	1,251.45	1,251.45	4.43	20.86	79.82	-4,823.78	4,950.57	6,909.28	6,883.99	25.29	273.196		
1,400.00	1,398.70	1,350.70	1,350.70	4.80	22.60	79.96	-4,823.78	4,950.57	6,907.13	6,879.74	27.39	252.190		
1,500.00	1,497.47	1,449.47	1,449.47	5.18	24.32	80.14	-4,823.78	4,950.57	6,904.39	6,874.90	29.49	234.118		
1,600.00	1,595.62	1,547.62	1,547.62	5.57	26.03	80.36	-4,823.78	4,950.57	6,901.10	6,869.50	31.60	218.383		
1,700.00	1,693.06	1,645.06	1,645.06	6.00	27.73	80.61	-4,823.78	4,950.57	6,897.29	6,863.56	33.72	204.536		
1,800.00	1,789.64	1,741.64	1,741.64	6.45	29.42	80.90	-4,823.78	4,950.57	6,892.99	6,857.13	35.86	192.236		
1,900.00	1,885.27	1,837.27	1,837.27	6.94	31.09	81.23	-4,823.78	4,950.57	6,888.24	6,850.23	38.01	181.219		
2,000.00	1,979.82	1,931.82	1,931.82	7.47	32.74	81.58	-4,823.78	4,950.57	6,883.10	6,842.92	40.19	171.282		
2,100.00	2,073.17	2,025.17	2,025.17	8.05	34.37	81.97	-4,823.78	4,950.57	6,877.62	6,835.23	42.39	162.262		
2,200.00	2,165.21	2,117.21	2,117.21	8.67	35.97	82.38	-4,823.78	4,950.57	6,871.85	6,827.23	44.61	154.029		
2,300.00	2,255.84	2,207.84	2,207.84	9.35	37.56	82.82	-4,823.78	4,950.57	6,865.85	6,818.98	46.87	146.480		
2,400.00	2,344.94	2,303.06	2,296.94	10.09	39.22	83.27	-4,823.78	4,950.57	6,859.69	6,810.42	49.27	139.228		
2,500.00	2,432.39	2,384.39	2,384.39	10.89	40.64	83.75	-4,823.78	4,950.57	6,853.44	6,801.96	51.49	133.112		
2,519.29	2,449.07	2,401.07	2,401.07	11.05	40.93	83.84	-4,823.78	4,950.57	6,852.23	6,800.30	51.94	131.931		
2,600.00	2,518.69	2,470.69	2,470.69	11.74	42.14	84.14	-4,823.78	4,950.57	6,847.29	6,793.45	53.84	127.176		
2,700.00	2,604.95	2,556.95	2,556.95	12.62	43.65	84.50	-4,823.78	4,950.57	6,841.50	6,785.27	56.22	121.689		
2,800.00	2,691.22	2,643.22	2,643.22	13.52	45.16	84.87	-4,823.78	4,950.57	6,836.07	6,777.45	58.62	116.614		
2,900.00	2,777.48	2,729.48	2,729.48	14.43	46.66	85.23	-4,823.78	4,950.57	6,831.02	6,769.98	61.04	111.914		
3,000.00	2,863.75	2,815.75	2,815.75	15.35	48.17	85.60	-4,823.78	4,950.57	6,826.34	6,762.87	63.47	107.556		
3,100.00	2,950.01	2,902.01	2,902.01	16.28	49.67	85.96	-4,823.78	4,950.57	6,822.02	6,756.12	65.91	103.507		
3,200.00	3,036.27	2,988.27	2,988.27	17.22	51.18	86.33	-4,823.78	4,950.57	6,818.09	6,749.73	68.36	99.739		
3,300.00	3,122.54	3,074.54	3,074.54	18.17	52.68	86.70	-4,823.78	4,950.57	6,814.52	6,743.70	70.82	96.226		
3,400.00	3,208.80	3,160.80	3,160.80	19.13	54.19	87.06	-4,823.78	4,950.57	6,811.33	6,738.05	73.28	92.946		
3,500.00	3,295.07	3,247.07	3,247.07	20.09	55.69	87.43	-4,823.78	4,950.57	6,808.51	6,732.76	75.75	89.878		
3,600.00	3,381.33	3,333.33	3,333.33	21.05	57.20	87.80	-4,823.78	4,950.57	6,806.07	6,727.84	78.23	87.003		
3,700.00	3,467.59	3,419.59	3,419.59	22.02	58.71	88.16	-4,823.78	4,950.57	6,804.00	6,723.30	80.71	84.305		
3,800.00	3,553.86	3,505.86	3,505.86	22.99	60.21	88.53	-4,823.78	4,950.57	6,802.31	6,719.12	83.19	81.769		
3,900.00	3,640.12	3,607.88	3,592.12	23.97	61.99	88.90	-4,823.78	4,950.57	6,801.00	6,715.05	85.95	79.127		
4,000.00	3,726.38	3,678.38	3,678.38	24.95	63.22	89.27	-4,823.78	4,950.57	6,800.06	6,711.89	88.16	77.131		
4,100.00	3,812.65	3,764.65	3,764.65	25.93	64.73	89.63	-4,823.78	4,950.57	6,799.49	6,708.84	90.65	75.007		
4,199.79	3,898.73	3,850.73	3,850.73	26.91	66.23	90.00	-4,823.78	4,950.57	6,799.31	6,706.17	93.14	73.003		
4,200.00	3,898.91	3,850.91	3,850.91	26.91	66.23	90.00	-4,823.78	4,950.57	6,799.31	6,706.16	93.14	72.999		
4,300.00	3,985.18	3,937.18	3,937.18	27.90	67.74	90.37	-4,823.78	4,950.57	6,799.49	6,703.86	95.63	71.099		
4,400.00	4,071.44	4,023.44	4,023.44	28.88	69.24	90.74	-4,823.78	4,950.57	6,800.06	6,701.93	98.13	69.299		
4,500.00	4,157.70	4,109.70	4,109.70	29.87	70.75	91.10	-4,823.78	4,950.57	6,801.00	6,700.38	100.62	67.591		
4,600.00	4,243.97	4,204.03	4,195.97	30.86	72.40	91.47	-4,823.78	4,950.57	6,802.32	6,699.06	103.25	65.880		
4,700.00	4,330.23	4,282.23	4,282.23	31.85	73.76	91.84	-4,823.78	4,950.57	6,804.01	6,698.41	105.61	64.428		
4,800.00	4,416.49	4,368.49	4,368.49	32.84	75.27	92.21	-4,823.78	4,950.57	6,806.08	6,697.98	108.10	62.962		
4,900.00	4,502.76	4,454.76	4,454.76	33.84	76.77	92.57	-4,823.78	4,950.57	6,808.52	6,697.93	110.59	61.566		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	4,541.02	4,541.02	34.83	78.28	92.94	-4,823.78	4,950.57	6,811.34	6,698.26	113.08	60.234		
5,100.00	4,675.29	4,627.29	4,627.29	35.82	79.78	93.31	-4,823.78	4,950.57	6,814.54	6,698.96	115.57	58.964		
5,200.00	4,761.55	4,713.55	4,713.55	36.82	81.29	93.67	-4,823.78	4,950.57	6,818.10	6,700.04	118.06	57.752		
5,300.00	4,847.81	4,800.19	4,799.81	37.82	82.80	94.04	-4,823.78	4,950.57	6,822.04	6,701.49	120.55	56.590		
5,400.00	4,934.08	4,886.08	4,886.08	38.81	84.30	94.40	-4,823.78	4,950.57	6,826.35	6,703.32	123.03	55.484		
5,500.00	5,020.34	4,972.34	4,972.34	39.81	85.81	94.77	-4,823.78	4,950.57	6,831.04	6,705.52	125.52	54.424		
5,600.00	5,106.60	5,058.60	5,058.60	40.81	87.31	95.13	-4,823.78	4,950.57	6,836.09	6,708.10	128.00	53.408		
5,700.00	5,192.87	5,144.87	5,144.87	41.81	88.82	95.50	-4,823.78	4,950.57	6,841.52	6,711.04	130.48	52.435		
5,800.00	5,279.13	5,231.13	5,231.13	42.81	90.32	95.86	-4,823.78	4,950.57	6,847.31	6,714.36	132.95	51.501		
5,900.00	5,365.40	5,317.40	5,317.40	43.81	91.83	96.23	-4,823.78	4,950.57	6,853.48	6,718.05	135.43	50.606		
6,000.00	5,451.66	5,403.66	5,403.66	44.81	93.33	96.59	-4,823.78	4,950.57	6,860.01	6,722.11	137.90	49.746		
6,100.00	5,537.92	5,489.92	5,489.92	45.81	94.84	96.95	-4,823.78	4,950.57	6,866.91	6,726.53	140.37	48.920		
6,200.00	5,624.19	5,576.19	5,576.19	46.81	96.35	97.31	-4,823.78	4,950.57	6,874.17	6,731.33	142.84	48.126		
6,300.00	5,710.45	5,662.45	5,662.45	47.81	97.85	97.68	-4,823.78	4,950.57	6,881.79	6,736.49	145.30	47.362		
6,400.00	5,796.72	5,748.72	5,748.72	48.81	99.36	98.04	-4,823.78	4,950.57	6,889.78	6,742.02	147.76	46.628		
6,500.00	5,882.98	5,834.98	5,834.98	49.81	100.86	98.40	-4,823.78	4,950.57	6,898.14	6,747.92	150.22	45.920		
6,600.00	5,969.24	5,921.24	5,921.24	50.82	102.37	98.76	-4,823.78	4,950.57	6,906.85	6,754.17	152.67	45.239		
6,700.00	6,055.51	6,007.51	6,007.51	51.82	103.87	99.12	-4,823.78	4,950.57	6,915.92	6,760.79	155.12	44.583		
6,800.00	6,141.77	6,106.23	6,093.77	52.82	105.60	99.47	-4,823.78	4,950.57	6,925.35	6,767.56	157.79	43.890		
6,900.00	6,228.03	6,180.03	6,180.03	53.83	106.88	99.83	-4,823.78	4,950.57	6,935.13	6,775.12	160.01	43.341		
7,000.00	6,314.30	6,266.30	6,266.30	54.83	108.39	100.19	-4,823.78	4,950.57	6,945.27	6,782.82	162.45	42.752		
7,100.00	6,400.56	6,352.56	6,352.56	55.83	109.90	100.54	-4,823.78	4,950.57	6,955.76	6,790.87	164.89	42.184		
7,200.00	6,486.83	6,438.83	6,438.83	56.84	111.40	100.90	-4,823.78	4,950.57	6,966.60	6,799.28	167.32	41.636		
7,300.00	6,573.09	6,525.09	6,525.09	57.84	112.91	101.25	-4,823.78	4,950.57	6,977.80	6,808.05	169.75	41.107		
7,400.00	6,659.35	6,611.35	6,611.35	58.84	114.41	101.61	-4,823.78	4,950.57	6,989.34	6,817.17	172.17	40.595		
7,500.00	6,745.62	6,702.38	6,697.62	59.85	116.00	101.96	-4,823.78	4,950.57	7,001.23	6,826.55	174.67	40.082		
7,600.00	6,831.88	6,783.88	6,783.88	60.85	117.42	102.31	-4,823.78	4,950.57	7,013.46	6,836.45	177.01	39.623		
7,700.00	6,918.14	6,870.14	6,870.14	61.86	118.93	102.66	-4,823.78	4,950.57	7,026.03	6,846.62	179.42	39.160		
7,800.00	7,004.41	6,956.41	6,956.41	62.86	120.43	103.01	-4,823.78	4,950.57	7,038.95	6,857.13	181.82	38.713		
7,900.00	7,090.67	7,042.67	7,042.67	63.87	121.94	103.36	-4,823.78	4,950.57	7,052.21	6,867.98	184.23	38.280		
8,000.00	7,176.94	7,128.94	7,128.94	64.87	123.45	103.71	-4,823.78	4,950.57	7,065.80	6,879.18	186.62	37.861		
8,027.52	7,200.68	7,152.68	7,152.68	65.15	123.86	103.80	-4,823.78	4,950.57	7,069.60	6,882.32	187.28	37.749		
8,050.00	7,220.18	7,172.18	7,172.18	65.37	124.20	100.56	-4,823.78	4,950.57	7,072.31	6,884.49	187.82	37.655		
8,100.00	7,264.25	7,216.25	7,216.25	65.85	124.97	92.31	-4,823.78	4,950.57	7,075.38	6,886.36	189.02	37.432		
8,150.00	7,308.99	7,260.99	7,260.99	66.28	125.75	82.76	-4,823.78	4,950.57	7,074.37	6,884.16	190.21	37.192		
8,200.00	7,354.07	7,306.07	7,306.07	66.67	126.54	72.40	-4,823.78	4,950.57	7,069.27	6,877.89	191.39	36.937		
8,250.00	7,399.14	7,351.14	7,351.14	67.02	127.32	61.92	-4,823.78	4,950.57	7,060.11	6,867.58	192.53	36.670		
8,300.00	7,443.85	7,404.15	7,395.85	67.32	128.25	52.03	-4,823.78	4,950.57	7,046.95	6,853.17	193.78	36.366		
8,350.00	7,487.88	7,439.88	7,439.88	67.56	128.87	43.16	-4,823.78	4,950.57	7,029.86	6,835.17	194.69	36.108		
8,400.00	7,530.87	7,482.87	7,482.87	67.75	129.62	35.43	-4,823.78	4,950.57	7,008.98	6,813.29	195.69	35.816		
8,450.00	7,572.51	7,524.51	7,524.51	67.90	130.35	28.75	-4,823.78	4,950.57	6,984.45	6,787.82	196.63	35.520		
8,500.00	7,612.48	7,564.48	7,564.48	68.00	131.05	22.91	-4,823.78	4,950.57	6,956.45	6,758.94	197.51	35.221		
8,550.00	7,650.47	7,602.47	7,602.47	68.05	131.71	17.67	-4,823.78	4,950.57	6,925.17	6,726.86	198.31	34.920		
8,600.00	7,686.20	7,638.20	7,638.20	68.06	132.33	12.75	-4,823.78	4,950.57	6,890.85	6,691.81	199.04	34.620		
8,650.00	7,719.39	7,671.39	7,671.39	68.03	132.91	7.92	-4,823.78	4,950.57	6,853.75	6,654.06	199.69	34.321		
8,700.00	7,749.79	7,701.79	7,701.79	67.97	133.44	2.87	-4,823.78	4,950.57	6,814.14	6,613.88	200.26	34.026		
8,750.00	7,777.17	7,729.17	7,729.17	67.87	133.92	-2.75	-4,823.78	4,950.57	6,772.32	6,571.57	200.75	33.735		
8,800.00	7,801.32	7,753.32	7,753.32	67.74	134.34	-9.38	-4,823.78	4,950.57	6,728.62	6,527.47	201.15	33.451		
8,850.00	7,822.06	7,774.06	7,774.06	67.59	134.71	-17.66	-4,823.78	4,950.57	6,683.35	6,481.89	201.46	33.174		
8,900.00	7,839.23	7,808.77	7,791.23	67.41	135.31	-28.32	-4,823.78	4,950.57	6,636.88	6,434.89	201.99	32.857		
8,950.00	7,852.69	7,804.69	7,804.69	67.22	135.24	-42.02	-4,823.78	4,950.57	6,589.57	6,387.75	201.82	32.651		
9,000.00	7,862.35	7,814.35	7,814.35	67.00	135.41	-58.42	-4,823.78	4,950.57	6,541.78	6,339.91	201.87	32.406		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	7,820.14	7,820.14	66.78	135.51	-75.44	-4,823.78	4,950.57	6,493.88	6,292.05	201.83	32.175		
9,098.65	7,870.00	7,822.00	7,822.00	66.55	135.54	-90.00	-4,823.78	4,950.57	6,447.54	6,245.83	201.72	31.964		
9,100.00	7,870.00	7,822.00	7,822.00	66.55	135.54	-90.00	-4,823.78	4,950.57	6,446.26	6,244.55	201.71	31.958		
9,200.00	7,870.00	7,822.00	7,822.00	66.09	135.54	-90.00	-4,823.78	4,950.57	6,351.59	6,150.20	201.39	31.539		
9,300.00	7,870.00	7,822.00	7,822.00	65.65	135.54	-90.00	-4,823.78	4,950.57	6,257.09	6,056.03	201.06	31.121		
9,400.00	7,870.00	7,822.00	7,822.00	65.24	135.54	-90.00	-4,823.78	4,950.57	6,162.76	5,962.04	200.72	30.704		
9,500.00	7,870.00	7,822.00	7,822.00	64.85	135.54	-90.00	-4,823.78	4,950.57	6,068.61	5,868.24	200.37	30.287		
9,600.00	7,870.00	7,822.00	7,822.00	64.48	135.54	-90.00	-4,823.78	4,950.57	5,974.65	5,774.63	200.02	29.870		
9,700.00	7,870.00	7,822.00	7,822.00	64.13	135.54	-90.00	-4,823.78	4,950.57	5,880.89	5,681.23	199.66	29.455		
9,800.00	7,870.00	7,822.00	7,822.00	63.80	135.54	-90.00	-4,823.78	4,950.57	5,787.34	5,588.05	199.29	29.040		
9,900.00	7,870.00	7,822.00	7,822.00	63.50	135.54	-90.00	-4,823.78	4,950.57	5,694.01	5,495.10	198.92	28.625		
10,000.00	7,870.00	7,822.00	7,822.00	63.22	135.54	-90.00	-4,823.78	4,950.57	5,600.91	5,402.38	198.53	28.212		
10,100.00	7,870.00	7,822.00	7,822.00	62.96	135.54	-90.00	-4,823.78	4,950.57	5,508.05	5,309.91	198.14	27.799		
10,200.00	7,870.00	7,822.00	7,822.00	62.72	135.54	-90.00	-4,823.78	4,950.57	5,415.45	5,217.71	197.74	27.386		
10,300.00	7,870.00	7,822.00	7,822.00	62.50	135.54	-90.00	-4,823.78	4,950.57	5,323.11	5,125.78	197.34	26.975		
10,400.00	7,870.00	7,822.00	7,822.00	62.31	135.54	-90.00	-4,823.78	4,950.57	5,231.06	5,034.13	196.92	26.564		
10,500.00	7,870.00	7,822.00	7,822.00	62.15	135.54	-90.00	-4,823.78	4,950.57	5,139.30	4,942.80	196.50	26.154		
10,600.00	7,870.00	7,822.00	7,822.00	62.01	135.54	-90.00	-4,823.78	4,950.57	5,047.86	4,851.78	196.08	25.744		
10,700.00	7,870.00	7,822.00	7,822.00	61.90	135.54	-90.00	-4,823.78	4,950.57	4,956.74	4,761.10	195.64	25.335		
10,800.00	7,870.00	7,822.00	7,822.00	61.82	135.54	-90.00	-4,823.78	4,950.57	4,865.98	4,670.77	195.21	24.927		
10,900.00	7,870.00	7,822.00	7,822.00	61.78	135.54	-90.00	-4,823.78	4,950.57	4,775.58	4,580.82	194.76	24.520		
11,000.00	7,870.00	7,822.00	7,822.00	61.77	135.54	-90.00	-4,823.78	4,950.57	4,685.57	4,491.26	194.31	24.113		
11,100.00	7,870.00	7,822.00	7,822.00	61.81	135.54	-90.00	-4,823.78	4,950.57	4,595.98	4,402.12	193.86	23.707		
11,200.00	7,870.00	7,822.00	7,822.00	61.90	135.54	-90.00	-4,823.78	4,950.57	4,506.83	4,313.42	193.41	23.302		
11,300.00	7,870.00	7,822.00	7,822.00	62.03	135.54	-90.00	-4,823.78	4,950.57	4,418.13	4,225.18	192.96	22.897		
11,400.00	7,870.00	7,822.00	7,822.00	62.23	135.54	-90.00	-4,823.78	4,950.57	4,329.94	4,137.43	192.50	22.493		
11,500.00	7,870.00	7,822.00	7,822.00	62.50	135.54	-90.00	-4,823.78	4,950.57	4,242.26	4,050.21	192.06	22.089		
11,600.00	7,870.00	7,822.00	7,822.00	62.84	135.54	-90.00	-4,823.78	4,950.57	4,155.14	3,963.53	191.61	21.685		
11,700.00	7,870.00	7,822.00	7,822.00	63.25	135.54	-90.00	-4,823.78	4,950.57	4,068.62	3,877.44	191.18	21.282		
11,800.00	7,870.00	7,822.00	7,822.00	63.76	135.54	-90.00	-4,823.78	4,950.57	3,982.73	3,791.97	190.76	20.878		
11,900.00	7,870.00	7,822.00	7,822.00	64.34	135.54	-90.00	-4,823.78	4,950.57	3,897.50	3,707.15	190.36	20.475		
12,000.00	7,870.00	7,822.00	7,822.00	65.01	135.54	-90.00	-4,823.78	4,950.57	3,813.00	3,623.03	189.97	20.071		
12,100.00	7,870.00	7,822.00	7,822.00	65.77	135.54	-90.00	-4,823.78	4,950.57	3,729.27	3,539.65	189.62	19.667		
12,200.00	7,870.00	7,822.00	7,822.00	66.61	135.54	-90.00	-4,823.78	4,950.57	3,646.35	3,457.05	189.30	19.262		
12,300.00	7,870.00	7,822.00	7,822.00	67.51	135.54	-90.00	-4,823.78	4,950.57	3,564.31	3,375.29	189.02	18.857		
12,400.00	7,870.00	7,822.00	7,822.00	68.49	135.54	-90.00	-4,823.78	4,950.57	3,483.21	3,294.42	188.79	18.450		
12,500.00	7,870.00	7,822.00	7,822.00	69.52	135.54	-90.00	-4,823.78	4,950.57	3,403.11	3,214.49	188.62	18.042		
12,600.00	7,870.00	7,822.00	7,822.00	70.61	135.54	-90.00	-4,823.78	4,950.57	3,324.10	3,135.58	188.52	17.633		
12,700.00	7,870.00	7,822.00	7,822.00	71.75	135.54	-90.00	-4,823.78	4,950.57	3,246.24	3,057.74	188.49	17.222		
12,800.00	7,870.00	7,822.00	7,822.00	72.93	135.54	-90.00	-4,823.78	4,950.57	3,169.62	2,981.05	188.57	16.809		
12,900.00	7,870.00	7,822.00	7,822.00	74.14	135.54	-90.00	-4,823.78	4,950.57	3,094.34	2,905.59	188.74	16.394		
13,000.00	7,870.00	7,822.00	7,822.00	75.39	135.54	-90.00	-4,823.78	4,950.57	3,020.49	2,831.45	189.04	15.978		
13,100.00	7,870.00	7,822.00	7,822.00	76.67	135.54	-90.00	-4,823.78	4,950.57	2,948.19	2,758.71	189.48	15.559		
13,200.00	7,870.00	7,822.00	7,822.00	77.98	135.54	-90.00	-4,823.78	4,950.57	2,877.54	2,687.48	190.07	15.140		
13,300.00	7,870.00	7,822.00	7,822.00	79.31	135.54	-90.00	-4,823.78	4,950.57	2,808.68	2,617.86	190.82	14.719		
13,400.00	7,870.00	7,822.00	7,822.00	80.67	135.54	-90.00	-4,823.78	4,950.57	2,741.74	2,549.99	191.75	14.299		
13,500.00	7,870.00	7,822.00	7,822.00	82.04	135.54	-90.00	-4,823.78	4,950.57	2,676.86	2,483.99	192.87	13.879		
13,600.00	7,870.00	7,822.00	7,822.00	83.43	135.54	-90.00	-4,823.78	4,950.57	2,614.19	2,420.00	194.19	13.462		
13,700.00	7,870.00	7,822.00	7,822.00	84.84	135.54	-90.00	-4,823.78	4,950.57	2,553.90	2,358.18	195.73	13.048		
13,800.00	7,870.00	7,822.00	7,822.00	86.27	135.54	-90.00	-4,823.78	4,950.57	2,496.17	2,298.69	197.48	12.640		
13,900.00	7,870.00	7,822.00	7,822.00	87.71	135.54	-90.00	-4,823.78	4,950.57	2,441.17	2,241.72	199.45	12.240		
14,000.00	7,870.00	7,822.00	7,822.00	89.16	135.54	-90.00	-4,823.78	4,950.57	2,389.09	2,187.46	201.63	11.849		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	7,822.00	7,822.00	90.63	135.54	-90.00	-4,823.78	4,950.57	2,340.12	2,136.10	204.02	11.470		
14,200.00	7,870.00	7,822.00	7,822.00	92.10	135.54	-90.00	-4,823.78	4,950.57	2,294.48	2,087.87	206.61	11.105		
14,300.00	7,870.00	7,822.00	7,822.00	93.59	135.54	-90.00	-4,823.78	4,950.57	2,252.35	2,042.97	209.38	10.757		
14,400.00	7,870.00	7,822.00	7,822.00	95.09	135.54	-90.00	-4,823.78	4,950.57	2,213.93	2,001.63	212.30	10.428		
14,500.00	7,870.00	7,822.00	7,822.00	96.60	135.54	-90.00	-4,823.78	4,950.57	2,179.43	1,964.07	215.36	10.120		
14,600.00	7,870.00	7,822.00	7,822.00	98.11	135.54	-90.00	-4,823.78	4,950.57	2,149.04	1,930.51	218.53	9.834		
14,700.00	7,870.00	7,822.00	7,822.00	99.64	135.54	-90.00	-4,823.78	4,950.57	2,122.93	1,901.16	221.77	9.573		
14,800.00	7,870.00	7,822.00	7,822.00	101.17	135.54	-90.00	-4,823.78	4,950.57	2,101.25	1,876.21	225.04	9.337		
14,900.00	7,870.00	7,822.00	7,822.00	102.71	135.54	-90.00	-4,823.78	4,950.57	2,084.15	1,855.83	228.32	9.128		
15,000.00	7,870.00	7,822.00	7,822.00	104.26	135.54	-90.00	-4,823.78	4,950.57	2,071.74	1,840.19	231.55	8.947		
15,100.00	7,870.00	7,822.00	7,822.00	105.82	135.54	-90.00	-4,823.78	4,950.57	2,064.11	1,829.40	234.71	8.794		
15,200.00	7,870.00	7,822.00	7,822.00	107.38	135.54	-90.00	-4,823.78	4,950.57	2,061.31	1,823.55	237.77	8.670		
15,207.81	7,870.00	7,822.00	7,822.00	107.50	135.54	-90.00	-4,823.78	4,950.57	2,061.30	1,823.30	238.00	8.661 CC		
15,300.00	7,870.00	7,822.00	7,822.00	108.95	135.54	-90.00	-4,823.78	4,950.57	2,063.36	1,822.68	240.67	8.573 ES		
15,400.00	7,870.00	7,822.00	7,822.00	110.52	135.54	-90.00	-4,823.78	4,950.57	2,070.24	1,826.82	243.42	8.505		
15,500.00	7,870.00	7,822.00	7,822.00	112.10	135.54	-90.00	-4,823.78	4,950.57	2,081.90	1,835.94	245.96	8.464		
15,600.00	7,870.00	7,822.00	7,822.00	113.69	135.54	-90.00	-4,823.78	4,950.57	2,098.27	1,849.97	248.31	8.450 SF		
15,700.00	7,870.00	7,822.00	7,822.00	115.28	135.54	-90.00	-4,823.78	4,950.57	2,119.24	1,868.81	250.43	8.462		
15,800.00	7,870.00	7,822.00	7,822.00	116.87	135.54	-90.00	-4,823.78	4,950.57	2,144.67	1,892.34	252.33	8.499		
15,900.00	7,870.00	7,822.00	7,822.00	118.47	135.54	-90.00	-4,823.78	4,950.57	2,174.41	1,920.40	254.01	8.560		
16,000.00	7,870.00	7,822.00	7,822.00	120.07	135.54	-90.00	-4,823.78	4,950.57	2,208.28	1,952.81	255.47	8.644		
16,100.00	7,870.00	7,822.00	7,822.00	121.68	135.54	-90.00	-4,823.78	4,950.57	2,246.10	1,989.38	256.72	8.749		
16,200.00	7,870.00	7,822.00	7,822.00	123.30	135.54	-90.00	-4,823.78	4,950.57	2,287.66	2,029.90	257.76	8.875		
16,300.00	7,870.00	7,822.00	7,822.00	124.91	135.54	-90.00	-4,823.78	4,950.57	2,332.77	2,074.15	258.62	9.020		
16,400.00	7,870.00	7,822.00	7,822.00	126.53	135.54	-90.00	-4,823.78	4,950.57	2,381.23	2,121.92	259.31	9.183		
16,500.00	7,870.00	7,822.00	7,822.00	128.16	135.54	-90.00	-4,823.78	4,950.57	2,432.84	2,173.00	259.84	9.363		
16,600.00	7,870.00	7,822.00	7,822.00	129.79	135.54	-90.00	-4,823.78	4,950.57	2,487.40	2,227.16	260.23	9.558		
16,700.00	7,870.00	7,822.00	7,822.00	131.42	135.54	-90.00	-4,823.78	4,950.57	2,544.71	2,284.22	260.50	9.769		
16,800.00	7,870.00	7,822.00	7,822.00	133.05	135.54	-90.00	-4,823.78	4,950.57	2,604.61	2,343.97	260.65	9.993		
16,900.00	7,870.00	7,822.00	7,822.00	134.69	135.54	-90.00	-4,823.78	4,950.57	2,666.92	2,406.22	260.70	10.230		
17,000.00	7,870.00	7,822.00	7,822.00	136.33	135.54	-90.00	-4,823.78	4,950.57	2,731.46	2,470.79	260.67	10.479		
17,100.00	7,870.00	7,822.00	7,822.00	137.97	135.54	-90.00	-4,823.78	4,950.57	2,798.09	2,537.53	260.56	10.739		
17,200.00	7,870.00	7,822.00	7,822.00	139.62	135.54	-90.00	-4,823.78	4,950.57	2,866.66	2,606.27	260.40	11.009		
17,300.00	7,870.00	7,822.00	7,822.00	141.27	135.54	-90.00	-4,823.78	4,950.57	2,937.04	2,676.87	260.17	11.289		
17,400.00	7,870.00	7,822.00	7,822.00	142.92	135.54	-90.00	-4,823.78	4,950.57	3,009.09	2,749.19	259.91	11.578		
17,500.00	7,870.00	7,822.00	7,822.00	144.58	135.54	-90.00	-4,823.78	4,950.57	3,082.71	2,823.10	259.60	11.875		
17,600.00	7,870.00	7,822.00	7,822.00	146.23	135.54	-90.00	-4,823.78	4,950.57	3,157.77	2,898.50	259.27	12.180		
17,700.00	7,870.00	7,822.00	7,822.00	147.89	135.54	-90.00	-4,823.78	4,950.57	3,234.19	2,975.28	258.91	12.492		
17,800.00	7,870.00	7,822.00	7,822.00	149.56	135.54	-90.00	-4,823.78	4,950.57	3,311.86	3,053.33	258.53	12.810		
17,900.00	7,870.00	7,822.00	7,822.00	151.22	135.54	-90.00	-4,823.78	4,950.57	3,390.70	3,132.56	258.14	13.135		
18,000.00	7,870.00	7,822.00	7,822.00	152.89	135.54	-90.00	-4,823.78	4,950.57	3,470.63	3,212.90	257.73	13.466		
18,100.00	7,870.00	7,822.00	7,822.00	154.55	135.54	-90.00	-4,823.78	4,950.57	3,551.58	3,294.26	257.32	13.802		
18,200.00	7,870.00	7,822.00	7,822.00	156.22	135.54	-90.00	-4,823.78	4,950.57	3,633.48	3,376.58	256.90	14.144		
18,300.00	7,870.00	7,822.00	7,822.00	157.90	135.54	-90.00	-4,823.78	4,950.57	3,716.26	3,459.78	256.48	14.490		
18,400.00	7,870.00	7,822.00	7,822.00	159.57	135.54	-90.00	-4,823.78	4,950.57	3,799.87	3,543.82	256.05	14.840		
18,500.00	7,870.00	7,822.00	7,822.00	161.25	135.54	-90.00	-4,823.78	4,950.57	3,884.26	3,628.63	255.63	15.195		
18,600.00	7,870.00	7,822.00	7,822.00	162.93	135.54	-90.00	-4,823.78	4,950.57	3,969.37	3,714.16	255.21	15.553		
18,700.00	7,870.00	7,822.00	7,822.00	164.60	135.54	-90.00	-4,823.78	4,950.57	4,055.16	3,800.37	254.79	15.916		
18,797.52	7,870.00	7,822.00	7,822.00	166.24	135.54	-90.00	-4,823.78	4,950.57	4,139.44	3,885.05	254.39	16.272		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	142.56	-4,088.21	3,130.10	5,148.94					
100.00	100.00	77.00	77.00	0.13	0.60	142.56	-4,088.21	3,130.10	5,148.89	5,148.15	0.73	7,029.534		
200.00	200.00	177.00	177.00	0.49	2.12	142.56	-4,088.21	3,130.10	5,148.89	5,146.27	2.61	1,970.130		
300.00	300.00	277.00	277.00	0.85	3.87	142.56	-4,088.21	3,130.10	5,148.89	5,144.17	4.72	1,091.496		
400.00	400.00	377.00	377.00	1.21	5.61	142.56	-4,088.21	3,130.10	5,148.89	5,142.06	6.82	754.849		
500.00	500.00	477.00	477.00	1.57	7.36	142.56	-4,088.21	3,130.10	5,148.89	5,139.96	8.92	576.914		
600.00	600.00	577.00	577.00	1.93	9.10	142.56	-4,088.21	3,130.10	5,148.89	5,137.86	11.03	466.863		
700.00	700.00	677.00	677.00	2.29	10.85	142.56	-4,088.21	3,130.10	5,148.89	5,135.75	13.13	392.073		
800.00	800.00	777.00	777.00	2.64	12.59	142.56	-4,088.21	3,130.10	5,148.89	5,133.65	15.24	337.936		
900.00	900.00	877.00	877.00	3.00	14.34	142.56	-4,088.21	3,130.10	5,148.89	5,131.55	17.34	296.936		
1,000.00	1,000.00	977.00	977.00	3.36	16.08	142.56	-4,088.21	3,130.10	5,148.89	5,129.44	19.44	264.808		
1,100.00	1,099.98	1,076.98	1,076.98	3.72	17.83	87.96	-4,088.21	3,130.10	5,148.82	5,127.28	21.54	238.994		
1,200.00	1,199.84	1,176.84	1,176.84	4.07	19.57	88.02	-4,088.21	3,130.10	5,148.64	5,125.00	23.64	217.795		
1,300.00	1,299.45	1,276.45	1,276.45	4.43	21.31	88.12	-4,088.21	3,130.10	5,148.35	5,122.61	25.74	200.040		
1,400.00	1,398.70	1,375.70	1,375.70	4.80	23.04	88.27	-4,088.21	3,130.10	5,147.96	5,120.12	27.84	184.941		
1,500.00	1,497.47	1,474.47	1,474.47	5.18	24.77	88.45	-4,088.21	3,130.10	5,147.50	5,117.57	29.94	171.930		
1,600.00	1,595.62	1,572.62	1,572.62	5.57	26.48	88.67	-4,088.21	3,130.10	5,147.02	5,114.96	32.05	160.586		
1,700.00	1,693.06	1,670.06	1,670.06	6.00	28.18	88.92	-4,088.21	3,130.10	5,146.53	5,112.35	34.18	150.593		
1,800.00	1,789.64	1,766.64	1,766.64	6.45	29.87	89.21	-4,088.21	3,130.10	5,146.09	5,109.78	36.31	141.711		
1,900.00	1,885.27	1,862.27	1,862.27	6.94	31.53	89.52	-4,088.21	3,130.10	5,145.75	5,107.28	38.47	133.754		
2,000.00	1,979.82	1,956.82	1,956.82	7.47	33.18	89.87	-4,088.21	3,130.10	5,145.57	5,104.92	40.65	126.576		
2,035.51	2,013.11	2,009.89	1,990.11	7.67	34.11	90.00	-4,088.21	3,130.10	5,145.56	5,103.78	41.78	123.153		
2,100.00	2,073.17	2,050.17	2,050.17	8.05	34.81	90.24	-4,088.21	3,130.10	5,145.61	5,102.75	42.86	120.064		
2,200.00	2,165.21	2,142.21	2,142.21	8.67	36.42	90.64	-4,088.21	3,130.10	5,145.94	5,100.85	45.09	114.124		
2,300.00	2,255.84	2,232.84	2,232.84	9.35	38.00	91.05	-4,088.21	3,130.10	5,146.62	5,099.27	47.35	108.683		
2,400.00	2,344.94	2,321.94	2,321.94	10.09	39.56	91.48	-4,088.21	3,130.10	5,147.75	5,098.10	49.65	103.682		
2,500.00	2,432.39	2,409.39	2,409.39	10.89	41.08	91.92	-4,088.21	3,130.10	5,149.39	5,097.42	51.98	99.071		
2,519.29	2,449.07	2,426.07	2,426.07	11.05	41.37	92.00	-4,088.21	3,130.10	5,149.78	5,097.35	52.43	98.224		
2,600.00	2,518.69	2,504.31	2,495.69	11.74	42.74	92.39	-4,088.21	3,130.10	5,151.59	5,097.11	54.48	94.554		
2,700.00	2,604.95	2,581.95	2,581.95	12.62	44.09	92.88	-4,088.21	3,130.10	5,154.28	5,097.57	56.71	90.884		
2,800.00	2,691.22	2,668.22	2,668.22	13.52	45.60	93.36	-4,088.21	3,130.10	5,157.47	5,098.36	59.11	87.253		
2,900.00	2,777.48	2,754.48	2,754.48	14.43	47.11	93.85	-4,088.21	3,130.10	5,161.16	5,099.64	61.52	83.894		
3,000.00	2,863.75	2,840.75	2,840.75	15.35	48.61	94.33	-4,088.21	3,130.10	5,165.33	5,101.39	63.94	80.782		
3,100.00	2,950.01	2,927.01	2,927.01	16.28	50.12	94.81	-4,088.21	3,130.10	5,170.00	5,103.63	66.37	77.895		
3,200.00	3,036.27	3,013.27	3,013.27	17.22	51.62	95.29	-4,088.21	3,130.10	5,175.16	5,106.35	68.81	75.212		
3,300.00	3,122.54	3,100.46	3,099.54	18.17	53.14	95.78	-4,088.21	3,130.10	5,180.80	5,109.54	71.26	72.698		
3,400.00	3,208.80	3,185.80	3,185.80	19.13	54.63	96.26	-4,088.21	3,130.10	5,186.94	5,113.24	73.69	70.385		
3,500.00	3,295.07	3,272.07	3,272.07	20.09	56.14	96.74	-4,088.21	3,130.10	5,193.56	5,117.41	76.14	68.210		
3,600.00	3,381.33	3,358.33	3,358.33	21.05	57.65	97.21	-4,088.21	3,130.10	5,200.66	5,122.07	78.59	66.176		
3,700.00	3,467.59	3,444.59	3,444.59	22.02	59.15	97.69	-4,088.21	3,130.10	5,208.24	5,127.20	81.04	64.269		
3,800.00	3,553.86	3,530.86	3,530.86	22.99	60.66	98.17	-4,088.21	3,130.10	5,216.31	5,132.82	83.49	62.480		
3,900.00	3,640.12	3,617.12	3,617.12	23.97	62.16	98.64	-4,088.21	3,130.10	5,224.85	5,138.91	85.94	60.799		
4,000.00	3,726.38	3,703.38	3,703.38	24.95	63.67	99.12	-4,088.21	3,130.10	5,233.86	5,145.48	88.38	59.218		
4,100.00	3,812.65	3,789.65	3,789.65	25.93	65.17	99.59	-4,088.21	3,130.10	5,243.35	5,152.52	90.83	57.727		
4,200.00	3,898.91	3,875.91	3,875.91	26.91	66.68	100.06	-4,088.21	3,130.10	5,253.31	5,160.04	93.27	56.322		
4,300.00	3,985.18	3,962.18	3,962.18	27.90	68.18	100.53	-4,088.21	3,130.10	5,263.73	5,168.02	95.71	54.994		
4,400.00	4,071.44	4,048.44	4,048.44	28.88	69.69	101.00	-4,088.21	3,130.10	5,274.62	5,176.47	98.15	53.739		
4,500.00	4,157.70	4,134.70	4,134.70	29.87	71.20	101.47	-4,088.21	3,130.10	5,285.97	5,185.39	100.59	52.551		
4,600.00	4,243.97	4,220.97	4,220.97	30.86	72.70	101.94	-4,088.21	3,130.10	5,297.78	5,194.77	103.02	51.425		
4,700.00	4,330.23	4,307.23	4,307.23	31.85	74.21	102.40	-4,088.21	3,130.10	5,310.05	5,204.60	105.45	50.357		
4,800.00	4,416.49	4,406.51	4,393.49	32.84	75.94	102.86	-4,088.21	3,130.10	5,322.77	5,214.67	108.10	49.240		
4,900.00	4,502.76	4,479.76	4,479.76	33.84	77.22	103.32	-4,088.21	3,130.10	5,335.94	5,225.64	110.29	48.380		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,589.02	4,566.02	4,566.02	34.83	78.72	103.78	-4,088.21	3,130.10	5,349.55	5,236.84	112.71	47.464		
5,100.00	4,675.29	4,652.29	4,652.29	35.82	80.23	104.24	-4,088.21	3,130.10	5,363.61	5,248.49	115.12	46.592		
5,200.00	4,761.55	4,738.55	4,738.55	36.82	81.73	104.70	-4,088.21	3,130.10	5,378.10	5,260.58	117.52	45.762		
5,300.00	4,847.81	4,824.81	4,824.81	37.82	83.24	105.15	-4,088.21	3,130.10	5,393.03	5,273.10	119.93	44.970		
5,400.00	4,934.08	4,911.08	4,911.08	38.81	84.75	105.60	-4,088.21	3,130.10	5,408.39	5,286.07	122.32	44.215		
5,500.00	5,020.34	5,002.66	4,997.34	39.81	86.34	106.05	-4,088.21	3,130.10	5,424.18	5,299.38	124.80	43.461		
5,600.00	5,106.60	5,083.60	5,083.60	40.81	87.76	106.50	-4,088.21	3,130.10	5,440.40	5,313.30	127.10	42.805		
5,700.00	5,192.87	5,169.87	5,169.87	41.81	89.26	106.94	-4,088.21	3,130.10	5,457.03	5,327.56	129.48	42.147		
5,800.00	5,279.13	5,256.13	5,256.13	42.81	90.77	107.39	-4,088.21	3,130.10	5,474.09	5,342.23	131.85	41.517		
5,900.00	5,365.40	5,342.40	5,342.40	43.81	92.27	107.83	-4,088.21	3,130.10	5,491.55	5,357.33	134.22	40.915		
6,000.00	5,451.66	5,428.66	5,428.66	44.81	93.78	108.27	-4,088.21	3,130.10	5,509.42	5,372.84	136.58	40.338		
6,100.00	5,537.92	5,514.92	5,514.92	45.81	95.28	108.71	-4,088.21	3,130.10	5,527.70	5,388.77	138.94	39.785		
6,200.00	5,624.19	5,601.19	5,601.19	46.81	96.79	109.14	-4,088.21	3,130.10	5,546.38	5,405.09	141.29	39.255		
6,300.00	5,710.45	5,687.45	5,687.45	47.81	98.30	109.57	-4,088.21	3,130.10	5,565.46	5,421.83	143.63	38.747		
6,400.00	5,796.72	5,773.72	5,773.72	48.81	99.80	110.00	-4,088.21	3,130.10	5,584.93	5,438.96	145.97	38.260		
6,500.00	5,882.98	5,859.98	5,859.98	49.81	101.31	110.43	-4,088.21	3,130.10	5,604.79	5,456.49	148.31	37.792		
6,600.00	5,969.24	5,946.24	5,946.24	50.82	102.81	110.86	-4,088.21	3,130.10	5,625.04	5,474.40	150.63	37.343		
6,700.00	6,055.51	6,032.51	6,032.51	51.82	104.32	111.28	-4,088.21	3,130.10	5,645.66	5,492.71	152.95	36.911		
6,800.00	6,141.77	6,118.77	6,118.77	52.82	105.82	111.70	-4,088.21	3,130.10	5,666.66	5,511.40	155.27	36.496		
6,900.00	6,228.03	6,205.03	6,205.03	53.83	107.33	112.12	-4,088.21	3,130.10	5,688.04	5,530.46	157.57	36.098		
7,000.00	6,314.30	6,308.70	6,291.30	54.83	109.14	112.53	-4,088.21	3,130.10	5,709.78	5,549.60	160.18	35.646		
7,100.00	6,400.56	6,377.56	6,377.56	55.83	110.34	112.95	-4,088.21	3,130.10	5,731.88	5,569.71	162.17	35.345		
7,200.00	6,486.83	6,463.83	6,463.83	56.84	111.85	113.36	-4,088.21	3,130.10	5,754.35	5,589.89	164.46	34.989		
7,300.00	6,573.09	6,550.09	6,550.09	57.84	113.35	113.77	-4,088.21	3,130.10	5,777.17	5,610.43	166.74	34.647		
7,400.00	6,659.35	6,636.35	6,636.35	58.84	114.86	114.17	-4,088.21	3,130.10	5,800.34	5,631.32	169.02	34.318		
7,500.00	6,745.62	6,722.62	6,722.62	59.85	116.36	114.57	-4,088.21	3,130.10	5,823.86	5,652.57	171.29	34.000		
7,600.00	6,831.88	6,808.88	6,808.88	60.85	117.87	114.98	-4,088.21	3,130.10	5,847.72	5,674.17	173.55	33.694		
7,700.00	6,918.14	6,904.86	6,895.14	61.86	119.54	115.37	-4,088.21	3,130.10	5,871.92	5,695.94	175.98	33.367		
7,800.00	7,004.41	6,981.41	6,981.41	62.86	120.88	115.77	-4,088.21	3,130.10	5,896.46	5,718.40	178.06	33.115		
7,900.00	7,090.67	7,067.67	7,067.67	63.87	122.39	116.16	-4,088.21	3,130.10	5,921.32	5,741.02	180.31	32.840		
8,000.00	7,176.94	7,153.94	7,153.94	64.87	123.89	116.55	-4,088.21	3,130.10	5,946.52	5,763.97	182.55	32.575		
8,027.52	7,200.68	7,177.68	7,177.68	65.15	124.31	116.66	-4,088.21	3,130.10	5,953.51	5,770.35	183.16	32.504		
8,050.00	7,220.18	7,202.82	7,197.18	65.37	124.74	113.39	-4,088.21	3,130.10	5,958.81	5,775.04	183.76	32.426		
8,100.00	7,264.25	7,241.25	7,241.25	65.85	125.41	105.14	-4,088.21	3,130.10	5,967.57	5,782.77	184.80	32.293		
8,150.00	7,308.99	7,285.99	7,285.99	66.28	126.20	95.69	-4,088.21	3,130.10	5,972.11	5,786.17	185.94	32.119		
8,200.00	7,354.07	7,331.07	7,331.07	66.67	126.98	85.52	-4,088.21	3,130.10	5,972.38	5,785.31	187.07	31.926		
8,250.00	7,399.14	7,376.14	7,376.14	67.02	127.77	75.33	-4,088.21	3,130.10	5,968.39	5,780.20	188.19	31.715		
8,300.00	7,443.85	7,420.85	7,420.85	67.32	128.55	65.83	-4,088.21	3,130.10	5,960.15	5,770.86	189.28	31.488		
8,350.00	7,487.88	7,464.88	7,464.88	67.56	129.32	57.48	-4,088.21	3,130.10	5,947.72	5,757.38	190.34	31.248		
8,400.00	7,530.87	7,507.87	7,507.87	67.75	130.07	50.42	-4,088.21	3,130.10	5,931.20	5,739.84	191.36	30.995		
8,450.00	7,572.51	7,549.51	7,549.51	67.90	130.80	44.59	-4,088.21	3,130.10	5,910.69	5,718.37	192.33	30.733		
8,500.00	7,612.48	7,589.48	7,589.48	68.00	131.49	39.80	-4,088.21	3,130.10	5,886.36	5,693.12	193.24	30.461		
8,550.00	7,650.47	7,627.47	7,627.47	68.05	132.16	35.88	-4,088.21	3,130.10	5,858.36	5,664.27	194.10	30.183		
8,600.00	7,686.20	7,663.20	7,663.20	68.06	132.78	32.63	-4,088.21	3,130.10	5,826.92	5,632.03	194.89	29.899		
8,650.00	7,719.39	7,703.61	7,696.39	68.03	133.48	29.92	-4,088.21	3,130.10	5,792.24	5,596.51	195.74	29.592		
8,700.00	7,749.79	7,726.79	7,726.79	67.97	133.89	27.60	-4,088.21	3,130.10	5,754.60	5,558.34	196.26	29.321		
8,750.00	7,777.17	7,754.17	7,754.17	67.87	134.37	25.56	-4,088.21	3,130.10	5,714.27	5,517.43	196.84	29.030		
8,800.00	7,801.32	7,778.32	7,778.32	67.74	134.79	23.67	-4,088.21	3,130.10	5,671.54	5,474.20	197.34	28.741		
8,850.00	7,822.06	7,800.94	7,799.06	67.59	135.18	21.78	-4,088.21	3,130.10	5,626.73	5,428.94	197.79	28.448		
8,900.00	7,839.23	7,816.23	7,816.23	67.41	135.45	19.63	-4,088.21	3,130.10	5,580.18	5,382.08	198.10	28.169		
8,950.00	7,852.69	7,829.69	7,829.69	67.22	135.69	16.66	-4,088.21	3,130.10	5,532.23	5,333.88	198.35	27.891		
9,000.00	7,862.35	7,839.35	7,839.35	67.00	135.85	11.19	-4,088.21	3,130.10	5,483.25	5,284.72	198.53	27.619		

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.00	7,868.14	7,845.14	7,845.14	66.78	135.95	-5.54	-4,088.21	3,130.10	5,433.61	5,234.98	198.63	27.355		
9,098.65	7,870.00	7,847.00	7,847.00	66.55	135.99	-90.00	-4,088.21	3,130.10	5,385.03	5,186.38	198.65	27.108		
9,100.00	7,870.00	7,847.00	7,847.00	66.55	135.99	-90.00	-4,088.21	3,130.10	5,383.67	5,185.03	198.65	27.101		
9,200.00	7,870.00	7,847.00	7,847.00	66.09	135.99	-90.00	-4,088.21	3,130.10	5,283.77	5,085.16	198.61	26.604		
9,300.00	7,870.00	7,847.00	7,847.00	65.65	135.99	-90.00	-4,088.21	3,130.10	5,183.88	4,985.31	198.57	26.106		
9,400.00	7,870.00	7,847.00	7,847.00	65.24	135.99	-90.00	-4,088.21	3,130.10	5,083.99	4,885.46	198.53	25.608		
9,500.00	7,870.00	7,847.00	7,847.00	64.85	135.99	-90.00	-4,088.21	3,130.10	4,984.10	4,785.61	198.49	25.110		
9,600.00	7,870.00	7,847.00	7,847.00	64.48	135.99	-90.00	-4,088.21	3,130.10	4,884.22	4,685.77	198.45	24.612		
9,700.00	7,870.00	7,847.00	7,847.00	64.13	135.99	-90.00	-4,088.21	3,130.10	4,784.34	4,585.93	198.40	24.114		
9,800.00	7,870.00	7,847.00	7,847.00	63.80	135.99	-90.00	-4,088.21	3,130.10	4,684.46	4,486.11	198.36	23.616		
9,900.00	7,870.00	7,847.00	7,847.00	63.50	135.99	-90.00	-4,088.21	3,130.10	4,584.60	4,386.29	198.31	23.118		
10,000.00	7,870.00	7,847.00	7,847.00	63.22	135.99	-90.00	-4,088.21	3,130.10	4,484.73	4,286.47	198.26	22.620		
10,100.00	7,870.00	7,847.00	7,847.00	62.96	135.99	-90.00	-4,088.21	3,130.10	4,384.88	4,186.67	198.21	22.122		
10,200.00	7,870.00	7,847.00	7,847.00	62.72	135.99	-90.00	-4,088.21	3,130.10	4,285.03	4,086.87	198.16	21.624		
10,300.00	7,870.00	7,847.00	7,847.00	62.50	135.99	-90.00	-4,088.21	3,130.10	4,185.19	3,987.08	198.11	21.126		
10,400.00	7,870.00	7,847.00	7,847.00	62.31	135.99	-90.00	-4,088.21	3,130.10	4,085.36	3,887.30	198.05	20.627		
10,500.00	7,870.00	7,847.00	7,847.00	62.15	135.99	-90.00	-4,088.21	3,130.10	3,985.53	3,787.53	198.00	20.129		
10,600.00	7,870.00	7,847.00	7,847.00	62.01	135.99	-90.00	-4,088.21	3,130.10	3,885.71	3,687.78	197.94	19.631		
10,700.00	7,870.00	7,847.00	7,847.00	61.90	135.99	-90.00	-4,088.21	3,130.10	3,785.91	3,588.03	197.87	19.133		
10,800.00	7,870.00	7,847.00	7,847.00	61.82	135.99	-90.00	-4,088.21	3,130.10	3,686.11	3,488.30	197.81	18.635		
10,900.00	7,870.00	7,847.00	7,847.00	61.78	135.99	-90.00	-4,088.21	3,130.10	3,586.33	3,388.58	197.74	18.136		
11,000.00	7,870.00	7,847.00	7,847.00	61.77	135.99	-90.00	-4,088.21	3,130.10	3,486.55	3,288.88	197.67	17.638		
11,100.00	7,870.00	7,847.00	7,847.00	61.81	135.99	-90.00	-4,088.21	3,130.10	3,386.79	3,189.20	197.59	17.140		
11,200.00	7,870.00	7,847.00	7,847.00	61.90	135.99	-90.00	-4,088.21	3,130.10	3,287.05	3,089.53	197.51	16.642		
11,300.00	7,870.00	7,847.00	7,847.00	62.03	135.99	-90.00	-4,088.21	3,130.10	3,187.32	2,989.89	197.43	16.144		
11,400.00	7,870.00	7,847.00	7,847.00	62.23	135.99	-90.00	-4,088.21	3,130.10	3,087.61	2,890.27	197.34	15.646		
11,500.00	7,870.00	7,847.00	7,847.00	62.50	135.99	-90.00	-4,088.21	3,130.10	2,987.92	2,790.67	197.25	15.148		
11,600.00	7,870.00	7,847.00	7,847.00	62.84	135.99	-90.00	-4,088.21	3,130.10	2,888.25	2,691.10	197.15	14.650		
11,700.00	7,870.00	7,847.00	7,847.00	63.25	135.99	-90.00	-4,088.21	3,130.10	2,788.60	2,591.56	197.04	14.152		
11,800.00	7,870.00	7,847.00	7,847.00	63.76	135.99	-90.00	-4,088.21	3,130.10	2,688.98	2,492.05	196.93	13.655		
11,900.00	7,870.00	7,847.00	7,847.00	64.34	135.99	-90.00	-4,088.21	3,130.10	2,589.39	2,392.59	196.80	13.157		
12,000.00	7,870.00	7,847.00	7,847.00	65.01	135.99	-90.00	-4,088.21	3,130.10	2,489.83	2,293.16	196.67	12.660		
12,100.00	7,870.00	7,847.00	7,847.00	65.77	135.99	-90.00	-4,088.21	3,130.10	2,390.31	2,193.78	196.53	12.163		
12,200.00	7,870.00	7,847.00	7,847.00	66.61	135.99	-90.00	-4,088.21	3,130.10	2,290.83	2,094.45	196.38	11.665		
12,300.00	7,870.00	7,847.00	7,847.00	67.51	135.99	-90.00	-4,088.21	3,130.10	2,191.40	1,995.19	196.21	11.169		
12,400.00	7,870.00	7,847.00	7,847.00	68.49	135.99	-90.00	-4,088.21	3,130.10	2,092.02	1,895.99	196.03	10.672		
12,500.00	7,870.00	7,847.00	7,847.00	69.52	135.99	-90.00	-4,088.21	3,130.10	1,992.70	1,796.87	195.83	10.175		
12,600.00	7,870.00	7,847.00	7,847.00	70.61	135.99	-90.00	-4,088.21	3,130.10	1,893.46	1,697.84	195.62	9.679		
12,700.00	7,870.00	7,847.00	7,847.00	71.75	135.99	-90.00	-4,088.21	3,130.10	1,794.30	1,598.91	195.38	9.183		
12,800.00	7,870.00	7,847.00	7,847.00	72.93	135.99	-90.00	-4,088.21	3,130.10	1,695.24	1,500.11	195.12	8.688		
12,900.00	7,870.00	7,847.00	7,847.00	74.14	135.99	-90.00	-4,088.21	3,130.10	1,596.29	1,401.46	194.83	8.193		
13,000.00	7,870.00	7,847.00	7,847.00	75.39	135.99	-90.00	-4,088.21	3,130.10	1,497.49	1,302.97	194.51	7.699		
13,100.00	7,870.00	7,847.00	7,847.00	76.67	135.99	-90.00	-4,088.21	3,130.10	1,398.85	1,204.70	194.16	7.205		
13,200.00	7,870.00	7,847.00	7,847.00	77.98	135.99	-90.00	-4,088.21	3,130.10	1,300.43	1,106.67	193.76	6.712		
13,300.00	7,870.00	7,847.00	7,847.00	79.31	135.99	-90.00	-4,088.21	3,130.10	1,202.26	1,008.95	193.31	6.219		
13,400.00	7,870.00	7,847.00	7,847.00	80.67	135.99	-90.00	-4,088.21	3,130.10	1,104.42	911.62	192.80	5.728		
13,500.00	7,870.00	7,847.00	7,847.00	82.04	135.99	-90.00	-4,088.21	3,130.10	1,007.01	814.78	192.23	5.238		
13,600.00	7,870.00	7,847.00	7,847.00	83.43	135.99	-90.00	-4,088.21	3,130.10	910.16	718.56	191.60	4.750		
13,700.00	7,870.00	7,847.00	7,847.00	84.84	135.99	-90.00	-4,088.21	3,130.10	814.07	623.16	190.92	4.264		
13,800.00	7,870.00	7,847.00	7,847.00	86.27	135.99	-90.00	-4,088.21	3,130.10	719.05	528.85	190.20	3.780		
13,900.00	7,870.00	7,847.00	7,847.00	87.71	135.99	-90.00	-4,088.21	3,130.10	625.58	436.02	189.56	3.300		
14,000.00	7,870.00	7,847.00	7,847.00	89.16	135.99	-90.00	-4,088.21	3,130.10	534.49	345.25	189.24	2.824		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	7,847.00	7,847.00	90.63	135.99	-90.00	-4,088.21	3,130.10	447.21	257.35	189.86	2.356		
14,200.00	7,870.00	7,847.00	7,847.00	92.10	135.99	-90.00	-4,088.21	3,130.10	366.50	173.65	192.84	1.901		
14,300.00	7,870.00	7,847.00	7,847.00	93.59	135.99	-90.00	-4,088.21	3,130.10	297.72	96.99	200.73	1.483	Level 3	
14,400.00	7,870.00	7,847.00	7,847.00	95.09	135.99	-90.00	-4,088.21	3,130.10	250.92	35.95	214.97	1.167	Level 2	
14,478.40	7,870.00	7,847.00	7,847.00	96.27	135.99	-90.00	-4,088.21	3,130.10	238.36	11.61	226.75	1.051	Level 2, CC	
14,500.00	7,870.00	7,847.00	7,847.00	96.60	135.99	-90.00	-4,088.21	3,130.10	239.34	10.13	229.21	1.044	Level 2, ES, SF	
14,600.00	7,870.00	7,847.00	7,847.00	98.11	135.99	-90.00	-4,088.21	3,130.10	267.59	33.66	233.93	1.144	Level 2	
14,700.00	7,870.00	7,847.00	7,847.00	99.64	135.99	-90.00	-4,088.21	3,130.10	325.46	94.27	231.19	1.408	Level 3	
14,800.00	7,870.00	7,847.00	7,847.00	101.17	135.99	-90.00	-4,088.21	3,130.10	400.31	173.64	226.66	1.766		
14,900.00	7,870.00	7,847.00	7,847.00	102.71	135.99	-90.00	-4,088.21	3,130.10	484.32	261.73	222.59	2.176		
15,000.00	7,870.00	7,847.00	7,847.00	104.26	135.99	-90.00	-4,088.21	3,130.10	573.49	354.13	219.36	2.614		
15,100.00	7,870.00	7,847.00	7,847.00	105.82	135.99	-90.00	-4,088.21	3,130.10	665.74	448.90	216.84	3.070		
15,200.00	7,870.00	7,847.00	7,847.00	107.38	135.99	-90.00	-4,088.21	3,130.10	759.95	545.09	214.87	3.537		
15,300.00	7,870.00	7,847.00	7,847.00	108.95	135.99	-90.00	-4,088.21	3,130.10	855.48	642.18	213.30	4.011		
15,400.00	7,870.00	7,847.00	7,847.00	110.52	135.99	-90.00	-4,088.21	3,130.10	951.93	739.89	212.04	4.489		
15,500.00	7,870.00	7,847.00	7,847.00	112.10	135.99	-90.00	-4,088.21	3,130.10	1,049.04	838.04	211.01	4.972		
15,600.00	7,870.00	7,847.00	7,847.00	113.69	135.99	-90.00	-4,088.21	3,130.10	1,146.65	936.51	210.15	5.456		
15,700.00	7,870.00	7,847.00	7,847.00	115.28	135.99	-90.00	-4,088.21	3,130.10	1,244.64	1,035.22	209.43	5.943		
15,800.00	7,870.00	7,847.00	7,847.00	116.87	135.99	-90.00	-4,088.21	3,130.10	1,342.93	1,134.12	208.81	6.431		
15,900.00	7,870.00	7,847.00	7,847.00	118.47	135.99	-90.00	-4,088.21	3,130.10	1,441.45	1,233.16	208.28	6.921		
16,000.00	7,870.00	7,847.00	7,847.00	120.07	135.99	-90.00	-4,088.21	3,130.10	1,540.16	1,332.33	207.83	7.411		
16,100.00	7,870.00	7,847.00	7,847.00	121.68	135.99	-90.00	-4,088.21	3,130.10	1,639.03	1,431.60	207.43	7.902		
16,200.00	7,870.00	7,847.00	7,847.00	123.30	135.99	-90.00	-4,088.21	3,130.10	1,738.03	1,530.94	207.08	8.393		
16,300.00	7,870.00	7,847.00	7,847.00	124.91	135.99	-90.00	-4,088.21	3,130.10	1,837.13	1,630.36	206.77	8.885		
16,400.00	7,870.00	7,847.00	7,847.00	126.53	135.99	-90.00	-4,088.21	3,130.10	1,936.33	1,729.83	206.50	9.377		
16,500.00	7,870.00	7,847.00	7,847.00	128.16	135.99	-90.00	-4,088.21	3,130.10	2,035.61	1,829.35	206.26	9.869		
16,600.00	7,870.00	7,847.00	7,847.00	129.79	135.99	-90.00	-4,088.21	3,130.10	2,134.95	1,928.91	206.04	10.362		
16,700.00	7,870.00	7,847.00	7,847.00	131.42	135.99	-90.00	-4,088.21	3,130.10	2,234.35	2,028.51	205.84	10.855		
16,800.00	7,870.00	7,847.00	7,847.00	133.05	135.99	-90.00	-4,088.21	3,130.10	2,333.81	2,128.14	205.67	11.347		
16,900.00	7,870.00	7,847.00	7,847.00	134.69	135.99	-90.00	-4,088.21	3,130.10	2,433.31	2,227.80	205.51	11.840		
17,000.00	7,870.00	7,847.00	7,847.00	136.33	135.99	-90.00	-4,088.21	3,130.10	2,532.85	2,327.48	205.37	12.333		
17,100.00	7,870.00	7,847.00	7,847.00	137.97	135.99	-90.00	-4,088.21	3,130.10	2,632.42	2,427.18	205.24	12.826		
17,200.00	7,870.00	7,847.00	7,847.00	139.62	135.99	-90.00	-4,088.21	3,130.10	2,732.02	2,526.90	205.12	13.319		
17,300.00	7,870.00	7,847.00	7,847.00	141.27	135.99	-90.00	-4,088.21	3,130.10	2,831.65	2,626.64	205.01	13.812		
17,400.00	7,870.00	7,847.00	7,847.00	142.92	135.99	-90.00	-4,088.21	3,130.10	2,931.31	2,726.40	204.91	14.305		
17,500.00	7,870.00	7,847.00	7,847.00	144.58	135.99	-90.00	-4,088.21	3,130.10	3,030.99	2,826.17	204.82	14.798		
17,600.00	7,870.00	7,847.00	7,847.00	146.23	135.99	-90.00	-4,088.21	3,130.10	3,130.69	2,925.95	204.74	15.291		
17,700.00	7,870.00	7,847.00	7,847.00	147.89	135.99	-90.00	-4,088.21	3,130.10	3,230.41	3,025.74	204.67	15.783		
17,800.00	7,870.00	7,847.00	7,847.00	149.56	135.99	-90.00	-4,088.21	3,130.10	3,330.15	3,125.54	204.60	16.276		
17,900.00	7,870.00	7,847.00	7,847.00	151.22	135.99	-90.00	-4,088.21	3,130.10	3,429.90	3,225.35	204.54	16.769		
18,000.00	7,870.00	7,847.00	7,847.00	152.89	135.99	-90.00	-4,088.21	3,130.10	3,529.66	3,325.17	204.49	17.261		
18,100.00	7,870.00	7,847.00	7,847.00	154.55	135.99	-90.00	-4,088.21	3,130.10	3,629.44	3,425.00	204.44	17.753		
18,200.00	7,870.00	7,847.00	7,847.00	156.22	135.99	-90.00	-4,088.21	3,130.10	3,729.23	3,524.84	204.39	18.245		
18,300.00	7,870.00	7,847.00	7,847.00	157.90	135.99	-90.00	-4,088.21	3,130.10	3,829.03	3,624.68	204.35	18.737		
18,400.00	7,870.00	7,847.00	7,847.00	159.57	135.99	-90.00	-4,088.21	3,130.10	3,928.84	3,724.53	204.32	19.229		
18,500.00	7,870.00	7,847.00	7,847.00	161.25	135.99	-90.00	-4,088.21	3,130.10	4,028.66	3,824.38	204.28	19.721		
18,600.00	7,870.00	7,847.00	7,847.00	162.93	135.99	-90.00	-4,088.21	3,130.10	4,128.49	3,924.24	204.25	20.212		
18,700.00	7,870.00	7,847.00	7,847.00	164.60	135.99	-90.00	-4,088.21	3,130.10	4,228.33	4,024.10	204.23	20.704		
18,797.52	7,870.00	7,847.00	7,847.00	166.24	135.99	-90.00	-4,088.21	3,130.10	4,325.69	4,121.49	204.21	21.183		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	145.54	-7,866.58	5,399.32	9,541.30					
100.00	100.00	74.00	74.00	0.13	0.57	145.54	-7,866.58	5,399.32	9,541.27	9,540.56	0.70	N/A		
200.00	200.00	174.00	174.00	0.49	2.06	145.54	-7,866.58	5,399.32	9,541.27	9,538.71	2.55	3,738.172		
300.00	300.00	274.00	274.00	0.85	3.80	145.54	-7,866.58	5,399.32	9,541.27	9,536.61	4.66	2,049.158		
400.00	400.00	374.00	374.00	1.21	5.55	145.54	-7,866.58	5,399.32	9,541.27	9,534.51	6.76	1,411.432		
500.00	500.00	474.00	474.00	1.57	7.30	145.54	-7,866.58	5,399.32	9,541.27	9,532.40	8.86	1,076.432		
600.00	600.00	574.00	574.00	1.93	9.04	145.54	-7,866.58	5,399.32	9,541.27	9,530.30	10.97	869.951		
700.00	700.00	674.00	674.00	2.29	10.79	145.54	-7,866.58	5,399.32	9,541.27	9,528.19	13.07	729.935		
800.00	800.00	774.00	774.00	2.64	12.53	145.54	-7,866.58	5,399.32	9,541.27	9,526.09	15.18	628.741		
900.00	900.00	874.00	874.00	3.00	14.28	145.54	-7,866.58	5,399.32	9,541.27	9,523.99	17.28	552.189		
1,000.00	1,000.00	974.00	974.00	3.36	16.02	145.54	-7,866.58	5,399.32	9,541.27	9,521.88	19.38	492.254		
1,100.00	1,099.98	1,073.98	1,073.98	3.72	17.77	90.92	-7,866.58	5,399.32	9,541.29	9,519.81	21.48	444.139		
1,200.00	1,199.84	1,173.84	1,173.84	4.07	19.51	90.95	-7,866.58	5,399.32	9,541.38	9,517.80	23.58	404.657		
1,300.00	1,299.45	1,273.45	1,273.45	4.43	21.25	91.00	-7,866.58	5,399.32	9,541.53	9,515.85	25.68	371.615		
1,400.00	1,398.70	1,372.70	1,372.70	4.80	22.98	91.07	-7,866.58	5,399.32	9,541.75	9,513.98	27.78	343.537		
1,500.00	1,497.47	1,471.47	1,471.47	5.18	24.70	91.16	-7,866.58	5,399.32	9,542.06	9,512.18	29.88	319.354		
1,600.00	1,595.62	1,569.62	1,569.62	5.57	26.42	91.26	-7,866.58	5,399.32	9,542.47	9,510.48	31.99	298.282		
1,700.00	1,693.06	1,667.06	1,667.06	6.00	28.12	91.38	-7,866.58	5,399.32	9,543.00	9,508.89	34.12	279.728		
1,800.00	1,789.64	1,763.64	1,763.64	6.45	29.80	91.52	-7,866.58	5,399.32	9,543.68	9,507.43	36.25	263.242		
1,900.00	1,885.27	1,859.27	1,859.27	6.94	31.47	91.67	-7,866.58	5,399.32	9,544.53	9,506.12	38.41	248.476		
2,000.00	1,979.82	1,953.82	1,953.82	7.47	33.12	91.83	-7,866.58	5,399.32	9,545.59	9,504.99	40.59	235.157		
2,100.00	2,073.17	2,047.17	2,047.17	8.05	34.75	92.01	-7,866.58	5,399.32	9,546.87	9,504.08	42.80	223.070		
2,200.00	2,165.21	2,139.21	2,139.21	8.67	36.36	92.19	-7,866.58	5,399.32	9,548.43	9,503.40	45.03	212.043		
2,300.00	2,255.84	2,229.84	2,229.84	9.35	37.94	92.39	-7,866.58	5,399.32	9,550.29	9,503.00	47.29	201.937		
2,400.00	2,344.94	2,318.94	2,318.94	10.09	39.50	92.58	-7,866.58	5,399.32	9,552.50	9,502.92	49.59	192.639		
2,500.00	2,432.39	2,406.39	2,406.39	10.89	41.02	92.79	-7,866.58	5,399.32	9,555.10	9,503.19	51.91	184.056		
2,519.29	2,449.07	2,423.07	2,423.07	11.05	41.31	92.83	-7,866.58	5,399.32	9,555.65	9,503.28	52.37	182.477		
2,600.00	2,518.69	2,507.31	2,492.69	11.74	42.78	93.04	-7,866.58	5,399.32	9,558.07	9,503.54	54.53	175.297		
2,700.00	2,604.95	2,578.95	2,578.95	12.62	44.03	93.30	-7,866.58	5,399.32	9,561.31	9,504.66	56.65	168.780		
2,800.00	2,691.22	2,665.22	2,665.22	13.52	45.54	93.56	-7,866.58	5,399.32	9,564.81	9,505.76	59.05	161.986		
2,900.00	2,777.48	2,751.48	2,751.48	14.43	47.05	93.82	-7,866.58	5,399.32	9,568.58	9,507.12	61.46	155.689		
3,000.00	2,863.75	2,837.75	2,837.75	15.35	48.55	94.08	-7,866.58	5,399.32	9,572.62	9,508.73	63.88	149.846		
3,100.00	2,950.01	2,924.01	2,924.01	16.28	50.06	94.34	-7,866.58	5,399.32	9,576.92	9,510.60	66.32	144.412		
3,200.00	3,036.27	3,010.27	3,010.27	17.22	51.56	94.60	-7,866.58	5,399.32	9,581.49	9,512.73	68.76	139.352		
3,300.00	3,122.54	3,103.46	3,096.54	18.17	53.19	94.86	-7,866.58	5,399.32	9,586.32	9,514.99	71.33	134.402		
3,400.00	3,208.80	3,182.80	3,182.80	19.13	54.57	95.12	-7,866.58	5,399.32	9,591.41	9,517.76	73.66	130.217		
3,500.00	3,295.07	3,269.07	3,269.07	20.09	56.08	95.38	-7,866.58	5,399.32	9,596.77	9,520.66	76.11	126.084		
3,600.00	3,381.33	3,355.33	3,355.33	21.05	57.58	95.64	-7,866.58	5,399.32	9,602.40	9,523.82	78.57	122.208		
3,700.00	3,467.59	3,441.59	3,441.59	22.02	59.09	95.90	-7,866.58	5,399.32	9,608.28	9,527.24	81.04	118.567		
3,800.00	3,553.86	3,527.86	3,527.86	22.99	60.60	96.16	-7,866.58	5,399.32	9,614.43	9,530.93	83.50	115.140		
3,900.00	3,640.12	3,614.12	3,614.12	23.97	62.10	96.42	-7,866.58	5,399.32	9,620.84	9,534.87	85.97	111.911		
4,000.00	3,726.38	3,700.38	3,700.38	24.95	63.61	96.68	-7,866.58	5,399.32	9,627.51	9,539.08	88.44	108.863		
4,100.00	3,812.65	3,786.65	3,786.65	25.93	65.11	96.94	-7,866.58	5,399.32	9,634.45	9,543.54	90.91	105.983		
4,200.00	3,898.91	3,872.91	3,872.91	26.91	66.62	97.19	-7,866.58	5,399.32	9,641.64	9,548.26	93.38	103.257		
4,300.00	3,985.18	3,959.18	3,959.18	27.90	68.12	97.45	-7,866.58	5,399.32	9,649.09	9,553.25	95.85	100.674		
4,400.00	4,071.44	4,045.44	4,045.44	28.88	69.63	97.71	-7,866.58	5,399.32	9,656.81	9,558.49	98.31	98.223		
4,500.00	4,157.70	4,131.70	4,131.70	29.87	71.13	97.97	-7,866.58	5,399.32	9,664.78	9,563.99	100.78	95.895		
4,600.00	4,243.97	4,217.97	4,217.97	30.86	72.64	98.22	-7,866.58	5,399.32	9,673.01	9,569.75	103.25	93.682		
4,700.00	4,330.23	4,304.23	4,304.23	31.85	74.15	98.48	-7,866.58	5,399.32	9,681.49	9,575.77	105.72	91.574		
4,800.00	4,416.49	4,409.51	4,390.49	32.84	75.98	98.74	-7,866.58	5,399.32	9,690.23	9,581.71	108.52	89.292		
4,900.00	4,502.76	4,476.76	4,476.76	33.84	77.16	98.99	-7,866.58	5,399.32	9,699.23	9,588.58	110.66	87.651		
5,000.00	4,589.02	4,563.02	4,563.02	34.83	78.66	99.25	-7,866.58	5,399.32	9,708.49	9,595.36	113.12	85.822		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,675.29	4,649.29	4,649.29	35.82	80.17	99.50	-7,866.58	5,399.32	9,718.00	9,602.41	115.59	84.074		
5,200.00	4,761.55	4,735.55	4,735.55	36.82	81.67	99.76	-7,866.58	5,399.32	9,727.76	9,609.71	118.05	82.402		
5,300.00	4,847.81	4,821.81	4,821.81	37.82	83.18	100.01	-7,866.58	5,399.32	9,737.77	9,617.26	120.51	80.802		
5,400.00	4,934.08	4,908.08	4,908.08	38.81	84.68	100.27	-7,866.58	5,399.32	9,748.04	9,625.06	122.98	79.268		
5,500.00	5,020.34	5,005.66	4,994.34	39.81	86.39	100.52	-7,866.58	5,399.32	9,758.56	9,632.93	125.63	77.676		
5,600.00	5,106.60	5,080.60	5,080.60	40.81	87.70	100.77	-7,866.58	5,399.32	9,769.33	9,641.44	127.89	76.388		
5,700.00	5,192.87	5,166.87	5,166.87	41.81	89.20	101.02	-7,866.58	5,399.32	9,780.35	9,650.00	130.35	75.033		
5,800.00	5,279.13	5,253.13	5,253.13	42.81	90.71	101.28	-7,866.58	5,399.32	9,791.61	9,658.81	132.80	73.732		
5,900.00	5,365.40	5,339.40	5,339.40	43.81	92.21	101.53	-7,866.58	5,399.32	9,803.13	9,667.88	135.25	72.480		
6,000.00	5,451.66	5,425.66	5,425.66	44.81	93.72	101.78	-7,866.58	5,399.32	9,814.89	9,677.19	137.70	71.276		
6,100.00	5,537.92	5,511.92	5,511.92	45.81	95.22	102.03	-7,866.58	5,399.32	9,826.90	9,686.75	140.15	70.117		
6,200.00	5,624.19	5,601.81	5,598.19	46.81	96.79	102.28	-7,866.58	5,399.32	9,839.16	9,696.50	142.66	68.970		
6,300.00	5,710.45	5,684.45	5,684.45	47.81	98.24	102.53	-7,866.58	5,399.32	9,851.66	9,706.62	145.04	67.925		
6,400.00	5,796.72	5,770.72	5,770.72	48.81	99.74	102.78	-7,866.58	5,399.32	9,864.40	9,716.92	147.48	66.887		
6,500.00	5,882.98	5,856.98	5,856.98	49.81	101.25	103.03	-7,866.58	5,399.32	9,877.38	9,727.47	149.92	65.886		
6,600.00	5,969.24	5,943.24	5,943.24	50.82	102.75	103.28	-7,866.58	5,399.32	9,890.61	9,738.26	152.35	64.919		
6,700.00	6,055.51	6,029.51	6,029.51	51.82	104.26	103.53	-7,866.58	5,399.32	9,904.08	9,749.29	154.79	63.985		
6,800.00	6,141.77	6,115.77	6,115.77	52.82	105.76	103.77	-7,866.58	5,399.32	9,917.79	9,760.57	157.22	63.083		
6,900.00	6,228.03	6,202.03	6,202.03	53.83	107.27	104.02	-7,866.58	5,399.32	9,931.73	9,772.09	159.65	62.211		
7,000.00	6,314.30	6,288.30	6,288.30	54.83	108.77	104.27	-7,866.58	5,399.32	9,945.92	9,783.85	162.07	61.367		
7,100.00	6,400.56	6,374.56	6,374.56	55.83	110.28	104.51	-7,866.58	5,399.32	9,960.34	9,795.84	164.49	60.551		
7,200.00	6,486.83	6,460.83	6,460.83	56.84	111.79	104.76	-7,866.58	5,399.32	9,974.99	9,808.08	166.92	59.761		
7,300.00	6,573.09	6,547.09	6,547.09	57.84	113.29	105.00	-7,866.58	5,399.32	9,989.88	9,820.55	169.33	58.996		
8,550.00	7,650.47	7,624.47	7,624.47	68.05	132.09	21.47	-7,866.58	5,399.32	9,970.75	9,772.73	198.01	50.354		
8,600.00	7,686.20	7,660.20	7,660.20	68.06	132.72	16.89	-7,866.58	5,399.32	9,936.82	9,738.05	198.77	49.993		
8,650.00	7,719.39	7,706.61	7,693.39	68.03	133.53	12.47	-7,866.58	5,399.32	9,900.00	9,700.33	199.67	49.582		
8,700.00	7,749.79	7,723.79	7,723.79	67.97	133.83	7.95	-7,866.58	5,399.32	9,860.56	9,660.53	200.03	49.295		
8,750.00	7,777.17	7,751.17	7,751.17	67.87	134.31	3.01	-7,866.58	5,399.32	9,818.80	9,618.26	200.54	48.961		
8,800.00	7,801.32	7,775.32	7,775.32	67.74	134.73	-2.79	-7,866.58	5,399.32	9,775.04	9,574.07	200.96	48.641		
8,850.00	7,822.06	7,803.94	7,796.06	67.59	135.23	-10.11	-7,866.58	5,399.32	9,729.61	9,528.17	201.44	48.301		
8,900.00	7,839.23	7,813.23	7,813.23	67.41	135.39	-19.90	-7,866.58	5,399.32	9,682.85	9,481.30	201.55	48.042		
8,950.00	7,852.69	7,826.69	7,826.69	67.22	135.62	-33.45	-7,866.58	5,399.32	9,635.13	9,433.42	201.71	47.767		
9,000.00	7,862.35	7,836.35	7,836.35	67.00	135.79	-51.45	-7,866.58	5,399.32	9,586.81	9,385.02	201.78	47.510		
9,050.00	7,868.14	7,842.14	7,842.14	66.78	135.89	-71.96	-7,866.58	5,399.32	9,538.27	9,336.49	201.77	47.272		
9,098.65	7,870.00	7,844.00	7,844.00	66.55	135.93	-90.00	-7,866.58	5,399.32	9,491.18	9,289.50	201.68	47.060		
9,100.00	7,870.00	7,844.00	7,844.00	66.55	135.93	-90.00	-7,866.58	5,399.32	9,489.87	9,288.20	201.68	47.055		
9,200.00	7,870.00	7,844.00	7,844.00	66.09	135.93	-90.00	-7,866.58	5,399.32	9,393.50	9,192.09	201.41	46.639		
9,300.00	7,870.00	7,844.00	7,844.00	65.65	135.93	-90.00	-7,866.58	5,399.32	9,297.21	9,096.07	201.13	46.224		
9,400.00	7,870.00	7,844.00	7,844.00	65.24	135.93	-90.00	-7,866.58	5,399.32	9,200.99	9,000.13	200.86	45.809		
9,500.00	7,870.00	7,844.00	7,844.00	64.85	135.93	-90.00	-7,866.58	5,399.32	9,104.86	8,904.28	200.58	45.393		
9,600.00	7,870.00	7,844.00	7,844.00	64.48	135.93	-90.00	-7,866.58	5,399.32	9,008.81	8,808.51	200.29	44.978		
9,700.00	7,870.00	7,844.00	7,844.00	64.13	135.93	-90.00	-7,866.58	5,399.32	8,912.84	8,712.84	200.01	44.563		
9,800.00	7,870.00	7,844.00	7,844.00	63.80	135.93	-90.00	-7,866.58	5,399.32	8,816.97	8,617.25	199.72	44.147		
9,900.00	7,870.00	7,844.00	7,844.00	63.50	135.93	-90.00	-7,866.58	5,399.32	8,721.19	8,521.77	199.42	43.732		
10,000.00	7,870.00	7,844.00	7,844.00	63.22	135.93	-90.00	-7,866.58	5,399.32	8,625.51	8,426.38	199.13	43.316		
10,100.00	7,870.00	7,844.00	7,844.00	62.96	135.93	-90.00	-7,866.58	5,399.32	8,529.92	8,331.09	198.83	42.901		
10,200.00	7,870.00	7,844.00	7,844.00	62.72	135.93	-90.00	-7,866.58	5,399.32	8,434.44	8,235.91	198.53	42.485		
10,300.00	7,870.00	7,844.00	7,844.00	62.50	135.93	-90.00	-7,866.58	5,399.32	8,339.06	8,140.84	198.22	42.069		
10,400.00	7,870.00	7,844.00	7,844.00	62.31	135.93	-90.00	-7,866.58	5,399.32	8,243.79	8,045.88	197.91	41.653		
10,500.00	7,870.00	7,844.00	7,844.00	62.15	135.93	-90.00	-7,866.58	5,399.32	8,148.64	7,951.03	197.60	41.237		
10,600.00	7,870.00	7,844.00	7,844.00	62.01	135.93	-90.00	-7,866.58	5,399.32	8,053.60	7,856.31	197.29	40.821		
10,700.00	7,870.00	7,844.00	7,844.00	61.90	135.93	-90.00	-7,866.58	5,399.32	7,958.68	7,761.71	196.97	40.405		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
10,800.00	7,870.00	7,844.00	7,844.00	61.82	135.93	-90.00	-7,866.58	5,399.32	7,863.89	7,667.24	196.66	39.988		
10,900.00	7,870.00	7,844.00	7,844.00	61.78	135.93	-90.00	-7,866.58	5,399.32	7,769.23	7,572.90	196.34	39.571		
11,000.00	7,870.00	7,844.00	7,844.00	61.77	135.93	-90.00	-7,866.58	5,399.32	7,674.71	7,478.70	196.01	39.154		
11,100.00	7,870.00	7,844.00	7,844.00	61.81	135.93	-90.00	-7,866.58	5,399.32	7,580.33	7,384.64	195.69	38.736		
11,200.00	7,870.00	7,844.00	7,844.00	61.90	135.93	-90.00	-7,866.58	5,399.32	7,486.09	7,290.72	195.37	38.318		
11,300.00	7,870.00	7,844.00	7,844.00	62.03	135.93	-90.00	-7,866.58	5,399.32	7,392.00	7,196.96	195.04	37.900		
11,400.00	7,870.00	7,844.00	7,844.00	62.23	135.93	-90.00	-7,866.58	5,399.32	7,298.08	7,103.36	194.71	37.481		
11,500.00	7,870.00	7,844.00	7,844.00	62.50	135.93	-90.00	-7,866.58	5,399.32	7,204.31	7,009.92	194.39	37.062		
11,600.00	7,870.00	7,844.00	7,844.00	62.84	135.93	-90.00	-7,866.58	5,399.32	7,110.72	6,916.65	194.06	36.642		
11,700.00	7,870.00	7,844.00	7,844.00	63.25	135.93	-90.00	-7,866.58	5,399.32	7,017.30	6,823.56	193.74	36.221		
11,800.00	7,870.00	7,844.00	7,844.00	63.76	135.93	-90.00	-7,866.58	5,399.32	6,924.06	6,730.65	193.41	35.799		
11,900.00	7,870.00	7,844.00	7,844.00	64.34	135.93	-90.00	-7,866.58	5,399.32	6,831.02	6,637.93	193.09	35.377		
12,000.00	7,870.00	7,844.00	7,844.00	65.01	135.93	-90.00	-7,866.58	5,399.32	6,738.18	6,545.40	192.77	34.954		
12,100.00	7,870.00	7,844.00	7,844.00	65.77	135.93	-90.00	-7,866.58	5,399.32	6,645.54	6,453.08	192.46	34.530		
12,200.00	7,870.00	7,844.00	7,844.00	66.61	135.93	-90.00	-7,866.58	5,399.32	6,553.12	6,360.97	192.15	34.104		
12,300.00	7,870.00	7,844.00	7,844.00	67.51	135.93	-90.00	-7,866.58	5,399.32	6,460.93	6,269.08	191.85	33.678		
12,400.00	7,870.00	7,844.00	7,844.00	68.49	135.93	-90.00	-7,866.58	5,399.32	6,368.97	6,177.42	191.55	33.250		
12,500.00	7,870.00	7,844.00	7,844.00	69.52	135.93	-90.00	-7,866.58	5,399.32	6,277.26	6,085.99	191.26	32.820		
12,600.00	7,870.00	7,844.00	7,844.00	70.61	135.93	-90.00	-7,866.58	5,399.32	6,185.80	5,994.82	190.98	32.389		
12,700.00	7,870.00	7,844.00	7,844.00	71.75	135.93	-90.00	-7,866.58	5,399.32	6,094.61	5,903.90	190.72	31.956		
12,800.00	7,870.00	7,844.00	7,844.00	72.93	135.93	-90.00	-7,866.58	5,399.32	6,003.71	5,813.24	190.47	31.521		
12,900.00	7,870.00	7,844.00	7,844.00	74.14	135.93	-90.00	-7,866.58	5,399.32	5,913.09	5,722.87	190.23	31.084		
13,000.00	7,870.00	7,844.00	7,844.00	75.39	135.93	-90.00	-7,866.58	5,399.32	5,822.79	5,632.78	190.01	30.645		
13,100.00	7,870.00	7,844.00	7,844.00	76.67	135.93	-90.00	-7,866.58	5,399.32	5,732.80	5,543.00	189.81	30.203		
13,200.00	7,870.00	7,844.00	7,844.00	77.98	135.93	-90.00	-7,866.58	5,399.32	5,643.16	5,453.53	189.63	29.758		
13,300.00	7,870.00	7,844.00	7,844.00	79.31	135.93	-90.00	-7,866.58	5,399.32	5,553.86	5,364.38	189.48	29.311		
13,400.00	7,870.00	7,844.00	7,844.00	80.67	135.93	-90.00	-7,866.58	5,399.32	5,464.94	5,275.58	189.36	28.860		
13,500.00	7,870.00	7,844.00	7,844.00	82.04	135.93	-90.00	-7,866.58	5,399.32	5,376.41	5,187.14	189.27	28.406		
13,600.00	7,870.00	7,844.00	7,844.00	83.43	135.93	-90.00	-7,866.58	5,399.32	5,288.29	5,099.07	189.21	27.949		
13,700.00	7,870.00	7,844.00	7,844.00	84.84	135.93	-90.00	-7,866.58	5,399.32	5,200.59	5,011.39	189.20	27.487		
13,800.00	7,870.00	7,844.00	7,844.00	86.27	135.93	-90.00	-7,866.58	5,399.32	5,113.35	4,924.12	189.23	27.022		
13,900.00	7,870.00	7,844.00	7,844.00	87.71	135.93	-90.00	-7,866.58	5,399.32	5,026.58	4,837.27	189.31	26.553		
14,000.00	7,870.00	7,844.00	7,844.00	89.16	135.93	-90.00	-7,866.58	5,399.32	4,940.31	4,750.88	189.44	26.079		
14,100.00	7,870.00	7,844.00	7,844.00	90.63	135.93	-90.00	-7,866.58	5,399.32	4,854.57	4,664.95	189.63	25.600		
14,200.00	7,870.00	7,844.00	7,844.00	92.10	135.93	-90.00	-7,866.58	5,399.32	4,769.39	4,579.51	189.88	25.118		
14,300.00	7,870.00	7,844.00	7,844.00	93.59	135.93	-90.00	-7,866.58	5,399.32	4,684.79	4,494.58	190.20	24.630		
14,400.00	7,870.00	7,844.00	7,844.00	95.09	135.93	-90.00	-7,866.58	5,399.32	4,600.81	4,410.21	190.60	24.138		
14,500.00	7,870.00	7,844.00	7,844.00	96.60	135.93	-90.00	-7,866.58	5,399.32	4,517.48	4,326.40	191.08	23.641		
14,600.00	7,870.00	7,844.00	7,844.00	98.11	135.93	-90.00	-7,866.58	5,399.32	4,434.84	4,243.19	191.65	23.140		
14,700.00	7,870.00	7,844.00	7,844.00	99.64	135.93	-90.00	-7,866.58	5,399.32	4,352.93	4,160.62	192.31	22.635		
14,800.00	7,870.00	7,844.00	7,844.00	101.17	135.93	-90.00	-7,866.58	5,399.32	4,271.79	4,078.72	193.07	22.126		
14,900.00	7,870.00	7,844.00	7,844.00	102.71	135.93	-90.00	-7,866.58	5,399.32	4,191.46	3,997.53	193.94	21.613		
15,000.00	7,870.00	7,844.00	7,844.00	104.26	135.93	-90.00	-7,866.58	5,399.32	4,112.00	3,917.09	194.91	21.096		
15,100.00	7,870.00	7,844.00	7,844.00	105.82	135.93	-90.00	-7,866.58	5,399.32	4,033.45	3,837.44	196.01	20.578		
15,200.00	7,870.00	7,844.00	7,844.00	107.38	135.93	-90.00	-7,866.58	5,399.32	3,955.87	3,758.64	197.23	20.057		
15,300.00	7,870.00	7,844.00	7,844.00	108.95	135.93	-90.00	-7,866.58	5,399.32	3,879.32	3,680.74	198.58	19.536		
15,400.00	7,870.00	7,844.00	7,844.00	110.52	135.93	-90.00	-7,866.58	5,399.32	3,803.85	3,603.79	200.06	19.014		
15,500.00	7,870.00	7,844.00	7,844.00	112.10	135.93	-90.00	-7,866.58	5,399.32	3,729.54	3,527.86	201.68	18.492		
15,600.00	7,870.00	7,844.00	7,844.00	113.69	135.93	-90.00	-7,866.58	5,399.32	3,656.45	3,453.01	203.45	17.973		
15,700.00	7,870.00	7,844.00	7,844.00	115.28	135.93	-90.00	-7,866.58	5,399.32	3,584.67	3,379.31	205.36	17.456		
15,800.00	7,870.00	7,844.00	7,844.00	116.87	135.93	-90.00	-7,866.58	5,399.32	3,514.26	3,306.84	207.41	16.943		
15,900.00	7,870.00	7,844.00	7,844.00	118.47	135.93	-90.00	-7,866.58	5,399.32	3,445.32	3,235.69	209.62	16.436		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
16,000.00	7,870.00	7,844.00	7,844.00	120.07	135.93	-90.00	-7,866.58	5,399.32	3,377.93	3,165.94	211.99	15.935	
16,100.00	7,870.00	7,844.00	7,844.00	121.68	135.93	-90.00	-7,866.58	5,399.32	3,312.18	3,097.68	214.50	15.441	
16,200.00	7,870.00	7,844.00	7,844.00	123.30	135.93	-90.00	-7,866.58	5,399.32	3,248.19	3,031.02	217.17	14.957	
16,300.00	7,870.00	7,844.00	7,844.00	124.91	135.93	-90.00	-7,866.58	5,399.32	3,186.05	2,966.06	219.99	14.483	
16,400.00	7,870.00	7,844.00	7,844.00	126.53	135.93	-90.00	-7,866.58	5,399.32	3,125.88	2,902.92	222.95	14.020	
16,500.00	7,870.00	7,844.00	7,844.00	128.16	135.93	-90.00	-7,866.58	5,399.32	3,067.78	2,841.72	226.06	13.571	
16,600.00	7,870.00	7,844.00	7,844.00	129.79	135.93	-90.00	-7,866.58	5,399.32	3,011.89	2,782.58	229.31	13.135	
16,700.00	7,870.00	7,844.00	7,844.00	131.42	135.93	-90.00	-7,866.58	5,399.32	2,958.32	2,725.64	232.68	12.714	
16,800.00	7,870.00	7,844.00	7,844.00	133.05	135.93	-90.00	-7,866.58	5,399.32	2,907.21	2,671.03	236.17	12.310	
16,900.00	7,870.00	7,844.00	7,844.00	134.69	135.93	-90.00	-7,866.58	5,399.32	2,858.68	2,618.91	239.77	11.922	
17,000.00	7,870.00	7,844.00	7,844.00	136.33	135.93	-90.00	-7,866.58	5,399.32	2,812.87	2,569.40	243.47	11.553	
17,100.00	7,870.00	7,844.00	7,844.00	137.97	135.93	-90.00	-7,866.58	5,399.32	2,769.91	2,522.67	247.24	11.203	
17,200.00	7,870.00	7,844.00	7,844.00	139.62	135.93	-90.00	-7,866.58	5,399.32	2,729.94	2,478.87	251.07	10.873	
17,300.00	7,870.00	7,844.00	7,844.00	141.27	135.93	-90.00	-7,866.58	5,399.32	2,693.10	2,438.15	254.95	10.563	
17,400.00	7,870.00	7,844.00	7,844.00	142.92	135.93	-90.00	-7,866.58	5,399.32	2,659.50	2,400.66	258.84	10.275	
17,500.00	7,870.00	7,844.00	7,844.00	144.58	135.93	-90.00	-7,866.58	5,399.32	2,629.29	2,366.55	262.73	10.008	
17,600.00	7,870.00	7,844.00	7,844.00	146.23	135.93	-90.00	-7,866.58	5,399.32	2,602.56	2,335.97	266.59	9.762	
17,700.00	7,870.00	7,844.00	7,844.00	147.89	135.93	-90.00	-7,866.58	5,399.32	2,579.44	2,309.04	270.40	9.539	
17,800.00	7,870.00	7,844.00	7,844.00	149.56	135.93	-90.00	-7,866.58	5,399.32	2,560.02	2,285.89	274.13	9.339	
17,900.00	7,870.00	7,844.00	7,844.00	151.22	135.93	-90.00	-7,866.58	5,399.32	2,544.38	2,266.63	277.75	9.161	
18,000.00	7,870.00	7,844.00	7,844.00	152.89	135.93	-90.00	-7,866.58	5,399.32	2,532.60	2,251.35	281.25	9.005	
18,100.00	7,870.00	7,844.00	7,844.00	154.55	135.93	-90.00	-7,866.58	5,399.32	2,524.73	2,240.14	284.59	8.872	
18,200.00	7,870.00	7,844.00	7,844.00	156.22	135.93	-90.00	-7,866.58	5,399.32	2,520.80	2,233.05	287.75	8.760	
18,249.08	7,870.00	7,844.00	7,844.00	157.05	135.93	-90.00	-7,866.58	5,399.32	2,520.32	2,231.09	289.23	8.714 CC	
18,300.00	7,870.00	7,844.00	7,844.00	157.90	135.93	-90.00	-7,866.58	5,399.32	2,520.84	2,230.12	290.72	8.671 ES	
18,400.00	7,870.00	7,844.00	7,844.00	159.57	135.93	-90.00	-7,866.58	5,399.32	2,524.84	2,231.36	293.48	8.603	
18,500.00	7,870.00	7,844.00	7,844.00	161.25	135.93	-90.00	-7,866.58	5,399.32	2,532.78	2,236.77	296.01	8.556	
18,600.00	7,870.00	7,844.00	7,844.00	162.93	135.93	-90.00	-7,866.58	5,399.32	2,544.64	2,246.32	298.32	8.530	
18,700.00	7,870.00	7,844.00	7,844.00	164.60	135.93	-90.00	-7,866.58	5,399.32	2,560.34	2,259.96	300.38	8.524 SF	
18,797.52	7,870.00	7,844.00	7,844.00	166.24	135.93	-90.00	-7,866.58	5,399.32	2,579.30	2,277.13	302.17	8.536	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	148.70	-5,431.68	3,302.51	6,356.91					
100.00	100.00	77.00	77.00	0.13	0.58	148.70	-5,431.68	3,302.51	6,356.87	6,356.15	0.72	8,840.947		
200.00	200.00	177.00	177.00	0.49	2.10	148.70	-5,431.68	3,302.51	6,356.87	6,354.27	2.60	2,448.697		
300.00	300.00	277.00	277.00	0.85	3.85	148.70	-5,431.68	3,302.51	6,356.87	6,352.17	4.70	1,352.576		
400.00	400.00	377.00	377.00	1.21	5.59	148.70	-5,431.68	3,302.51	6,356.87	6,350.07	6.80	934.336		
500.00	500.00	477.00	477.00	1.57	7.34	148.70	-5,431.68	3,302.51	6,356.87	6,347.96	8.91	713.660		
600.00	600.00	577.00	577.00	1.93	9.08	148.70	-5,431.68	3,302.51	6,356.87	6,345.86	11.01	577.308		
700.00	700.00	677.00	677.00	2.29	10.83	148.70	-5,431.68	3,302.51	6,356.87	6,343.75	13.12	484.701		
800.00	800.00	777.00	777.00	2.64	12.58	148.70	-5,431.68	3,302.51	6,356.87	6,341.65	15.22	417.698		
900.00	900.00	877.00	877.00	3.00	14.32	148.70	-5,431.68	3,302.51	6,356.87	6,339.55	17.32	366.969		
1,000.00	1,000.00	977.00	977.00	3.36	16.07	148.70	-5,431.68	3,302.51	6,356.87	6,337.44	19.43	327.228		
1,100.00	1,099.98	1,076.98	1,076.98	3.72	17.81	94.09	-5,431.68	3,302.51	6,356.99	6,335.47	21.53	295.312		
1,200.00	1,199.84	1,176.84	1,176.84	4.07	19.55	94.13	-5,431.68	3,302.51	6,357.37	6,333.75	23.62	269.121		
1,300.00	1,299.45	1,276.45	1,276.45	4.43	21.29	94.20	-5,431.68	3,302.51	6,358.00	6,332.28	25.72	247.203		
1,400.00	1,398.70	1,375.70	1,375.70	4.80	23.02	94.29	-5,431.68	3,302.51	6,358.91	6,331.09	27.82	228.580		
1,500.00	1,497.47	1,474.47	1,474.47	5.18	24.75	94.40	-5,431.68	3,302.51	6,360.11	6,330.19	29.92	212.545		
1,600.00	1,595.62	1,572.62	1,572.62	5.57	26.46	94.54	-5,431.68	3,302.51	6,361.63	6,329.59	32.04	198.578		
1,700.00	1,693.06	1,670.06	1,670.06	6.00	28.16	94.70	-5,431.68	3,302.51	6,363.49	6,329.33	34.16	186.286		
1,800.00	1,789.64	1,766.64	1,766.64	6.45	29.85	94.88	-5,431.68	3,302.51	6,365.72	6,329.43	36.30	175.370		
1,900.00	1,885.27	1,862.27	1,862.27	6.94	31.52	95.08	-5,431.68	3,302.51	6,368.38	6,329.92	38.46	165.601		
2,000.00	1,979.82	1,956.82	1,956.82	7.47	33.17	95.29	-5,431.68	3,302.51	6,371.49	6,330.85	40.64	156.797		
2,100.00	2,073.17	2,050.17	2,050.17	8.05	34.80	95.52	-5,431.68	3,302.51	6,375.10	6,332.26	42.84	148.815		
2,200.00	2,165.21	2,142.21	2,142.21	8.67	36.40	95.76	-5,431.68	3,302.51	6,379.27	6,334.20	45.07	141.542		
2,300.00	2,255.84	2,232.84	2,232.84	9.35	37.98	96.00	-5,431.68	3,302.51	6,384.04	6,336.72	47.33	134.885		
2,400.00	2,344.94	2,321.94	2,321.94	10.09	39.54	96.26	-5,431.68	3,302.51	6,389.48	6,339.86	49.62	128.770		
2,500.00	2,432.39	2,409.39	2,409.39	10.89	41.07	96.51	-5,431.68	3,302.51	6,395.64	6,343.70	51.94	123.136		
2,519.29	2,449.07	2,426.07	2,426.07	11.05	41.36	96.56	-5,431.68	3,302.51	6,396.91	6,344.52	52.39	122.101		
2,600.00	2,518.69	2,504.31	2,495.69	11.74	42.72	96.88	-5,431.68	3,302.51	6,402.44	6,348.00	54.44	117.610		
2,700.00	2,604.95	2,581.95	2,581.95	12.62	44.08	97.27	-5,431.68	3,302.51	6,409.64	6,352.98	56.66	113.129		
2,800.00	2,691.22	2,668.22	2,668.22	13.52	45.58	97.65	-5,431.68	3,302.51	6,417.23	6,358.18	59.04	108.685		
2,900.00	2,777.48	2,754.48	2,754.48	14.43	47.09	98.04	-5,431.68	3,302.51	6,425.21	6,363.76	61.44	104.570		
3,000.00	2,863.75	2,840.75	2,840.75	15.35	48.59	98.43	-5,431.68	3,302.51	6,433.57	6,369.72	63.85	100.755		
3,100.00	2,950.01	2,927.01	2,927.01	16.28	50.10	98.81	-5,431.68	3,302.51	6,442.33	6,376.05	66.27	97.212		
3,200.00	3,036.27	3,013.27	3,013.27	17.22	51.61	99.20	-5,431.68	3,302.51	6,451.46	6,382.77	68.69	93.915		
3,300.00	3,122.54	3,100.46	3,099.54	18.17	53.13	99.58	-5,431.68	3,302.51	6,460.99	6,389.85	71.14	90.822		
3,400.00	3,208.80	3,185.80	3,185.80	19.13	54.62	99.96	-5,431.68	3,302.51	6,470.89	6,397.33	73.55	87.974		
3,500.00	3,295.07	3,272.07	3,272.07	20.09	56.12	100.34	-5,431.68	3,302.51	6,481.17	6,405.18	75.99	85.292		
3,600.00	3,381.33	3,358.33	3,358.33	21.05	57.63	100.73	-5,431.68	3,302.51	6,491.83	6,413.41	78.42	82.780		
3,700.00	3,467.59	3,444.59	3,444.59	22.02	59.13	101.11	-5,431.68	3,302.51	6,502.87	6,422.01	80.86	80.422		
3,800.00	3,553.86	3,530.86	3,530.86	22.99	60.64	101.49	-5,431.68	3,302.51	6,514.28	6,430.98	83.30	78.207		
3,900.00	3,640.12	3,617.12	3,617.12	23.97	62.14	101.86	-5,431.68	3,302.51	6,526.06	6,440.33	85.73	76.123		
4,000.00	3,726.38	3,703.38	3,703.38	24.95	63.65	102.24	-5,431.68	3,302.51	6,538.21	6,450.05	88.17	74.158		
4,100.00	3,812.65	3,789.65	3,789.65	25.93	65.16	102.62	-5,431.68	3,302.51	6,550.73	6,460.13	90.60	72.304		
4,200.00	3,898.91	3,875.91	3,875.91	26.91	66.66	102.99	-5,431.68	3,302.51	6,563.62	6,470.59	93.03	70.553		
4,300.00	3,985.18	3,962.18	3,962.18	27.90	68.17	103.37	-5,431.68	3,302.51	6,576.87	6,481.41	95.46	68.895		
4,400.00	4,071.44	4,048.44	4,048.44	28.88	69.67	103.74	-5,431.68	3,302.51	6,590.48	6,492.59	97.89	67.326		
4,500.00	4,157.70	4,134.70	4,134.70	29.87	71.18	104.11	-5,431.68	3,302.51	6,604.45	6,504.14	100.32	65.837		
4,600.00	4,243.97	4,220.97	4,220.97	30.86	72.68	104.48	-5,431.68	3,302.51	6,618.78	6,516.04	102.74	64.424		
4,700.00	4,330.23	4,307.23	4,307.23	31.85	74.19	104.85	-5,431.68	3,302.51	6,633.46	6,528.30	105.16	63.081		
4,800.00	4,416.49	4,406.51	4,393.49	32.84	75.92	105.22	-5,431.68	3,302.51	6,648.50	6,540.70	107.80	61.673		
4,900.00	4,502.76	4,479.76	4,479.76	33.84	77.20	105.58	-5,431.68	3,302.51	6,663.88	6,553.89	109.99	60.587		
5,000.00	4,589.02	4,566.02	4,566.02	34.83	78.71	105.95	-5,431.68	3,302.51	6,679.62	6,567.22	112.40	59.428		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,100.00	4,675.29	4,652.29	4,652.29	35.82	80.21	106.31	-5,431.68	3,302.51	6,695.69	6,580.89	114.80	58.322		
5,200.00	4,761.55	4,738.55	4,738.55	36.82	81.72	106.67	-5,431.68	3,302.51	6,712.11	6,594.91	117.21	57.267		
5,300.00	4,847.81	4,824.81	4,824.81	37.82	83.22	107.04	-5,431.68	3,302.51	6,728.88	6,609.27	119.61	56.258		
5,400.00	4,934.08	4,911.08	4,911.08	38.81	84.73	107.40	-5,431.68	3,302.51	6,745.97	6,623.97	122.00	55.294		
5,500.00	5,020.34	5,002.66	4,997.34	39.81	86.33	107.75	-5,431.68	3,302.51	6,763.41	6,638.92	124.49	54.331		
5,600.00	5,106.60	5,083.60	5,083.60	40.81	87.74	108.11	-5,431.68	3,302.51	6,781.17	6,654.39	126.78	53.488		
5,700.00	5,192.87	5,169.87	5,169.87	41.81	89.25	108.47	-5,431.68	3,302.51	6,799.27	6,670.11	129.16	52.641		
5,800.00	5,279.13	5,256.13	5,256.13	42.81	90.75	108.82	-5,431.68	3,302.51	6,817.69	6,686.15	131.54	51.830		
5,900.00	5,365.40	5,342.40	5,342.40	43.81	92.26	109.17	-5,431.68	3,302.51	6,836.44	6,702.53	133.91	51.051		
6,000.00	5,451.66	5,428.66	5,428.66	44.81	93.76	109.52	-5,431.68	3,302.51	6,855.51	6,719.23	136.28	50.303		
6,100.00	5,537.92	5,514.92	5,514.92	45.81	95.27	109.87	-5,431.68	3,302.51	6,874.90	6,736.25	138.65	49.585		
6,200.00	5,624.19	5,601.19	5,601.19	46.81	96.77	110.22	-5,431.68	3,302.51	6,894.61	6,753.60	141.01	48.895		
6,300.00	5,710.45	5,687.45	5,687.45	47.81	98.28	110.57	-5,431.68	3,302.51	6,914.63	6,771.26	143.37	48.231		
6,400.00	5,796.72	5,773.72	5,773.72	48.81	99.78	110.91	-5,431.68	3,302.51	6,934.96	6,789.24	145.72	47.592		
6,500.00	5,882.98	5,859.98	5,859.98	49.81	101.29	111.26	-5,431.68	3,302.51	6,955.60	6,807.53	148.06	46.977		
6,600.00	5,969.24	5,946.24	5,946.24	50.82	102.80	111.60	-5,431.68	3,302.51	6,976.54	6,826.14	150.40	46.385		
6,700.00	6,055.51	6,032.51	6,032.51	51.82	104.30	111.94	-5,431.68	3,302.51	6,997.79	6,845.05	152.74	45.815		
6,800.00	6,141.77	6,118.77	6,118.77	52.82	105.81	112.28	-5,431.68	3,302.51	7,019.34	6,864.26	155.07	45.265		
6,900.00	6,228.03	6,205.03	6,205.03	53.83	107.31	112.61	-5,431.68	3,302.51	7,041.18	6,883.78	157.40	44.734		
7,000.00	6,314.30	6,308.70	6,291.30	54.83	109.12	112.95	-5,431.68	3,302.51	7,063.32	6,903.30	160.03	44.138		
7,100.00	6,400.56	6,377.56	6,377.56	55.83	110.32	113.28	-5,431.68	3,302.51	7,085.75	6,923.71	162.04	43.728		
7,200.00	6,486.83	6,463.83	6,463.83	56.84	111.83	113.61	-5,431.68	3,302.51	7,108.48	6,944.12	164.35	43.251		
7,300.00	6,573.09	6,550.09	6,550.09	57.84	113.33	113.94	-5,431.68	3,302.51	7,131.48	6,964.82	166.66	42.790		
7,400.00	6,659.35	6,636.35	6,636.35	58.84	114.84	114.27	-5,431.68	3,302.51	7,154.77	6,985.81	168.96	42.345		
7,500.00	6,745.62	6,722.62	6,722.62	59.85	116.35	114.60	-5,431.68	3,302.51	7,178.35	7,007.08	171.26	41.914		
7,600.00	6,831.88	6,808.88	6,808.88	60.85	117.85	114.92	-5,431.68	3,302.51	7,202.20	7,028.64	173.56	41.498		
7,700.00	6,918.14	6,904.86	6,895.14	61.86	119.53	115.25	-5,431.68	3,302.51	7,226.32	7,050.31	176.01	41.056		
7,800.00	7,004.41	6,981.41	6,981.41	62.86	120.86	115.57	-5,431.68	3,302.51	7,250.72	7,072.59	178.13	40.705		
7,900.00	7,090.67	7,067.67	7,067.67	63.87	122.37	115.89	-5,431.68	3,302.51	7,275.39	7,094.98	180.41	40.328		
8,000.00	7,176.94	7,153.94	7,153.94	64.87	123.87	116.21	-5,431.68	3,302.51	7,300.32	7,117.64	182.68	39.962		
8,027.52	7,200.68	7,177.68	7,177.68	65.15	124.29	116.29	-5,431.68	3,302.51	7,307.23	7,123.93	183.30	39.864		
8,050.00	7,220.18	7,202.82	7,197.18	65.37	124.73	113.02	-5,431.68	3,302.51	7,312.46	7,128.55	183.91	39.760		
8,100.00	7,264.25	7,241.25	7,241.25	65.85	125.40	104.74	-5,431.68	3,302.51	7,321.06	7,136.10	184.97	39.581		
8,150.00	7,308.99	7,285.99	7,285.99	66.28	126.18	95.25	-5,431.68	3,302.51	7,325.42	7,139.30	186.12	39.358		
8,200.00	7,354.07	7,331.07	7,331.07	66.67	126.97	85.04	-5,431.68	3,302.51	7,325.50	7,138.23	187.27	39.117		
8,250.00	7,399.14	7,376.14	7,376.14	67.02	127.75	74.81	-5,431.68	3,302.51	7,321.30	7,132.89	188.41	38.859		
8,300.00	7,443.85	7,420.85	7,420.85	67.32	128.53	65.27	-5,431.68	3,302.51	7,312.85	7,123.33	189.52	38.587		
8,350.00	7,487.88	7,464.88	7,464.88	67.56	129.30	56.87	-5,431.68	3,302.51	7,300.21	7,109.62	190.59	38.303		
8,400.00	7,530.87	7,507.87	7,507.87	67.75	130.05	49.76	-5,431.68	3,302.51	7,283.46	7,091.84	191.62	38.009		
8,450.00	7,572.51	7,549.51	7,549.51	67.90	130.78	43.86	-5,431.68	3,302.51	7,262.74	7,070.13	192.60	37.708		
8,500.00	7,612.48	7,589.48	7,589.48	68.00	131.48	39.00	-5,431.68	3,302.51	7,238.18	7,044.65	193.53	37.401		
8,550.00	7,650.47	7,627.47	7,627.47	68.05	132.14	34.98	-5,431.68	3,302.51	7,209.97	7,015.57	194.39	37.089		
8,600.00	7,686.20	7,663.20	7,663.20	68.06	132.76	31.63	-5,431.68	3,302.51	7,178.31	6,983.12	195.19	36.775		
8,650.00	7,719.39	7,703.61	7,696.39	68.03	133.47	28.79	-5,431.68	3,302.51	7,143.44	6,947.39	196.05	36.437		
8,700.00	7,749.79	7,726.79	7,726.79	67.97	133.87	26.30	-5,431.68	3,302.51	7,105.62	6,909.04	196.58	36.146		
8,750.00	7,777.17	7,754.17	7,754.17	67.87	134.35	24.05	-5,431.68	3,302.51	7,065.12	6,867.96	197.16	35.834		
8,800.00	7,801.32	7,778.32	7,778.32	67.74	134.77	21.87	-5,431.68	3,302.51	7,022.25	6,824.58	197.66	35.527		
8,850.00	7,822.06	7,800.94	7,799.06	67.59	135.17	19.57	-5,431.68	3,302.51	6,977.32	6,779.20	198.11	35.219		
8,900.00	7,839.23	7,816.23	7,816.23	67.41	135.43	16.78	-5,431.68	3,302.51	6,930.67	6,732.25	198.42	34.929		
8,950.00	7,852.69	7,829.69	7,829.69	67.22	135.67	12.71	-5,431.68	3,302.51	6,882.66	6,683.99	198.68	34.643		
9,000.00	7,862.35	7,839.35	7,839.35	67.00	135.84	4.94	-5,431.68	3,302.51	6,833.65	6,634.80	198.85	34.366		
9,050.00	7,868.14	7,845.14	7,845.14	66.78	135.94	-17.93	-5,431.68	3,302.51	6,784.00	6,585.06	198.94	34.101		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,098.65	7,870.00	7,847.00	7,847.00	66.55	135.97	-90.00	-5,431.68	3,302.51	6,735.45	6,536.50	198.95	33.855		
9,100.00	7,870.00	7,847.00	7,847.00	66.55	135.97	-90.00	-5,431.68	3,302.51	6,734.10	6,535.15	198.95	33.848		
9,200.00	7,870.00	7,847.00	7,847.00	66.09	135.97	-90.00	-5,431.68	3,302.51	6,634.29	6,435.40	198.89	33.356		
9,300.00	7,870.00	7,847.00	7,847.00	65.65	135.97	-90.00	-5,431.68	3,302.51	6,534.49	6,335.65	198.83	32.864		
9,400.00	7,870.00	7,847.00	7,847.00	65.24	135.97	-90.00	-5,431.68	3,302.51	6,434.69	6,235.92	198.78	32.372		
9,500.00	7,870.00	7,847.00	7,847.00	64.85	135.97	-90.00	-5,431.68	3,302.51	6,334.91	6,136.19	198.72	31.879		
9,600.00	7,870.00	7,847.00	7,847.00	64.48	135.97	-90.00	-5,431.68	3,302.51	6,235.12	6,036.47	198.65	31.387		
9,700.00	7,870.00	7,847.00	7,847.00	64.13	135.97	-90.00	-5,431.68	3,302.51	6,135.35	5,936.76	198.59	30.894		
9,800.00	7,870.00	7,847.00	7,847.00	63.80	135.97	-90.00	-5,431.68	3,302.51	6,035.58	5,837.06	198.53	30.402		
9,900.00	7,870.00	7,847.00	7,847.00	63.50	135.97	-90.00	-5,431.68	3,302.51	5,935.82	5,737.36	198.46	29.909		
10,000.00	7,870.00	7,847.00	7,847.00	63.22	135.97	-90.00	-5,431.68	3,302.51	5,836.07	5,637.68	198.39	29.417		
10,100.00	7,870.00	7,847.00	7,847.00	62.96	135.97	-90.00	-5,431.68	3,302.51	5,736.33	5,538.01	198.32	28.924		
10,200.00	7,870.00	7,847.00	7,847.00	62.72	135.97	-90.00	-5,431.68	3,302.51	5,636.60	5,438.34	198.25	28.431		
10,300.00	7,870.00	7,847.00	7,847.00	62.50	135.97	-90.00	-5,431.68	3,302.51	5,536.88	5,338.69	198.18	27.938		
10,400.00	7,870.00	7,847.00	7,847.00	62.31	135.97	-90.00	-5,431.68	3,302.51	5,437.16	5,239.06	198.11	27.446		
10,500.00	7,870.00	7,847.00	7,847.00	62.15	135.97	-90.00	-5,431.68	3,302.51	5,337.46	5,139.43	198.03	26.953		
10,600.00	7,870.00	7,847.00	7,847.00	62.01	135.97	-90.00	-5,431.68	3,302.51	5,237.77	5,039.82	197.95	26.460		
10,700.00	7,870.00	7,847.00	7,847.00	61.90	135.97	-90.00	-5,431.68	3,302.51	5,138.09	4,940.22	197.87	25.967		
10,800.00	7,870.00	7,847.00	7,847.00	61.82	135.97	-90.00	-5,431.68	3,302.51	5,038.42	4,840.64	197.78	25.474		
10,900.00	7,870.00	7,847.00	7,847.00	61.78	135.97	-90.00	-5,431.68	3,302.51	4,938.77	4,741.07	197.70	24.981		
11,000.00	7,870.00	7,847.00	7,847.00	61.77	135.97	-90.00	-5,431.68	3,302.51	4,839.13	4,641.52	197.61	24.489		
11,100.00	7,870.00	7,847.00	7,847.00	61.81	135.97	-90.00	-5,431.68	3,302.51	4,739.51	4,541.99	197.51	23.996		
11,200.00	7,870.00	7,847.00	7,847.00	61.90	135.97	-90.00	-5,431.68	3,302.51	4,639.90	4,442.48	197.42	23.503		
11,300.00	7,870.00	7,847.00	7,847.00	62.03	135.97	-90.00	-5,431.68	3,302.51	4,540.31	4,342.99	197.32	23.010		
11,400.00	7,870.00	7,847.00	7,847.00	62.23	135.97	-90.00	-5,431.68	3,302.51	4,440.74	4,243.53	197.21	22.517		
11,500.00	7,870.00	7,847.00	7,847.00	62.50	135.97	-90.00	-5,431.68	3,302.51	4,341.19	4,144.08	197.11	22.024		
11,600.00	7,870.00	7,847.00	7,847.00	62.84	135.97	-90.00	-5,431.68	3,302.51	4,241.66	4,044.66	197.00	21.532		
11,700.00	7,870.00	7,847.00	7,847.00	63.25	135.97	-90.00	-5,431.68	3,302.51	4,142.15	3,945.27	196.88	21.039		
11,800.00	7,870.00	7,847.00	7,847.00	63.76	135.97	-90.00	-5,431.68	3,302.51	4,042.67	3,845.91	196.76	20.546		
11,900.00	7,870.00	7,847.00	7,847.00	64.34	135.97	-90.00	-5,431.68	3,302.51	3,943.21	3,746.58	196.63	20.054		
12,000.00	7,870.00	7,847.00	7,847.00	65.01	135.97	-90.00	-5,431.68	3,302.51	3,843.78	3,647.28	196.50	19.561		
12,100.00	7,870.00	7,847.00	7,847.00	65.77	135.97	-90.00	-5,431.68	3,302.51	3,744.38	3,548.02	196.36	19.069		
12,200.00	7,870.00	7,847.00	7,847.00	66.61	135.97	-90.00	-5,431.68	3,302.51	3,645.01	3,448.80	196.22	18.576		
12,300.00	7,870.00	7,847.00	7,847.00	67.51	135.97	-90.00	-5,431.68	3,302.51	3,545.68	3,349.62	196.07	18.084		
12,400.00	7,870.00	7,847.00	7,847.00	68.49	135.97	-90.00	-5,431.68	3,302.51	3,446.39	3,250.48	195.91	17.592		
12,500.00	7,870.00	7,847.00	7,847.00	69.52	135.97	-90.00	-5,431.68	3,302.51	3,347.14	3,151.40	195.74	17.100		
12,600.00	7,870.00	7,847.00	7,847.00	70.61	135.97	-90.00	-5,431.68	3,302.51	3,247.94	3,052.37	195.57	16.608		
12,700.00	7,870.00	7,847.00	7,847.00	71.75	135.97	-90.00	-5,431.68	3,302.51	3,148.79	2,953.40	195.38	16.116		
12,800.00	7,870.00	7,847.00	7,847.00	72.93	135.97	-90.00	-5,431.68	3,302.51	3,049.69	2,854.50	195.19	15.624		
12,900.00	7,870.00	7,847.00	7,847.00	74.14	135.97	-90.00	-5,431.68	3,302.51	2,950.65	2,755.66	194.99	15.133		
13,000.00	7,870.00	7,847.00	7,847.00	75.39	135.97	-90.00	-5,431.68	3,302.51	2,851.68	2,656.91	194.77	14.641		
13,100.00	7,870.00	7,847.00	7,847.00	76.67	135.97	-90.00	-5,431.68	3,302.51	2,752.79	2,558.24	194.54	14.150		
13,200.00	7,870.00	7,847.00	7,847.00	77.98	135.97	-90.00	-5,431.68	3,302.51	2,653.97	2,459.67	194.30	13.659		
13,300.00	7,870.00	7,847.00	7,847.00	79.31	135.97	-90.00	-5,431.68	3,302.51	2,555.25	2,361.20	194.05	13.168		
13,400.00	7,870.00	7,847.00	7,847.00	80.67	135.97	-90.00	-5,431.68	3,302.51	2,456.64	2,262.86	193.78	12.677		
13,500.00	7,870.00	7,847.00	7,847.00	82.04	135.97	-90.00	-5,431.68	3,302.51	2,358.14	2,164.64	193.50	12.187		
13,600.00	7,870.00	7,847.00	7,847.00	83.43	135.97	-90.00	-5,431.68	3,302.51	2,259.77	2,066.57	193.20	11.697		
13,700.00	7,870.00	7,847.00	7,847.00	84.84	135.97	-90.00	-5,431.68	3,302.51	2,161.55	1,968.67	192.88	11.207		
13,800.00	7,870.00	7,847.00	7,847.00	86.27	135.97	-90.00	-5,431.68	3,302.51	2,063.50	1,870.96	192.54	10.717		
13,900.00	7,870.00	7,847.00	7,847.00	87.71	135.97	-90.00	-5,431.68	3,302.51	1,965.65	1,773.46	192.19	10.228		
14,000.00	7,870.00	7,847.00	7,847.00	89.16	135.97	-90.00	-5,431.68	3,302.51	1,868.03	1,676.21	191.82	9.739		
14,100.00	7,870.00	7,847.00	7,847.00	90.63	135.97	-90.00	-5,431.68	3,302.51	1,770.67	1,579.24	191.43	9.250		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,200.00	7,870.00	7,847.00	7,847.00	92.10	135.97	-90.00	-5,431.68	3,302.51	1,673.62	1,482.60	191.03	8.761		
14,300.00	7,870.00	7,847.00	7,847.00	93.59	135.97	-90.00	-5,431.68	3,302.51	1,576.95	1,386.33	190.62	8.273		
14,400.00	7,870.00	7,847.00	7,847.00	95.09	135.97	-90.00	-5,431.68	3,302.51	1,480.71	1,290.50	190.21	7.784		
14,500.00	7,870.00	7,847.00	7,847.00	96.60	135.97	-90.00	-5,431.68	3,302.51	1,385.01	1,195.18	189.83	7.296		
14,600.00	7,870.00	7,847.00	7,847.00	98.11	135.97	-90.00	-5,431.68	3,302.51	1,289.96	1,100.48	189.48	6.808		
14,700.00	7,870.00	7,847.00	7,847.00	99.64	135.97	-90.00	-5,431.68	3,302.51	1,195.72	1,006.49	189.22	6.319		
14,800.00	7,870.00	7,847.00	7,847.00	101.17	135.97	-90.00	-5,431.68	3,302.51	1,102.49	913.38	189.11	5.830		
14,900.00	7,870.00	7,847.00	7,847.00	102.71	135.97	-90.00	-5,431.68	3,302.51	1,010.56	821.30	189.26	5.340		
15,000.00	7,870.00	7,847.00	7,847.00	104.26	135.97	-90.00	-5,431.68	3,302.51	920.31	730.50	189.81	4.849		
15,100.00	7,870.00	7,847.00	7,847.00	105.82	135.97	-90.00	-5,431.68	3,302.51	832.30	641.27	191.03	4.357		
15,200.00	7,870.00	7,847.00	7,847.00	107.38	135.97	-90.00	-5,431.68	3,302.51	747.30	554.03	193.27	3.867		
15,300.00	7,870.00	7,847.00	7,847.00	108.95	135.97	-90.00	-5,431.68	3,302.51	666.49	469.45	197.04	3.383		
15,400.00	7,870.00	7,847.00	7,847.00	110.52	135.97	-90.00	-5,431.68	3,302.51	591.57	388.65	202.92	2.915		
15,500.00	7,870.00	7,847.00	7,847.00	112.10	135.97	-90.00	-5,431.68	3,302.51	525.07	313.63	211.44	2.483		
15,600.00	7,870.00	7,847.00	7,847.00	113.69	135.97	-90.00	-5,431.68	3,302.51	470.58	247.98	222.59	2.114		
15,700.00	7,870.00	7,847.00	7,847.00	115.28	135.97	-90.00	-5,431.68	3,302.51	432.65	197.47	235.18	1.840		
15,800.00	7,870.00	7,847.00	7,847.00	116.87	135.97	-90.00	-5,431.68	3,302.51	415.85	169.33	246.52	1.687		
15,821.28	7,870.00	7,847.00	7,847.00	117.21	135.97	-90.00	-5,431.68	3,302.51	415.30	166.84	248.47	1.671	CC, ES	
15,900.00	7,870.00	7,847.00	7,847.00	118.47	135.97	-90.00	-5,431.68	3,302.51	422.70	169.04	253.65	1.666	SF	
16,000.00	7,870.00	7,847.00	7,847.00	120.07	135.97	-90.00	-5,431.68	3,302.51	452.13	196.52	255.61	1.769		
16,100.00	7,870.00	7,847.00	7,847.00	121.68	135.97	-90.00	-5,431.68	3,302.51	500.16	246.46	253.71	1.971		
16,200.00	7,870.00	7,847.00	7,847.00	123.30	135.97	-90.00	-5,431.68	3,302.51	562.06	312.16	249.90	2.249		
16,300.00	7,870.00	7,847.00	7,847.00	124.91	135.97	-90.00	-5,431.68	3,302.51	633.76	388.20	245.56	2.581		
16,400.00	7,870.00	7,847.00	7,847.00	126.53	135.97	-90.00	-5,431.68	3,302.51	712.32	470.93	241.38	2.951		
16,500.00	7,870.00	7,847.00	7,847.00	128.16	135.97	-90.00	-5,431.68	3,302.51	795.70	558.07	237.63	3.348		
16,600.00	7,870.00	7,847.00	7,847.00	129.79	135.97	-90.00	-5,431.68	3,302.51	882.54	648.18	234.37	3.766		
16,700.00	7,870.00	7,847.00	7,847.00	131.42	135.97	-90.00	-5,431.68	3,302.51	971.92	740.37	231.55	4.197		
16,800.00	7,870.00	7,847.00	7,847.00	133.05	135.97	-90.00	-5,431.68	3,302.51	1,063.19	834.06	229.13	4.640		
16,900.00	7,870.00	7,847.00	7,847.00	134.69	135.97	-90.00	-5,431.68	3,302.51	1,155.91	928.85	227.05	5.091		
17,000.00	7,870.00	7,847.00	7,847.00	136.33	135.97	-90.00	-5,431.68	3,302.51	1,249.75	1,024.49	225.25	5.548		
17,100.00	7,870.00	7,847.00	7,847.00	137.97	135.97	-90.00	-5,431.68	3,302.51	1,344.47	1,120.79	223.69	6.011		
17,200.00	7,870.00	7,847.00	7,847.00	139.62	135.97	-90.00	-5,431.68	3,302.51	1,439.91	1,217.60	222.32	6.477		
17,300.00	7,870.00	7,847.00	7,847.00	141.27	135.97	-90.00	-5,431.68	3,302.51	1,535.94	1,314.82	221.12	6.946		
17,400.00	7,870.00	7,847.00	7,847.00	142.92	135.97	-90.00	-5,431.68	3,302.51	1,632.43	1,412.38	220.06	7.418		
17,500.00	7,870.00	7,847.00	7,847.00	144.58	135.97	-90.00	-5,431.68	3,302.51	1,729.33	1,510.22	219.11	7.892		
17,600.00	7,870.00	7,847.00	7,847.00	146.23	135.97	-90.00	-5,431.68	3,302.51	1,826.56	1,608.29	218.27	8.368		
17,700.00	7,870.00	7,847.00	7,847.00	147.89	135.97	-90.00	-5,431.68	3,302.51	1,924.08	1,706.56	217.52	8.846		
17,800.00	7,870.00	7,847.00	7,847.00	149.56	135.97	-90.00	-5,431.68	3,302.51	2,021.84	1,805.00	216.84	9.324		
17,900.00	7,870.00	7,847.00	7,847.00	151.22	135.97	-90.00	-5,431.68	3,302.51	2,119.80	1,903.58	216.22	9.804		
18,000.00	7,870.00	7,847.00	7,847.00	152.89	135.97	-90.00	-5,431.68	3,302.51	2,217.95	2,002.28	215.67	10.284		
18,100.00	7,870.00	7,847.00	7,847.00	154.55	135.97	-90.00	-5,431.68	3,302.51	2,316.26	2,101.10	215.16	10.765		
18,200.00	7,870.00	7,847.00	7,847.00	156.22	135.97	-90.00	-5,431.68	3,302.51	2,414.70	2,200.00	214.70	11.247		
18,300.00	7,870.00	7,847.00	7,847.00	157.90	135.97	-90.00	-5,431.68	3,302.51	2,513.27	2,298.99	214.28	11.729		
18,400.00	7,870.00	7,847.00	7,847.00	159.57	135.97	-90.00	-5,431.68	3,302.51	2,611.95	2,398.06	213.89	12.212		
18,500.00	7,870.00	7,847.00	7,847.00	161.25	135.97	-90.00	-5,431.68	3,302.51	2,710.72	2,497.19	213.54	12.694		
18,600.00	7,870.00	7,847.00	7,847.00	162.93	135.97	-90.00	-5,431.68	3,302.51	2,809.59	2,596.38	213.21	13.178		
18,700.00	7,870.00	7,847.00	7,847.00	164.60	135.97	-90.00	-5,431.68	3,302.51	2,908.53	2,695.62	212.91	13.661		
18,797.52	7,870.00	7,847.00	7,847.00	166.24	135.97	-90.00	-5,431.68	3,302.51	3,005.07	2,792.44	212.63	14.133		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	134.16	-5,559.47	5,723.98	7,979.55					
100.00	100.00	60.00	60.00	0.13	0.50	134.16	-5,559.47	5,723.98	7,979.45	7,978.82	0.63	N/A		
200.00	200.00	160.00	160.00	0.49	1.88	134.16	-5,559.47	5,723.98	7,979.45	7,977.08	2.37	3,368.094		
300.00	300.00	260.00	260.00	0.85	3.62	134.16	-5,559.47	5,723.98	7,979.45	7,974.97	4.47	1,783.942		
400.00	400.00	360.00	360.00	1.21	5.37	134.16	-5,559.47	5,723.98	7,979.45	7,972.87	6.58	1,213.285		
500.00	500.00	460.00	460.00	1.57	7.11	134.16	-5,559.47	5,723.98	7,979.45	7,970.77	8.68	919.235		
600.00	600.00	560.00	560.00	1.93	8.86	134.16	-5,559.47	5,723.98	7,979.45	7,968.66	10.78	739.911		
700.00	700.00	660.00	660.00	2.29	10.60	134.16	-5,559.47	5,723.98	7,979.45	7,966.56	12.89	619.131		
800.00	800.00	760.00	760.00	2.64	12.35	134.16	-5,559.47	5,723.98	7,979.45	7,964.46	14.99	532.249		
900.00	900.00	860.00	860.00	3.00	14.09	134.16	-5,559.47	5,723.98	7,979.45	7,962.35	17.10	466.751		
1,000.00	1,000.00	960.00	960.00	3.36	15.84	134.16	-5,559.47	5,723.98	7,979.45	7,960.25	19.20	415.606		
1,100.00	1,099.98	1,059.98	1,059.98	3.72	17.58	79.56	-5,559.47	5,723.98	7,979.13	7,957.83	21.30	374.620		
1,200.00	1,199.84	1,159.84	1,159.84	4.07	19.33	79.62	-5,559.47	5,723.98	7,978.18	7,954.79	23.40	341.019		
1,300.00	1,299.45	1,259.45	1,259.45	4.43	21.07	79.71	-5,559.47	5,723.98	7,976.61	7,951.12	25.49	312.915		
1,400.00	1,398.70	1,358.70	1,358.70	4.80	22.80	79.84	-5,559.47	5,723.98	7,974.43	7,946.85	27.59	289.041		
1,500.00	1,497.47	1,457.47	1,457.47	5.18	24.52	80.00	-5,559.47	5,723.98	7,971.66	7,941.97	29.69	268.482		
1,600.00	1,595.62	1,555.62	1,555.62	5.57	26.23	80.20	-5,559.47	5,723.98	7,968.32	7,936.52	31.80	250.565		
1,700.00	1,693.06	1,653.06	1,653.06	6.00	27.93	80.43	-5,559.47	5,723.98	7,964.44	7,930.52	33.92	234.786		
1,800.00	1,789.64	1,749.64	1,749.64	6.45	29.62	80.70	-5,559.47	5,723.98	7,960.05	7,924.00	36.06	220.762		
1,900.00	1,885.27	1,845.27	1,845.27	6.94	31.29	80.99	-5,559.47	5,723.98	7,955.20	7,916.98	38.21	208.194		
2,000.00	1,979.82	1,939.82	1,939.82	7.47	32.94	81.32	-5,559.47	5,723.98	7,949.91	7,909.52	40.39	196.851		
2,100.00	2,073.17	2,033.17	2,033.17	8.05	34.57	81.67	-5,559.47	5,723.98	7,944.24	7,901.65	42.59	186.550		
2,200.00	2,165.21	2,125.21	2,125.21	8.67	36.18	82.04	-5,559.47	5,723.98	7,938.23	7,893.42	44.81	177.143		
2,300.00	2,255.84	2,215.84	2,215.84	9.35	37.76	82.44	-5,559.47	5,723.98	7,931.95	7,884.88	47.07	168.515		
2,400.00	2,344.94	2,304.94	2,304.94	10.09	39.31	82.86	-5,559.47	5,723.98	7,925.45	7,876.09	49.36	160.567		
2,500.00	2,432.39	2,407.61	2,392.39	10.89	41.10	83.30	-5,559.47	5,723.98	7,918.79	7,866.84	51.95	152.439		
2,519.29	2,449.07	2,409.07	2,409.07	11.05	41.13	83.39	-5,559.47	5,723.98	7,917.49	7,865.36	52.13	151.871		
2,600.00	2,518.69	2,478.69	2,478.69	11.74	42.35	83.64	-5,559.47	5,723.98	7,912.16	7,858.12	54.03	146.427		
2,700.00	2,604.95	2,564.95	2,564.95	12.62	43.85	83.96	-5,559.47	5,723.98	7,905.83	7,849.42	56.41	140.140		
2,800.00	2,691.22	2,651.22	2,651.22	13.52	45.36	84.27	-5,559.47	5,723.98	7,899.83	7,841.02	58.81	134.323		
2,900.00	2,777.48	2,737.48	2,737.48	14.43	46.86	84.59	-5,559.47	5,723.98	7,894.15	7,832.92	61.23	128.932		
3,000.00	2,863.75	2,823.75	2,823.75	15.35	48.37	84.90	-5,559.47	5,723.98	7,888.78	7,825.13	63.66	123.929		
3,100.00	2,950.01	2,910.01	2,910.01	16.28	49.87	85.22	-5,559.47	5,723.98	7,883.74	7,817.65	66.10	119.278		
3,200.00	3,036.27	3,003.73	2,996.27	17.22	51.51	85.53	-5,559.47	5,723.98	7,879.02	7,810.34	68.67	114.730		
3,300.00	3,122.54	3,082.54	3,082.54	18.17	52.88	85.85	-5,559.47	5,723.98	7,874.62	7,803.62	71.00	110.907		
3,400.00	3,208.80	3,168.80	3,168.80	19.13	54.39	86.17	-5,559.47	5,723.98	7,870.54	7,797.08	73.47	107.132		
3,500.00	3,295.07	3,255.07	3,255.07	20.09	55.90	86.49	-5,559.47	5,723.98	7,866.79	7,790.85	75.94	103.598		
3,600.00	3,381.33	3,341.33	3,341.33	21.05	57.40	86.80	-5,559.47	5,723.98	7,863.36	7,784.95	78.41	100.284		
3,700.00	3,467.59	3,427.59	3,427.59	22.02	58.91	87.12	-5,559.47	5,723.98	7,860.25	7,779.36	80.89	97.172		
3,800.00	3,553.86	3,513.86	3,513.86	22.99	60.41	87.44	-5,559.47	5,723.98	7,857.47	7,774.10	83.37	94.245		
3,900.00	3,640.12	3,600.12	3,600.12	23.97	61.92	87.76	-5,559.47	5,723.98	7,855.02	7,769.16	85.86	91.488		
4,000.00	3,726.38	3,686.38	3,686.38	24.95	63.42	88.08	-5,559.47	5,723.98	7,852.88	7,764.54	88.35	88.887		
4,100.00	3,812.65	3,772.65	3,772.65	25.93	64.93	88.39	-5,559.47	5,723.98	7,851.08	7,760.24	90.84	86.429		
4,200.00	3,898.91	3,858.91	3,858.91	26.91	66.43	88.71	-5,559.47	5,723.98	7,849.60	7,756.27	93.33	84.105		
4,300.00	3,985.18	3,945.18	3,945.18	27.90	67.94	89.03	-5,559.47	5,723.98	7,848.44	7,752.62	95.83	81.904		
4,400.00	4,071.44	4,031.44	4,031.44	28.88	69.45	89.35	-5,559.47	5,723.98	7,847.61	7,749.29	98.32	79.817		
4,500.00	4,157.70	4,117.70	4,117.70	29.87	70.95	89.67	-5,559.47	5,723.98	7,847.11	7,746.29	100.82	77.835		
4,600.00	4,243.97	4,203.97	4,203.97	30.86	72.46	89.99	-5,559.47	5,723.98	7,846.93	7,743.62	103.31	75.952		
4,604.36	4,247.73	4,207.73	4,207.73	30.90	72.52	90.00	-5,559.47	5,723.98	7,846.93	7,743.51	103.42	75.872		
4,700.00	4,330.23	4,309.77	4,290.23	31.85	74.30	90.30	-5,559.47	5,723.98	7,847.08	7,740.93	106.15	73.922		
4,800.00	4,416.49	4,376.49	4,376.49	32.84	75.47	90.62	-5,559.47	5,723.98	7,847.56	7,739.25	108.31	72.454		
4,900.00	4,502.76	4,462.76	4,462.76	33.84	76.97	90.94	-5,559.47	5,723.98	7,848.36	7,737.55	110.81	70.828		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	4,589.02	4,549.02	4,549.02	34.83	78.48	91.26	-5,559.47	5,723.98	7,849.48	7,736.18	113.31	69.277		
5,100.00	4,675.29	4,635.29	4,635.29	35.82	79.98	91.58	-5,559.47	5,723.98	7,850.94	7,735.13	115.80	67.795		
5,200.00	4,761.55	4,721.55	4,721.55	36.82	81.49	91.90	-5,559.47	5,723.98	7,852.71	7,734.41	118.30	66.379		
5,300.00	4,847.81	4,807.81	4,807.81	37.82	83.00	92.22	-5,559.47	5,723.98	7,854.82	7,734.02	120.80	65.025		
5,400.00	4,934.08	4,905.92	4,894.08	38.81	84.71	92.53	-5,559.47	5,723.98	7,857.25	7,733.75	123.50	63.621		
5,500.00	5,020.34	4,980.34	4,980.34	39.81	86.01	92.85	-5,559.47	5,723.98	7,860.00	7,734.21	125.79	62.486		
5,600.00	5,106.60	5,066.60	5,066.60	40.81	87.51	93.17	-5,559.47	5,723.98	7,863.08	7,734.79	128.28	61.295		
5,700.00	5,192.87	5,152.87	5,152.87	41.81	89.02	93.49	-5,559.47	5,723.98	7,866.48	7,735.70	130.77	60.153		
5,800.00	5,279.13	5,239.13	5,239.13	42.81	90.52	93.80	-5,559.47	5,723.98	7,870.20	7,736.94	133.27	59.057		
5,900.00	5,365.40	5,325.40	5,325.40	43.81	92.03	94.12	-5,559.47	5,723.98	7,874.25	7,738.50	135.75	58.003		
6,000.00	5,451.66	5,411.66	5,411.66	44.81	93.53	94.44	-5,559.47	5,723.98	7,878.62	7,740.38	138.24	56.991		
6,100.00	5,537.92	5,425.00	5,425.00	45.81	93.77	94.49	-5,559.47	5,723.98	7,883.65	7,744.21	139.44	56.536		
6,200.00	5,624.19	5,425.00	5,425.00	46.81	93.77	94.49	-5,559.47	5,723.98	7,889.94	7,749.54	140.39	56.199		
6,300.00	5,710.45	5,425.00	5,425.00	47.81	93.77	94.49	-5,559.47	5,723.98	7,897.48	7,756.16	141.32	55.882		
6,400.00	5,796.72	5,425.00	5,425.00	48.81	93.77	94.49	-5,559.47	5,723.98	7,906.28	7,764.05	142.23	55.586		
6,500.00	5,882.98	5,425.00	5,425.00	49.81	93.77	94.49	-5,559.47	5,723.98	7,916.34	7,773.22	143.13	55.311		
6,600.00	5,969.24	5,425.00	5,425.00	50.82	93.77	94.49	-5,559.47	5,723.98	7,927.65	7,783.65	144.00	55.055		
6,700.00	6,055.51	5,425.00	5,425.00	51.82	93.77	94.49	-5,559.47	5,723.98	7,940.19	7,795.35	144.85	54.818		
6,800.00	6,141.77	5,425.00	5,425.00	52.82	93.77	94.49	-5,559.47	5,723.98	7,953.98	7,808.30	145.68	54.601		
6,900.00	6,228.03	5,425.00	5,425.00	53.83	93.77	94.49	-5,559.47	5,723.98	7,969.00	7,822.51	146.48	54.402		
7,000.00	6,314.30	5,425.00	5,425.00	54.83	93.77	94.49	-5,559.47	5,723.98	7,985.24	7,837.97	147.27	54.221		
7,100.00	6,400.56	5,425.00	5,425.00	55.83	93.77	94.49	-5,559.47	5,723.98	8,002.70	7,854.66	148.04	54.058		
7,200.00	6,486.83	5,425.00	5,425.00	56.84	93.77	94.49	-5,559.47	5,723.98	8,021.36	7,872.58	148.79	53.912		
7,300.00	6,573.09	5,425.00	5,425.00	57.84	93.77	94.49	-5,559.47	5,723.98	8,041.23	7,891.72	149.51	53.783		
7,400.00	6,659.35	5,425.00	5,425.00	58.84	93.77	94.49	-5,559.47	5,723.98	8,062.29	7,912.07	150.22	53.672		
7,500.00	6,745.62	5,425.00	5,425.00	59.85	93.77	94.49	-5,559.47	5,723.98	8,084.53	7,933.63	150.90	53.576		
7,600.00	6,831.88	5,425.00	5,425.00	60.85	93.77	94.49	-5,559.47	5,723.98	8,107.94	7,956.38	151.56	53.496		
7,700.00	6,918.14	5,425.00	5,425.00	61.86	93.77	94.49	-5,559.47	5,723.98	8,132.52	7,980.31	152.20	53.432		
7,800.00	7,004.41	5,425.00	5,425.00	62.86	93.77	94.49	-5,559.47	5,723.98	8,158.24	8,005.42	152.82	53.384		
7,900.00	7,090.67	5,425.00	5,425.00	63.87	93.77	94.49	-5,559.47	5,723.98	8,185.11	8,031.69	153.42	53.350		
8,000.00	7,176.94	5,425.00	5,425.00	64.87	93.77	94.49	-5,559.47	5,723.98	8,213.11	8,059.11	154.00	53.331		
8,027.52	7,200.68	5,425.00	5,425.00	65.15	93.77	94.49	-5,559.47	5,723.98	8,221.01	8,066.85	154.16	53.328		
8,050.00	7,220.18	5,425.00	5,425.00	65.37	93.77	91.38	-5,559.47	5,723.98	8,227.15	8,072.87	154.28	53.326		
8,100.00	7,264.25	5,425.00	5,425.00	65.85	93.77	83.38	-5,559.47	5,723.98	8,238.28	8,083.74	154.54	53.310		
8,150.00	7,308.99	5,425.00	5,425.00	66.28	93.77	74.04	-5,559.47	5,723.98	8,245.86	8,091.10	154.76	53.282		
8,200.00	7,354.07	5,425.00	5,425.00	66.67	93.77	63.85	-5,559.47	5,723.98	8,249.85	8,094.91	154.95	53.243		
8,250.00	7,399.14	5,425.00	5,425.00	67.02	93.77	53.52	-5,559.47	5,723.98	8,250.23	8,095.13	155.09	53.195		
8,300.00	7,443.85	5,425.00	5,425.00	67.32	93.77	43.75	-5,559.47	5,723.98	8,246.98	8,091.78	155.20	53.139		
8,350.00	7,487.88	5,425.00	5,425.00	67.56	93.77	35.00	-5,559.47	5,723.98	8,240.13	8,084.87	155.26	53.073		
8,400.00	7,530.87	5,425.00	5,425.00	67.75	93.77	27.40	-5,559.47	5,723.98	8,229.73	8,074.45	155.28	53.000		
8,450.00	7,572.51	5,425.00	5,425.00	67.90	93.77	20.88	-5,559.47	5,723.98	8,215.83	8,060.58	155.26	52.918		
8,500.00	7,612.48	5,425.00	5,425.00	68.00	93.77	15.23	-5,559.47	5,723.98	8,198.53	8,043.34	155.19	52.828		
8,550.00	7,650.47	5,425.00	5,425.00	68.05	93.77	10.26	-5,559.47	5,723.98	8,177.94	8,022.85	155.10	52.728		
8,600.00	7,686.20	5,425.00	5,425.00	68.06	93.77	5.76	-5,559.47	5,723.98	8,154.19	7,999.23	154.96	52.620		
8,650.00	7,719.39	5,425.00	5,425.00	68.03	93.77	1.54	-5,559.47	5,723.98	8,127.44	7,972.64	154.80	52.503		
8,700.00	7,749.79	5,425.00	5,425.00	67.97	93.77	-2.57	-5,559.47	5,723.98	8,097.85	7,943.25	154.61	52.376		
8,750.00	7,777.17	5,425.00	5,425.00	67.87	93.77	-6.71	-5,559.47	5,723.98	8,065.63	7,911.24	154.39	52.241		
8,800.00	7,801.32	5,425.00	5,425.00	67.74	93.77	-11.05	-5,559.47	5,723.98	8,030.99	7,876.83	154.16	52.096		
8,850.00	7,822.06	5,425.00	5,425.00	67.59	93.77	-15.76	-5,559.47	5,723.98	7,994.16	7,840.26	153.91	51.942		
8,900.00	7,839.23	5,425.00	5,425.00	67.41	93.77	-20.99	-5,559.47	5,723.98	7,955.40	7,801.76	153.64	51.779		
8,950.00	7,852.69	5,425.00	5,425.00	67.22	93.77	-26.92	-5,559.47	5,723.98	7,914.97	7,761.61	153.37	51.607		
9,000.00	7,862.35	5,425.00	5,425.00	67.00	93.77	-33.69	-5,559.47	5,723.98	7,873.17	7,720.07	153.09	51.428		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	5,425.00	5,425.00	66.78	93.77	-41.40	-5,559.47	5,723.98	7,830.27	7,677.46	152.82	51.240		
9,098.65	7,870.00	5,425.00	5,425.00	66.55	93.77	-49.71	-5,559.47	5,723.98	7,787.80	7,635.25	152.55	51.051		
9,100.00	7,870.00	5,425.00	5,425.00	66.55	93.77	-49.71	-5,559.47	5,723.98	7,786.61	7,634.07	152.54	51.045		
9,200.00	7,870.00	5,425.00	5,425.00	66.09	93.77	-49.71	-5,559.47	5,723.98	7,698.91	7,546.91	152.00	50.651		
9,300.00	7,870.00	5,425.00	5,425.00	65.65	93.77	-49.71	-5,559.47	5,723.98	7,611.50	7,460.05	151.45	50.258		
9,400.00	7,870.00	5,425.00	5,425.00	65.24	93.77	-49.71	-5,559.47	5,723.98	7,524.41	7,373.52	150.89	49.867		
9,500.00	7,870.00	5,425.00	5,425.00	64.85	93.77	-49.71	-5,559.47	5,723.98	7,437.65	7,287.32	150.33	49.477		
9,600.00	7,870.00	5,425.00	5,425.00	64.48	93.77	-49.71	-5,559.47	5,723.98	7,351.22	7,201.47	149.75	49.089		
9,700.00	7,870.00	5,425.00	5,425.00	64.13	93.77	-49.71	-5,559.47	5,723.98	7,265.14	7,115.96	149.18	48.701		
9,800.00	7,870.00	5,425.00	5,425.00	63.80	93.77	-49.71	-5,559.47	5,723.98	7,179.42	7,030.83	148.59	48.315		
9,900.00	7,870.00	5,425.00	5,425.00	63.50	93.77	-49.71	-5,559.47	5,723.98	7,094.08	6,946.07	148.01	47.931		
10,000.00	7,870.00	5,425.00	5,425.00	63.22	93.77	-49.71	-5,559.47	5,723.98	7,009.12	6,861.70	147.42	47.547		
10,100.00	7,870.00	5,425.00	5,425.00	62.96	93.77	-49.71	-5,559.47	5,723.98	6,924.56	6,777.74	146.82	47.164		
10,200.00	7,870.00	5,425.00	5,425.00	62.72	93.77	-49.71	-5,559.47	5,723.98	6,840.42	6,694.20	146.22	46.781		
10,300.00	7,870.00	5,425.00	5,425.00	62.50	93.77	-49.71	-5,559.47	5,723.98	6,756.72	6,611.10	145.62	46.400		
10,400.00	7,870.00	5,425.00	5,425.00	62.31	93.77	-49.71	-5,559.47	5,723.98	6,673.46	6,528.44	145.02	46.019		
10,500.00	7,870.00	5,425.00	5,425.00	62.15	93.77	-49.71	-5,559.47	5,723.98	6,590.66	6,446.25	144.41	45.637		
10,600.00	7,870.00	5,425.00	5,425.00	62.01	93.77	-49.71	-5,559.47	5,723.98	6,508.35	6,364.54	143.81	45.256		
10,700.00	7,870.00	5,425.00	5,425.00	61.90	93.77	-49.71	-5,559.47	5,723.98	6,426.55	6,283.33	143.21	44.874		
10,800.00	7,870.00	5,425.00	5,425.00	61.82	93.77	-49.71	-5,559.47	5,723.98	6,345.26	6,202.64	142.62	44.492		
10,900.00	7,870.00	5,425.00	5,425.00	61.78	93.77	-49.71	-5,559.47	5,723.98	6,264.52	6,122.49	142.02	44.109		
11,000.00	7,870.00	5,425.00	5,425.00	61.77	93.77	-49.71	-5,559.47	5,723.98	6,184.33	6,042.89	141.44	43.724		
11,100.00	7,870.00	5,425.00	5,425.00	61.81	93.77	-49.71	-5,559.47	5,723.98	6,104.74	5,963.87	140.87	43.337		
11,200.00	7,870.00	5,425.00	5,425.00	61.90	93.77	-49.71	-5,559.47	5,723.98	6,025.75	5,885.44	140.30	42.948		
11,300.00	7,870.00	5,425.00	5,425.00	62.03	93.77	-49.71	-5,559.47	5,723.98	5,947.39	5,807.64	139.75	42.556		
11,400.00	7,870.00	5,425.00	5,425.00	62.23	93.77	-49.71	-5,559.47	5,723.98	5,869.69	5,730.47	139.22	42.161		
11,500.00	7,870.00	5,425.00	5,425.00	62.50	93.77	-49.71	-5,559.47	5,723.98	5,792.68	5,653.97	138.71	41.761		
11,600.00	7,870.00	5,425.00	5,425.00	62.84	93.77	-49.71	-5,559.47	5,723.98	5,716.37	5,578.15	138.22	41.358		
11,700.00	7,870.00	5,425.00	5,425.00	63.25	93.77	-49.71	-5,559.47	5,723.98	5,640.81	5,503.06	137.75	40.949		
11,800.00	7,870.00	5,425.00	5,425.00	63.76	93.77	-49.71	-5,559.47	5,723.98	5,566.02	5,428.70	137.32	40.534		
11,900.00	7,870.00	5,425.00	5,425.00	64.34	93.77	-49.71	-5,559.47	5,723.98	5,492.03	5,355.11	136.92	40.113		
12,000.00	7,870.00	5,425.00	5,425.00	65.01	93.77	-49.71	-5,559.47	5,723.98	5,418.87	5,282.32	136.55	39.684		
12,100.00	7,870.00	5,425.00	5,425.00	65.77	93.77	-49.71	-5,559.47	5,723.98	5,346.59	5,210.36	136.23	39.248		
12,200.00	7,870.00	5,425.00	5,425.00	66.61	93.77	-49.71	-5,559.47	5,723.98	5,275.21	5,139.26	135.95	38.803		
12,300.00	7,870.00	5,425.00	5,425.00	67.51	93.77	-49.71	-5,559.47	5,723.98	5,204.77	5,069.05	135.72	38.349		
12,400.00	7,870.00	5,425.00	5,425.00	68.49	93.77	-49.71	-5,559.47	5,723.98	5,135.32	4,999.77	135.55	37.886		
12,500.00	7,870.00	5,425.00	5,425.00	69.52	93.77	-49.71	-5,559.47	5,723.98	5,066.88	4,931.45	135.43	37.413		
12,600.00	7,870.00	5,425.00	5,425.00	70.61	93.77	-49.71	-5,559.47	5,723.98	4,999.51	4,864.13	135.38	36.929		
12,700.00	7,870.00	5,425.00	5,425.00	71.75	93.77	-49.71	-5,559.47	5,723.98	4,933.25	4,797.85	135.40	36.436		
12,800.00	7,870.00	5,425.00	5,425.00	72.93	93.77	-49.71	-5,559.47	5,723.98	4,868.14	4,732.66	135.49	35.931		
12,900.00	7,870.00	5,425.00	5,425.00	74.14	93.77	-49.71	-5,559.47	5,723.98	4,804.23	4,668.58	135.65	35.416		
13,000.00	7,870.00	5,425.00	5,425.00	75.39	93.77	-49.71	-5,559.47	5,723.98	4,741.56	4,605.67	135.89	34.892		
13,100.00	7,870.00	5,425.00	5,425.00	76.67	93.77	-49.71	-5,559.47	5,723.98	4,680.20	4,543.98	136.22	34.357		
13,200.00	7,870.00	5,425.00	5,425.00	77.98	93.77	-49.71	-5,559.47	5,723.98	4,620.18	4,483.55	136.63	33.814		
13,300.00	7,870.00	5,425.00	5,425.00	79.31	93.77	-49.71	-5,559.47	5,723.98	4,561.57	4,424.43	137.14	33.263		
13,400.00	7,870.00	5,425.00	5,425.00	80.67	93.77	-49.71	-5,559.47	5,723.98	4,504.41	4,366.68	137.73	32.705		
13,500.00	7,870.00	5,425.00	5,425.00	82.04	93.77	-49.71	-5,559.47	5,723.98	4,448.77	4,310.36	138.41	32.142		
13,600.00	7,870.00	5,425.00	5,425.00	83.43	93.77	-49.71	-5,559.47	5,723.98	4,394.70	4,255.51	139.19	31.574		
13,700.00	7,870.00	5,425.00	5,425.00	84.84	93.77	-49.71	-5,559.47	5,723.98	4,342.26	4,202.20	140.06	31.003		
13,800.00	7,870.00	5,425.00	5,425.00	86.27	93.77	-49.71	-5,559.47	5,723.98	4,291.51	4,150.48	141.02	30.431		
13,900.00	7,870.00	5,425.00	5,425.00	87.71	93.77	-49.71	-5,559.47	5,723.98	4,242.50	4,100.42	142.08	29.860		
14,000.00	7,870.00	5,425.00	5,425.00	89.16	93.77	-49.71	-5,559.47	5,723.98	4,195.31	4,052.09	143.23	29.291		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,425.00	5,425.00	90.63	93.77	-49.71	-5,559.47	5,723.98	4,150.00	4,005.53	144.47	28.726		
14,200.00	7,870.00	5,425.00	5,425.00	92.10	93.77	-49.71	-5,559.47	5,723.98	4,106.62	3,960.82	145.80	28.167		
14,300.00	7,870.00	5,425.00	5,425.00	93.59	93.77	-49.71	-5,559.47	5,723.98	4,065.23	3,918.03	147.21	27.616		
14,400.00	7,870.00	5,425.00	5,425.00	95.09	93.77	-49.71	-5,559.47	5,723.98	4,025.91	3,877.21	148.70	27.074		
14,500.00	7,870.00	5,425.00	5,425.00	96.60	93.77	-49.71	-5,559.47	5,723.98	3,988.71	3,838.43	150.28	26.543		
14,600.00	7,870.00	5,425.00	5,425.00	98.11	93.77	-49.71	-5,559.47	5,723.98	3,953.68	3,801.76	151.93	26.024		
14,700.00	7,870.00	5,425.00	5,425.00	99.64	93.77	-49.71	-5,559.47	5,723.98	3,920.90	3,767.25	153.65	25.519		
14,800.00	7,870.00	5,425.00	5,425.00	101.17	93.77	-49.71	-5,559.47	5,723.98	3,890.40	3,734.97	155.43	25.030		
14,900.00	7,870.00	5,425.00	5,425.00	102.71	93.77	-49.71	-5,559.47	5,723.98	3,862.26	3,704.98	157.28	24.557		
15,000.00	7,870.00	5,425.00	5,425.00	104.26	93.77	-49.71	-5,559.47	5,723.98	3,836.52	3,677.34	159.19	24.101		
15,100.00	7,870.00	5,425.00	5,425.00	105.82	93.77	-49.71	-5,559.47	5,723.98	3,813.23	3,652.09	161.14	23.664		
15,200.00	7,870.00	5,425.00	5,425.00	107.38	93.77	-49.71	-5,559.47	5,723.98	3,792.43	3,629.29	163.14	23.246		
15,300.00	7,870.00	5,425.00	5,425.00	108.95	93.77	-49.71	-5,559.47	5,723.98	3,774.17	3,608.99	165.18	22.848		
15,400.00	7,870.00	5,425.00	5,425.00	110.52	93.77	-49.71	-5,559.47	5,723.98	3,758.48	3,591.23	167.26	22.471		
15,500.00	7,870.00	5,425.00	5,425.00	112.10	93.77	-49.71	-5,559.47	5,723.98	3,745.40	3,576.04	169.36	22.115		
15,600.00	7,870.00	5,425.00	5,425.00	113.69	93.77	-49.71	-5,559.47	5,723.98	3,734.95	3,563.47	171.48	21.781		
15,700.00	7,870.00	5,425.00	5,425.00	115.28	93.77	-49.71	-5,559.47	5,723.98	3,727.15	3,553.54	173.61	21.468		
15,800.00	7,870.00	5,425.00	5,425.00	116.87	93.77	-49.71	-5,559.47	5,723.98	3,722.03	3,546.27	175.76	21.177		
15,900.00	7,870.00	5,425.00	5,425.00	118.47	93.77	-49.71	-5,559.47	5,723.98	3,719.58	3,541.69	177.90	20.909		
15,940.88	7,870.00	5,425.00	5,425.00	119.13	93.77	-49.71	-5,559.47	5,723.98	3,719.36	3,540.59	178.77	20.805 CC		
16,000.00	7,870.00	5,425.00	5,425.00	120.07	93.77	-49.71	-5,559.47	5,723.98	3,719.83	3,539.80	180.03	20.662 ES		
16,100.00	7,870.00	5,425.00	5,425.00	121.68	93.77	-49.71	-5,559.47	5,723.98	3,722.76	3,540.60	182.16	20.437		
16,200.00	7,870.00	5,425.00	5,425.00	123.30	93.77	-49.71	-5,559.47	5,723.98	3,728.37	3,544.11	184.26	20.234		
16,300.00	7,870.00	5,425.00	5,425.00	124.91	93.77	-49.71	-5,559.47	5,723.98	3,736.66	3,550.32	186.34	20.053		
16,400.00	7,870.00	5,425.00	5,425.00	126.53	93.77	-49.71	-5,559.47	5,723.98	3,747.59	3,559.20	188.39	19.893		
16,500.00	7,870.00	5,425.00	5,425.00	128.16	93.77	-49.71	-5,559.47	5,723.98	3,761.15	3,570.75	190.40	19.754		
16,600.00	7,870.00	5,425.00	5,425.00	129.79	93.77	-49.71	-5,559.47	5,723.98	3,777.31	3,584.94	192.37	19.636		
16,700.00	7,870.00	5,425.00	5,425.00	131.42	93.77	-49.71	-5,559.47	5,723.98	3,796.04	3,601.74	194.29	19.538		
16,800.00	7,870.00	5,425.00	5,425.00	133.05	93.77	-49.71	-5,559.47	5,723.98	3,817.29	3,621.13	196.16	19.460		
16,900.00	7,870.00	5,425.00	5,425.00	134.69	93.77	-49.71	-5,559.47	5,723.98	3,841.03	3,643.05	197.98	19.401		
17,000.00	7,870.00	5,425.00	5,425.00	136.33	93.77	-49.71	-5,559.47	5,723.98	3,867.22	3,667.47	199.74	19.361		
17,100.00	7,870.00	5,425.00	5,425.00	137.97	93.77	-49.71	-5,559.47	5,723.98	3,895.79	3,694.35	201.44	19.340		
17,200.00	7,870.00	5,425.00	5,425.00	139.62	93.77	-49.71	-5,559.47	5,723.98	3,926.70	3,723.63	203.08	19.336 SF		
17,300.00	7,870.00	5,425.00	5,425.00	141.27	93.77	-49.71	-5,559.47	5,723.98	3,959.90	3,755.26	204.65	19.350		
17,400.00	7,870.00	5,425.00	5,425.00	142.92	93.77	-49.71	-5,559.47	5,723.98	3,995.33	3,789.18	206.15	19.381		
17,500.00	7,870.00	5,425.00	5,425.00	144.58	93.77	-49.71	-5,559.47	5,723.98	4,032.92	3,825.34	207.59	19.428		
17,600.00	7,870.00	5,425.00	5,425.00	146.23	93.77	-49.71	-5,559.47	5,723.98	4,072.63	3,863.67	208.96	19.490		
17,700.00	7,870.00	5,425.00	5,425.00	147.89	93.77	-49.71	-5,559.47	5,723.98	4,114.38	3,904.12	210.26	19.568		
17,800.00	7,870.00	5,425.00	5,425.00	149.56	93.77	-49.71	-5,559.47	5,723.98	4,158.12	3,946.62	211.50	19.660		
17,900.00	7,870.00	5,425.00	5,425.00	151.22	93.77	-49.71	-5,559.47	5,723.98	4,203.78	3,991.11	212.67	19.767		
18,000.00	7,870.00	5,425.00	5,425.00	152.89	93.77	-49.71	-5,559.47	5,723.98	4,251.30	4,037.53	213.77	19.887		
18,100.00	7,870.00	5,425.00	5,425.00	154.55	93.77	-49.71	-5,559.47	5,723.98	4,300.63	4,085.82	214.81	20.021		
18,200.00	7,870.00	5,425.00	5,425.00	156.22	93.77	-49.71	-5,559.47	5,723.98	4,351.69	4,135.90	215.79	20.166		
18,300.00	7,870.00	5,425.00	5,425.00	157.90	93.77	-49.71	-5,559.47	5,723.98	4,404.44	4,187.73	216.71	20.324		
18,400.00	7,870.00	5,425.00	5,425.00	159.57	93.77	-49.71	-5,559.47	5,723.98	4,458.80	4,241.23	217.57	20.494		
18,500.00	7,870.00	5,425.00	5,425.00	161.25	93.77	-49.71	-5,559.47	5,723.98	4,514.72	4,296.35	218.37	20.675		
18,600.00	7,870.00	5,425.00	5,425.00	162.93	93.77	-49.71	-5,559.47	5,723.98	4,572.15	4,353.03	219.12	20.866		
18,700.00	7,870.00	5,425.00	5,425.00	164.60	93.77	-49.71	-5,559.47	5,723.98	4,631.02	4,411.21	219.81	21.068		
18,797.52	7,870.00	5,425.00	5,425.00	166.24	93.77	-49.71	-5,559.47	5,723.98	4,689.77	4,469.33	220.44	21.274		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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	133.89	-4,237.38	4,404.35	6,111.87					
100.00	100.00	64.00	64.00	0.13	0.50	133.89	-4,237.38	4,404.35	6,111.77	6,111.13	0.64	9,593.367		
200.00	200.00	164.00	164.00	0.49	1.90	133.89	-4,237.38	4,404.35	6,111.77	6,109.37	2.40	2,551.557		
300.00	300.00	264.00	264.00	0.85	3.65	133.89	-4,237.38	4,404.35	6,111.77	6,107.27	4.50	1,358.439		
400.00	400.00	364.00	364.00	1.21	5.39	133.89	-4,237.38	4,404.35	6,111.77	6,105.16	6.60	925.617		
500.00	500.00	464.00	464.00	1.57	7.14	133.89	-4,237.38	4,404.35	6,111.77	6,103.06	8.71	701.960		
600.00	600.00	564.00	564.00	1.93	8.88	133.89	-4,237.38	4,404.35	6,111.77	6,100.96	10.81	565.354		
700.00	700.00	664.00	664.00	2.29	10.63	133.89	-4,237.38	4,404.35	6,111.77	6,098.85	12.91	473.255		
800.00	800.00	764.00	764.00	2.64	12.37	133.89	-4,237.38	4,404.35	6,111.77	6,096.75	15.02	406.960		
900.00	900.00	864.00	864.00	3.00	14.12	133.89	-4,237.38	4,404.35	6,111.77	6,094.64	17.12	356.956		
1,000.00	1,000.00	964.00	964.00	3.36	15.87	133.89	-4,237.38	4,404.35	6,111.77	6,092.54	19.23	317.895		
1,100.00	1,099.98	1,063.98	1,063.98	3.72	17.61	79.29	-4,237.38	4,404.35	6,111.44	6,090.12	21.33	286.580		
1,200.00	1,199.84	1,163.84	1,163.84	4.07	19.35	79.36	-4,237.38	4,404.35	6,110.47	6,087.05	23.42	260.894		
1,300.00	1,299.45	1,263.45	1,263.45	4.43	21.09	79.47	-4,237.38	4,404.35	6,108.86	6,083.35	25.52	239.400		
1,400.00	1,398.70	1,362.70	1,362.70	4.80	22.82	79.63	-4,237.38	4,404.35	6,106.64	6,079.02	27.62	221.131		
1,500.00	1,497.47	1,461.47	1,461.47	5.18	24.55	79.83	-4,237.38	4,404.35	6,103.81	6,074.10	29.72	205.393		
1,600.00	1,595.62	1,559.62	1,559.62	5.57	26.26	80.07	-4,237.38	4,404.35	6,100.42	6,068.59	31.83	191.671		
1,700.00	1,693.06	1,657.06	1,657.06	6.00	27.96	80.35	-4,237.38	4,404.35	6,096.50	6,062.55	33.95	179.583		
1,800.00	1,789.64	1,753.64	1,753.64	6.45	29.65	80.67	-4,237.38	4,404.35	6,092.08	6,056.00	36.08	168.834		
1,900.00	1,885.27	1,849.27	1,849.27	6.94	31.32	81.02	-4,237.38	4,404.35	6,087.22	6,048.99	38.24	159.198		
2,000.00	1,979.82	1,943.82	1,943.82	7.47	32.97	81.41	-4,237.38	4,404.35	6,081.97	6,041.56	40.41	150.499		
2,100.00	2,073.17	2,037.17	2,037.17	8.05	34.60	81.84	-4,237.38	4,404.35	6,076.39	6,033.78	42.61	142.597		
2,200.00	2,165.21	2,129.21	2,129.21	8.67	36.20	82.29	-4,237.38	4,404.35	6,070.54	6,025.70	44.84	135.381		
2,300.00	2,255.84	2,219.84	2,219.84	9.35	37.78	82.77	-4,237.38	4,404.35	6,064.49	6,017.39	47.10	128.761		
2,400.00	2,344.94	2,308.94	2,308.94	10.09	39.34	83.27	-4,237.38	4,404.35	6,058.31	6,008.92	49.39	122.664		
2,500.00	2,432.39	2,403.61	2,403.61	10.89	40.99	83.79	-4,237.38	4,404.35	6,052.08	6,000.24	51.84	116.746		
2,519.29	2,449.07	2,413.07	2,413.07	11.05	41.16	83.90	-4,237.38	4,404.35	6,050.88	5,998.71	52.17	115.994		
2,600.00	2,518.69	2,482.69	2,482.69	11.74	42.37	84.23	-4,237.38	4,404.35	6,045.99	5,991.92	54.07	111.820		
2,700.00	2,604.95	2,568.95	2,568.95	12.62	43.88	84.64	-4,237.38	4,404.35	6,040.32	5,983.87	56.45	107.003		
2,800.00	2,691.22	2,655.22	2,655.22	13.52	45.38	85.06	-4,237.38	4,404.35	6,035.06	5,976.21	58.85	102.548		
2,900.00	2,777.48	2,741.48	2,741.48	14.43	46.89	85.47	-4,237.38	4,404.35	6,030.22	5,968.95	61.27	98.423		
3,000.00	2,863.75	2,827.75	2,827.75	15.35	48.39	85.88	-4,237.38	4,404.35	6,025.81	5,962.11	63.70	94.597		
3,100.00	2,950.01	2,914.01	2,914.01	16.28	49.90	86.30	-4,237.38	4,404.35	6,021.81	5,955.67	66.14	91.044		
3,200.00	3,036.27	3,000.27	3,000.27	17.22	51.40	86.71	-4,237.38	4,404.35	6,018.24	5,949.65	68.59	87.739		
3,300.00	3,122.54	3,086.54	3,086.54	18.17	52.91	87.13	-4,237.38	4,404.35	6,015.09	5,944.04	71.05	84.658		
3,400.00	3,208.80	3,172.80	3,172.80	19.13	54.42	87.54	-4,237.38	4,404.35	6,012.37	5,938.85	73.52	81.782		
3,500.00	3,295.07	3,259.07	3,259.07	20.09	55.92	87.96	-4,237.38	4,404.35	6,010.06	5,934.08	75.99	79.092		
3,600.00	3,381.33	3,345.33	3,345.33	21.05	57.43	88.37	-4,237.38	4,404.35	6,008.19	5,929.73	78.46	76.573		
3,700.00	3,467.59	3,431.59	3,431.59	22.02	58.93	88.79	-4,237.38	4,404.35	6,006.74	5,925.80	80.94	74.210		
3,800.00	3,553.86	3,517.86	3,517.86	22.99	60.44	89.21	-4,237.38	4,404.35	6,005.71	5,922.29	83.42	71.990		
3,900.00	3,640.12	3,604.12	3,604.12	23.97	61.94	89.62	-4,237.38	4,404.35	6,005.11	5,919.21	85.91	69.901		
3,990.55	3,718.23	3,682.23	3,682.23	24.85	63.31	90.00	-4,237.38	4,404.35	6,004.94	5,916.78	88.16	68.114		
4,000.00	3,726.38	3,709.62	3,709.62	24.95	63.79	90.04	-4,237.38	4,404.35	6,004.94	5,916.21	88.73	67.676		
4,100.00	3,812.65	3,776.65	3,776.65	25.93	64.96	90.46	-4,237.38	4,404.35	6,005.20	5,914.31	90.88	66.076		
4,200.00	3,898.91	3,862.91	3,862.91	26.91	66.46	90.87	-4,237.38	4,404.35	6,005.87	5,912.50	93.37	64.323		
4,300.00	3,985.18	3,949.18	3,949.18	27.90	67.97	91.29	-4,237.38	4,404.35	6,006.98	5,911.12	95.86	62.664		
4,400.00	4,071.44	4,035.44	4,035.44	28.88	69.47	91.70	-4,237.38	4,404.35	6,008.51	5,910.16	98.35	61.093		
4,500.00	4,157.70	4,121.70	4,121.70	29.87	70.98	92.12	-4,237.38	4,404.35	6,010.47	5,909.63	100.84	59.605		
4,600.00	4,243.97	4,207.97	4,207.97	30.86	72.48	92.54	-4,237.38	4,404.35	6,012.85	5,909.52	103.33	58.192		
4,700.00	4,330.23	4,305.77	4,294.23	31.85	74.19	92.95	-4,237.38	4,404.35	6,015.65	5,909.64	106.02	56.743		
4,800.00	4,416.49	4,380.49	4,380.49	32.84	75.49	93.37	-4,237.38	4,404.35	6,018.88	5,910.58	108.30	55.575		
4,900.00	4,502.76	4,466.76	4,466.76	33.84	77.00	93.78	-4,237.38	4,404.35	6,022.54	5,911.75	110.79	54.361		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
5,000.00	4,589.02	4,553.02	4,553.02	34.83	78.51	94.20	-4,237.38	4,404.35	6,026.61	5,913.34	113.27	53.205		
5,100.00	4,675.29	4,639.29	4,639.29	35.82	80.01	94.61	-4,237.38	4,404.35	6,031.11	5,915.35	115.75	52.103		
5,200.00	4,761.55	4,725.55	4,725.55	36.82	81.52	95.02	-4,237.38	4,404.35	6,036.02	5,917.79	118.23	51.052		
5,300.00	4,847.81	4,811.81	4,811.81	37.82	83.02	95.44	-4,237.38	4,404.35	6,041.36	5,920.65	120.71	50.048		
5,400.00	4,934.08	4,901.92	4,898.08	38.81	84.59	95.85	-4,237.38	4,404.35	6,047.11	5,923.86	123.25	49.063		
5,500.00	5,020.34	4,984.34	4,984.34	39.81	86.03	96.26	-4,237.38	4,404.35	6,053.29	5,927.63	125.66	48.173		
5,600.00	5,106.60	5,070.60	5,070.60	40.81	87.54	96.67	-4,237.38	4,404.35	6,059.87	5,931.75	128.13	47.296		
5,700.00	5,192.87	5,156.87	5,156.87	41.81	89.04	97.08	-4,237.38	4,404.35	6,066.88	5,936.28	130.59	46.456		
5,800.00	5,279.13	5,243.13	5,243.13	42.81	90.55	97.49	-4,237.38	4,404.35	6,074.29	5,941.23	133.06	45.652		
5,900.00	5,365.40	5,329.40	5,329.40	43.81	92.06	97.90	-4,237.38	4,404.35	6,082.12	5,946.60	135.52	44.881		
6,000.00	5,451.66	5,415.66	5,415.66	44.81	93.56	98.31	-4,237.38	4,404.35	6,090.36	5,952.38	137.97	44.142		
6,100.00	5,537.92	5,450.00	5,450.00	45.81	94.16	98.47	-4,237.38	4,404.35	6,099.22	5,959.72	139.51	43.720		
6,200.00	5,624.19	5,450.00	5,450.00	46.81	94.16	98.47	-4,237.38	4,404.35	6,109.62	5,969.21	140.40	43.515		
6,300.00	5,710.45	5,450.00	5,450.00	47.81	94.16	98.47	-4,237.38	4,404.35	6,121.63	5,980.36	141.27	43.333		
6,400.00	5,796.72	5,450.00	5,450.00	48.81	94.16	98.47	-4,237.38	4,404.35	6,135.24	5,993.14	142.10	43.176		
6,500.00	5,882.98	5,450.00	5,450.00	49.81	94.16	98.47	-4,237.38	4,404.35	6,150.46	6,007.56	142.90	43.041		
6,600.00	5,969.24	5,450.00	5,450.00	50.82	94.16	98.47	-4,237.38	4,404.35	6,167.25	6,023.59	143.67	42.928		
6,700.00	6,055.51	5,450.00	5,450.00	51.82	94.16	98.47	-4,237.38	4,404.35	6,185.62	6,041.22	144.40	42.837		
6,800.00	6,141.77	5,450.00	5,450.00	52.82	94.16	98.47	-4,237.38	4,404.35	6,205.55	6,060.45	145.10	42.768		
6,900.00	6,228.03	5,450.00	5,450.00	53.83	94.16	98.47	-4,237.38	4,404.35	6,227.02	6,081.25	145.76	42.720		
7,000.00	6,314.30	5,450.00	5,450.00	54.83	94.16	98.47	-4,237.38	4,404.35	6,250.01	6,103.61	146.40	42.692		
7,100.00	6,400.56	5,450.00	5,450.00	55.83	94.16	98.47	-4,237.38	4,404.35	6,274.51	6,127.51	147.00	42.684		
7,200.00	6,486.83	5,450.00	5,450.00	56.84	94.16	98.47	-4,237.38	4,404.35	6,300.51	6,152.94	147.57	42.696		
7,300.00	6,573.09	5,450.00	5,450.00	57.84	94.16	98.47	-4,237.38	4,404.35	6,327.98	6,179.87	148.11	42.726		
7,400.00	6,659.35	5,450.00	5,450.00	58.84	94.16	98.47	-4,237.38	4,404.35	6,356.90	6,208.29	148.61	42.775		
7,500.00	6,745.62	5,450.00	5,450.00	59.85	94.16	98.47	-4,237.38	4,404.35	6,387.26	6,238.18	149.09	42.843		
7,600.00	6,831.88	5,450.00	5,450.00	60.85	94.16	98.47	-4,237.38	4,404.35	6,419.04	6,269.51	149.53	42.928		
7,700.00	6,918.14	5,450.00	5,450.00	61.86	94.16	98.47	-4,237.38	4,404.35	6,452.20	6,302.26	149.95	43.030		
7,800.00	7,004.41	5,450.00	5,450.00	62.86	94.16	98.47	-4,237.38	4,404.35	6,486.74	6,336.41	150.33	43.149		
7,900.00	7,090.67	5,450.00	5,450.00	63.87	94.16	98.47	-4,237.38	4,404.35	6,522.63	6,371.94	150.69	43.284		
8,000.00	7,176.94	5,450.00	5,450.00	64.87	94.16	98.47	-4,237.38	4,404.35	6,559.85	6,408.83	151.02	43.436		
8,027.52	7,200.68	5,450.00	5,450.00	65.15	94.16	98.47	-4,237.38	4,404.35	6,570.32	6,419.21	151.11	43.480		
8,050.00	7,220.18	5,450.00	5,450.00	65.37	94.16	95.42	-4,237.38	4,404.35	6,578.57	6,427.40	151.18	43.516		
8,100.00	7,264.25	5,450.00	5,450.00	65.85	94.16	87.54	-4,237.38	4,404.35	6,594.43	6,443.12	151.30	43.584		
8,150.00	7,308.99	5,450.00	5,450.00	66.28	94.16	78.34	-4,237.38	4,404.35	6,606.76	6,455.35	151.40	43.637		
8,200.00	7,354.07	5,450.00	5,450.00	66.67	94.16	68.30	-4,237.38	4,404.35	6,615.49	6,464.02	151.47	43.676		
8,250.00	7,399.14	5,450.00	5,450.00	67.02	94.16	58.14	-4,237.38	4,404.35	6,620.56	6,469.07	151.49	43.702		
8,300.00	7,443.85	5,450.00	5,450.00	67.32	94.16	48.57	-4,237.38	4,404.35	6,621.96	6,470.48	151.48	43.716		
8,350.00	7,487.88	5,450.00	5,450.00	67.56	94.16	40.04	-4,237.38	4,404.35	6,619.67	6,468.25	151.42	43.716		
8,400.00	7,530.87	5,450.00	5,450.00	67.75	94.16	32.70	-4,237.38	4,404.35	6,613.71	6,462.37	151.33	43.703		
8,450.00	7,572.51	5,450.00	5,450.00	67.90	94.16	26.47	-4,237.38	4,404.35	6,604.10	6,452.90	151.20	43.678		
8,500.00	7,612.48	5,450.00	5,450.00	68.00	94.16	21.18	-4,237.38	4,404.35	6,590.91	6,439.88	151.03	43.638		
8,550.00	7,650.47	5,450.00	5,450.00	68.05	94.16	16.61	-4,237.38	4,404.35	6,574.22	6,423.38	150.84	43.585		
8,600.00	7,686.20	5,450.00	5,450.00	68.06	94.16	12.58	-4,237.38	4,404.35	6,554.12	6,403.51	150.61	43.518		
8,650.00	7,719.39	5,450.00	5,450.00	68.03	94.16	8.93	-4,237.38	4,404.35	6,530.75	6,380.39	150.35	43.436		
8,700.00	7,749.79	5,450.00	5,450.00	67.97	94.16	5.49	-4,237.38	4,404.35	6,504.23	6,354.16	150.08	43.339		
8,750.00	7,777.17	5,450.00	5,450.00	67.87	94.16	2.13	-4,237.38	4,404.35	6,474.75	6,324.97	149.78	43.228		
8,800.00	7,801.32	5,450.00	5,450.00	67.74	94.16	-1.28	-4,237.38	4,404.35	6,442.48	6,293.00	149.47	43.101		
8,850.00	7,822.06	5,450.00	5,450.00	67.59	94.16	-4.89	-4,237.38	4,404.35	6,407.62	6,258.47	149.16	42.959		
8,900.00	7,839.23	5,450.00	5,450.00	67.41	94.16	-8.86	-4,237.38	4,404.35	6,370.42	6,221.58	148.83	42.802		
8,950.00	7,852.69	5,450.00	5,450.00	67.22	94.16	-13.38	-4,237.38	4,404.35	6,331.09	6,182.58	148.51	42.630		
9,000.00	7,862.35	5,450.00	5,450.00	67.00	94.16	-18.68	-4,237.38	4,404.35	6,289.92	6,141.73	148.19	42.444		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	5,450.00	5,450.00	66.78	94.16	-25.01	-4,237.38	4,404.35	6,247.18	6,099.30	147.89	42.243		
9,098.65	7,870.00	5,450.00	5,450.00	66.55	94.16	-32.40	-4,237.38	4,404.35	6,204.37	6,056.77	147.60	42.035		
9,100.00	7,870.00	5,450.00	5,450.00	66.55	94.16	-32.40	-4,237.38	4,404.35	6,203.17	6,055.57	147.59	42.029		
9,200.00	7,870.00	5,450.00	5,450.00	66.09	94.16	-32.40	-4,237.38	4,404.35	6,114.30	5,967.29	147.01	41.591		
9,300.00	7,870.00	5,450.00	5,450.00	65.65	94.16	-32.40	-4,237.38	4,404.35	6,025.78	5,879.37	146.41	41.156		
9,400.00	7,870.00	5,450.00	5,450.00	65.24	94.16	-32.40	-4,237.38	4,404.35	5,937.62	5,791.82	145.80	40.725		
9,500.00	7,870.00	5,450.00	5,450.00	64.85	94.16	-32.40	-4,237.38	4,404.35	5,849.85	5,704.68	145.17	40.297		
9,600.00	7,870.00	5,450.00	5,450.00	64.48	94.16	-32.40	-4,237.38	4,404.35	5,762.47	5,617.95	144.52	39.873		
9,700.00	7,870.00	5,450.00	5,450.00	64.13	94.16	-32.40	-4,237.38	4,404.35	5,675.51	5,531.65	143.86	39.453		
9,800.00	7,870.00	5,450.00	5,450.00	63.80	94.16	-32.40	-4,237.38	4,404.35	5,588.98	5,445.81	143.18	39.036		
9,900.00	7,870.00	5,450.00	5,450.00	63.50	94.16	-32.40	-4,237.38	4,404.35	5,502.92	5,360.44	142.48	38.623		
10,000.00	7,870.00	5,450.00	5,450.00	63.22	94.16	-32.40	-4,237.38	4,404.35	5,417.33	5,275.57	141.76	38.214		
10,100.00	7,870.00	5,450.00	5,450.00	62.96	94.16	-32.40	-4,237.38	4,404.35	5,332.24	5,191.21	141.03	37.809		
10,200.00	7,870.00	5,450.00	5,450.00	62.72	94.16	-32.40	-4,237.38	4,404.35	5,247.68	5,107.40	140.28	37.409		
10,300.00	7,870.00	5,450.00	5,450.00	62.50	94.16	-32.40	-4,237.38	4,404.35	5,163.67	5,024.16	139.51	37.013		
10,400.00	7,870.00	5,450.00	5,450.00	62.31	94.16	-32.40	-4,237.38	4,404.35	5,080.24	4,941.51	138.72	36.621		
10,500.00	7,870.00	5,450.00	5,450.00	62.15	94.16	-32.40	-4,237.38	4,404.35	4,997.42	4,859.49	137.92	36.234		
10,600.00	7,870.00	5,450.00	5,450.00	62.01	94.16	-32.40	-4,237.38	4,404.35	4,915.23	4,778.13	137.10	35.851		
10,700.00	7,870.00	5,450.00	5,450.00	61.90	94.16	-32.40	-4,237.38	4,404.35	4,833.72	4,697.45	136.27	35.472		
10,800.00	7,870.00	5,450.00	5,450.00	61.82	94.16	-32.40	-4,237.38	4,404.35	4,752.92	4,617.50	135.42	35.098		
10,900.00	7,870.00	5,450.00	5,450.00	61.78	94.16	-32.40	-4,237.38	4,404.35	4,672.86	4,538.30	134.55	34.728		
11,000.00	7,870.00	5,450.00	5,450.00	61.77	94.16	-32.40	-4,237.38	4,404.35	4,593.57	4,459.90	133.68	34.363		
11,100.00	7,870.00	5,450.00	5,450.00	61.81	94.16	-32.40	-4,237.38	4,404.35	4,515.12	4,382.33	132.79	34.002		
11,200.00	7,870.00	5,450.00	5,450.00	61.90	94.16	-32.40	-4,237.38	4,404.35	4,437.52	4,305.63	131.89	33.645		
11,300.00	7,870.00	5,450.00	5,450.00	62.03	94.16	-32.40	-4,237.38	4,404.35	4,360.85	4,229.85	130.99	33.291		
11,400.00	7,870.00	5,450.00	5,450.00	62.23	94.16	-32.40	-4,237.38	4,404.35	4,285.13	4,155.04	130.08	32.941		
11,500.00	7,870.00	5,450.00	5,450.00	62.50	94.16	-32.40	-4,237.38	4,404.35	4,210.42	4,081.25	129.17	32.595		
11,600.00	7,870.00	5,450.00	5,450.00	62.84	94.16	-32.40	-4,237.38	4,404.35	4,136.79	4,008.52	128.27	32.251		
11,700.00	7,870.00	5,450.00	5,450.00	63.25	94.16	-32.40	-4,237.38	4,404.35	4,064.28	3,936.91	127.37	31.909		
11,800.00	7,870.00	5,450.00	5,450.00	63.76	94.16	-32.40	-4,237.38	4,404.35	3,992.96	3,866.47	126.48	31.569		
11,900.00	7,870.00	5,450.00	5,450.00	64.34	94.16	-32.40	-4,237.38	4,404.35	3,922.89	3,797.28	125.61	31.230		
12,000.00	7,870.00	5,450.00	5,450.00	65.01	94.16	-32.40	-4,237.38	4,404.35	3,854.14	3,729.38	124.76	30.891		
12,100.00	7,870.00	5,450.00	5,450.00	65.77	94.16	-32.40	-4,237.38	4,404.35	3,786.79	3,662.84	123.95	30.552		
12,200.00	7,870.00	5,450.00	5,450.00	66.61	94.16	-32.40	-4,237.38	4,404.35	3,720.90	3,597.74	123.16	30.212		
12,300.00	7,870.00	5,450.00	5,450.00	67.51	94.16	-32.40	-4,237.38	4,404.35	3,656.56	3,534.15	122.42	29.869		
12,400.00	7,870.00	5,450.00	5,450.00	68.49	94.16	-32.40	-4,237.38	4,404.35	3,593.86	3,472.13	121.73	29.524		
12,500.00	7,870.00	5,450.00	5,450.00	69.52	94.16	-32.40	-4,237.38	4,404.35	3,532.87	3,411.78	121.09	29.176		
12,600.00	7,870.00	5,450.00	5,450.00	70.61	94.16	-32.40	-4,237.38	4,404.35	3,473.69	3,353.17	120.52	28.823		
12,700.00	7,870.00	5,450.00	5,450.00	71.75	94.16	-32.40	-4,237.38	4,404.35	3,416.41	3,296.39	120.02	28.465		
12,800.00	7,870.00	5,450.00	5,450.00	72.93	94.16	-32.40	-4,237.38	4,404.35	3,361.13	3,241.53	119.60	28.102		
12,900.00	7,870.00	5,450.00	5,450.00	74.14	94.16	-32.40	-4,237.38	4,404.35	3,307.95	3,188.68	119.27	27.734		
13,000.00	7,870.00	5,450.00	5,450.00	75.39	94.16	-32.40	-4,237.38	4,404.35	3,256.98	3,137.94	119.04	27.360		
13,100.00	7,870.00	5,450.00	5,450.00	76.67	94.16	-32.40	-4,237.38	4,404.35	3,208.31	3,089.40	118.91	26.981		
13,200.00	7,870.00	5,450.00	5,450.00	77.98	94.16	-32.40	-4,237.38	4,404.35	3,162.06	3,043.17	118.88	26.598		
13,300.00	7,870.00	5,450.00	5,450.00	79.31	94.16	-32.40	-4,237.38	4,404.35	3,118.32	2,999.35	118.97	26.210		
13,400.00	7,870.00	5,450.00	5,450.00	80.67	94.16	-32.40	-4,237.38	4,404.35	3,077.22	2,958.04	119.18	25.819		
13,500.00	7,870.00	5,450.00	5,450.00	82.04	94.16	-32.40	-4,237.38	4,404.35	3,038.86	2,919.34	119.52	25.426		
13,600.00	7,870.00	5,450.00	5,450.00	83.43	94.16	-32.40	-4,237.38	4,404.35	3,003.33	2,883.35	119.98	25.031		
13,700.00	7,870.00	5,450.00	5,450.00	84.84	94.16	-32.40	-4,237.38	4,404.35	2,970.75	2,850.16	120.58	24.637		
13,800.00	7,870.00	5,450.00	5,450.00	86.27	94.16	-32.40	-4,237.38	4,404.35	2,941.21	2,819.89	121.32	24.244		
13,900.00	7,870.00	5,450.00	5,450.00	87.71	94.16	-32.40	-4,237.38	4,404.35	2,914.80	2,792.60	122.20	23.853		
14,000.00	7,870.00	5,450.00	5,450.00	89.16	94.16	-32.40	-4,237.38	4,404.35	2,891.61	2,768.39	123.22	23.468		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,450.00	5,450.00	90.63	94.16	-32.40	-4,237.38	4,404.35	2,871.71	2,747.33	124.38	23.088		
14,200.00	7,870.00	5,450.00	5,450.00	92.10	94.16	-32.40	-4,237.38	4,404.35	2,855.19	2,729.49	125.69	22.716		
14,300.00	7,870.00	5,450.00	5,450.00	93.59	94.16	-32.40	-4,237.38	4,404.35	2,842.08	2,714.94	127.15	22.353		
14,400.00	7,870.00	5,450.00	5,450.00	95.09	94.16	-32.40	-4,237.38	4,404.35	2,832.45	2,703.71	128.74	22.001		
14,500.00	7,870.00	5,450.00	5,450.00	96.60	94.16	-32.40	-4,237.38	4,404.35	2,826.33	2,695.85	130.47	21.662		
14,600.00	7,870.00	5,450.00	5,450.00	98.11	94.16	-32.40	-4,237.38	4,404.35	2,823.73	2,691.40	132.33	21.338		
14,623.26	7,870.00	5,450.00	5,450.00	98.47	94.16	-32.40	-4,237.38	4,404.35	2,823.64	2,690.86	132.78	21.265 CC		
14,700.00	7,870.00	5,450.00	5,450.00	99.64	94.16	-32.40	-4,237.38	4,404.35	2,824.68	2,690.37	134.31	21.031 ES		
14,800.00	7,870.00	5,450.00	5,450.00	101.17	94.16	-32.40	-4,237.38	4,404.35	2,829.17	2,692.77	136.39	20.743		
14,900.00	7,870.00	5,450.00	5,450.00	102.71	94.16	-32.40	-4,237.38	4,404.35	2,837.17	2,698.61	138.56	20.476		
15,000.00	7,870.00	5,450.00	5,450.00	104.26	94.16	-32.40	-4,237.38	4,404.35	2,848.66	2,707.86	140.81	20.231		
15,100.00	7,870.00	5,450.00	5,450.00	105.82	94.16	-32.40	-4,237.38	4,404.35	2,863.60	2,720.50	143.10	20.011		
15,200.00	7,870.00	5,450.00	5,450.00	107.38	94.16	-32.40	-4,237.38	4,404.35	2,881.94	2,736.50	145.44	19.816		
15,300.00	7,870.00	5,450.00	5,450.00	108.95	94.16	-32.40	-4,237.38	4,404.35	2,903.60	2,755.82	147.79	19.647		
15,400.00	7,870.00	5,450.00	5,450.00	110.52	94.16	-32.40	-4,237.38	4,404.35	2,928.53	2,778.39	150.13	19.506		
15,500.00	7,870.00	5,450.00	5,450.00	112.10	94.16	-32.40	-4,237.38	4,404.35	2,956.62	2,804.16	152.46	19.393		
15,600.00	7,870.00	5,450.00	5,450.00	113.69	94.16	-32.40	-4,237.38	4,404.35	2,987.80	2,833.05	154.75	19.307		
15,700.00	7,870.00	5,450.00	5,450.00	115.28	94.16	-32.40	-4,237.38	4,404.35	3,021.97	2,864.98	157.00	19.249		
15,800.00	7,870.00	5,450.00	5,450.00	116.87	94.16	-32.40	-4,237.38	4,404.35	3,059.03	2,899.85	159.18	19.217		
15,900.00	7,870.00	5,450.00	5,450.00	118.47	94.16	-32.40	-4,237.38	4,404.35	3,098.87	2,937.58	161.29	19.213 SF		
16,000.00	7,870.00	5,450.00	5,450.00	120.07	94.16	-32.40	-4,237.38	4,404.35	3,141.39	2,978.07	163.33	19.233		
16,100.00	7,870.00	5,450.00	5,450.00	121.68	94.16	-32.40	-4,237.38	4,404.35	3,186.49	3,021.21	165.28	19.279		
16,200.00	7,870.00	5,450.00	5,450.00	123.30	94.16	-32.40	-4,237.38	4,404.35	3,234.05	3,066.90	167.14	19.349		
16,300.00	7,870.00	5,450.00	5,450.00	124.91	94.16	-32.40	-4,237.38	4,404.35	3,283.96	3,115.05	168.92	19.441		
16,400.00	7,870.00	5,450.00	5,450.00	126.53	94.16	-32.40	-4,237.38	4,404.35	3,336.13	3,165.53	170.60	19.556		
16,500.00	7,870.00	5,450.00	5,450.00	128.16	94.16	-32.40	-4,237.38	4,404.35	3,390.44	3,218.26	172.19	19.691		
16,600.00	7,870.00	5,450.00	5,450.00	129.79	94.16	-32.40	-4,237.38	4,404.35	3,446.80	3,273.12	173.68	19.845		
16,700.00	7,870.00	5,450.00	5,450.00	131.42	94.16	-32.40	-4,237.38	4,404.35	3,505.11	3,330.02	175.09	20.019		
16,800.00	7,870.00	5,450.00	5,450.00	133.05	94.16	-32.40	-4,237.38	4,404.35	3,565.27	3,388.86	176.41	20.210		
16,900.00	7,870.00	5,450.00	5,450.00	134.69	94.16	-32.40	-4,237.38	4,404.35	3,627.19	3,449.54	177.65	20.417		
17,000.00	7,870.00	5,450.00	5,450.00	136.33	94.16	-32.40	-4,237.38	4,404.35	3,690.78	3,511.97	178.81	20.641		
17,100.00	7,870.00	5,450.00	5,450.00	137.97	94.16	-32.40	-4,237.38	4,404.35	3,755.96	3,576.07	179.89	20.879		
17,200.00	7,870.00	5,450.00	5,450.00	139.62	94.16	-32.40	-4,237.38	4,404.35	3,822.64	3,641.74	180.90	21.132		
17,300.00	7,870.00	5,450.00	5,450.00	141.27	94.16	-32.40	-4,237.38	4,404.35	3,890.74	3,708.91	181.83	21.397		
17,400.00	7,870.00	5,450.00	5,450.00	142.92	94.16	-32.40	-4,237.38	4,404.35	3,960.21	3,777.50	182.71	21.675		
17,500.00	7,870.00	5,450.00	5,450.00	144.58	94.16	-32.40	-4,237.38	4,404.35	4,030.95	3,847.44	183.51	21.965		
17,600.00	7,870.00	5,450.00	5,450.00	146.23	94.16	-32.40	-4,237.38	4,404.35	4,102.92	3,918.65	184.27	22.266		
17,700.00	7,870.00	5,450.00	5,450.00	147.89	94.16	-32.40	-4,237.38	4,404.35	4,176.04	3,991.08	184.96	22.578		
17,800.00	7,870.00	5,450.00	5,450.00	149.56	94.16	-32.40	-4,237.38	4,404.35	4,250.25	4,064.64	185.61	22.899		
17,900.00	7,870.00	5,450.00	5,450.00	151.22	94.16	-32.40	-4,237.38	4,404.35	4,325.50	4,139.30	186.20	23.230		
18,000.00	7,870.00	5,450.00	5,450.00	152.89	94.16	-32.40	-4,237.38	4,404.35	4,401.74	4,214.99	186.76	23.569		
18,100.00	7,870.00	5,450.00	5,450.00	154.55	94.16	-32.40	-4,237.38	4,404.35	4,478.92	4,291.65	187.27	23.917		
18,200.00	7,870.00	5,450.00	5,450.00	156.22	94.16	-32.40	-4,237.38	4,404.35	4,556.98	4,369.24	187.74	24.273		
18,300.00	7,870.00	5,450.00	5,450.00	157.90	94.16	-32.40	-4,237.38	4,404.35	4,635.88	4,447.70	188.18	24.636		
18,400.00	7,870.00	5,450.00	5,450.00	159.57	94.16	-32.40	-4,237.38	4,404.35	4,715.58	4,527.01	188.58	25.006		
18,500.00	7,870.00	5,450.00	5,450.00	161.25	94.16	-32.40	-4,237.38	4,404.35	4,796.05	4,607.10	188.95	25.383		
18,600.00	7,870.00	5,450.00	5,450.00	162.93	94.16	-32.40	-4,237.38	4,404.35	4,877.24	4,687.95	189.29	25.766		
18,700.00	7,870.00	5,450.00	5,450.00	164.60	94.16	-32.40	-4,237.38	4,404.35	4,959.11	4,769.51	189.60	26.155		
18,797.52	7,870.00	5,450.00	5,450.00	166.24	94.16	-32.40	-4,237.38	4,404.35	5,039.58	4,849.70	189.89	26.540		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	141.61	-5,559.74	4,404.59	7,093.12					
100.00	100.00	65.00	65.00	0.13	0.51	141.61	-5,559.74	4,404.59	7,093.03	7,092.39	0.64	N/A		
200.00	200.00	165.00	165.00	0.49	1.92	141.61	-5,559.74	4,404.59	7,093.03	7,090.62	2.41	2,939.798		
300.00	300.00	265.00	265.00	0.85	3.67	141.61	-5,559.74	4,404.59	7,093.03	7,088.52	4.52	1,570.449		
400.00	400.00	365.00	365.00	1.21	5.41	141.61	-5,559.74	4,404.59	7,093.03	7,086.41	6.62	1,071.396		
500.00	500.00	465.00	465.00	1.57	7.16	141.61	-5,559.74	4,404.59	7,093.03	7,084.31	8.72	813.033		
600.00	600.00	565.00	565.00	1.93	8.90	141.61	-5,559.74	4,404.59	7,093.03	7,082.21	10.83	655.066		
700.00	700.00	665.00	665.00	2.29	10.65	141.61	-5,559.74	4,404.59	7,093.03	7,080.10	12.93	548.497		
800.00	800.00	765.00	765.00	2.64	12.39	141.61	-5,559.74	4,404.59	7,093.03	7,078.00	15.04	471.750		
900.00	900.00	865.00	865.00	3.00	14.14	141.61	-5,559.74	4,404.59	7,093.03	7,075.89	17.14	413.844		
1,000.00	1,000.00	965.00	965.00	3.36	15.88	141.61	-5,559.74	4,404.59	7,093.03	7,073.79	19.24	368.600		
1,100.00	1,099.98	1,064.98	1,064.98	3.72	17.63	87.01	-5,559.74	4,404.59	7,092.94	7,071.60	21.34	332.331		
1,200.00	1,199.84	1,164.84	1,164.84	4.07	19.37	87.05	-5,559.74	4,404.59	7,092.67	7,069.23	23.44	302.600		
1,300.00	1,299.45	1,264.45	1,264.45	4.43	21.11	87.13	-5,559.74	4,404.59	7,092.23	7,066.69	25.54	277.737		
1,400.00	1,398.70	1,363.70	1,363.70	4.80	22.84	87.24	-5,559.74	4,404.59	7,091.62	7,063.99	27.63	256.620		
1,500.00	1,497.47	1,462.47	1,462.47	5.18	24.56	87.38	-5,559.74	4,404.59	7,090.88	7,061.14	29.74	238.442		
1,600.00	1,595.62	1,560.62	1,560.62	5.57	26.28	87.55	-5,559.74	4,404.59	7,090.02	7,058.17	31.85	222.605		
1,700.00	1,693.06	1,658.06	1,658.06	6.00	27.98	87.75	-5,559.74	4,404.59	7,089.08	7,055.10	33.97	208.665		
1,800.00	1,789.64	1,754.64	1,754.64	6.45	29.66	87.97	-5,559.74	4,404.59	7,088.07	7,051.96	36.11	196.280		
1,900.00	1,885.27	1,850.27	1,850.27	6.94	31.33	88.22	-5,559.74	4,404.59	7,087.06	7,048.79	38.27	185.188		
2,000.00	1,979.82	1,944.82	1,944.82	7.47	32.98	88.48	-5,559.74	4,404.59	7,086.07	7,045.62	40.45	175.184		
2,100.00	2,073.17	2,038.17	2,038.17	8.05	34.61	88.77	-5,559.74	4,404.59	7,085.15	7,042.49	42.65	166.106		
2,200.00	2,165.21	2,130.21	2,130.21	8.67	36.22	89.08	-5,559.74	4,404.59	7,084.35	7,039.47	44.89	157.824		
2,300.00	2,255.84	2,220.84	2,220.84	9.35	37.80	89.40	-5,559.74	4,404.59	7,083.74	7,036.58	47.15	150.235		
2,400.00	2,344.94	2,309.94	2,309.94	10.09	39.36	89.74	-5,559.74	4,404.59	7,083.35	7,033.91	49.45	143.253		
2,476.76	2,412.23	2,377.23	2,377.23	10.71	40.53	90.00	-5,559.74	4,404.59	7,083.26	7,032.02	51.24	138.249		
2,500.00	2,432.39	2,402.61	2,397.39	10.89	40.97	90.08	-5,559.74	4,404.59	7,083.27	7,031.40	51.87	136.570		
2,519.29	2,449.07	2,414.07	2,414.07	11.05	41.17	90.15	-5,559.74	4,404.59	7,083.29	7,031.06	52.23	135.625		
2,600.00	2,518.69	2,483.69	2,483.69	11.74	42.39	90.43	-5,559.74	4,404.59	7,083.53	7,029.40	54.13	130.856		
2,700.00	2,604.95	2,569.95	2,569.95	12.62	43.89	90.79	-5,559.74	4,404.59	7,084.15	7,027.64	56.51	125.351		
2,800.00	2,691.22	2,656.22	2,656.22	13.52	45.40	91.14	-5,559.74	4,404.59	7,085.14	7,026.22	58.92	120.260		
2,900.00	2,777.48	2,742.48	2,742.48	14.43	46.91	91.49	-5,559.74	4,404.59	7,086.48	7,025.15	61.33	115.546		
3,000.00	2,863.75	2,828.75	2,828.75	15.35	48.41	91.84	-5,559.74	4,404.59	7,088.19	7,024.43	63.76	111.174		
3,100.00	2,950.01	2,915.01	2,915.01	16.28	49.92	92.20	-5,559.74	4,404.59	7,090.26	7,024.06	66.19	107.112		
3,200.00	3,036.27	3,001.27	3,001.27	17.22	51.42	92.55	-5,559.74	4,404.59	7,092.68	7,024.04	68.64	103.333		
3,300.00	3,122.54	3,087.54	3,087.54	18.17	52.93	92.90	-5,559.74	4,404.59	7,095.47	7,024.38	71.09	99.809		
3,400.00	3,208.80	3,173.80	3,173.80	19.13	54.43	93.25	-5,559.74	4,404.59	7,098.62	7,025.07	73.55	96.519		
3,500.00	3,295.07	3,260.07	3,260.07	20.09	55.94	93.60	-5,559.74	4,404.59	7,102.12	7,026.12	76.01	93.441		
3,600.00	3,381.33	3,346.33	3,346.33	21.05	57.44	93.96	-5,559.74	4,404.59	7,105.99	7,027.52	78.47	90.557		
3,700.00	3,467.59	3,432.59	3,432.59	22.02	58.95	94.31	-5,559.74	4,404.59	7,110.21	7,029.27	80.94	87.850		
3,800.00	3,553.86	3,518.86	3,518.86	22.99	60.46	94.66	-5,559.74	4,404.59	7,114.78	7,031.38	83.40	85.305		
3,900.00	3,640.12	3,605.12	3,605.12	23.97	61.96	95.01	-5,559.74	4,404.59	7,119.72	7,033.85	85.87	82.910		
4,000.00	3,726.38	3,708.62	3,691.38	24.95	63.77	95.36	-5,559.74	4,404.59	7,125.01	7,036.37	88.64	80.378		
4,100.00	3,812.65	3,777.65	3,777.65	25.93	64.97	95.71	-5,559.74	4,404.59	7,130.65	7,039.84	90.81	78.520		
4,200.00	3,898.91	3,863.91	3,863.91	26.91	66.48	96.06	-5,559.74	4,404.59	7,136.65	7,043.37	93.28	76.504		
4,300.00	3,985.18	3,950.18	3,950.18	27.90	67.98	96.41	-5,559.74	4,404.59	7,143.01	7,047.25	95.75	74.597		
4,400.00	4,071.44	4,036.44	4,036.44	28.88	69.49	96.75	-5,559.74	4,404.59	7,149.71	7,051.49	98.22	72.789		
4,500.00	4,157.70	4,122.70	4,122.70	29.87	70.99	97.10	-5,559.74	4,404.59	7,156.77	7,056.07	100.69	71.075		
4,600.00	4,243.97	4,208.97	4,208.97	30.86	72.50	97.45	-5,559.74	4,404.59	7,164.17	7,061.01	103.16	69.446		
4,700.00	4,330.23	4,304.77	4,295.23	31.85	74.17	97.80	-5,559.74	4,404.59	7,171.93	7,066.13	105.79	67.791		
4,800.00	4,416.49	4,381.49	4,381.49	32.84	75.51	98.14	-5,559.74	4,404.59	7,180.03	7,071.94	108.09	66.424		
4,900.00	4,502.76	4,467.76	4,467.76	33.84	77.02	98.49	-5,559.74	4,404.59	7,188.48	7,077.92	110.56	65.021		

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

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,589.02	4,554.02	4,554.02	34.83	78.52	98.83	-5,559.74	4,404.59	7,197.28	7,084.26	113.02	63.682		
5,100.00	4,675.29	4,640.29	4,640.29	35.82	80.03	99.18	-5,559.74	4,404.59	7,206.42	7,090.94	115.48	62.405		
5,200.00	4,761.55	4,726.55	4,726.55	36.82	81.53	99.52	-5,559.74	4,404.59	7,215.90	7,097.96	117.93	61.185		
5,300.00	4,847.81	4,812.81	4,812.81	37.82	83.04	99.86	-5,559.74	4,404.59	7,225.72	7,105.33	120.39	60.020		
5,400.00	4,934.08	4,900.92	4,899.08	38.81	84.58	100.21	-5,559.74	4,404.59	7,235.89	7,113.01	122.87	58.889		
5,500.00	5,020.34	4,985.34	4,985.34	39.81	86.05	100.55	-5,559.74	4,404.59	7,246.39	7,121.10	125.29	57.836		
5,600.00	5,106.60	5,071.60	5,071.60	40.81	87.56	100.89	-5,559.74	4,404.59	7,257.23	7,129.50	127.74	56.813		
5,700.00	5,192.87	5,157.87	5,157.87	41.81	89.06	101.23	-5,559.74	4,404.59	7,268.41	7,138.23	130.18	55.833		
5,800.00	5,279.13	5,244.13	5,244.13	42.81	90.57	101.57	-5,559.74	4,404.59	7,279.92	7,147.30	132.62	54.892		
5,900.00	5,365.40	5,330.40	5,330.40	43.81	92.07	101.91	-5,559.74	4,404.59	7,291.77	7,156.71	135.06	53.989		
6,000.00	5,451.66	5,416.66	5,416.66	44.81	93.58	102.24	-5,559.74	4,404.59	7,303.94	7,166.45	137.49	53.122		
6,100.00	5,537.92	5,450.00	5,450.00	45.81	94.16	102.37	-5,559.74	4,404.59	7,316.64	7,177.65	138.99	52.642		
6,200.00	5,624.19	5,450.00	5,450.00	46.81	94.16	102.37	-5,559.74	4,404.59	7,330.60	7,190.73	139.87	52.410		
6,300.00	5,710.45	5,450.00	5,450.00	47.81	94.16	102.37	-5,559.74	4,404.59	7,345.90	7,205.16	140.73	52.198		
6,400.00	5,796.72	5,450.00	5,450.00	48.81	94.16	102.37	-5,559.74	4,404.59	7,362.52	7,220.95	141.57	52.008		
6,500.00	5,882.98	5,450.00	5,450.00	49.81	94.16	102.37	-5,559.74	4,404.59	7,380.46	7,238.08	142.38	51.837		
6,600.00	5,969.24	5,450.00	5,450.00	50.82	94.16	102.37	-5,559.74	4,404.59	7,399.71	7,256.54	143.17	51.686		
6,700.00	6,055.51	5,450.00	5,450.00	51.82	94.16	102.37	-5,559.74	4,404.59	7,420.26	7,276.33	143.93	51.554		
6,800.00	6,141.77	5,450.00	5,450.00	52.82	94.16	102.37	-5,559.74	4,404.59	7,442.09	7,297.42	144.67	51.441		
6,900.00	6,228.03	5,450.00	5,450.00	53.83	94.16	102.37	-5,559.74	4,404.59	7,465.20	7,319.81	145.39	51.347		
7,000.00	6,314.30	5,450.00	5,450.00	54.83	94.16	102.37	-5,559.74	4,404.59	7,489.58	7,343.49	146.08	51.270		
7,100.00	6,400.56	5,450.00	5,450.00	55.83	94.16	102.37	-5,559.74	4,404.59	7,515.20	7,368.45	146.75	51.211		
7,200.00	6,486.83	5,450.00	5,450.00	56.84	94.16	102.37	-5,559.74	4,404.59	7,542.07	7,394.67	147.39	51.169		
7,300.00	6,573.09	5,450.00	5,450.00	57.84	94.16	102.37	-5,559.74	4,404.59	7,570.16	7,422.14	148.02	51.144		
7,400.00	6,659.35	5,450.00	5,450.00	58.84	94.16	102.37	-5,559.74	4,404.59	7,599.46	7,450.84	148.62	51.135		
7,500.00	6,745.62	5,450.00	5,450.00	59.85	94.16	102.37	-5,559.74	4,404.59	7,629.96	7,480.77	149.19	51.142		
7,600.00	6,831.88	5,450.00	5,450.00	60.85	94.16	102.37	-5,559.74	4,404.59	7,661.64	7,511.90	149.74	51.165		
7,700.00	6,918.14	5,450.00	5,450.00	61.86	94.16	102.37	-5,559.74	4,404.59	7,694.50	7,544.22	150.27	51.203		
7,800.00	7,004.41	5,450.00	5,450.00	62.86	94.16	102.37	-5,559.74	4,404.59	7,728.51	7,577.72	150.78	51.256		
7,900.00	7,090.67	5,450.00	5,450.00	63.87	94.16	102.37	-5,559.74	4,404.59	7,763.65	7,612.38	151.27	51.323		
8,000.00	7,176.94	5,450.00	5,450.00	64.87	94.16	102.37	-5,559.74	4,404.59	7,799.92	7,648.19	151.74	51.405		
8,027.52	7,200.68	5,450.00	5,450.00	65.15	94.16	102.37	-5,559.74	4,404.59	7,810.10	7,658.24	151.86	51.429		
8,050.00	7,220.18	5,450.00	5,450.00	65.37	94.16	99.26	-5,559.74	4,404.59	7,818.09	7,666.13	151.96	51.449		
8,100.00	7,264.25	5,450.00	5,450.00	65.85	94.16	91.25	-5,559.74	4,404.59	7,833.23	7,681.07	152.16	51.479		
8,150.00	7,308.99	5,450.00	5,450.00	66.28	94.16	81.95	-5,559.74	4,404.59	7,844.69	7,692.34	152.35	51.492		
8,200.00	7,354.07	5,450.00	5,450.00	66.67	94.16	71.82	-5,559.74	4,404.59	7,852.38	7,699.88	152.50	51.490		
8,250.00	7,399.14	5,450.00	5,450.00	67.02	94.16	61.60	-5,559.74	4,404.59	7,856.27	7,703.64	152.63	51.474		
8,300.00	7,443.85	5,450.00	5,450.00	67.32	94.16	51.97	-5,559.74	4,404.59	7,856.32	7,703.60	152.72	51.444		
8,350.00	7,487.88	5,450.00	5,450.00	67.56	94.16	43.41	-5,559.74	4,404.59	7,852.54	7,699.77	152.77	51.400		
8,400.00	7,530.87	5,450.00	5,450.00	67.75	94.16	36.05	-5,559.74	4,404.59	7,844.95	7,692.16	152.79	51.344		
8,450.00	7,572.51	5,450.00	5,450.00	67.90	94.16	29.82	-5,559.74	4,404.59	7,833.60	7,680.83	152.78	51.275		
8,500.00	7,612.48	5,450.00	5,450.00	68.00	94.16	24.53	-5,559.74	4,404.59	7,818.56	7,665.83	152.73	51.192		
8,550.00	7,650.47	5,450.00	5,450.00	68.05	94.16	19.98	-5,559.74	4,404.59	7,799.92	7,647.27	152.65	51.096		
8,600.00	7,686.20	5,450.00	5,450.00	68.06	94.16	15.98	-5,559.74	4,404.59	7,777.80	7,625.25	152.55	50.986		
8,650.00	7,719.39	5,450.00	5,450.00	68.03	94.16	12.36	-5,559.74	4,404.59	7,752.33	7,599.91	152.42	50.863		
8,700.00	7,749.79	5,450.00	5,450.00	67.97	94.16	8.95	-5,559.74	4,404.59	7,723.68	7,571.42	152.26	50.726		
8,750.00	7,777.17	5,450.00	5,450.00	67.87	94.16	5.62	-5,559.74	4,404.59	7,692.04	7,539.95	152.09	50.576		
8,800.00	7,801.32	5,450.00	5,450.00	67.74	94.16	2.21	-5,559.74	4,404.59	7,657.60	7,505.71	151.90	50.412		
8,850.00	7,822.06	5,450.00	5,450.00	67.59	94.16	-1.45	-5,559.74	4,404.59	7,620.60	7,468.91	151.70	50.236		
8,900.00	7,839.23	5,450.00	5,450.00	67.41	94.16	-5.55	-5,559.74	4,404.59	7,581.28	7,429.80	151.48	50.047		
8,950.00	7,852.69	5,450.00	5,450.00	67.22	94.16	-10.36	-5,559.74	4,404.59	7,539.91	7,388.64	151.27	49.845		
9,000.00	7,862.35	5,450.00	5,450.00	67.00	94.16	-16.20	-5,559.74	4,404.59	7,496.76	7,345.71	151.05	49.631		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	5,450.00	5,450.00	66.78	94.16	-23.51	-5,559.74	4,404.59	7,452.14	7,301.31	150.83	49.406		
9,098.65	7,870.00	5,450.00	5,450.00	66.55	94.16	-32.47	-5,559.74	4,404.59	7,407.62	7,256.99	150.63	49.178		
9,100.00	7,870.00	5,450.00	5,450.00	66.55	94.16	-32.47	-5,559.74	4,404.59	7,406.37	7,255.75	150.62	49.171		
9,200.00	7,870.00	5,450.00	5,450.00	66.09	94.16	-32.47	-5,559.74	4,404.59	7,314.05	7,163.84	150.21	48.694		
9,300.00	7,870.00	5,450.00	5,450.00	65.65	94.16	-32.47	-5,559.74	4,404.59	7,221.92	7,072.14	149.78	48.218		
9,400.00	7,870.00	5,450.00	5,450.00	65.24	94.16	-32.47	-5,559.74	4,404.59	7,130.01	6,980.67	149.34	47.744		
9,500.00	7,870.00	5,450.00	5,450.00	64.85	94.16	-32.47	-5,559.74	4,404.59	7,038.32	6,889.42	148.89	47.271		
9,600.00	7,870.00	5,450.00	5,450.00	64.48	94.16	-32.47	-5,559.74	4,404.59	6,946.85	6,798.42	148.43	46.801		
9,700.00	7,870.00	5,450.00	5,450.00	64.13	94.16	-32.47	-5,559.74	4,404.59	6,855.63	6,707.66	147.97	46.332		
9,800.00	7,870.00	5,450.00	5,450.00	63.80	94.16	-32.47	-5,559.74	4,404.59	6,764.65	6,617.16	147.49	45.865		
9,900.00	7,870.00	5,450.00	5,450.00	63.50	94.16	-32.47	-5,559.74	4,404.59	6,673.93	6,526.93	147.00	45.400		
10,000.00	7,870.00	5,450.00	5,450.00	63.22	94.16	-32.47	-5,559.74	4,404.59	6,583.49	6,436.98	146.51	44.936		
10,100.00	7,870.00	5,450.00	5,450.00	62.96	94.16	-32.47	-5,559.74	4,404.59	6,493.32	6,347.32	146.00	44.475		
10,200.00	7,870.00	5,450.00	5,450.00	62.72	94.16	-32.47	-5,559.74	4,404.59	6,403.44	6,257.96	145.48	44.016		
10,300.00	7,870.00	5,450.00	5,450.00	62.50	94.16	-32.47	-5,559.74	4,404.59	6,313.87	6,168.91	144.95	43.558		
10,400.00	7,870.00	5,450.00	5,450.00	62.31	94.16	-32.47	-5,559.74	4,404.59	6,224.61	6,080.20	144.41	43.103		
10,500.00	7,870.00	5,450.00	5,450.00	62.15	94.16	-32.47	-5,559.74	4,404.59	6,135.69	5,991.83	143.86	42.650		
10,600.00	7,870.00	5,450.00	5,450.00	62.01	94.16	-32.47	-5,559.74	4,404.59	6,047.11	5,903.81	143.30	42.199		
10,700.00	7,870.00	5,450.00	5,450.00	61.90	94.16	-32.47	-5,559.74	4,404.59	5,958.89	5,816.17	142.73	41.750		
10,800.00	7,870.00	5,450.00	5,450.00	61.82	94.16	-32.47	-5,559.74	4,404.59	5,871.06	5,728.91	142.14	41.304		
10,900.00	7,870.00	5,450.00	5,450.00	61.78	94.16	-32.47	-5,559.74	4,404.59	5,783.61	5,642.06	141.55	40.859		
11,000.00	7,870.00	5,450.00	5,450.00	61.77	94.16	-32.47	-5,559.74	4,404.59	5,696.58	5,555.64	140.95	40.417		
11,100.00	7,870.00	5,450.00	5,450.00	61.81	94.16	-32.47	-5,559.74	4,404.59	5,609.98	5,469.65	140.33	39.976		
11,200.00	7,870.00	5,450.00	5,450.00	61.90	94.16	-32.47	-5,559.74	4,404.59	5,523.84	5,384.13	139.71	39.538		
11,300.00	7,870.00	5,450.00	5,450.00	62.03	94.16	-32.47	-5,559.74	4,404.59	5,438.17	5,299.09	139.08	39.101		
11,400.00	7,870.00	5,450.00	5,450.00	62.23	94.16	-32.47	-5,559.74	4,404.59	5,353.00	5,214.56	138.44	38.667		
11,500.00	7,870.00	5,450.00	5,450.00	62.50	94.16	-32.47	-5,559.74	4,404.59	5,268.34	5,130.55	137.79	38.234		
11,600.00	7,870.00	5,450.00	5,450.00	62.84	94.16	-32.47	-5,559.74	4,404.59	5,184.24	5,047.10	137.14	37.803		
11,700.00	7,870.00	5,450.00	5,450.00	63.25	94.16	-32.47	-5,559.74	4,404.59	5,100.70	4,964.23	136.48	37.374		
11,800.00	7,870.00	5,450.00	5,450.00	63.76	94.16	-32.47	-5,559.74	4,404.59	5,017.78	4,881.96	135.81	36.946		
11,900.00	7,870.00	5,450.00	5,450.00	64.34	94.16	-32.47	-5,559.74	4,404.59	4,935.48	4,800.33	135.15	36.519		
12,000.00	7,870.00	5,450.00	5,450.00	65.01	94.16	-32.47	-5,559.74	4,404.59	4,853.85	4,719.37	134.48	36.093		
12,100.00	7,870.00	5,450.00	5,450.00	65.77	94.16	-32.47	-5,559.74	4,404.59	4,772.91	4,639.10	133.81	35.668		
12,200.00	7,870.00	5,450.00	5,450.00	66.61	94.16	-32.47	-5,559.74	4,404.59	4,692.72	4,559.56	133.15	35.243		
12,300.00	7,870.00	5,450.00	5,450.00	67.51	94.16	-32.47	-5,559.74	4,404.59	4,613.29	4,480.80	132.49	34.819		
12,400.00	7,870.00	5,450.00	5,450.00	68.49	94.16	-32.47	-5,559.74	4,404.59	4,534.68	4,402.83	131.85	34.394		
12,500.00	7,870.00	5,450.00	5,450.00	69.52	94.16	-32.47	-5,559.74	4,404.59	4,456.93	4,325.72	131.21	33.968		
12,600.00	7,870.00	5,450.00	5,450.00	70.61	94.16	-32.47	-5,559.74	4,404.59	4,380.08	4,249.49	130.59	33.541		
12,700.00	7,870.00	5,450.00	5,450.00	71.75	94.16	-32.47	-5,559.74	4,404.59	4,304.18	4,174.19	129.99	33.112		
12,800.00	7,870.00	5,450.00	5,450.00	72.93	94.16	-32.47	-5,559.74	4,404.59	4,229.28	4,099.87	129.41	32.682		
12,900.00	7,870.00	5,450.00	5,450.00	74.14	94.16	-32.47	-5,559.74	4,404.59	4,155.44	4,026.59	128.86	32.248		
13,000.00	7,870.00	5,450.00	5,450.00	75.39	94.16	-32.47	-5,559.74	4,404.59	4,082.72	3,954.38	128.34	31.812		
13,100.00	7,870.00	5,450.00	5,450.00	76.67	94.16	-32.47	-5,559.74	4,404.59	4,011.17	3,883.31	127.85	31.373		
13,200.00	7,870.00	5,450.00	5,450.00	77.98	94.16	-32.47	-5,559.74	4,404.59	3,940.86	3,813.44	127.41	30.930		
13,300.00	7,870.00	5,450.00	5,450.00	79.31	94.16	-32.47	-5,559.74	4,404.59	3,871.85	3,744.83	127.02	30.482		
13,400.00	7,870.00	5,450.00	5,450.00	80.67	94.16	-32.47	-5,559.74	4,404.59	3,804.22	3,677.55	126.68	30.031		
13,500.00	7,870.00	5,450.00	5,450.00	82.04	94.16	-32.47	-5,559.74	4,404.59	3,738.04	3,611.65	126.39	29.575		
13,600.00	7,870.00	5,450.00	5,450.00	83.43	94.16	-32.47	-5,559.74	4,404.59	3,673.40	3,547.23	126.17	29.115		
13,700.00	7,870.00	5,450.00	5,450.00	84.84	94.16	-32.47	-5,559.74	4,404.59	3,610.36	3,484.35	126.01	28.651		
13,800.00	7,870.00	5,450.00	5,450.00	86.27	94.16	-32.47	-5,559.74	4,404.59	3,549.03	3,423.10	125.93	28.183		
13,900.00	7,870.00	5,450.00	5,450.00	87.71	94.16	-32.47	-5,559.74	4,404.59	3,489.48	3,363.56	125.92	27.712		
14,000.00	7,870.00	5,450.00	5,450.00	89.16	94.16	-32.47	-5,559.74	4,404.59	3,431.82	3,305.82	125.99	27.238		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,450.00	5,450.00	90.63	94.16	-32.47	-5,559.74	4,404.59	3,376.13	3,249.98	126.15	26.763		
14,200.00	7,870.00	5,450.00	5,450.00	92.10	94.16	-32.47	-5,559.74	4,404.59	3,322.52	3,196.12	126.39	26.287		
14,300.00	7,870.00	5,450.00	5,450.00	93.59	94.16	-32.47	-5,559.74	4,404.59	3,271.09	3,144.36	126.73	25.812		
14,400.00	7,870.00	5,450.00	5,450.00	95.09	94.16	-32.47	-5,559.74	4,404.59	3,221.94	3,094.78	127.16	25.338		
14,500.00	7,870.00	5,450.00	5,450.00	96.60	94.16	-32.47	-5,559.74	4,404.59	3,175.18	3,047.50	127.68	24.869		
14,600.00	7,870.00	5,450.00	5,450.00	98.11	94.16	-32.47	-5,559.74	4,404.59	3,130.92	3,002.62	128.30	24.403		
14,700.00	7,870.00	5,450.00	5,450.00	99.64	94.16	-32.47	-5,559.74	4,404.59	3,089.26	2,960.24	129.02	23.944		
14,800.00	7,870.00	5,450.00	5,450.00	101.17	94.16	-32.47	-5,559.74	4,404.59	3,050.31	2,920.47	129.84	23.493		
14,900.00	7,870.00	5,450.00	5,450.00	102.71	94.16	-32.47	-5,559.74	4,404.59	3,014.18	2,883.41	130.76	23.051		
15,000.00	7,870.00	5,450.00	5,450.00	104.26	94.16	-32.47	-5,559.74	4,404.59	2,980.96	2,849.17	131.79	22.619		
15,100.00	7,870.00	5,450.00	5,450.00	105.82	94.16	-32.47	-5,559.74	4,404.59	2,950.77	2,817.84	132.93	22.198		
15,200.00	7,870.00	5,450.00	5,450.00	107.38	94.16	-32.47	-5,559.74	4,404.59	2,923.68	2,789.51	134.17	21.790		
15,300.00	7,870.00	5,450.00	5,450.00	108.95	94.16	-32.47	-5,559.74	4,404.59	2,899.79	2,764.26	135.53	21.396		
15,400.00	7,870.00	5,450.00	5,450.00	110.52	94.16	-32.47	-5,559.74	4,404.59	2,879.17	2,742.18	136.99	21.017		
15,500.00	7,870.00	5,450.00	5,450.00	112.10	94.16	-32.47	-5,559.74	4,404.59	2,861.91	2,723.34	138.57	20.654		
15,600.00	7,870.00	5,450.00	5,450.00	113.69	94.16	-32.47	-5,559.74	4,404.59	2,848.05	2,707.80	140.25	20.307		
15,700.00	7,870.00	5,450.00	5,450.00	115.28	94.16	-32.47	-5,559.74	4,404.59	2,837.65	2,695.61	142.04	19.978		
15,800.00	7,870.00	5,450.00	5,450.00	116.87	94.16	-32.47	-5,559.74	4,404.59	2,830.75	2,686.82	143.93	19.667		
15,900.00	7,870.00	5,450.00	5,450.00	118.47	94.16	-32.47	-5,559.74	4,404.59	2,827.37	2,681.45	145.92	19.376		
15,945.61	7,870.00	5,450.00	5,450.00	119.20	94.16	-32.47	-5,559.74	4,404.59	2,827.00	2,680.15	146.86	19.250 CC		
16,000.00	7,870.00	5,450.00	5,450.00	120.07	94.16	-32.47	-5,559.74	4,404.59	2,827.53	2,679.53	148.00	19.105 ES		
16,100.00	7,870.00	5,450.00	5,450.00	121.68	94.16	-32.47	-5,559.74	4,404.59	2,831.22	2,681.07	150.15	18.856		
16,200.00	7,870.00	5,450.00	5,450.00	123.30	94.16	-32.47	-5,559.74	4,404.59	2,838.43	2,686.07	152.36	18.630		
16,300.00	7,870.00	5,450.00	5,450.00	124.91	94.16	-32.47	-5,559.74	4,404.59	2,849.13	2,694.52	154.62	18.427		
16,400.00	7,870.00	5,450.00	5,450.00	126.53	94.16	-32.47	-5,559.74	4,404.59	2,863.29	2,706.39	156.90	18.249		
16,500.00	7,870.00	5,450.00	5,450.00	128.16	94.16	-32.47	-5,559.74	4,404.59	2,880.85	2,721.65	159.20	18.095		
16,600.00	7,870.00	5,450.00	5,450.00	129.79	94.16	-32.47	-5,559.74	4,404.59	2,901.75	2,740.25	161.50	17.967		
16,700.00	7,870.00	5,450.00	5,450.00	131.42	94.16	-32.47	-5,559.74	4,404.59	2,925.93	2,762.15	163.78	17.865		
16,800.00	7,870.00	5,450.00	5,450.00	133.05	94.16	-32.47	-5,559.74	4,404.59	2,953.29	2,787.27	166.02	17.789		
16,900.00	7,870.00	5,450.00	5,450.00	134.69	94.16	-32.47	-5,559.74	4,404.59	2,983.76	2,815.55	168.21	17.739		
17,000.00	7,870.00	5,450.00	5,450.00	136.33	94.16	-32.47	-5,559.74	4,404.59	3,017.23	2,846.90	170.34	17.713		
17,100.00	7,870.00	5,450.00	5,450.00	137.97	94.16	-32.47	-5,559.74	4,404.59	3,053.61	2,881.22	172.39	17.713 SF		
17,200.00	7,870.00	5,450.00	5,450.00	139.62	94.16	-32.47	-5,559.74	4,404.59	3,092.80	2,918.44	174.37	17.737		
17,300.00	7,870.00	5,450.00	5,450.00	141.27	94.16	-32.47	-5,559.74	4,404.59	3,134.70	2,958.44	176.26	17.785		
17,400.00	7,870.00	5,450.00	5,450.00	142.92	94.16	-32.47	-5,559.74	4,404.59	3,179.18	3,001.13	178.05	17.855		
17,500.00	7,870.00	5,450.00	5,450.00	144.58	94.16	-32.47	-5,559.74	4,404.59	3,226.15	3,046.40	179.75	17.948		
17,600.00	7,870.00	5,450.00	5,450.00	146.23	94.16	-32.47	-5,559.74	4,404.59	3,275.51	3,094.15	181.36	18.061		
17,700.00	7,870.00	5,450.00	5,450.00	147.89	94.16	-32.47	-5,559.74	4,404.59	3,327.13	3,144.27	182.87	18.194		
17,800.00	7,870.00	5,450.00	5,450.00	149.56	94.16	-32.47	-5,559.74	4,404.59	3,380.93	3,196.65	184.28	18.347		
17,900.00	7,870.00	5,450.00	5,450.00	151.22	94.16	-32.47	-5,559.74	4,404.59	3,436.80	3,251.20	185.60	18.517		
18,000.00	7,870.00	5,450.00	5,450.00	152.89	94.16	-32.47	-5,559.74	4,404.59	3,494.63	3,307.81	186.83	18.705		
18,100.00	7,870.00	5,450.00	5,450.00	154.55	94.16	-32.47	-5,559.74	4,404.59	3,554.34	3,366.37	187.97	18.909		
18,200.00	7,870.00	5,450.00	5,450.00	156.22	94.16	-32.47	-5,559.74	4,404.59	3,615.83	3,426.80	189.02	19.129		
18,300.00	7,870.00	5,450.00	5,450.00	157.90	94.16	-32.47	-5,559.74	4,404.59	3,679.01	3,489.01	190.00	19.363		
18,400.00	7,870.00	5,450.00	5,450.00	159.57	94.16	-32.47	-5,559.74	4,404.59	3,743.79	3,552.89	190.90	19.611		
18,500.00	7,870.00	5,450.00	5,450.00	161.25	94.16	-32.47	-5,559.74	4,404.59	3,810.10	3,618.37	191.73	19.872		
18,600.00	7,870.00	5,450.00	5,450.00	162.93	94.16	-32.47	-5,559.74	4,404.59	3,877.85	3,685.36	192.49	20.146		
18,700.00	7,870.00	5,450.00	5,450.00	164.60	94.16	-32.47	-5,559.74	4,404.59	3,946.97	3,753.79	193.18	20.431		
18,797.52	7,870.00	5,450.00	5,450.00	166.24	94.16	-32.47	-5,559.74	4,404.59	4,015.63	3,821.83	193.80	20.720		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
0.00	0.00	0.00	0.00	0.00	0.00	126.51	-4,237.11	5,723.39	7,121.39					
100.00	100.00	37.00	37.00	0.13	0.30	126.51	-4,237.11	5,723.39	7,121.11	7,120.68	0.43	N/A		
200.00	200.00	137.00	137.00	0.49	1.45	126.51	-4,237.11	5,723.39	7,121.11	7,119.17	1.94	3,667.799		
300.00	300.00	237.00	237.00	0.85	3.19	126.51	-4,237.11	5,723.39	7,121.11	7,117.07	4.05	1,760.332		
400.00	400.00	337.00	337.00	1.21	4.94	126.51	-4,237.11	5,723.39	7,121.11	7,114.97	6.15	1,158.070		
500.00	500.00	437.00	437.00	1.57	6.68	126.51	-4,237.11	5,723.39	7,121.11	7,112.86	8.25	862.859		
600.00	600.00	537.00	537.00	1.93	8.43	126.51	-4,237.11	5,723.39	7,121.11	7,110.76	10.36	687.584		
700.00	700.00	637.00	637.00	2.29	10.18	126.51	-4,237.11	5,723.39	7,121.11	7,108.65	12.46	571.494		
800.00	800.00	737.00	737.00	2.64	11.92	126.51	-4,237.11	5,723.39	7,121.11	7,106.55	14.56	488.942		
900.00	900.00	837.00	837.00	3.00	13.67	126.51	-4,237.11	5,723.39	7,121.11	7,104.45	16.67	427.229		
1,000.00	1,000.00	937.00	937.00	3.36	15.41	126.51	-4,237.11	5,723.39	7,121.11	7,102.34	18.77	379.349		
1,100.00	1,099.98	1,036.98	1,036.98	3.72	17.16	71.92	-4,237.11	5,723.39	7,120.57	7,099.70	20.87	341.161		
1,200.00	1,199.84	1,136.84	1,136.84	4.07	18.90	71.99	-4,237.11	5,723.39	7,118.95	7,095.98	22.97	309.961		
1,300.00	1,299.45	1,236.45	1,236.45	4.43	20.64	72.10	-4,237.11	5,723.39	7,116.25	7,091.19	25.06	283.937		
1,400.00	1,398.70	1,335.70	1,335.70	4.80	22.37	72.27	-4,237.11	5,723.39	7,112.50	7,085.34	27.16	261.878		
1,500.00	1,497.47	1,434.47	1,434.47	5.18	24.09	72.48	-4,237.11	5,723.39	7,107.71	7,078.45	29.26	242.917		
1,600.00	1,595.62	1,532.62	1,532.62	5.57	25.81	72.73	-4,237.11	5,723.39	7,101.91	7,070.54	31.37	226.418		
1,700.00	1,693.06	1,630.06	1,630.06	6.00	27.51	73.03	-4,237.11	5,723.39	7,095.13	7,061.64	33.48	211.906		
1,800.00	1,789.64	1,726.64	1,726.64	6.45	29.19	73.38	-4,237.11	5,723.39	7,087.41	7,051.80	35.61	199.021		
1,900.00	1,885.27	1,822.27	1,822.27	6.94	30.86	73.76	-4,237.11	5,723.39	7,078.79	7,041.03	37.76	187.485		
2,000.00	1,979.82	1,916.82	1,916.82	7.47	32.51	74.18	-4,237.11	5,723.39	7,069.32	7,029.40	39.92	177.080		
2,100.00	2,073.17	2,010.17	2,010.17	8.05	34.14	74.64	-4,237.11	5,723.39	7,059.06	7,016.95	42.11	167.635		
2,200.00	2,165.21	2,102.21	2,102.21	8.67	35.75	75.14	-4,237.11	5,723.39	7,048.07	7,003.74	44.32	159.013		
2,300.00	2,255.84	2,207.16	2,192.84	9.35	37.58	75.67	-4,237.11	5,723.39	7,036.40	6,989.58	46.82	150.298		
2,400.00	2,344.94	2,281.94	2,281.94	10.09	38.88	76.23	-4,237.11	5,723.39	7,024.12	6,975.28	48.84	143.820		
2,500.00	2,432.39	2,369.39	2,369.39	10.89	40.41	76.82	-4,237.11	5,723.39	7,011.32	6,960.17	51.15	137.087		
2,519.29	2,449.07	2,386.07	2,386.07	11.05	40.70	76.94	-4,237.11	5,723.39	7,008.79	6,957.20	51.59	135.847		
2,600.00	2,518.69	2,455.69	2,455.69	11.74	41.92	77.23	-4,237.11	5,723.39	6,998.30	6,944.82	53.48	130.856		
2,700.00	2,604.95	2,541.95	2,541.95	12.62	43.42	77.58	-4,237.11	5,723.39	6,985.62	6,929.77	55.84	125.092		
2,800.00	2,691.22	2,628.22	2,628.22	13.52	44.93	77.93	-4,237.11	5,723.39	6,973.27	6,915.05	58.23	119.759		
2,900.00	2,777.48	2,714.48	2,714.48	14.43	46.43	78.28	-4,237.11	5,723.39	6,961.28	6,900.65	60.63	114.817		
3,000.00	2,863.75	2,800.75	2,800.75	15.35	47.94	78.64	-4,237.11	5,723.39	6,949.63	6,886.58	63.05	110.231		
3,100.00	2,950.01	2,887.01	2,887.01	16.28	49.45	78.99	-4,237.11	5,723.39	6,938.33	6,872.85	65.48	105.968		
3,200.00	3,036.27	2,973.27	2,973.27	17.22	50.95	79.35	-4,237.11	5,723.39	6,927.38	6,859.46	67.92	101.998		
3,300.00	3,122.54	3,059.54	3,059.54	18.17	52.46	79.71	-4,237.11	5,723.39	6,916.78	6,846.41	70.37	98.296		
3,400.00	3,208.80	3,145.80	3,145.80	19.13	53.96	80.06	-4,237.11	5,723.39	6,906.54	6,833.71	72.83	94.837		
3,500.00	3,295.07	3,232.07	3,232.07	20.09	55.47	80.42	-4,237.11	5,723.39	6,896.65	6,821.36	75.29	91.600		
3,600.00	3,381.33	3,318.33	3,318.33	21.05	56.97	80.78	-4,237.11	5,723.39	6,887.12	6,809.36	77.76	88.565		
3,700.00	3,467.59	3,404.59	3,404.59	22.02	58.48	81.14	-4,237.11	5,723.39	6,877.95	6,797.71	80.24	85.715		
3,800.00	3,553.86	3,509.14	3,490.86	22.99	60.30	81.50	-4,237.11	5,723.39	6,869.14	6,786.09	83.04	82.716		
3,900.00	3,640.12	3,577.12	3,577.12	23.97	61.49	81.87	-4,237.11	5,723.39	6,860.69	6,775.48	85.21	80.512		
4,000.00	3,726.38	3,663.38	3,663.38	24.95	63.00	82.23	-4,237.11	5,723.39	6,852.60	6,764.90	87.71	78.132		
4,100.00	3,812.65	3,749.65	3,749.65	25.93	64.50	82.59	-4,237.11	5,723.39	6,844.88	6,754.68	90.20	75.885		
4,200.00	3,898.91	3,835.91	3,835.91	26.91	66.01	82.95	-4,237.11	5,723.39	6,837.52	6,744.82	92.70	73.760		
4,300.00	3,985.18	3,922.18	3,922.18	27.90	67.51	83.32	-4,237.11	5,723.39	6,830.53	6,735.33	95.20	71.748		
4,400.00	4,071.44	4,008.44	4,008.44	28.88	69.02	83.68	-4,237.11	5,723.39	6,823.91	6,726.21	97.71	69.842		
4,500.00	4,157.70	4,105.30	4,094.70	29.87	70.71	84.05	-4,237.11	5,723.39	6,817.66	6,717.26	100.40	67.907		
4,600.00	4,243.97	4,180.97	4,180.97	30.86	72.03	84.41	-4,237.11	5,723.39	6,811.77	6,709.05	102.72	66.314		
4,700.00	4,330.23	4,267.23	4,267.23	31.85	73.53	84.78	-4,237.11	5,723.39	6,806.26	6,701.03	105.23	64.680		
4,800.00	4,416.49	4,353.49	4,353.49	32.84	75.04	85.15	-4,237.11	5,723.39	6,801.12	6,693.38	107.74	63.124		
4,900.00	4,502.76	4,439.76	4,439.76	33.84	76.55	85.51	-4,237.11	5,723.39	6,796.35	6,686.10	110.25	61.643		
5,000.00	4,589.02	4,526.02	4,526.02	34.83	78.05	85.88	-4,237.11	5,723.39	6,791.96	6,679.19	112.77	60.230		

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,675.29	4,612.29	4,612.29	35.82	79.56	86.25	-4,237.11	5,723.39	6,787.94	6,672.66	115.28	58.881		
5,200.00	4,761.55	4,701.45	4,698.55	36.82	81.11	86.62	-4,237.11	5,723.39	6,784.29	6,666.44	117.85	57.569		
5,300.00	4,847.81	4,784.81	4,784.81	37.82	82.57	86.98	-4,237.11	5,723.39	6,781.02	6,660.71	120.31	56.362		
5,400.00	4,934.08	4,871.08	4,871.08	38.81	84.07	87.35	-4,237.11	5,723.39	6,778.13	6,655.30	122.83	55.185		
5,500.00	5,020.34	4,957.34	4,957.34	39.81	85.58	87.72	-4,237.11	5,723.39	6,775.61	6,650.27	125.34	54.057		
5,600.00	5,106.60	5,043.60	5,043.60	40.81	87.09	88.09	-4,237.11	5,723.39	6,773.47	6,645.61	127.86	52.977		
5,700.00	5,192.87	5,129.87	5,129.87	41.81	88.59	88.46	-4,237.11	5,723.39	6,771.70	6,641.33	130.37	51.942		
5,800.00	5,279.13	5,216.13	5,216.13	42.81	90.10	88.83	-4,237.11	5,723.39	6,770.32	6,637.43	132.88	50.949		
5,900.00	5,365.40	5,302.40	5,302.40	43.81	91.60	89.20	-4,237.11	5,723.39	6,769.31	6,633.91	135.40	49.996		
6,000.00	5,451.66	5,388.66	5,388.66	44.81	93.11	89.57	-4,237.11	5,723.39	6,768.67	6,630.77	137.91	49.081		
6,039.73	5,485.93	5,400.00	5,400.00	45.20	93.31	89.62	-4,237.11	5,723.39	6,768.57	6,630.06	138.50	48.869		
6,100.00	5,537.92	5,400.00	5,400.00	45.81	93.31	89.62	-4,237.11	5,723.39	6,768.84	6,629.74	139.10	48.662		
6,200.00	5,624.19	5,400.00	5,400.00	46.81	93.31	89.62	-4,237.11	5,723.39	6,770.46	6,630.39	140.07	48.336		
6,300.00	5,710.45	5,400.00	5,400.00	47.81	93.31	89.62	-4,237.11	5,723.39	6,773.57	6,632.55	141.02	48.034		
6,400.00	5,796.72	5,400.00	5,400.00	48.81	93.31	89.62	-4,237.11	5,723.39	6,778.15	6,636.21	141.94	47.755		
6,500.00	5,882.98	5,400.00	5,400.00	49.81	93.31	89.62	-4,237.11	5,723.39	6,784.20	6,641.37	142.83	47.498		
6,600.00	5,969.24	5,400.00	5,400.00	50.82	93.31	89.62	-4,237.11	5,723.39	6,791.72	6,648.02	143.70	47.263		
6,700.00	6,055.51	5,400.00	5,400.00	51.82	93.31	89.62	-4,237.11	5,723.39	6,800.70	6,656.15	144.54	47.050		
6,800.00	6,141.77	5,400.00	5,400.00	52.82	93.31	89.62	-4,237.11	5,723.39	6,811.13	6,665.78	145.36	46.858		
6,900.00	6,228.03	5,400.00	5,400.00	53.83	93.31	89.62	-4,237.11	5,723.39	6,823.02	6,676.87	146.15	46.687		
7,000.00	6,314.30	5,400.00	5,400.00	54.83	93.31	89.62	-4,237.11	5,723.39	6,836.35	6,689.44	146.91	46.535		
7,100.00	6,400.56	5,400.00	5,400.00	55.83	93.31	89.62	-4,237.11	5,723.39	6,851.11	6,703.47	147.64	46.404		
7,200.00	6,486.83	5,400.00	5,400.00	56.84	93.31	89.62	-4,237.11	5,723.39	6,867.30	6,718.95	148.35	46.293		
7,300.00	6,573.09	5,400.00	5,400.00	57.84	93.31	89.62	-4,237.11	5,723.39	6,884.90	6,735.87	149.02	46.200		
7,400.00	6,659.35	5,400.00	5,400.00	58.84	93.31	89.62	-4,237.11	5,723.39	6,903.90	6,754.23	149.67	46.126		
7,500.00	6,745.62	5,400.00	5,400.00	59.85	93.31	89.62	-4,237.11	5,723.39	6,924.30	6,774.00	150.30	46.070		
7,600.00	6,831.88	5,400.00	5,400.00	60.85	93.31	89.62	-4,237.11	5,723.39	6,946.08	6,795.18	150.90	46.032		
7,700.00	6,918.14	5,400.00	5,400.00	61.86	93.31	89.62	-4,237.11	5,723.39	6,969.22	6,817.75	151.46	46.012		
7,800.00	7,004.41	5,400.00	5,400.00	62.86	93.31	89.62	-4,237.11	5,723.39	6,993.72	6,841.71	152.01	46.009		
7,900.00	7,090.67	5,400.00	5,400.00	63.87	93.31	89.62	-4,237.11	5,723.39	7,019.55	6,867.03	152.52	46.023		
8,000.00	7,176.94	5,400.00	5,400.00	64.87	93.31	89.62	-4,237.11	5,723.39	7,046.71	6,893.70	153.01	46.053		
8,027.52	7,200.68	5,400.00	5,400.00	65.15	93.31	89.62	-4,237.11	5,723.39	7,054.42	6,901.28	153.14	46.064		
8,050.00	7,220.18	5,400.00	5,400.00	65.37	93.31	86.55	-4,237.11	5,723.39	7,060.43	6,907.18	153.24	46.073		
8,100.00	7,264.25	5,400.00	5,400.00	65.85	93.31	78.62	-4,237.11	5,723.39	7,071.42	6,917.97	153.44	46.085		
8,150.00	7,308.99	5,400.00	5,400.00	66.28	93.31	69.34	-4,237.11	5,723.39	7,079.08	6,925.48	153.60	46.087		
8,200.00	7,354.07	5,400.00	5,400.00	66.67	93.31	59.20	-4,237.11	5,723.39	7,083.37	6,929.65	153.72	46.080		
8,250.00	7,399.14	5,400.00	5,400.00	67.02	93.31	48.90	-4,237.11	5,723.39	7,084.26	6,930.48	153.79	46.065		
8,300.00	7,443.85	5,400.00	5,400.00	67.32	93.31	39.14	-4,237.11	5,723.39	7,081.75	6,927.94	153.81	46.043		
8,350.00	7,487.88	5,400.00	5,400.00	67.56	93.31	30.39	-4,237.11	5,723.39	7,075.84	6,922.07	153.78	46.014		
8,400.00	7,530.87	5,400.00	5,400.00	67.75	93.31	22.78	-4,237.11	5,723.39	7,066.59	6,912.89	153.70	45.977		
8,450.00	7,572.51	5,400.00	5,400.00	67.90	93.31	16.23	-4,237.11	5,723.39	7,054.03	6,900.46	153.58	45.932		
8,500.00	7,612.48	5,400.00	5,400.00	68.00	93.31	10.56	-4,237.11	5,723.39	7,038.26	6,884.85	153.41	45.879		
8,550.00	7,650.47	5,400.00	5,400.00	68.05	93.31	5.55	-4,237.11	5,723.39	7,019.37	6,866.16	153.21	45.817		
8,600.00	7,686.20	5,400.00	5,400.00	68.06	93.31	1.01	-4,237.11	5,723.39	6,997.48	6,844.51	152.96	45.746		
8,650.00	7,719.39	5,400.00	5,400.00	68.03	93.31	-3.24	-4,237.11	5,723.39	6,972.73	6,820.03	152.69	45.665		
8,700.00	7,749.79	5,400.00	5,400.00	67.97	93.31	-7.36	-4,237.11	5,723.39	6,945.27	6,792.88	152.39	45.575		
8,750.00	7,777.17	5,400.00	5,400.00	67.87	93.31	-11.47	-4,237.11	5,723.39	6,915.30	6,763.23	152.07	45.475		
8,800.00	7,801.32	5,400.00	5,400.00	67.74	93.31	-15.72	-4,237.11	5,723.39	6,882.99	6,731.27	151.72	45.365		
8,850.00	7,822.06	5,400.00	5,400.00	67.59	93.31	-20.23	-4,237.11	5,723.39	6,848.58	6,697.21	151.37	45.245		
8,900.00	7,839.23	5,400.00	5,400.00	67.41	93.31	-25.11	-4,237.11	5,723.39	6,812.28	6,661.28	151.00	45.113		
8,950.00	7,852.69	5,400.00	5,400.00	67.22	93.31	-30.47	-4,237.11	5,723.39	6,774.35	6,623.72	150.63	44.972		
9,000.00	7,862.35	5,400.00	5,400.00	67.00	93.31	-36.38	-4,237.11	5,723.39	6,735.06	6,584.79	150.27	44.820		

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 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
9,050.00	7,868.14	5,400.00	5,400.00	66.78	93.31	-42.85	-4,237.11	5,723.39	6,694.67	6,544.76	149.91	44.659		
9,098.65	7,870.00	5,400.00	5,400.00	66.55	93.31	-49.64	-4,237.11	5,723.39	6,654.60	6,505.04	149.57	44.493		
9,100.00	7,870.00	5,400.00	5,400.00	66.55	93.31	-49.64	-4,237.11	5,723.39	6,653.48	6,503.92	149.56	44.488		
9,200.00	7,870.00	5,400.00	5,400.00	66.09	93.31	-49.64	-4,237.11	5,723.39	6,570.78	6,421.91	148.86	44.140		
9,300.00	7,870.00	5,400.00	5,400.00	65.65	93.31	-49.64	-4,237.11	5,723.39	6,488.56	6,340.40	148.16	43.794		
9,400.00	7,870.00	5,400.00	5,400.00	65.24	93.31	-49.64	-4,237.11	5,723.39	6,406.85	6,259.40	147.45	43.452		
9,500.00	7,870.00	5,400.00	5,400.00	64.85	93.31	-49.64	-4,237.11	5,723.39	6,325.66	6,178.94	146.73	43.112		
9,600.00	7,870.00	5,400.00	5,400.00	64.48	93.31	-49.64	-4,237.11	5,723.39	6,245.02	6,099.02	146.00	42.775		
9,700.00	7,870.00	5,400.00	5,400.00	64.13	93.31	-49.64	-4,237.11	5,723.39	6,164.95	6,019.69	145.26	42.440		
9,800.00	7,870.00	5,400.00	5,400.00	63.80	93.31	-49.64	-4,237.11	5,723.39	6,085.46	5,940.94	144.52	42.108		
9,900.00	7,870.00	5,400.00	5,400.00	63.50	93.31	-49.64	-4,237.11	5,723.39	6,006.59	5,862.82	143.78	41.778		
10,000.00	7,870.00	5,400.00	5,400.00	63.22	93.31	-49.64	-4,237.11	5,723.39	5,928.36	5,785.33	143.03	41.449		
10,100.00	7,870.00	5,400.00	5,400.00	62.96	93.31	-49.64	-4,237.11	5,723.39	5,850.79	5,708.52	142.28	41.123		
10,200.00	7,870.00	5,400.00	5,400.00	62.72	93.31	-49.64	-4,237.11	5,723.39	5,773.91	5,632.39	141.52	40.798		
10,300.00	7,870.00	5,400.00	5,400.00	62.50	93.31	-49.64	-4,237.11	5,723.39	5,697.75	5,556.98	140.77	40.474		
10,400.00	7,870.00	5,400.00	5,400.00	62.31	93.31	-49.64	-4,237.11	5,723.39	5,622.33	5,482.31	140.03	40.151		
10,500.00	7,870.00	5,400.00	5,400.00	62.15	93.31	-49.64	-4,237.11	5,723.39	5,547.70	5,408.41	139.29	39.828		
10,600.00	7,870.00	5,400.00	5,400.00	62.01	93.31	-49.64	-4,237.11	5,723.39	5,473.87	5,335.31	138.56	39.505		
10,700.00	7,870.00	5,400.00	5,400.00	61.90	93.31	-49.64	-4,237.11	5,723.39	5,400.88	5,263.04	137.84	39.181		
10,800.00	7,870.00	5,400.00	5,400.00	61.82	93.31	-49.64	-4,237.11	5,723.39	5,328.77	5,191.63	137.14	38.856		
10,900.00	7,870.00	5,400.00	5,400.00	61.78	93.31	-49.64	-4,237.11	5,723.39	5,257.58	5,121.12	136.46	38.528		
11,000.00	7,870.00	5,400.00	5,400.00	61.77	93.31	-49.64	-4,237.11	5,723.39	5,187.33	5,051.53	135.80	38.198		
11,100.00	7,870.00	5,400.00	5,400.00	61.81	93.31	-49.64	-4,237.11	5,723.39	5,118.08	4,982.90	135.17	37.864		
11,200.00	7,870.00	5,400.00	5,400.00	61.90	93.31	-49.64	-4,237.11	5,723.39	5,049.85	4,915.28	134.57	37.525		
11,300.00	7,870.00	5,400.00	5,400.00	62.03	93.31	-49.64	-4,237.11	5,723.39	4,982.70	4,848.68	134.01	37.180		
11,400.00	7,870.00	5,400.00	5,400.00	62.23	93.31	-49.64	-4,237.11	5,723.39	4,916.66	4,783.16	133.50	36.829		
11,500.00	7,870.00	5,400.00	5,400.00	62.50	93.31	-49.64	-4,237.11	5,723.39	4,851.79	4,718.76	133.03	36.471		
11,600.00	7,870.00	5,400.00	5,400.00	62.84	93.31	-49.64	-4,237.11	5,723.39	4,788.13	4,655.51	132.62	36.105		
11,700.00	7,870.00	5,400.00	5,400.00	63.25	93.31	-49.64	-4,237.11	5,723.39	4,725.72	4,593.46	132.26	35.729		
11,800.00	7,870.00	5,400.00	5,400.00	63.76	93.31	-49.64	-4,237.11	5,723.39	4,664.63	4,532.65	131.98	35.344		
11,900.00	7,870.00	5,400.00	5,400.00	64.34	93.31	-49.64	-4,237.11	5,723.39	4,604.89	4,473.13	131.76	34.948		
12,000.00	7,870.00	5,400.00	5,400.00	65.01	93.31	-49.64	-4,237.11	5,723.39	4,546.57	4,414.95	131.63	34.541		
12,100.00	7,870.00	5,400.00	5,400.00	65.77	93.31	-49.64	-4,237.11	5,723.39	4,489.72	4,358.15	131.57	34.123		
12,200.00	7,870.00	5,400.00	5,400.00	66.61	93.31	-49.64	-4,237.11	5,723.39	4,434.40	4,302.79	131.61	33.694		
12,300.00	7,870.00	5,400.00	5,400.00	67.51	93.31	-49.64	-4,237.11	5,723.39	4,380.66	4,248.93	131.74	33.253		
12,400.00	7,870.00	5,400.00	5,400.00	68.49	93.31	-49.64	-4,237.11	5,723.39	4,328.57	4,196.61	131.96	32.801		
12,500.00	7,870.00	5,400.00	5,400.00	69.52	93.31	-49.64	-4,237.11	5,723.39	4,278.18	4,145.89	132.29	32.339		
12,600.00	7,870.00	5,400.00	5,400.00	70.61	93.31	-49.64	-4,237.11	5,723.39	4,229.55	4,096.83	132.72	31.868		
12,700.00	7,870.00	5,400.00	5,400.00	71.75	93.31	-49.64	-4,237.11	5,723.39	4,182.75	4,049.50	133.25	31.389		
12,800.00	7,870.00	5,400.00	5,400.00	72.93	93.31	-49.64	-4,237.11	5,723.39	4,137.84	4,003.94	133.89	30.904		
12,900.00	7,870.00	5,400.00	5,400.00	74.14	93.31	-49.64	-4,237.11	5,723.39	4,094.87	3,960.23	134.64	30.413		
13,000.00	7,870.00	5,400.00	5,400.00	75.39	93.31	-49.64	-4,237.11	5,723.39	4,053.92	3,918.42	135.50	29.919		
13,100.00	7,870.00	5,400.00	5,400.00	76.67	93.31	-49.64	-4,237.11	5,723.39	4,015.04	3,878.59	136.46	29.424		
13,200.00	7,870.00	5,400.00	5,400.00	77.98	93.31	-49.64	-4,237.11	5,723.39	3,978.30	3,840.78	137.52	28.929		
13,300.00	7,870.00	5,400.00	5,400.00	79.31	93.31	-49.64	-4,237.11	5,723.39	3,943.75	3,805.07	138.68	28.438		
13,400.00	7,870.00	5,400.00	5,400.00	80.67	93.31	-49.64	-4,237.11	5,723.39	3,911.45	3,771.51	139.94	27.951		
13,500.00	7,870.00	5,400.00	5,400.00	82.04	93.31	-49.64	-4,237.11	5,723.39	3,881.46	3,740.17	141.29	27.471		
13,600.00	7,870.00	5,400.00	5,400.00	83.43	93.31	-49.64	-4,237.11	5,723.39	3,853.83	3,711.10	142.74	27.000		
13,700.00	7,870.00	5,400.00	5,400.00	84.84	93.31	-49.64	-4,237.11	5,723.39	3,828.62	3,684.36	144.26	26.539		
13,800.00	7,870.00	5,400.00	5,400.00	86.27	93.31	-49.64	-4,237.11	5,723.39	3,805.87	3,660.00	145.87	26.092		
13,900.00	7,870.00	5,400.00	5,400.00	87.71	93.31	-49.64	-4,237.11	5,723.39	3,785.62	3,638.08	147.54	25.658		
14,000.00	7,870.00	5,400.00	5,400.00	89.16	93.31	-49.64	-4,237.11	5,723.39	3,767.92	3,618.63	149.28	25.240		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 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		
14,100.00	7,870.00	5,400.00	5,400.00	90.63	93.31	-49.64	-4,237.11	5,723.39	3,752.80	3,601.71	151.09	24.839		
14,200.00	7,870.00	5,400.00	5,400.00	92.10	93.31	-49.64	-4,237.11	5,723.39	3,740.29	3,587.35	152.94	24.456		
14,300.00	7,870.00	5,400.00	5,400.00	93.59	93.31	-49.64	-4,237.11	5,723.39	3,730.43	3,575.58	154.84	24.092		
14,400.00	7,870.00	5,400.00	5,400.00	95.09	93.31	-49.64	-4,237.11	5,723.39	3,723.22	3,566.44	156.78	23.748		
14,500.00	7,870.00	5,400.00	5,400.00	96.60	93.31	-49.64	-4,237.11	5,723.39	3,718.69	3,559.94	158.75	23.424		
14,600.00	7,870.00	5,400.00	5,400.00	98.11	93.31	-49.64	-4,237.11	5,723.39	3,716.85	3,556.10	160.75	23.122		
14,618.53	7,870.00	5,400.00	5,400.00	98.40	93.31	-49.64	-4,237.11	5,723.39	3,716.80	3,555.68	161.12	23.068	CC	
14,700.00	7,870.00	5,400.00	5,400.00	99.64	93.31	-49.64	-4,237.11	5,723.39	3,717.70	3,554.93	162.76	22.841	ES	
14,800.00	7,870.00	5,400.00	5,400.00	101.17	93.31	-49.64	-4,237.11	5,723.39	3,721.23	3,556.45	164.78	22.582		
14,900.00	7,870.00	5,400.00	5,400.00	102.71	93.31	-49.64	-4,237.11	5,723.39	3,727.45	3,560.64	166.81	22.346		
15,000.00	7,870.00	5,400.00	5,400.00	104.26	93.31	-49.64	-4,237.11	5,723.39	3,736.33	3,567.50	168.83	22.131		
15,100.00	7,870.00	5,400.00	5,400.00	105.82	93.31	-49.64	-4,237.11	5,723.39	3,747.86	3,577.02	170.84	21.938		
15,200.00	7,870.00	5,400.00	5,400.00	107.38	93.31	-49.64	-4,237.11	5,723.39	3,762.01	3,589.18	172.83	21.767		
15,300.00	7,870.00	5,400.00	5,400.00	108.95	93.31	-49.64	-4,237.11	5,723.39	3,778.76	3,603.96	174.80	21.618		
15,400.00	7,870.00	5,400.00	5,400.00	110.52	93.31	-49.64	-4,237.11	5,723.39	3,798.07	3,621.33	176.73	21.490		
15,500.00	7,870.00	5,400.00	5,400.00	112.10	93.31	-49.64	-4,237.11	5,723.39	3,819.90	3,641.26	178.63	21.384		
15,600.00	7,870.00	5,400.00	5,400.00	113.69	93.31	-49.64	-4,237.11	5,723.39	3,844.20	3,663.71	180.50	21.298		
15,700.00	7,870.00	5,400.00	5,400.00	115.28	93.31	-49.64	-4,237.11	5,723.39	3,870.94	3,688.63	182.32	21.232		
15,800.00	7,870.00	5,400.00	5,400.00	116.87	93.31	-49.64	-4,237.11	5,723.39	3,900.06	3,715.97	184.09	21.186		
15,900.00	7,870.00	5,400.00	5,400.00	118.47	93.31	-49.64	-4,237.11	5,723.39	3,931.51	3,745.70	185.81	21.159		
16,000.00	7,870.00	5,400.00	5,400.00	120.07	93.31	-49.64	-4,237.11	5,723.39	3,965.23	3,777.76	187.47	21.151	SF	
16,100.00	7,870.00	5,400.00	5,400.00	121.68	93.31	-49.64	-4,237.11	5,723.39	4,001.17	3,812.09	189.09	21.161		
16,200.00	7,870.00	5,400.00	5,400.00	123.30	93.31	-49.64	-4,237.11	5,723.39	4,039.27	3,848.63	190.64	21.188		
16,300.00	7,870.00	5,400.00	5,400.00	124.91	93.31	-49.64	-4,237.11	5,723.39	4,079.46	3,887.32	192.13	21.232		
16,400.00	7,870.00	5,400.00	5,400.00	126.53	93.31	-49.64	-4,237.11	5,723.39	4,121.68	3,928.11	193.57	21.293		
16,500.00	7,870.00	5,400.00	5,400.00	128.16	93.31	-49.64	-4,237.11	5,723.39	4,165.88	3,970.94	194.94	21.370		
16,600.00	7,870.00	5,400.00	5,400.00	129.79	93.31	-49.64	-4,237.11	5,723.39	4,211.99	4,015.73	196.26	21.462		
16,700.00	7,870.00	5,400.00	5,400.00	131.42	93.31	-49.64	-4,237.11	5,723.39	4,259.94	4,062.43	197.51	21.568		
16,800.00	7,870.00	5,400.00	5,400.00	133.05	93.31	-49.64	-4,237.11	5,723.39	4,309.69	4,110.98	198.71	21.689		
16,900.00	7,870.00	5,400.00	5,400.00	134.69	93.31	-49.64	-4,237.11	5,723.39	4,361.16	4,161.32	199.84	21.823		
17,000.00	7,870.00	5,400.00	5,400.00	136.33	93.31	-49.64	-4,237.11	5,723.39	4,414.30	4,213.37	200.92	21.970		
17,100.00	7,870.00	5,400.00	5,400.00	137.97	93.31	-49.64	-4,237.11	5,723.39	4,469.04	4,267.09	201.95	22.130		
17,200.00	7,870.00	5,400.00	5,400.00	139.62	93.31	-49.64	-4,237.11	5,723.39	4,525.33	4,322.41	202.92	22.301		
17,300.00	7,870.00	5,400.00	5,400.00	141.27	93.31	-49.64	-4,237.11	5,723.39	4,583.11	4,379.27	203.84	22.484		
17,400.00	7,870.00	5,400.00	5,400.00	142.92	93.31	-49.64	-4,237.11	5,723.39	4,642.33	4,437.62	204.70	22.678		
17,500.00	7,870.00	5,400.00	5,400.00	144.58	93.31	-49.64	-4,237.11	5,723.39	4,702.92	4,497.40	205.52	22.883		
17,600.00	7,870.00	5,400.00	5,400.00	146.23	93.31	-49.64	-4,237.11	5,723.39	4,764.85	4,558.56	206.29	23.098		
17,700.00	7,870.00	5,400.00	5,400.00	147.89	93.31	-49.64	-4,237.11	5,723.39	4,828.05	4,621.04	207.01	23.322		
17,800.00	7,870.00	5,400.00	5,400.00	149.56	93.31	-49.64	-4,237.11	5,723.39	4,892.48	4,684.79	207.69	23.556		
17,900.00	7,870.00	5,400.00	5,400.00	151.22	93.31	-49.64	-4,237.11	5,723.39	4,958.09	4,749.76	208.33	23.799		
18,000.00	7,870.00	5,400.00	5,400.00	152.89	93.31	-49.64	-4,237.11	5,723.39	5,024.83	4,815.90	208.93	24.050		
18,100.00	7,870.00	5,400.00	5,400.00	154.55	93.31	-49.64	-4,237.11	5,723.39	5,092.67	4,883.17	209.50	24.309		
18,200.00	7,870.00	5,400.00	5,400.00	156.22	93.31	-49.64	-4,237.11	5,723.39	5,161.54	4,951.52	210.02	24.576		
18,300.00	7,870.00	5,400.00	5,400.00	157.90	93.31	-49.64	-4,237.11	5,723.39	5,231.43	5,020.91	210.51	24.851		
18,400.00	7,870.00	5,400.00	5,400.00	159.57	93.31	-49.64	-4,237.11	5,723.39	5,302.27	5,091.30	210.97	25.133		
18,500.00	7,870.00	5,400.00	5,400.00	161.25	93.31	-49.64	-4,237.11	5,723.39	5,374.05	5,162.65	211.40	25.421		
18,600.00	7,870.00	5,400.00	5,400.00	162.93	93.31	-49.64	-4,237.11	5,723.39	5,446.72	5,234.92	211.80	25.716		
18,700.00	7,870.00	5,400.00	5,400.00	164.60	93.31	-49.64	-4,237.11	5,723.39	5,520.24	5,308.06	212.17	26.018		
18,797.52	7,870.00	5,400.00	5,400.00	166.24	93.31	-49.64	-4,237.11	5,723.39	5,592.72	5,380.21	212.51	26.318		

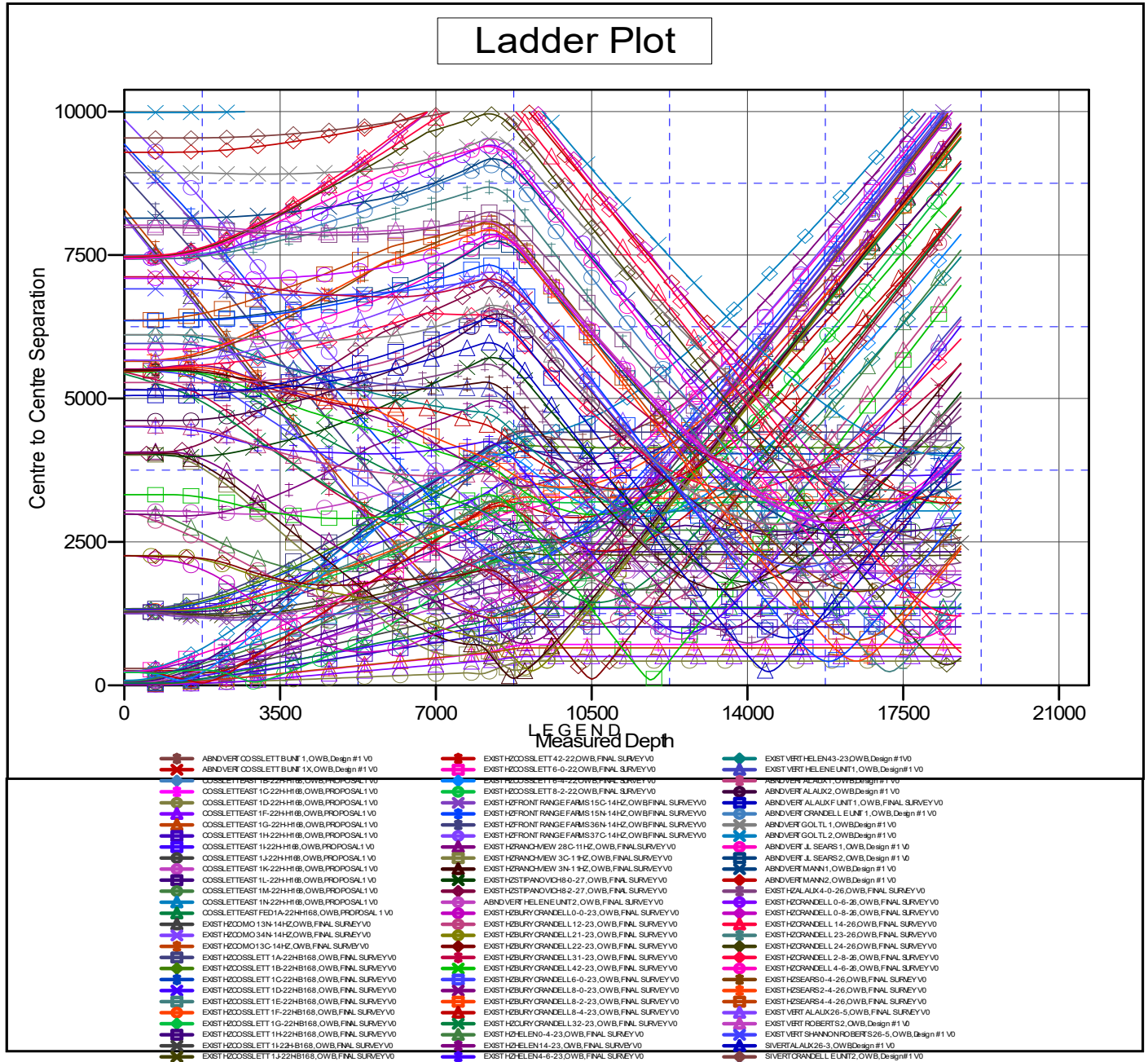
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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 1E-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

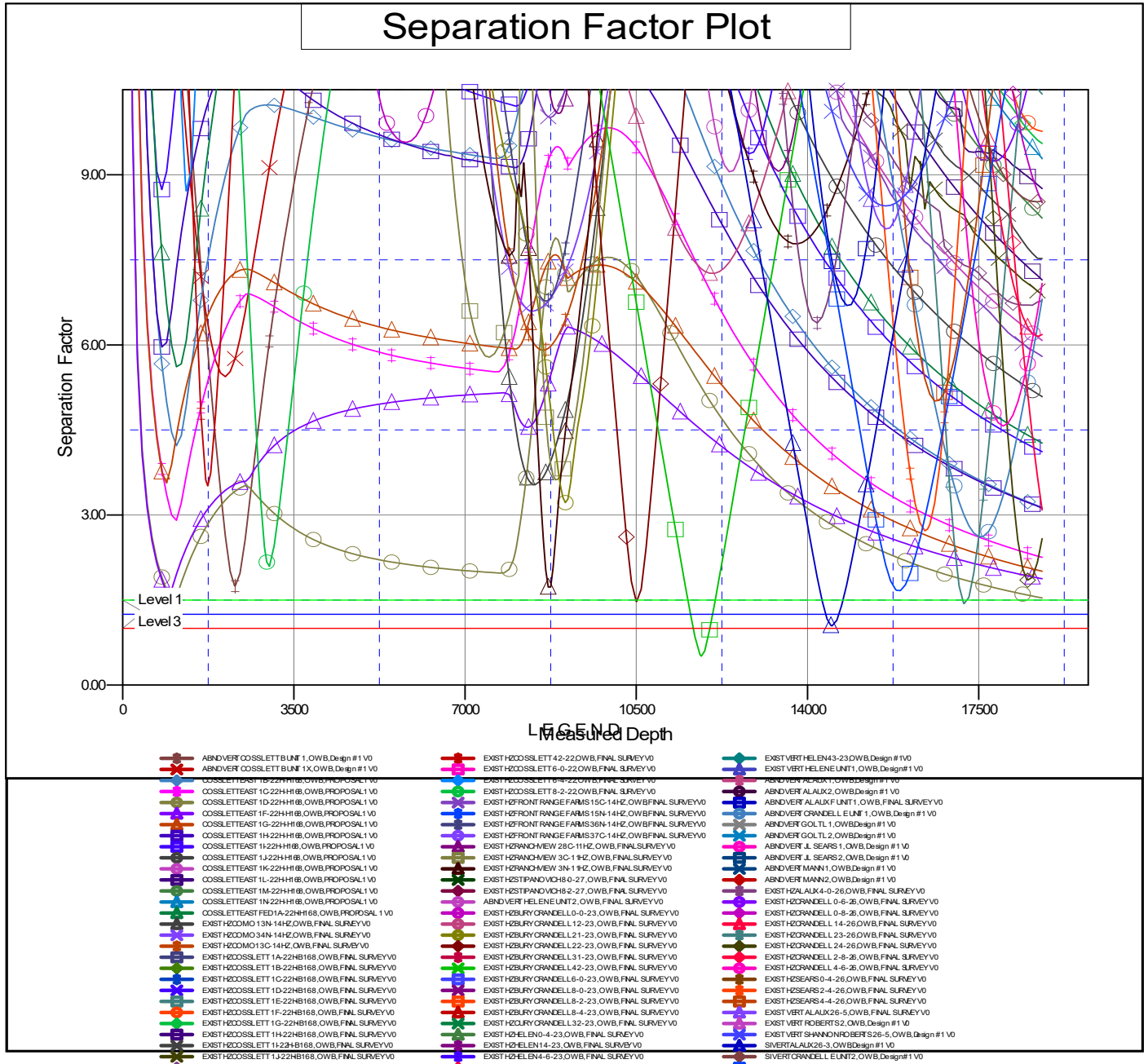
Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1E-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1E-22H-H168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

Offset Depths are relative to Offset Datum

Central Meridian is 105.500000°W

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