

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY**

**SEC 15-T4S-R65W**

**LONE TREE 4-65 15-16 2AH**

**OWB**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**11 February, 2022**

Project: ARAPAHOE COUNTY  
 Site: SEC 15-T4S-R65W  
 Well: LONE TREE 4-65 15-16 2AH  
 Wellbore: OWB  
 Design: PROPOSAL 1



Azimuths to True North  
 Magnetic North: 7.65°  
 Magnetic Field  
 Strength: 51525.4nT  
 Dip Angle: 66.09°  
 Date: 2/10/2022  
 Model: IGRF2020

WELL DETAILS: LONE TREE 4-65 15-16 2AH

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1683430.07	3241108.68	39.706695°N	104.643034°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	Start Build 2.00
603.98	7.08	97.08	603.08	-2.69	21.68	-21.62	21.84	Start 6679.95 hold at 603.98 MD
7283.93	7.08	97.08	7232.10	-104.09	838.70	-836.67	845.13	Start DLS 10.00 TFO 172.54
8254.13	90.00	269.67	7875.00	-117.65	270.10	-267.93	1423.49	Start 9888.00 hold at 8254.13 MD
18142.12	90.00	269.67	7875.00	-174.49	-9617.73	9619.31	11311.49	TD at 18142.12

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	603.98	7.08	97.08	603.08	-2.69	21.68	2.00	97.08	-21.62	
4	7283.93	7.08	97.08	7232.10	-104.09	838.70	0.00	0.00	-836.67	
5	8254.13	90.00	269.67	7875.00	-117.65	270.10	10.00	172.54	-267.93	LP-LT 4-65
6	18142.12	90.00	269.67	7875.00	-174.49	-9617.73	0.00	0.00	9619.31	PBHL-LT 4

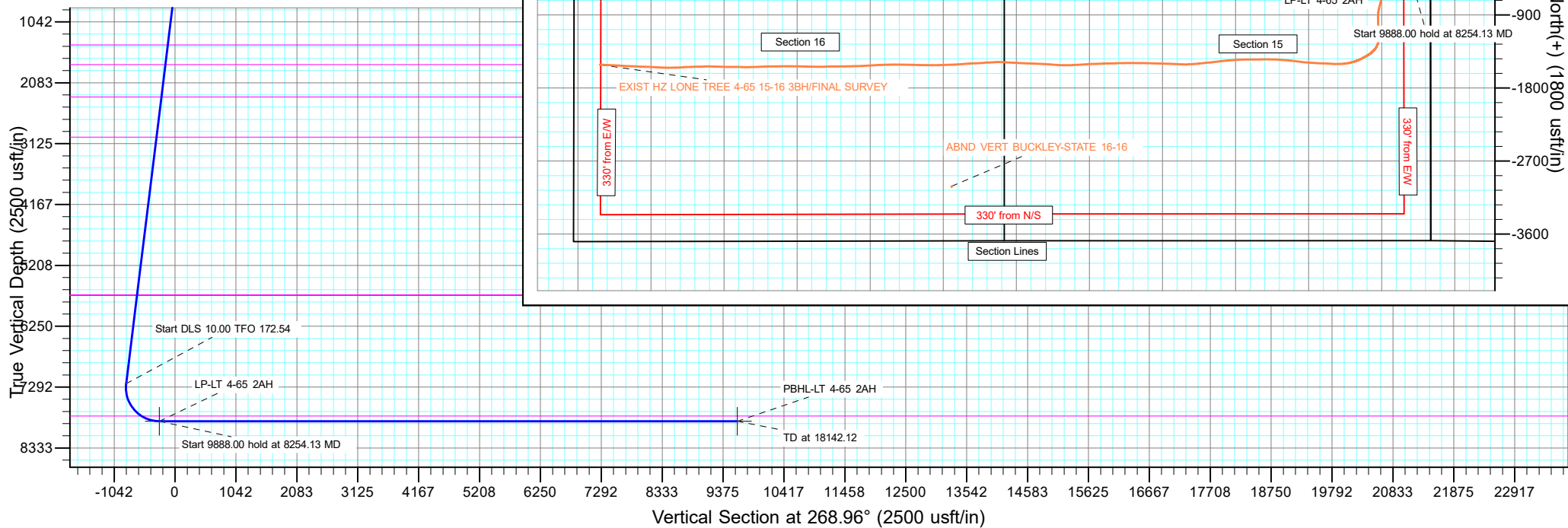
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-LT 4-65 2AH	7875.00	-117.65	270.10	1683314.97	3241379.88	39.706372°N	104.642074°W	Point
- plan hits target center								
PBHL-LT 4-65 2AH	7875.00	-174.49	-9617.73	1683164.86	3231493.10	39.706211°N	104.677217°W	Point
- plan hits target center								

PROJECT DETAILS: ARAPAHOE COUNTY

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

- SHL:  
1619' FNL, 600' FEL  
Sec 15-T4S-R65W
- LP:  
1740' FNL, 330' FEL  
Sec 15-T4S-R65W
- BHL:  
1740' FNL, 330' FWL  
Sec 16-T4S-R65W



## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

<b>Project</b> ARAPAHOE COUNTY			
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

<b>Site</b> SEC 15-T4S-R65W			
<b>Site Position:</b>		<b>Northing:</b>	1,685,061.36 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,241,690.88 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	39.711158°N
		<b>Longitude:</b>	104.640910°W
		<b>Grid Convergence:</b>	0.54 °

<b>Well</b> LONE TREE 4-65 15-16 2AH			
<b>Well Position</b>	<b>+N/-S</b>	-1,625.72 usft	<b>Northing:</b> 1,683,430.07 usft
	<b>+E/-W</b>	-597.60 usft	<b>Easting:</b> 3,241,108.68 usft
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>
			<b>Latitude:</b> 39.706695°N
			<b>Longitude:</b> 104.643034°W
			<b>Ground Level:</b> 5,697.80 usft

<b>Wellbore</b> OWB					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	2/10/2022	7.65	66.09	51,525.42565108

<b>Design</b> PROPOSAL 1				
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	268.96

<b>Plan Survey Tool Program</b>		<b>Date</b>	2/11/2022		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	18,142.12	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
603.98	7.08	97.08	603.08	-2.69	21.68	2.00	2.00	0.00	97.08	
7,283.93	7.08	97.08	7,232.10	-104.09	838.70	0.00	0.00	0.00	0.00	
8,254.13	90.00	269.67	7,875.00	-117.65	270.10	10.00	8.55	17.79	172.54	LP-LT 4-65 2AH
18,142.12	90.00	269.67	7,875.00	-174.49	-9,617.73	0.00	0.00	0.00	0.00	PBHL-LT 4-65 2AH

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
300.00	1.00	97.08	300.00	-0.05	0.43	-0.43	2.00	2.00	0.00
400.00	3.00	97.08	399.93	-0.48	3.90	-3.89	2.00	2.00	0.00
500.00	5.00	97.08	499.68	-1.34	10.82	-10.79	2.00	2.00	0.00
603.98	7.08	97.08	603.08	-2.69	21.68	-21.62	2.00	2.00	0.00
<b>Start 6679.95 hold at 603.98 MD</b>									
700.00	7.08	97.08	698.37	-4.15	33.42	-33.34	0.00	0.00	0.00
800.00	7.08	97.08	797.61	-5.67	45.65	-45.54	0.00	0.00	0.00
900.00	7.08	97.08	896.84	-7.18	57.88	-57.74	0.00	0.00	0.00
1,000.00	7.08	97.08	996.08	-8.70	70.11	-69.94	0.00	0.00	0.00
1,100.00	7.08	97.08	1,095.32	-10.22	82.34	-82.14	0.00	0.00	0.00
1,200.00	7.08	97.08	1,194.56	-11.74	94.57	-94.35	0.00	0.00	0.00
1,300.00	7.08	97.08	1,293.79	-13.26	106.81	-106.55	0.00	0.00	0.00
1,400.00	7.08	97.08	1,393.03	-14.77	119.04	-118.75	0.00	0.00	0.00
1,441.28	7.08	97.08	1,434.00	-15.40	124.09	-123.79	0.00	0.00	0.00
<b>Laramie</b>									
1,500.00	7.08	97.08	1,492.27	-16.29	131.27	-130.95	0.00	0.00	0.00
1,600.00	7.08	97.08	1,591.51	-17.81	143.50	-143.15	0.00	0.00	0.00
1,700.00	7.08	97.08	1,690.74	-19.33	155.73	-155.35	0.00	0.00	0.00
1,781.88	7.08	97.08	1,772.00	-20.57	165.74	-165.34	0.00	0.00	0.00
<b>Fox Hills</b>									
1,800.00	7.08	97.08	1,789.98	-20.85	167.96	-167.55	0.00	0.00	0.00
1,900.00	7.08	97.08	1,889.22	-22.36	180.19	-179.76	0.00	0.00	0.00
2,000.00	7.08	97.08	1,988.46	-23.88	192.42	-191.96	0.00	0.00	0.00
2,100.00	7.08	97.08	2,087.69	-25.40	204.65	-204.16	0.00	0.00	0.00
2,200.00	7.08	97.08	2,186.93	-26.92	216.88	-216.36	0.00	0.00	0.00
2,300.00	7.08	97.08	2,286.17	-28.44	229.11	-228.56	0.00	0.00	0.00
2,339.13	7.08	97.08	2,325.00	-29.03	233.90	-233.34	0.00	0.00	0.00
<b>Upper Pierre aquifer</b>									
2,400.00	7.08	97.08	2,385.41	-29.95	241.35	-240.76	0.00	0.00	0.00
2,500.00	7.08	97.08	2,484.64	-31.47	253.58	-252.96	0.00	0.00	0.00
2,600.00	7.08	97.08	2,583.88	-32.99	265.81	-265.17	0.00	0.00	0.00
2,700.00	7.08	97.08	2,683.12	-34.51	278.04	-277.37	0.00	0.00	0.00
2,800.00	7.08	97.08	2,782.36	-36.03	290.27	-289.57	0.00	0.00	0.00
2,900.00	7.08	97.08	2,881.59	-37.54	302.50	-301.77	0.00	0.00	0.00
3,000.00	7.08	97.08	2,980.83	-39.06	314.73	-313.97	0.00	0.00	0.00
3,032.41	7.08	97.08	3,013.00	-39.55	318.70	-317.93	0.00	0.00	0.00
<b>Base of Upper Pierre aquifer</b>									
3,100.00	7.08	97.08	3,080.07	-40.58	326.96	-326.17	0.00	0.00	0.00
3,200.00	7.08	97.08	3,179.31	-42.10	339.19	-338.37	0.00	0.00	0.00
3,300.00	7.08	97.08	3,278.55	-43.62	351.42	-350.58	0.00	0.00	0.00
3,400.00	7.08	97.08	3,377.78	-45.13	363.66	-362.78	0.00	0.00	0.00
3,500.00	7.08	97.08	3,477.02	-46.65	375.89	-374.98	0.00	0.00	0.00
3,600.00	7.08	97.08	3,576.26	-48.17	388.12	-387.18	0.00	0.00	0.00
3,700.00	7.08	97.08	3,675.50	-49.69	400.35	-399.38	0.00	0.00	0.00
3,800.00	7.08	97.08	3,774.73	-51.21	412.58	-411.58	0.00	0.00	0.00
3,900.00	7.08	97.08	3,873.97	-52.72	424.81	-423.78	0.00	0.00	0.00
4,000.00	7.08	97.08	3,973.21	-54.24	437.04	-435.99	0.00	0.00	0.00
4,100.00	7.08	97.08	4,072.45	-55.76	449.27	-448.19	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
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<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,200.00	7.08	97.08	4,171.68	-57.28	461.50	-460.39	0.00	0.00	0.00	
4,300.00	7.08	97.08	4,270.92	-58.80	473.73	-472.59	0.00	0.00	0.00	
4,400.00	7.08	97.08	4,370.16	-60.32	485.97	-484.79	0.00	0.00	0.00	
4,500.00	7.08	97.08	4,469.40	-61.83	498.20	-496.99	0.00	0.00	0.00	
4,600.00	7.08	97.08	4,568.63	-63.35	510.43	-509.19	0.00	0.00	0.00	
4,700.00	7.08	97.08	4,667.87	-64.87	522.66	-521.40	0.00	0.00	0.00	
4,800.00	7.08	97.08	4,767.11	-66.39	534.89	-533.60	0.00	0.00	0.00	
4,900.00	7.08	97.08	4,866.35	-67.91	547.12	-545.80	0.00	0.00	0.00	
5,000.00	7.08	97.08	4,965.58	-69.42	559.35	-558.00	0.00	0.00	0.00	
5,100.00	7.08	97.08	5,064.82	-70.94	571.58	-570.20	0.00	0.00	0.00	
5,200.00	7.08	97.08	5,164.06	-72.46	583.81	-582.40	0.00	0.00	0.00	
5,300.00	7.08	97.08	5,263.30	-73.98	596.04	-594.60	0.00	0.00	0.00	
5,400.00	7.08	97.08	5,362.53	-75.50	608.27	-606.81	0.00	0.00	0.00	
5,500.00	7.08	97.08	5,461.77	-77.01	620.51	-619.01	0.00	0.00	0.00	
5,600.00	7.08	97.08	5,561.01	-78.53	632.74	-631.21	0.00	0.00	0.00	
5,700.00	7.08	97.08	5,660.25	-80.05	644.97	-643.41	0.00	0.00	0.00	
5,756.18	7.08	97.08	5,716.00	-80.90	651.84	-650.26	0.00	0.00	0.00	
<b>Terry ("Sussex") - Hygiene ("Shannon") - Mitten - Mitten Marker 1 - Teepee Buttes - Mitten Marker 2 - Sharon Springs</b>										
5,800.00	7.08	97.08	5,759.49	-81.57	657.20	-655.61	0.00	0.00	0.00	
5,900.00	7.08	97.08	5,858.72	-83.09	669.43	-667.81	0.00	0.00	0.00	
6,000.00	7.08	97.08	5,957.96	-84.60	681.66	-680.01	0.00	0.00	0.00	
6,100.00	7.08	97.08	6,057.20	-86.12	693.89	-692.22	0.00	0.00	0.00	
6,200.00	7.08	97.08	6,156.44	-87.64	706.12	-704.42	0.00	0.00	0.00	
6,300.00	7.08	97.08	6,255.67	-89.16	718.35	-716.62	0.00	0.00	0.00	
6,400.00	7.08	97.08	6,354.91	-90.68	730.58	-728.82	0.00	0.00	0.00	
6,500.00	7.08	97.08	6,454.15	-92.19	742.82	-741.02	0.00	0.00	0.00	
6,600.00	7.08	97.08	6,553.39	-93.71	755.05	-753.22	0.00	0.00	0.00	
6,700.00	7.08	97.08	6,652.62	-95.23	767.28	-765.42	0.00	0.00	0.00	
6,800.00	7.08	97.08	6,751.86	-96.75	779.51	-777.63	0.00	0.00	0.00	
6,900.00	7.08	97.08	6,851.10	-98.27	791.74	-789.83	0.00	0.00	0.00	
7,000.00	7.08	97.08	6,950.34	-99.78	803.97	-802.03	0.00	0.00	0.00	
7,100.00	7.08	97.08	7,049.57	-101.30	816.20	-814.23	0.00	0.00	0.00	
7,200.00	7.08	97.08	7,148.81	-102.82	828.43	-826.43	0.00	0.00	0.00	
7,283.93	7.08	97.08	7,232.10	-104.09	838.70	-836.67	0.00	0.00	0.00	
<b>Start DLS 10.00 TFO 172.54</b>										
7,300.00	5.49	99.26	7,248.07	-104.34	840.44	-838.41	10.00	-9.89	13.57	
7,350.00	1.01	155.42	7,297.99	-105.12	842.98	-840.94	10.00	-8.97	112.33	
7,400.00	4.68	258.39	7,347.93	-105.93	841.17	-839.11	10.00	7.34	205.94	
7,450.00	9.63	264.26	7,397.53	-106.76	835.01	-832.93	10.00	9.91	11.74	
7,500.00	14.62	266.15	7,446.40	-107.61	824.54	-822.46	10.00	9.97	3.79	
7,550.00	19.61	267.10	7,494.17	-108.45	809.86	-807.76	10.00	9.98	1.89	
7,600.00	24.60	267.67	7,540.48	-109.30	791.07	-788.96	10.00	9.99	1.14	
7,650.00	29.60	268.06	7,584.98	-110.15	768.32	-766.19	10.00	9.99	0.78	
7,700.00	34.60	268.34	7,627.32	-110.98	741.77	-739.63	10.00	10.00	0.57	
7,750.00	39.60	268.56	7,667.19	-111.79	711.63	-709.49	10.00	10.00	0.44	
7,800.00	44.59	268.74	7,704.28	-112.57	678.13	-675.98	10.00	10.00	0.36	
7,850.00	49.59	268.89	7,738.31	-113.33	641.53	-639.37	10.00	10.00	0.30	
7,900.00	54.59	269.02	7,769.02	-114.05	602.10	-599.93	10.00	10.00	0.26	
7,928.61	57.45	269.09	7,785.00	-114.44	578.38	-576.21	10.00	10.00	0.23	
<b>Niobrara</b>										
7,950.00	59.59	269.13	7,796.17	-114.72	560.14	-557.97	10.00	10.00	0.22	
8,000.00	64.59	269.24	7,819.57	-115.35	515.97	-513.80	10.00	10.00	0.21	
8,050.00	69.59	269.33	7,839.03	-115.93	469.94	-467.76	10.00	10.00	0.19	

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,100.00	74.59	269.42	7,854.40	-116.45	422.38	-420.19	10.00	10.00	0.18
8,150.00	79.59	269.50	7,865.57	-116.91	373.66	-371.48	10.00	10.00	0.17
8,200.00	84.59	269.58	7,872.45	-117.30	324.15	-321.97	10.00	10.00	0.16
8,254.13	90.00	269.67	7,875.00	-117.65	270.10	-267.93	10.00	10.00	0.16
<b>Start 9888.00 hold at 8254.13 MD</b>									
8,300.00	90.00	269.67	7,875.00	-117.92	224.23	-222.06	0.00	0.00	0.00
8,400.00	90.00	269.67	7,875.00	-118.49	124.24	-122.07	0.00	0.00	0.00
8,500.00	90.00	269.67	7,875.00	-119.07	24.24	-22.07	0.00	0.00	0.00
8,600.00	90.00	269.67	7,875.00	-119.64	-75.76	77.92	0.00	0.00	0.00
8,700.00	90.00	269.67	7,875.00	-120.22	-175.76	177.91	0.00	0.00	0.00
8,800.00	90.00	269.67	7,875.00	-120.79	-275.76	277.90	0.00	0.00	0.00
8,900.00	90.00	269.67	7,875.00	-121.37	-375.76	377.90	0.00	0.00	0.00
9,000.00	90.00	269.67	7,875.00	-121.94	-475.75	477.89	0.00	0.00	0.00
9,100.00	90.00	269.67	7,875.00	-122.52	-575.75	577.88	0.00	0.00	0.00
9,200.00	90.00	269.67	7,875.00	-123.09	-675.75	677.87	0.00	0.00	0.00
9,300.00	90.00	269.67	7,875.00	-123.66	-775.75	777.87	0.00	0.00	0.00
9,400.00	90.00	269.67	7,875.00	-124.24	-875.75	877.86	0.00	0.00	0.00
9,500.00	90.00	269.67	7,875.00	-124.81	-975.75	977.85	0.00	0.00	0.00
9,600.00	90.00	269.67	7,875.00	-125.39	-1,075.74	1,077.84	0.00	0.00	0.00
9,700.00	90.00	269.67	7,875.00	-125.96	-1,175.74	1,177.83	0.00	0.00	0.00
9,800.00	90.00	269.67	7,875.00	-126.54	-1,275.74	1,277.83	0.00	0.00	0.00
9,900.00	90.00	269.67	7,875.00	-127.11	-1,375.74	1,377.82	0.00	0.00	0.00
10,000.00	90.00	269.67	7,875.00	-127.69	-1,475.74	1,477.81	0.00	0.00	0.00
10,100.00	90.00	269.67	7,875.00	-128.26	-1,575.74	1,577.80	0.00	0.00	0.00
10,200.00	90.00	269.67	7,875.00	-128.84	-1,675.73	1,677.80	0.00	0.00	0.00
10,300.00	90.00	269.67	7,875.00	-129.41	-1,775.73	1,777.79	0.00	0.00	0.00
10,400.00	90.00	269.67	7,875.00	-129.99	-1,875.73	1,877.78	0.00	0.00	0.00
10,500.00	90.00	269.67	7,875.00	-130.56	-1,975.73	1,977.77	0.00	0.00	0.00
10,600.00	90.00	269.67	7,875.00	-131.14	-2,075.73	2,077.77	0.00	0.00	0.00
10,700.00	90.00	269.67	7,875.00	-131.71	-2,175.73	2,177.76	0.00	0.00	0.00
10,800.00	90.00	269.67	7,875.00	-132.29	-2,275.72	2,277.75	0.00	0.00	0.00
10,900.00	90.00	269.67	7,875.00	-132.86	-2,375.72	2,377.74	0.00	0.00	0.00
11,000.00	90.00	269.67	7,875.00	-133.44	-2,475.72	2,477.73	0.00	0.00	0.00
11,100.00	90.00	269.67	7,875.00	-134.01	-2,575.72	2,577.73	0.00	0.00	0.00
11,200.00	90.00	269.67	7,875.00	-134.59	-2,675.72	2,677.72	0.00	0.00	0.00
11,300.00	90.00	269.67	7,875.00	-135.16	-2,775.72	2,777.71	0.00	0.00	0.00
11,400.00	90.00	269.67	7,875.00	-135.74	-2,875.71	2,877.70	0.00	0.00	0.00
11,500.00	90.00	269.67	7,875.00	-136.31	-2,975.71	2,977.70	0.00	0.00	0.00
11,600.00	90.00	269.67	7,875.00	-136.89	-3,075.71	3,077.69	0.00	0.00	0.00
11,700.00	90.00	269.67	7,875.00	-137.46	-3,175.71	3,177.68	0.00	0.00	0.00
11,800.00	90.00	269.67	7,875.00	-138.04	-3,275.71	3,277.67	0.00	0.00	0.00
11,900.00	90.00	269.67	7,875.00	-138.61	-3,375.71	3,377.67	0.00	0.00	0.00
12,000.00	90.00	269.67	7,875.00	-139.19	-3,475.71	3,477.66	0.00	0.00	0.00
12,100.00	90.00	269.67	7,875.00	-139.76	-3,575.70	3,577.65	0.00	0.00	0.00
12,200.00	90.00	269.67	7,875.00	-140.33	-3,675.70	3,677.64	0.00	0.00	0.00
12,300.00	90.00	269.67	7,875.00	-140.91	-3,775.70	3,777.63	0.00	0.00	0.00
12,400.00	90.00	269.67	7,875.00	-141.48	-3,875.70	3,877.63	0.00	0.00	0.00
12,500.00	90.00	269.67	7,875.00	-142.06	-3,975.70	3,977.62	0.00	0.00	0.00
12,600.00	90.00	269.67	7,875.00	-142.63	-4,075.70	4,077.61	0.00	0.00	0.00
12,700.00	90.00	269.67	7,875.00	-143.21	-4,175.69	4,177.60	0.00	0.00	0.00
12,800.00	90.00	269.67	7,875.00	-143.78	-4,275.69	4,277.60	0.00	0.00	0.00
12,900.00	90.00	269.67	7,875.00	-144.36	-4,375.69	4,377.59	0.00	0.00	0.00
13,000.00	90.00	269.67	7,875.00	-144.93	-4,475.69	4,477.58	0.00	0.00	0.00
13,100.00	90.00	269.67	7,875.00	-145.51	-4,575.69	4,577.57	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,200.00	90.00	269.67	7,875.00	-146.08	-4,675.69	4,677.57	0.00	0.00	0.00
13,300.00	90.00	269.67	7,875.00	-146.66	-4,775.68	4,777.56	0.00	0.00	0.00
13,400.00	90.00	269.67	7,875.00	-147.23	-4,875.68	4,877.55	0.00	0.00	0.00
13,500.00	90.00	269.67	7,875.00	-147.81	-4,975.68	4,977.54	0.00	0.00	0.00
13,600.00	90.00	269.67	7,875.00	-148.38	-5,075.68	5,077.54	0.00	0.00	0.00
13,700.00	90.00	269.67	7,875.00	-148.96	-5,175.68	5,177.53	0.00	0.00	0.00
13,800.00	90.00	269.67	7,875.00	-149.53	-5,275.68	5,277.52	0.00	0.00	0.00
13,900.00	90.00	269.67	7,875.00	-150.11	-5,375.67	5,377.51	0.00	0.00	0.00
14,000.00	90.00	269.67	7,875.00	-150.68	-5,475.67	5,477.50	0.00	0.00	0.00
14,100.00	90.00	269.67	7,875.00	-151.26	-5,575.67	5,577.50	0.00	0.00	0.00
14,200.00	90.00	269.67	7,875.00	-151.83	-5,675.67	5,677.49	0.00	0.00	0.00
14,300.00	90.00	269.67	7,875.00	-152.41	-5,775.67	5,777.48	0.00	0.00	0.00
14,400.00	90.00	269.67	7,875.00	-152.98	-5,875.67	5,877.47	0.00	0.00	0.00
14,500.00	90.00	269.67	7,875.00	-153.56	-5,975.66	5,977.47	0.00	0.00	0.00
14,600.00	90.00	269.67	7,875.00	-154.13	-6,075.66	6,077.46	0.00	0.00	0.00
14,700.00	90.00	269.67	7,875.00	-154.71	-6,175.66	6,177.45	0.00	0.00	0.00
14,800.00	90.00	269.67	7,875.00	-155.28	-6,275.66	6,277.44	0.00	0.00	0.00
14,900.00	90.00	269.67	7,875.00	-155.86	-6,375.66	6,377.44	0.00	0.00	0.00
15,000.00	90.00	269.67	7,875.00	-156.43	-6,475.66	6,477.43	0.00	0.00	0.00
15,100.00	90.00	269.67	7,875.00	-157.00	-6,575.65	6,577.42	0.00	0.00	0.00
15,200.00	90.00	269.67	7,875.00	-157.58	-6,675.65	6,677.41	0.00	0.00	0.00
15,300.00	90.00	269.67	7,875.00	-158.15	-6,775.65	6,777.40	0.00	0.00	0.00
15,400.00	90.00	269.67	7,875.00	-158.73	-6,875.65	6,877.40	0.00	0.00	0.00
15,500.00	90.00	269.67	7,875.00	-159.30	-6,975.65	6,977.39	0.00	0.00	0.00
15,600.00	90.00	269.67	7,875.00	-159.88	-7,075.65	7,077.38	0.00	0.00	0.00
15,700.00	90.00	269.67	7,875.00	-160.45	-7,175.64	7,177.37	0.00	0.00	0.00
15,800.00	90.00	269.67	7,875.00	-161.03	-7,275.64	7,277.37	0.00	0.00	0.00
15,900.00	90.00	269.67	7,875.00	-161.60	-7,375.64	7,377.36	0.00	0.00	0.00
16,000.00	90.00	269.67	7,875.00	-162.18	-7,475.64	7,477.35	0.00	0.00	0.00
16,100.00	90.00	269.67	7,875.00	-162.75	-7,575.64	7,577.34	0.00	0.00	0.00
16,200.00	90.00	269.67	7,875.00	-163.33	-7,675.64	7,677.34	0.00	0.00	0.00
16,300.00	90.00	269.67	7,875.00	-163.90	-7,775.63	7,777.33	0.00	0.00	0.00
16,400.00	90.00	269.67	7,875.00	-164.48	-7,875.63	7,877.32	0.00	0.00	0.00
16,500.00	90.00	269.67	7,875.00	-165.05	-7,975.63	7,977.31	0.00	0.00	0.00
16,600.00	90.00	269.67	7,875.00	-165.63	-8,075.63	8,077.30	0.00	0.00	0.00
16,700.00	90.00	269.67	7,875.00	-166.20	-8,175.63	8,177.30	0.00	0.00	0.00
16,800.00	90.00	269.67	7,875.00	-166.78	-8,275.63	8,277.29	0.00	0.00	0.00
16,900.00	90.00	269.67	7,875.00	-167.35	-8,375.62	8,377.28	0.00	0.00	0.00
17,000.00	90.00	269.67	7,875.00	-167.93	-8,475.62	8,477.27	0.00	0.00	0.00
17,100.00	90.00	269.67	7,875.00	-168.50	-8,575.62	8,577.27	0.00	0.00	0.00
17,200.00	90.00	269.67	7,875.00	-169.08	-8,675.62	8,677.26	0.00	0.00	0.00
17,300.00	90.00	269.67	7,875.00	-169.65	-8,775.62	8,777.25	0.00	0.00	0.00
17,400.00	90.00	269.67	7,875.00	-170.23	-8,875.62	8,877.24	0.00	0.00	0.00
17,500.00	90.00	269.67	7,875.00	-170.80	-8,975.61	8,977.24	0.00	0.00	0.00
17,600.00	90.00	269.67	7,875.00	-171.38	-9,075.61	9,077.23	0.00	0.00	0.00
17,700.00	90.00	269.67	7,875.00	-171.95	-9,175.61	9,177.22	0.00	0.00	0.00
17,800.00	90.00	269.67	7,875.00	-172.53	-9,275.61	9,277.21	0.00	0.00	0.00
17,900.00	90.00	269.67	7,875.00	-173.10	-9,375.61	9,377.21	0.00	0.00	0.00
18,000.00	90.00	269.67	7,875.00	-173.67	-9,475.61	9,477.20	0.00	0.00	0.00
18,100.00	90.00	269.67	7,875.00	-174.25	-9,575.60	9,577.19	0.00	0.00	0.00
18,142.12	90.00	269.67	7,875.00	-174.49	-9,617.73	9,619.31	0.00	0.00	0.00
<b>TD at 18142.12</b>									

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site:</b>	SEC 15-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-LT 4-65 2AH - plan hits target center - Point	0.00	0.00	7,875.00	-174.49	-9,617.73	1,683,164.86	3,231,493.11	39.706211°N	104.677217°W
LP-LT 4-65 2AH - plan hits target center - Point	0.00	0.00	7,875.00	-117.65	270.10	1,683,314.97	3,241,379.88	39.706372°N	104.642074°W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,441.28	1,434.00	Laramie				
1,781.88	1,772.00	Fox Hills				
2,339.13	2,325.00	Upper Pierre aquifer				
3,032.41	3,013.00	Base of Upper Pierre aquifer				
5,756.18	5,716.00	Terry ("Sussex")				
5,756.18	5,716.00	Hygiene ("Shannon")				
5,756.18	5,716.00	Mitten				
5,756.18	5,716.00	Mitten Marker 1				
5,756.18	5,716.00	Tepee Buttes				
5,756.18	5,716.00	Mitten Marker 2				
5,756.18	5,716.00	Sharon Springs				
7,928.61	7,785.00	Niobrara				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.00	250.00	0.00	0.00	Start Build 2.00	
603.98	603.08	-2.69	21.68	Start 6679.95 hold at 603.98 MD	
7,283.93	7,232.10	-104.09	838.70	Start DLS 10.00 TFO 172.54	
8,254.13	7,875.00	-117.65	270.10	Start 9888.00 hold at 8254.13 MD	
18,142.12	7,875.00	-174.49	-9,617.73	TD at 18142.12	

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY  
SEC 15-T4S-R65W  
LONE TREE 4-65 15-16 2AH**

**OWB  
PROPOSAL 1**

## **Anticollision Report**

**11 February, 2022**

### Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>		<b>Date</b> 2/11/2022	
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>
0.00	18,142.12	PROPOSAL 1 (OWB)	MWD OWSG
			<b>Description</b>
			OWSG MWD - Standard

<b>Summary</b>						
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 15-T4S-R65W						
ABND VERT BUCKLEY-STATE 16-16 - OWB - Design #	13,838.81	7,842.20	2,862.60	2,565.88	9.647	CC
ABND VERT BUCKLEY-STATE 16-16 - OWB - Design #	13,900.00	7,842.20	2,863.25	2,564.94	9.598	ES
ABND VERT BUCKLEY-STATE 16-16 - OWB - Design #	14,300.00	7,842.20	2,899.51	2,592.62	9.448	SF
ABND VERT STATE-SMITH 1-16 - OWB - Design #1	17,808.26	7,789.20	1,040.50	639.06	2.592	CC, ES, SF
EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL	712.47	706.80	246.95	242.25	52.616	CC
EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL	800.00	793.63	247.21	241.86	46.174	ES
EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL	18,142.12	17,542.00	1,342.02	810.02	2.523	SF
EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FI	7,314.73	7,247.24	297.34	250.84	6.394	CC, ES, SF
LONE TREE 4-65 15-16 1AH - OWB - PROPOSAL 1	250.00	251.20	100.17	98.82	74.278	CC, ES
LONE TREE 4-65 15-16 1AH - OWB - PROPOSAL 1	18,142.12	18,221.72	1,339.78	789.03	2.433	SF
LONE TREE 4-65 15-16 1BH - OWB - PROPOSAL 1	250.00	250.40	50.27	48.92	37.355	CC
LONE TREE 4-65 15-16 1BH - OWB - PROPOSAL 1	300.00	299.97	50.54	48.84	29.788	ES
LONE TREE 4-65 15-16 1BH - OWB - PROPOSAL 1	18,142.12	18,230.53	674.03	126.60	1.231	Level 2, SF
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	250.00	245.60	49.91	48.58	37.565	CC
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	300.00	295.11	50.08	48.40	29.894	ES
LONE TREE 4-65 15-16 2BH - OWB - PROPOSAL 1	18,142.12	18,248.33	674.56	127.44	1.233	Level 2, SF
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	250.00	245.60	99.81	98.48	75.130	CC
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	300.00	294.20	100.07	98.40	59.880	ES
LONE TREE 4-65 15-16 3CH - OWB - PROPOSAL 1	18,142.12	18,475.72	1,920.60	1,369.97	3.488	SF
LONE TREE 4-65 15-16 4AH - OWB - PROPOSAL 1	250.00	245.50	149.71	148.39	112.725	CC
LONE TREE 4-65 15-16 4AH - OWB - PROPOSAL 1	300.00	293.37	149.98	148.32	89.901	ES
LONE TREE 4-65 15-16 4AH - OWB - PROPOSAL 1	18,142.12	18,568.43	2,518.90	1,967.48	4.568	SF
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	250.00	245.50	199.98	198.66	150.575	CC
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	300.00	292.64	200.25	198.59	120.215	ES
LONE TREE 4-65 15-16 4BH - OWB - PROPOSAL 1	18,142.12	18,838.38	3,119.86	2,568.52	5.659	SF
PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSA	250.00	250.80	75.04	73.69	55.703	CC, ES
PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSA	7,900.00	7,803.54	1,318.74	1,258.38	21.850	SF
PROSPER FARMS 4-65 14-13 1BH - OWB - PROPOSA	250.00	249.90	25.13	23.79	18.702	CC, ES
PROSPER FARMS 4-65 14-13 1BH - OWB - PROPOSA	7,963.22	7,863.71	553.69	493.83	9.249	SF
PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSA	250.00	245.30	24.78	23.45	18.665	CC
PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSA	300.00	294.94	25.05	23.37	14.965	ES
PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSA	500.00	492.92	33.61	30.54	10.935	SF
PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSA	250.00	245.60	74.68	73.35	56.210	CC
PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSA	300.00	294.47	74.96	73.29	44.832	ES
PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSA	7,850.00	7,723.17	1,392.38	1,331.43	22.844	SF
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	250.00	245.60	124.94	123.62	94.049	CC
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	300.00	293.72	125.23	123.56	75.013	ES

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
SEC 15-T4S-R65W						
PROSPER FARMS 4-65 14-13 3BH - OWB - PROPOSA	9,100.00	7,571.46	2,121.65	2,051.00	30.030	SF
PROSPER FARMS 4-65 14-13 4AH - OWB - PROPOSA	250.00	245.50	174.85	173.53	131.653	CC
PROSPER FARMS 4-65 14-13 4AH - OWB - PROPOSA	300.00	292.91	175.14	173.47	105.083	ES
PROSPER FARMS 4-65 14-13 4AH - OWB - PROPOSA	9,700.00	7,366.05	2,861.35	2,780.11	35.222	SF
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	250.00	245.50	224.75	223.43	169.225	CC
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	300.00	292.21	225.03	223.37	135.216	ES
PROSPER FARMS 4-65 14-13 4BH - OWB - PROPOSA	10,200.00	7,152.02	3,491.43	3,401.19	38.689	SF

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	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-119.62	-3,012.31	-5,298.03	6,094.61						
100.00	100.00	67.20	67.20	0.13	0.53	-119.62	-3,012.31	-5,298.03	6,094.52	6,093.86	0.66	9,203.230			
200.00	200.00	167.20	167.20	0.49	1.96	-119.62	-3,012.31	-5,298.03	6,094.52	6,092.07	2.45	2,486.382			
250.00	250.00	217.20	217.20	0.67	2.83	-119.62	-3,012.31	-5,298.03	6,094.52	6,091.02	3.50	1,739.770			
300.00	300.00	267.20	267.20	0.85	3.70	143.30	-3,012.31	-5,298.03	6,094.87	6,090.32	4.55	1,339.355			
400.00	399.93	367.13	367.13	1.20	5.45	143.29	-3,012.31	-5,298.03	6,097.67	6,091.02	6.65	917.632			
500.00	499.68	466.88	466.88	1.56	7.19	143.26	-3,012.31	-5,298.03	6,103.26	6,094.52	8.75	697.737			
603.98	603.08	570.28	570.28	1.95	8.99	143.22	-3,012.31	-5,298.03	6,112.05	6,101.11	10.94	558.847			
700.00	698.37	665.57	665.57	2.33	10.66	143.28	-3,012.31	-5,298.03	6,121.55	6,108.59	12.96	472.360			
800.00	797.61	764.81	764.81	2.73	12.39	143.35	-3,012.31	-5,298.03	6,131.46	6,116.40	15.07	406.964			
900.00	896.84	864.04	864.04	3.13	14.12	143.42	-3,012.31	-5,298.03	6,141.38	6,124.21	17.18	357.557			
1,000.00	996.08	963.28	963.28	3.54	15.85	143.49	-3,012.31	-5,298.03	6,151.31	6,132.02	19.29	318.928			
1,100.00	1,095.32	1,062.52	1,062.52	3.95	17.58	143.56	-3,012.31	-5,298.03	6,161.25	6,139.85	21.40	287.906			
1,200.00	1,194.56	1,161.76	1,161.76	4.36	19.32	143.62	-3,012.31	-5,298.03	6,171.19	6,147.68	23.51	262.450			
1,300.00	1,293.79	1,260.99	1,260.99	4.77	21.05	143.69	-3,012.31	-5,298.03	6,181.15	6,155.52	25.63	241.186			
1,400.00	1,393.03	1,360.23	1,360.23	5.18	22.78	143.76	-3,012.31	-5,298.03	6,191.11	6,163.37	27.74	223.161			
1,500.00	1,492.27	1,459.47	1,459.47	5.59	24.51	143.83	-3,012.31	-5,298.03	6,201.08	6,171.22	29.86	207.686			
1,600.00	1,591.51	1,558.71	1,558.71	6.00	26.24	143.89	-3,012.31	-5,298.03	6,211.06	6,179.09	31.97	194.258			
1,700.00	1,690.74	1,657.94	1,657.94	6.41	27.98	143.96	-3,012.31	-5,298.03	6,221.05	6,186.96	34.09	182.495			
1,800.00	1,789.98	1,757.18	1,757.18	6.83	29.71	144.03	-3,012.31	-5,298.03	6,231.05	6,194.84	36.20	172.107			
1,900.00	1,889.22	1,856.42	1,856.42	7.24	31.44	144.09	-3,012.31	-5,298.03	6,241.05	6,202.73	38.32	162.866			
2,000.00	1,988.46	1,955.66	1,955.66	7.65	33.17	144.16	-3,012.31	-5,298.03	6,251.06	6,210.63	40.44	154.591			
2,100.00	2,087.69	2,054.89	2,054.89	8.07	34.90	144.22	-3,012.31	-5,298.03	6,261.08	6,218.53	42.55	147.140			
2,200.00	2,186.93	2,154.13	2,154.13	8.48	36.64	144.29	-3,012.31	-5,298.03	6,271.11	6,226.45	44.67	140.395			
2,300.00	2,286.17	2,253.37	2,253.37	8.89	38.37	144.35	-3,012.31	-5,298.03	6,281.15	6,234.37	46.78	134.259			
2,400.00	2,385.41	2,352.61	2,352.61	9.31	40.10	144.42	-3,012.31	-5,298.03	6,291.20	6,242.30	48.90	128.655			
2,500.00	2,484.64	2,451.84	2,451.84	9.72	41.83	144.49	-3,012.31	-5,298.03	6,301.25	6,250.24	51.02	123.517			
2,600.00	2,583.88	2,551.08	2,551.08	10.13	43.56	144.55	-3,012.31	-5,298.03	6,311.31	6,258.18	53.13	118.787			
2,700.00	2,683.12	2,650.32	2,650.32	10.55	45.30	144.61	-3,012.31	-5,298.03	6,321.38	6,266.14	55.25	114.420			
2,800.00	2,782.36	2,749.56	2,749.56	10.96	47.03	144.68	-3,012.31	-5,298.03	6,331.46	6,274.10	57.36	110.376			
2,900.00	2,881.59	2,848.79	2,848.79	11.38	48.76	144.74	-3,012.31	-5,298.03	6,341.55	6,282.07	59.48	106.619			
3,000.00	2,980.83	2,948.03	2,948.03	11.79	50.49	144.81	-3,012.31	-5,298.03	6,351.64	6,290.05	61.59	103.121			
3,100.00	3,080.07	3,047.27	3,047.27	12.21	52.22	144.87	-3,012.31	-5,298.03	6,361.74	6,298.03	63.71	99.855			
3,200.00	3,179.31	3,146.51	3,146.51	12.62	53.96	144.93	-3,012.31	-5,298.03	6,371.85	6,306.02	65.83	96.799			
3,300.00	3,278.55	3,245.75	3,245.75	13.03	55.69	145.00	-3,012.31	-5,298.03	6,381.97	6,314.03	67.94	93.934			
3,400.00	3,377.78	3,344.98	3,344.98	13.45	57.42	145.06	-3,012.31	-5,298.03	6,392.09	6,322.04	70.06	91.242			

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

### Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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		
3,500.00	3,477.02	3,444.22	3,444.22	13.86	59.15	145.12	-3,012.31	-5,298.03	6,402.22	6,330.05	72.17	88.708		
3,600.00	3,576.26	3,543.46	3,543.46	14.28	60.89	145.19	-3,012.31	-5,298.03	6,412.36	6,338.08	74.29	86.319		
3,700.00	3,675.50	3,642.70	3,642.70	14.69	62.62	145.25	-3,012.31	-5,298.03	6,422.51	6,346.11	76.40	84.062		
3,800.00	3,774.73	3,741.93	3,741.93	15.11	64.35	145.31	-3,012.31	-5,298.03	6,432.67	6,354.15	78.52	81.927		
3,900.00	3,873.97	3,841.17	3,841.17	15.52	66.08	145.37	-3,012.31	-5,298.03	6,442.83	6,362.20	80.63	79.904		
4,000.00	3,973.21	3,940.41	3,940.41	15.93	67.81	145.44	-3,012.31	-5,298.03	6,453.00	6,370.25	82.75	77.985		
4,100.00	4,072.45	4,039.65	4,039.65	16.35	69.55	145.50	-3,012.31	-5,298.03	6,463.18	6,378.32	84.86	76.161		
4,200.00	4,171.68	4,138.88	4,138.88	16.76	71.28	145.56	-3,012.31	-5,298.03	6,473.37	6,386.39	86.98	74.426		
4,300.00	4,270.92	4,238.12	4,238.12	17.18	73.01	145.62	-3,012.31	-5,298.03	6,483.56	6,394.47	89.09	72.774		
4,400.00	4,370.16	4,337.36	4,337.36	17.59	74.74	145.68	-3,012.31	-5,298.03	6,493.76	6,402.55	91.21	71.198		
4,500.00	4,469.40	4,436.60	4,436.60	18.01	76.47	145.74	-3,012.31	-5,298.03	6,503.97	6,410.65	93.32	69.694		
4,600.00	4,568.63	4,535.83	4,535.83	18.42	78.21	145.80	-3,012.31	-5,298.03	6,514.18	6,418.75	95.44	68.257		
4,700.00	4,667.87	4,635.07	4,635.07	18.84	79.94	145.87	-3,012.31	-5,298.03	6,524.40	6,426.85	97.55	66.883		
4,800.00	4,767.11	4,734.31	4,734.31	19.25	81.67	145.93	-3,012.31	-5,298.03	6,534.63	6,434.97	99.66	65.566		
4,900.00	4,866.35	4,833.55	4,833.55	19.66	83.40	145.99	-3,012.31	-5,298.03	6,544.87	6,443.09	101.78	64.305		
5,000.00	4,965.58	4,932.78	4,932.78	20.08	85.13	146.05	-3,012.31	-5,298.03	6,555.11	6,451.22	103.89	63.095		
5,100.00	5,064.82	5,032.02	5,032.02	20.49	86.87	146.11	-3,012.31	-5,298.03	6,565.37	6,459.36	106.01	61.933		
5,200.00	5,164.06	5,131.26	5,131.26	20.91	88.60	146.17	-3,012.31	-5,298.03	6,575.62	6,467.50	108.12	60.817		
5,300.00	5,263.30	5,230.50	5,230.50	21.32	90.33	146.23	-3,012.31	-5,298.03	6,585.89	6,475.65	110.24	59.744		
5,400.00	5,362.53	5,329.73	5,329.73	21.74	92.06	146.28	-3,012.31	-5,298.03	6,596.16	6,483.81	112.35	58.711		
5,500.00	5,461.77	5,428.97	5,428.97	22.15	93.79	146.34	-3,012.31	-5,298.03	6,606.44	6,491.98	114.46	57.717		
5,600.00	5,561.01	5,528.21	5,528.21	22.57	95.53	146.40	-3,012.31	-5,298.03	6,616.73	6,500.15	116.58	56.758		
5,700.00	5,660.25	5,627.45	5,627.45	22.98	97.26	146.46	-3,012.31	-5,298.03	6,627.02	6,508.33	118.69	55.834		
5,800.00	5,759.49	5,726.69	5,726.69	23.40	98.99	146.52	-3,012.31	-5,298.03	6,637.32	6,516.52	120.80	54.943		
5,900.00	5,858.72	5,825.92	5,825.92	23.81	100.72	146.58	-3,012.31	-5,298.03	6,647.63	6,524.71	122.92	54.082		
6,000.00	5,957.96	5,925.16	5,925.16	24.23	102.45	146.64	-3,012.31	-5,298.03	6,657.94	6,532.91	125.03	53.250		
6,100.00	6,057.20	6,024.40	6,024.40	24.64	104.19	146.70	-3,012.31	-5,298.03	6,668.26	6,541.12	127.15	52.446		
6,200.00	6,156.44	6,123.64	6,123.64	25.05	105.92	146.75	-3,012.31	-5,298.03	6,678.59	6,549.33	129.26	51.668		
6,300.00	6,255.67	6,222.87	6,222.87	25.47	107.65	146.81	-3,012.31	-5,298.03	6,688.93	6,557.55	131.37	50.916		
6,400.00	6,354.91	6,322.11	6,322.11	25.88	109.38	146.87	-3,012.31	-5,298.03	6,699.27	6,565.78	133.49	50.187		
6,500.00	6,454.15	6,421.35	6,421.35	26.30	111.11	146.93	-3,012.31	-5,298.03	6,709.61	6,574.02	135.60	49.481		
6,600.00	6,553.39	6,520.59	6,520.59	26.71	112.85	146.98	-3,012.31	-5,298.03	6,719.97	6,582.26	137.71	48.797		
6,700.00	6,652.62	6,619.82	6,619.82	27.13	114.58	147.04	-3,012.31	-5,298.03	6,730.33	6,590.51	139.82	48.134		
6,800.00	6,751.86	6,719.06	6,719.06	27.54	116.31	147.10	-3,012.31	-5,298.03	6,740.70	6,598.76	141.94	47.490		
6,900.00	6,851.10	6,818.30	6,818.30	27.96	118.04	147.15	-3,012.31	-5,298.03	6,751.07	6,607.02	144.05	46.866		
7,000.00	6,950.34	6,917.54	6,917.54	28.37	119.77	147.21	-3,012.31	-5,298.03	6,761.45	6,615.29	146.16	46.259		
7,100.00	7,049.57	7,016.77	7,016.77	28.79	121.51	147.27	-3,012.31	-5,298.03	6,771.84	6,623.56	148.28	45.670		
7,200.00	7,148.81	7,116.01	7,116.01	29.20	123.24	147.32	-3,012.31	-5,298.03	6,782.23	6,631.84	150.39	45.098		
7,283.93	7,232.10	7,200.70	7,199.30	29.55	124.72	147.37	-3,012.31	-5,298.03	6,790.96	6,638.78	152.19	44.622		
7,300.00	7,248.07	7,215.27	7,215.27	29.61	124.97	145.27	-3,012.31	-5,298.03	6,792.43	6,639.93	152.50	44.540		
7,350.00	7,297.99	7,265.19	7,265.19	29.79	125.84	89.24	-3,012.31	-5,298.03	6,794.40	6,640.85	153.55	44.249		
7,400.00	7,347.93	7,315.13	7,315.13	29.93	126.71	-13.77	-3,012.31	-5,298.03	6,792.41	6,637.83	154.57	43.943		
7,450.00	7,397.53	7,364.73	7,364.73	30.03	127.58	-19.87	-3,012.31	-5,298.03	6,786.48	6,630.91	155.57	43.622		
7,500.00	7,446.40	7,413.60	7,413.60	30.12	128.43	-22.18	-3,012.31	-5,298.03	6,776.67	6,620.12	156.55	43.288		
7,550.00	7,494.17	7,461.37	7,461.37	30.19	129.27	-23.76	-3,012.31	-5,298.03	6,763.04	6,605.55	157.49	42.942		
7,600.00	7,540.48	7,507.68	7,507.68	30.24	130.07	-25.19	-3,012.31	-5,298.03	6,745.71	6,587.32	158.40	42.588		
7,650.00	7,584.98	7,552.18	7,552.18	30.28	130.85	-26.70	-3,012.31	-5,298.03	6,724.82	6,565.56	159.26	42.226		
7,700.00	7,627.32	7,605.48	7,594.52	30.31	131.78	-28.41	-3,012.31	-5,298.03	6,700.52	6,540.26	160.26	41.811		
7,750.00	7,667.19	7,634.39	7,634.39	30.33	132.29	-30.40	-3,012.31	-5,298.03	6,673.01	6,512.19	160.82	41.493		
7,800.00	7,704.28	7,671.48	7,671.48	30.36	132.93	-32.77	-3,012.31	-5,298.03	6,642.52	6,481.00	161.52	41.125		
7,850.00	7,738.31	7,705.51	7,705.51	30.40	133.53	-35.61	-3,012.31	-5,298.03	6,609.27	6,447.12	162.15	40.759		
7,900.00	7,769.02	7,736.22	7,736.22	30.45	134.06	-39.06	-3,012.31	-5,298.03	6,573.54	6,410.82	162.73	40.396		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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		
7,950.00	7,796.17	7,763.37	7,763.37	30.52	134.54	-43.24	-3,012.31	-5,298.03	6,535.61	6,372.37	163.23	40.038		
8,000.00	7,819.57	7,786.77	7,786.77	30.63	134.94	-48.31	-3,012.31	-5,298.03	6,495.77	6,332.10	163.67	39.687		
8,050.00	7,839.03	7,806.23	7,806.23	30.76	135.28	-54.43	-3,012.31	-5,298.03	6,454.34	6,290.29	164.05	39.344		
8,100.00	7,854.40	7,821.60	7,821.60	30.94	135.55	-61.70	-3,012.31	-5,298.03	6,411.64	6,247.28	164.35	39.011		
8,150.00	7,865.57	7,832.77	7,832.77	31.15	135.75	-70.11	-3,012.31	-5,298.03	6,368.00	6,203.41	164.59	38.689		
8,200.00	7,872.45	7,839.65	7,839.65	31.41	135.87	-79.44	-3,012.31	-5,298.03	6,323.77	6,159.00	164.77	38.380		
8,254.13	7,875.00	7,842.20	7,842.20	31.72	135.91	-90.00	-3,012.31	-5,298.03	6,275.60	6,110.72	164.88	38.061		
8,300.00	7,875.00	7,842.20	7,842.20	32.03	135.91	-90.00	-3,012.31	-5,298.03	6,234.82	6,069.87	164.95	37.798		
8,400.00	7,875.00	7,842.20	7,842.20	32.86	135.91	-90.00	-3,012.31	-5,298.03	6,146.15	5,981.00	165.15	37.215		
8,500.00	7,875.00	7,842.20	7,842.20	33.88	135.91	-90.00	-3,012.31	-5,298.03	6,057.84	5,892.42	165.42	36.622		
8,600.00	7,875.00	7,842.20	7,842.20	35.09	135.91	-90.00	-3,012.31	-5,298.03	5,969.90	5,804.14	165.75	36.017		
8,700.00	7,875.00	7,842.20	7,842.20	36.45	135.91	-90.00	-3,012.31	-5,298.03	5,882.34	5,716.17	166.16	35.401		
8,800.00	7,875.00	7,842.20	7,842.20	37.96	135.91	-90.00	-3,012.31	-5,298.03	5,795.18	5,628.53	166.65	34.774		
8,900.00	7,875.00	7,842.20	7,842.20	39.60	135.91	-90.00	-3,012.31	-5,298.03	5,708.45	5,541.23	167.22	34.138		
9,000.00	7,875.00	7,842.20	7,842.20	41.34	135.91	-90.00	-3,012.31	-5,298.03	5,622.15	5,454.28	167.87	33.491		
9,100.00	7,875.00	7,842.20	7,842.20	43.19	135.91	-90.00	-3,012.31	-5,298.03	5,536.32	5,367.72	168.60	32.836		
9,200.00	7,875.00	7,842.20	7,842.20	45.12	135.91	-90.00	-3,012.31	-5,298.03	5,450.97	5,281.54	169.43	32.173		
9,300.00	7,875.00	7,842.20	7,842.20	47.12	135.91	-90.00	-3,012.31	-5,298.03	5,366.13	5,195.79	170.34	31.503		
9,400.00	7,875.00	7,842.20	7,842.20	49.19	135.91	-90.00	-3,012.31	-5,298.03	5,281.81	5,110.47	171.34	30.826		
9,500.00	7,875.00	7,842.20	7,842.20	51.32	135.91	-90.00	-3,012.31	-5,298.03	5,198.06	5,025.62	172.44	30.145		
9,600.00	7,875.00	7,842.20	7,842.20	53.50	135.91	-90.00	-3,012.31	-5,298.03	5,114.88	4,941.26	173.63	29.459		
9,700.00	7,875.00	7,842.20	7,842.20	55.72	135.91	-90.00	-3,012.31	-5,298.03	5,032.32	4,857.41	174.91	28.771		
9,800.00	7,875.00	7,842.20	7,842.20	57.98	135.91	-90.00	-3,012.31	-5,298.03	4,950.40	4,774.12	176.29	28.081		
9,900.00	7,875.00	7,842.20	7,842.20	60.28	135.91	-90.00	-3,012.31	-5,298.03	4,869.16	4,691.40	177.76	27.391		
10,000.00	7,875.00	7,842.20	7,842.20	62.61	135.91	-90.00	-3,012.31	-5,298.03	4,788.63	4,609.30	179.33	26.702		
10,100.00	7,875.00	7,842.20	7,842.20	64.97	135.91	-90.00	-3,012.31	-5,298.03	4,708.84	4,527.84	181.00	26.015		
10,200.00	7,875.00	7,842.20	7,842.20	67.35	135.91	-90.00	-3,012.31	-5,298.03	4,629.84	4,447.07	182.77	25.331		
10,300.00	7,875.00	7,842.20	7,842.20	69.75	135.91	-90.00	-3,012.31	-5,298.03	4,551.67	4,367.03	184.64	24.652		
10,400.00	7,875.00	7,842.20	7,842.20	72.18	135.91	-90.00	-3,012.31	-5,298.03	4,474.36	4,287.76	186.60	23.978		
10,500.00	7,875.00	7,842.20	7,842.20	74.62	135.91	-90.00	-3,012.31	-5,298.03	4,397.97	4,209.30	188.67	23.311		
10,600.00	7,875.00	7,842.20	7,842.20	77.08	135.91	-90.00	-3,012.31	-5,298.03	4,322.55	4,131.71	190.83	22.651		
10,700.00	7,875.00	7,842.20	7,842.20	79.56	135.91	-90.00	-3,012.31	-5,298.03	4,248.13	4,055.03	193.10	21.999		
10,800.00	7,875.00	7,842.20	7,842.20	82.05	135.91	-90.00	-3,012.31	-5,298.03	4,174.79	3,979.32	195.47	21.358		
10,900.00	7,875.00	7,842.20	7,842.20	84.55	135.91	-90.00	-3,012.31	-5,298.03	4,102.57	3,904.63	197.94	20.726		
11,000.00	7,875.00	7,842.20	7,842.20	87.06	135.91	-90.00	-3,012.31	-5,298.03	4,031.54	3,831.03	200.51	20.106		
11,100.00	7,875.00	7,842.20	7,842.20	89.58	135.91	-90.00	-3,012.31	-5,298.03	3,961.77	3,758.58	203.19	19.498		
11,200.00	7,875.00	7,842.20	7,842.20	92.11	135.91	-90.00	-3,012.31	-5,298.03	3,893.30	3,687.34	205.96	18.903		
11,300.00	7,875.00	7,842.20	7,842.20	94.66	135.91	-90.00	-3,012.31	-5,298.03	3,826.23	3,617.39	208.84	18.321		
11,400.00	7,875.00	7,842.20	7,842.20	97.20	135.91	-90.00	-3,012.31	-5,298.03	3,760.62	3,548.81	211.82	17.754		
11,500.00	7,875.00	7,842.20	7,842.20	99.76	135.91	-90.00	-3,012.31	-5,298.03	3,696.56	3,481.67	214.89	17.202		
11,600.00	7,875.00	7,842.20	7,842.20	102.32	135.91	-90.00	-3,012.31	-5,298.03	3,634.11	3,416.05	218.06	16.666		
11,700.00	7,875.00	7,842.20	7,842.20	104.89	135.91	-90.00	-3,012.31	-5,298.03	3,573.37	3,352.05	221.32	16.146		
11,800.00	7,875.00	7,842.20	7,842.20	107.47	135.91	-90.00	-3,012.31	-5,298.03	3,514.43	3,289.76	224.67	15.643		
11,900.00	7,875.00	7,842.20	7,842.20	110.05	135.91	-90.00	-3,012.31	-5,298.03	3,457.38	3,229.28	228.11	15.157		
12,000.00	7,875.00	7,842.20	7,842.20	112.64	135.91	-90.00	-3,012.31	-5,298.03	3,402.31	3,170.69	231.62	14.689		
12,100.00	7,875.00	7,842.20	7,842.20	115.23	135.91	-90.00	-3,012.31	-5,298.03	3,349.32	3,114.12	235.21	14.240		
12,200.00	7,875.00	7,842.20	7,842.20	117.82	135.91	-90.00	-3,012.31	-5,298.03	3,298.51	3,059.66	238.86	13.810		
12,300.00	7,875.00	7,842.20	7,842.20	120.42	135.91	-90.00	-3,012.31	-5,298.03	3,249.99	3,007.42	242.57	13.398		
12,400.00	7,875.00	7,842.20	7,842.20	123.03	135.91	-90.00	-3,012.31	-5,298.03	3,203.85	2,957.53	246.32	13.007		
12,500.00	7,875.00	7,842.20	7,842.20	125.64	135.91	-90.00	-3,012.31	-5,298.03	3,160.21	2,910.10	250.11	12.635		
12,600.00	7,875.00	7,842.20	7,842.20	128.25	135.91	-90.00	-3,012.31	-5,298.03	3,119.16	2,865.24	253.92	12.284		
12,700.00	7,875.00	7,842.20	7,842.20	130.86	135.91	-90.00	-3,012.31	-5,298.03	3,080.81	2,823.07	257.74	11.953		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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			
12,800.00	7,875.00	7,842.20	7,842.20	133.48	135.91	-90.00	-3,012.31	-5,298.03	3,045.26	2,783.70	261.56	11.643			
12,900.00	7,875.00	7,842.20	7,842.20	136.10	135.91	-90.00	-3,012.31	-5,298.03	3,012.62	2,747.26	265.35	11.353			
13,000.00	7,875.00	7,842.20	7,842.20	138.72	135.91	-90.00	-3,012.31	-5,298.03	2,982.97	2,713.86	269.11	11.085			
13,100.00	7,875.00	7,842.20	7,842.20	141.35	135.91	-90.00	-3,012.31	-5,298.03	2,956.40	2,683.60	272.81	10.837			
13,200.00	7,875.00	7,842.20	7,842.20	143.98	135.91	-90.00	-3,012.31	-5,298.03	2,933.01	2,656.58	276.43	10.610			
13,300.00	7,875.00	7,842.20	7,842.20	146.61	135.91	-90.00	-3,012.31	-5,298.03	2,912.87	2,632.90	279.97	10.404			
13,400.00	7,875.00	7,842.20	7,842.20	149.24	135.91	-90.00	-3,012.31	-5,298.03	2,896.04	2,612.64	283.39	10.219			
13,500.00	7,875.00	7,842.20	7,842.20	151.87	135.91	-90.00	-3,012.31	-5,298.03	2,882.58	2,595.89	286.69	10.055			
13,600.00	7,875.00	7,842.20	7,842.20	154.51	135.91	-90.00	-3,012.31	-5,298.03	2,872.55	2,582.69	289.85	9.910			
13,700.00	7,875.00	7,842.20	7,842.20	157.15	135.91	-90.00	-3,012.31	-5,298.03	2,865.96	2,573.12	292.85	9.787			
13,800.00	7,875.00	7,842.20	7,842.20	159.79	135.91	-90.00	-3,012.31	-5,298.03	2,862.86	2,567.19	295.68	9.682			
13,838.81	7,875.00	7,842.20	7,842.20	160.81	135.91	-90.00	-3,012.31	-5,298.03	2,862.60	2,565.88	296.72	9.647	CC		
13,900.00	7,875.00	7,842.20	7,842.20	162.43	135.91	-90.00	-3,012.31	-5,298.03	2,863.25	2,564.94	298.32	9.598	ES		
14,000.00	7,875.00	7,842.20	7,842.20	165.07	135.91	-90.00	-3,012.31	-5,298.03	2,867.14	2,566.37	300.77	9.533			
14,100.00	7,875.00	7,842.20	7,842.20	167.72	135.91	-90.00	-3,012.31	-5,298.03	2,874.49	2,571.48	303.02	9.486			
14,200.00	7,875.00	7,842.20	7,842.20	170.36	135.91	-90.00	-3,012.31	-5,298.03	2,885.30	2,580.24	305.06	9.458			
14,300.00	7,875.00	7,842.20	7,842.20	173.01	135.91	-90.00	-3,012.31	-5,298.03	2,899.51	2,592.62	306.89	9.448	SF		
14,400.00	7,875.00	7,842.20	7,842.20	175.66	135.91	-90.00	-3,012.31	-5,298.03	2,917.09	2,608.58	308.51	9.455			
14,500.00	7,875.00	7,842.20	7,842.20	178.31	135.91	-90.00	-3,012.31	-5,298.03	2,937.97	2,628.04	309.93	9.480			
14,600.00	7,875.00	7,842.20	7,842.20	180.96	135.91	-90.00	-3,012.31	-5,298.03	2,962.08	2,650.94	311.14	9.520			
14,700.00	7,875.00	7,842.20	7,842.20	183.61	135.91	-90.00	-3,012.31	-5,298.03	2,989.34	2,677.19	312.14	9.577			
14,800.00	7,875.00	7,842.20	7,842.20	186.27	135.91	-90.00	-3,012.31	-5,298.03	3,019.66	2,706.70	312.96	9.649			
14,900.00	7,875.00	7,842.20	7,842.20	188.92	135.91	-90.00	-3,012.31	-5,298.03	3,052.97	2,739.37	313.59	9.735			
15,000.00	7,875.00	7,842.20	7,842.20	191.58	135.91	-90.00	-3,012.31	-5,298.03	3,089.15	2,775.10	314.05	9.836			
15,100.00	7,875.00	7,842.20	7,842.20	194.24	135.91	-90.00	-3,012.31	-5,298.03	3,128.11	2,813.76	314.35	9.951			
15,200.00	7,875.00	7,842.20	7,842.20	196.89	135.91	-90.00	-3,012.31	-5,298.03	3,169.75	2,855.26	314.49	10.079			
15,300.00	7,875.00	7,842.20	7,842.20	199.55	135.91	-90.00	-3,012.31	-5,298.03	3,213.96	2,899.48	314.49	10.220			
15,400.00	7,875.00	7,842.20	7,842.20	202.21	135.91	-90.00	-3,012.31	-5,298.03	3,260.64	2,946.29	314.35	10.373			
15,500.00	7,875.00	7,842.20	7,842.20	204.87	135.91	-90.00	-3,012.31	-5,298.03	3,309.69	2,995.58	314.10	10.537			
15,600.00	7,875.00	7,842.20	7,842.20	207.53	135.91	-90.00	-3,012.31	-5,298.03	3,360.99	3,047.25	313.74	10.713			
15,700.00	7,875.00	7,842.20	7,842.20	210.20	135.91	-90.00	-3,012.31	-5,298.03	3,414.45	3,101.17	313.29	10.899			
15,800.00	7,875.00	7,842.20	7,842.20	212.86	135.91	-90.00	-3,012.31	-5,298.03	3,469.98	3,157.23	312.74	11.095			
15,900.00	7,875.00	7,842.20	7,842.20	215.52	135.91	-90.00	-3,012.31	-5,298.03	3,527.46	3,215.34	312.12	11.302			
16,000.00	7,875.00	7,842.20	7,842.20	218.19	135.91	-90.00	-3,012.31	-5,298.03	3,586.81	3,275.38	311.43	11.517			
16,100.00	7,875.00	7,842.20	7,842.20	220.85	135.91	-90.00	-3,012.31	-5,298.03	3,647.94	3,337.25	310.69	11.742			
16,200.00	7,875.00	7,842.20	7,842.20	223.52	135.91	-90.00	-3,012.31	-5,298.03	3,710.75	3,400.87	309.89	11.975			
16,300.00	7,875.00	7,842.20	7,842.20	226.18	135.91	-90.00	-3,012.31	-5,298.03	3,775.17	3,466.13	309.04	12.216			
16,400.00	7,875.00	7,842.20	7,842.20	228.85	135.91	-90.00	-3,012.31	-5,298.03	3,841.11	3,532.95	308.16	12.465			
16,500.00	7,875.00	7,842.20	7,842.20	231.52	135.91	-90.00	-3,012.31	-5,298.03	3,908.50	3,601.25	307.25	12.721			
16,600.00	7,875.00	7,842.20	7,842.20	234.18	135.91	-90.00	-3,012.31	-5,298.03	3,977.26	3,670.95	306.32	12.984			
16,700.00	7,875.00	7,842.20	7,842.20	236.85	135.91	-90.00	-3,012.31	-5,298.03	4,047.33	3,741.97	305.36	13.254			
16,800.00	7,875.00	7,842.20	7,842.20	239.52	135.91	-90.00	-3,012.31	-5,298.03	4,118.63	3,814.24	304.39	13.531			
16,900.00	7,875.00	7,842.20	7,842.20	242.19	135.91	-90.00	-3,012.31	-5,298.03	4,191.10	3,887.69	303.41	13.813			
17,000.00	7,875.00	7,842.20	7,842.20	244.86	135.91	-90.00	-3,012.31	-5,298.03	4,264.69	3,962.27	302.42	14.102			
17,100.00	7,875.00	7,842.20	7,842.20	247.53	135.91	-90.00	-3,012.31	-5,298.03	4,339.33	4,037.91	301.43	14.396			
17,200.00	7,875.00	7,842.20	7,842.20	250.20	135.91	-90.00	-3,012.31	-5,298.03	4,414.98	4,114.55	300.43	14.696			
17,300.00	7,875.00	7,842.20	7,842.20	252.87	135.91	-90.00	-3,012.31	-5,298.03	4,491.58	4,192.14	299.44	15.000			
17,400.00	7,875.00	7,842.20	7,842.20	255.54	135.91	-90.00	-3,012.31	-5,298.03	4,569.08	4,270.64	298.45	15.310			
17,500.00	7,875.00	7,842.20	7,842.20	258.21	135.91	-90.00	-3,012.31	-5,298.03	4,647.45	4,349.99	297.46	15.624			
17,600.00	7,875.00	7,842.20	7,842.20	260.89	135.91	-90.00	-3,012.31	-5,298.03	4,726.63	4,430.14	296.48	15.942			
17,700.00	7,875.00	7,842.20	7,842.20	263.56	135.91	-90.00	-3,012.31	-5,298.03	4,806.58	4,511.07	295.51	16.265			
17,800.00	7,875.00	7,842.20	7,842.20	266.23	135.91	-90.00	-3,012.31	-5,298.03	4,887.28	4,592.72	294.56	16.592			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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
17,900.00	7,875.00	7,842.20	7,842.20	268.91	135.91	-90.00	-3,012.31	-5,298.03	4,968.67	4,675.07	293.61	16.923	
18,000.00	7,875.00	7,842.20	7,842.20	271.58	135.91	-90.00	-3,012.31	-5,298.03	5,050.74	4,758.07	292.67	17.257	
18,100.00	7,875.00	7,842.20	7,842.20	274.25	135.91	-90.00	-3,012.31	-5,298.03	5,133.44	4,841.69	291.75	17.595	
18,142.12	7,875.00	7,842.20	7,842.20	275.38	135.91	-90.00	-3,012.31	-5,298.03	5,168.46	4,877.10	291.36	17.739	

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - ABND VERT STATE-SMITH 1-16 - 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	-84.66	867.91	-9,289.85	9,330.69						
100.00	100.00	14.20	14.20	0.13	0.11	-84.66	867.91	-9,289.85	9,330.30	9,330.05	0.25	N/A			
200.00	200.00	114.20	114.20	0.49	1.03	-84.66	867.91	-9,289.85	9,330.30	9,328.77	1.53	6,113.682			
250.00	250.00	164.20	164.20	0.67	1.91	-84.66	867.91	-9,289.85	9,330.30	9,327.72	2.58	3,619.152			
300.00	300.00	214.20	214.20	0.85	2.78	178.26	867.91	-9,289.85	9,330.74	9,327.11	3.63	2,573.521			
400.00	399.93	314.13	314.13	1.20	4.52	178.26	867.91	-9,289.85	9,334.22	9,328.50	5.72	1,631.785			
500.00	499.68	413.88	413.88	1.56	6.26	178.26	867.91	-9,289.85	9,341.20	9,333.38	7.82	1,194.401			
603.98	603.08	517.28	517.28	1.95	8.07	178.25	867.91	-9,289.85	9,352.13	9,342.13	10.00	934.897			
700.00	698.37	612.57	612.57	2.33	9.73	178.26	867.91	-9,289.85	9,363.96	9,351.95	12.01	779.467			
800.00	797.61	711.81	711.81	2.73	11.46	178.26	867.91	-9,289.85	9,376.28	9,362.18	14.10	664.827			
900.00	896.84	811.04	811.04	3.13	13.20	178.26	867.91	-9,289.85	9,388.60	9,372.40	16.20	579.705			
1,000.00	996.08	910.28	910.28	3.54	14.93	178.26	867.91	-9,289.85	9,400.92	9,382.63	18.29	514.019			
1,100.00	1,095.32	1,009.52	1,009.52	3.95	16.66	178.26	867.91	-9,289.85	9,413.24	9,392.85	20.38	461.804			
1,200.00	1,194.56	1,108.76	1,108.76	4.36	18.39	178.27	867.91	-9,289.85	9,425.56	9,403.08	22.48	419.306			
1,300.00	1,293.79	1,207.99	1,207.99	4.77	20.12	178.27	867.91	-9,289.85	9,437.88	9,413.30	24.57	384.047			
1,400.00	1,393.03	1,307.23	1,307.23	5.18	21.86	178.27	867.91	-9,289.85	9,450.20	9,423.52	26.67	354.324			
1,500.00	1,492.27	1,406.47	1,406.47	5.59	23.59	178.27	867.91	-9,289.85	9,462.51	9,433.75	28.77	328.928			
1,600.00	1,591.51	1,505.71	1,505.71	6.00	25.32	178.28	867.91	-9,289.85	9,474.83	9,443.97	30.86	306.980			
1,700.00	1,690.74	1,604.94	1,604.94	6.41	27.05	178.28	867.91	-9,289.85	9,487.15	9,454.19	32.96	287.823			
1,800.00	1,789.98	1,704.18	1,704.18	6.83	28.78	178.28	867.91	-9,289.85	9,499.47	9,464.41	35.06	270.956			
1,900.00	1,889.22	1,803.42	1,803.42	7.24	30.52	178.28	867.91	-9,289.85	9,511.79	9,474.64	37.16	255.992			
2,000.00	1,988.46	1,902.66	1,902.66	7.65	32.25	178.28	867.91	-9,289.85	9,524.11	9,484.86	39.25	242.626			
2,100.00	2,087.69	2,001.89	2,001.89	8.07	33.98	178.29	867.91	-9,289.85	9,536.43	9,495.08	41.35	230.616			
2,200.00	2,186.93	2,101.13	2,101.13	8.48	35.71	178.29	867.91	-9,289.85	9,548.75	9,505.30	43.45	219.765			
2,300.00	2,286.17	2,200.37	2,200.37	8.89	37.44	178.29	867.91	-9,289.85	9,561.07	9,515.52	45.55	209.913			
2,400.00	2,385.41	2,300.39	2,299.61	9.31	39.19	178.29	867.91	-9,289.85	9,573.39	9,525.73	47.66	200.871			
2,500.00	2,484.64	2,401.16	2,398.84	9.72	40.95	178.30	867.91	-9,289.85	9,585.71	9,535.92	49.78	192.545			
2,600.00	2,583.88	2,501.92	2,498.08	10.13	42.71	178.30	867.91	-9,289.85	9,598.03	9,546.12	51.91	184.901			
2,700.00	2,683.12	2,602.68	2,597.32	10.55	44.47	178.30	867.91	-9,289.85	9,610.35	9,556.31	54.03	177.858			
2,800.00	2,782.36	2,703.44	2,696.56	10.96	46.22	178.30	867.91	-9,289.85	9,622.67	9,566.51	56.16	171.348			
2,900.00	2,881.59	2,804.21	2,795.79	11.38	47.98	178.30	867.91	-9,289.85	9,634.99	9,576.70	58.28	165.313			
3,000.00	2,980.83	2,904.97	2,895.03	11.79	49.74	178.31	867.91	-9,289.85	9,647.31	9,586.90	60.41	159.701			
3,100.00	3,080.07	3,005.73	2,994.27	12.21	51.50	178.31	867.91	-9,289.85	9,659.63	9,597.09	62.53	154.472			
3,200.00	3,179.31	3,106.49	3,093.51	12.62	53.26	178.31	867.91	-9,289.85	9,671.94	9,607.29	64.66	149.585			
3,300.00	3,278.55	3,207.25	3,192.75	13.03	55.02	178.31	867.91	-9,289.85	9,684.26	9,617.48	66.78	145.010			
3,400.00	3,377.78	3,308.02	3,291.98	13.45	56.78	178.32	867.91	-9,289.85	9,696.58	9,627.68	68.91	140.717			
3,500.00	3,477.02	3,408.78	3,391.22	13.86	58.53	178.32	867.91	-9,289.85	9,708.90	9,637.87	71.03	136.680			
3,600.00	3,576.26	3,509.54	3,490.46	14.28	60.29	178.32	867.91	-9,289.85	9,721.22	9,648.06	73.16	132.879			
3,700.00	3,675.50	3,589.70	3,589.70	14.69	61.69	178.32	867.91	-9,289.85	9,733.54	9,658.62	74.92	129.912			
3,800.00	3,774.73	3,688.93	3,688.93	15.11	63.42	178.32	867.91	-9,289.85	9,745.86	9,668.84	77.02	126.532			
3,900.00	3,873.97	3,788.17	3,788.17	15.52	65.16	178.33	867.91	-9,289.85	9,758.18	9,679.06	79.12	123.332			
4,000.00	3,973.21	3,887.41	3,887.41	15.93	66.89	178.33	867.91	-9,289.85	9,770.50	9,689.28	81.22	120.297			
4,100.00	4,072.45	3,986.65	3,986.65	16.35	68.62	178.33	867.91	-9,289.85	9,782.82	9,699.50	83.32	117.415			
4,200.00	4,171.68	4,085.88	4,085.88	16.76	70.35	178.33	867.91	-9,289.85	9,795.14	9,709.72	85.42	114.674			
4,300.00	4,270.92	4,185.12	4,185.12	17.18	72.08	178.33	867.91	-9,289.85	9,807.46	9,719.94	87.52	112.065			
4,400.00	4,370.16	4,284.36	4,284.36	17.59	73.82	178.34	867.91	-9,289.85	9,819.78	9,730.17	89.61	109.578			
4,500.00	4,469.40	4,383.60	4,383.60	18.01	75.55	178.34	867.91	-9,289.85	9,832.10	9,740.39	91.71	107.205			
4,600.00	4,568.63	4,482.83	4,482.83	18.42	77.28	178.34	867.91	-9,289.85	9,844.42	9,750.61	93.81	104.937			
4,700.00	4,667.87	4,582.07	4,582.07	18.84	79.01	178.34	867.91	-9,289.85	9,856.74	9,760.83	95.91	102.770			
4,800.00	4,767.11	4,681.31	4,681.31	19.25	80.74	178.34	867.91	-9,289.85	9,869.06	9,771.05	98.01	100.695			
4,900.00	4,866.35	4,780.55	4,780.55	19.66	82.48	178.35	867.91	-9,289.85	9,881.38	9,781.27	100.11	98.707			
5,000.00	4,965.58	4,879.78	4,879.78	20.08	84.21	178.35	867.91	-9,289.85	9,893.70	9,791.49	102.21	96.800			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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		
5,100.00	5,064.82	4,979.02	4,979.02	20.49	85.94	178.35	867.91	-9,289.85	9,906.02	9,801.71	104.31	94.970		
5,200.00	5,164.06	5,078.26	5,078.26	20.91	87.67	178.35	867.91	-9,289.85	9,918.34	9,811.93	106.41	93.213		
5,300.00	5,263.30	5,177.50	5,177.50	21.32	89.40	178.35	867.91	-9,289.85	9,930.66	9,822.15	108.50	91.523		
5,400.00	5,362.53	5,276.73	5,276.73	21.74	91.14	178.36	867.91	-9,289.85	9,942.98	9,832.37	110.60	89.898		
5,500.00	5,461.77	5,375.97	5,375.97	22.15	92.87	178.36	867.91	-9,289.85	9,955.30	9,842.60	112.70	88.333		
5,600.00	5,561.01	5,475.21	5,475.21	22.57	94.60	178.36	867.91	-9,289.85	9,967.62	9,852.82	114.80	86.825		
5,700.00	5,660.25	5,574.45	5,574.45	22.98	96.33	178.36	867.91	-9,289.85	9,979.94	9,863.04	116.90	85.372		
5,800.00	5,759.49	5,673.69	5,673.69	23.40	98.06	178.37	867.91	-9,289.85	9,992.26	9,873.26	119.00	83.969		
7,850.00	7,738.31	7,652.51	7,652.51	30.40	132.60	10.35	867.91	-9,289.85	9,979.73	9,819.52	160.21	62.291		
7,900.00	7,769.02	7,683.22	7,683.22	30.45	133.14	11.38	867.91	-9,289.85	9,940.56	9,779.78	160.78	61.827		
7,950.00	7,796.17	7,710.37	7,710.37	30.52	133.61	12.81	867.91	-9,289.85	9,898.88	9,737.60	161.28	61.378		
8,000.00	7,819.57	7,733.77	7,733.77	30.63	134.02	14.85	867.91	-9,289.85	9,854.99	9,693.29	161.70	60.946		
8,050.00	7,839.03	7,753.23	7,753.23	30.76	134.36	17.90	867.91	-9,289.85	9,809.24	9,647.19	162.05	60.533		
8,100.00	7,854.40	7,768.60	7,768.60	30.94	134.63	22.79	867.91	-9,289.85	9,761.98	9,599.66	162.32	60.139		
8,150.00	7,865.57	7,779.77	7,779.77	31.15	134.82	31.49	867.91	-9,289.85	9,713.56	9,551.03	162.52	59.768		
8,200.00	7,872.45	7,786.65	7,786.65	31.41	134.94	49.34	867.91	-9,289.85	9,664.35	9,501.70	162.65	59.419		
8,254.13	7,875.00	7,789.20	7,789.20	31.72	134.99	90.00	867.91	-9,289.85	9,610.62	9,447.92	162.70	59.070		
8,300.00	7,875.00	7,789.20	7,789.20	32.03	134.99	90.00	867.91	-9,289.85	9,565.02	9,402.31	162.71	58.787		
8,400.00	7,875.00	7,789.20	7,789.20	32.86	134.99	90.00	867.91	-9,289.85	9,465.62	9,302.89	162.73	58.168		
8,500.00	7,875.00	7,789.20	7,789.20	33.88	134.99	90.00	867.91	-9,289.85	9,366.23	9,203.48	162.75	57.548		
8,600.00	7,875.00	7,789.20	7,789.20	35.09	134.99	90.00	867.91	-9,289.85	9,266.86	9,104.07	162.78	56.927		
8,700.00	7,875.00	7,789.20	7,789.20	36.45	134.99	90.00	867.91	-9,289.85	9,167.49	9,004.67	162.82	56.304		
8,800.00	7,875.00	7,789.20	7,789.20	37.96	134.99	90.00	867.91	-9,289.85	9,068.15	8,905.28	162.86	55.679		
8,900.00	7,875.00	7,789.20	7,789.20	39.60	134.99	90.00	867.91	-9,289.85	8,968.82	8,805.90	162.91	55.053		
9,000.00	7,875.00	7,789.20	7,789.20	41.34	134.99	90.00	867.91	-9,289.85	8,869.50	8,706.53	162.97	54.426		
9,100.00	7,875.00	7,789.20	7,789.20	43.19	134.99	90.00	867.91	-9,289.85	8,770.20	8,607.17	163.03	53.797		
9,200.00	7,875.00	7,789.20	7,789.20	45.12	134.99	90.00	867.91	-9,289.85	8,670.91	8,507.82	163.09	53.166		
9,300.00	7,875.00	7,789.20	7,789.20	47.12	134.99	90.00	867.91	-9,289.85	8,571.64	8,408.48	163.17	52.533		
9,400.00	7,875.00	7,789.20	7,789.20	49.19	134.99	90.00	867.91	-9,289.85	8,472.39	8,309.14	163.25	51.899		
9,500.00	7,875.00	7,789.20	7,789.20	51.32	134.99	90.00	867.91	-9,289.85	8,373.16	8,209.82	163.34	51.263		
9,600.00	7,875.00	7,789.20	7,789.20	53.50	134.99	90.00	867.91	-9,289.85	8,273.94	8,110.51	163.43	50.625		
9,700.00	7,875.00	7,789.20	7,789.20	55.72	134.99	90.00	867.91	-9,289.85	8,174.74	8,011.20	163.54	49.986		
9,800.00	7,875.00	7,789.20	7,789.20	57.98	134.99	90.00	867.91	-9,289.85	8,075.57	7,911.91	163.65	49.345		
9,900.00	7,875.00	7,789.20	7,789.20	60.28	134.99	90.00	867.91	-9,289.85	7,976.41	7,812.63	163.78	48.702		
10,000.00	7,875.00	7,789.20	7,789.20	62.61	134.99	90.00	867.91	-9,289.85	7,877.28	7,713.36	163.91	48.058		
10,100.00	7,875.00	7,789.20	7,789.20	64.97	134.99	90.00	867.91	-9,289.85	7,778.16	7,614.11	164.06	47.412		
10,200.00	7,875.00	7,789.20	7,789.20	67.35	134.99	90.00	867.91	-9,289.85	7,679.07	7,514.86	164.21	46.763		
10,300.00	7,875.00	7,789.20	7,789.20	69.75	134.99	90.00	867.91	-9,289.85	7,580.01	7,415.63	164.38	46.114		
10,400.00	7,875.00	7,789.20	7,789.20	72.18	134.99	90.00	867.91	-9,289.85	7,480.97	7,316.41	164.55	45.462		
10,500.00	7,875.00	7,789.20	7,789.20	74.62	134.99	90.00	867.91	-9,289.85	7,381.95	7,217.21	164.74	44.808		
10,600.00	7,875.00	7,789.20	7,789.20	77.08	134.99	90.00	867.91	-9,289.85	7,282.97	7,118.02	164.95	44.153		
10,700.00	7,875.00	7,789.20	7,789.20	79.56	134.99	90.00	867.91	-9,289.85	7,184.01	7,018.84	165.16	43.496		
10,800.00	7,875.00	7,789.20	7,789.20	82.05	134.99	90.00	867.91	-9,289.85	7,085.07	6,919.68	165.40	42.837		
10,900.00	7,875.00	7,789.20	7,789.20	84.55	134.99	90.00	867.91	-9,289.85	6,986.17	6,820.53	165.64	42.176		
11,000.00	7,875.00	7,789.20	7,789.20	87.06	134.99	90.00	867.91	-9,289.85	6,887.31	6,721.40	165.90	41.514		
11,100.00	7,875.00	7,789.20	7,789.20	89.58	134.99	90.00	867.91	-9,289.85	6,788.47	6,622.29	166.18	40.850		
11,200.00	7,875.00	7,789.20	7,789.20	92.11	134.99	90.00	867.91	-9,289.85	6,689.67	6,523.19	166.48	40.183		
11,300.00	7,875.00	7,789.20	7,789.20	94.66	134.99	90.00	867.91	-9,289.85	6,590.91	6,424.11	166.79	39.516		
11,400.00	7,875.00	7,789.20	7,789.20	97.20	134.99	90.00	867.91	-9,289.85	6,492.18	6,325.05	167.13	38.846		
11,500.00	7,875.00	7,789.20	7,789.20	99.76	134.99	90.00	867.91	-9,289.85	6,393.49	6,226.01	167.48	38.175		
11,600.00	7,875.00	7,789.20	7,789.20	102.32	134.99	90.00	867.91	-9,289.85	6,294.85	6,126.99	167.85	37.502		
11,700.00	7,875.00	7,789.20	7,789.20	104.89	134.99	90.00	867.91	-9,289.85	6,196.24	6,027.99	168.25	36.827		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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		
11,800.00	7,875.00	7,789.20	7,789.20	107.47	134.99	90.00	867.91	-9,289.85	6,097.69	5,929.01	168.67	36.151		
11,900.00	7,875.00	7,789.20	7,789.20	110.05	134.99	90.00	867.91	-9,289.85	5,999.18	5,830.06	169.12	35.474		
12,000.00	7,875.00	7,789.20	7,789.20	112.64	134.99	90.00	867.91	-9,289.85	5,900.72	5,731.13	169.59	34.795		
12,100.00	7,875.00	7,789.20	7,789.20	115.23	134.99	90.00	867.91	-9,289.85	5,802.31	5,632.23	170.09	34.114		
12,200.00	7,875.00	7,789.20	7,789.20	117.82	134.99	90.00	867.91	-9,289.85	5,703.96	5,533.35	170.61	33.432		
12,300.00	7,875.00	7,789.20	7,789.20	120.42	134.99	90.00	867.91	-9,289.85	5,605.67	5,434.50	171.17	32.749		
12,400.00	7,875.00	7,789.20	7,789.20	123.03	134.99	90.00	867.91	-9,289.85	5,507.44	5,335.68	171.76	32.065		
12,500.00	7,875.00	7,789.20	7,789.20	125.64	134.99	90.00	867.91	-9,289.85	5,409.27	5,236.89	172.38	31.380		
12,600.00	7,875.00	7,789.20	7,789.20	128.25	134.99	90.00	867.91	-9,289.85	5,311.17	5,138.13	173.04	30.694		
12,700.00	7,875.00	7,789.20	7,789.20	130.86	134.99	90.00	867.91	-9,289.85	5,213.15	5,039.41	173.73	30.006		
12,800.00	7,875.00	7,789.20	7,789.20	133.48	134.99	90.00	867.91	-9,289.85	5,115.20	4,940.73	174.47	29.319		
12,900.00	7,875.00	7,789.20	7,789.20	136.10	134.99	90.00	867.91	-9,289.85	5,017.33	4,842.09	175.25	28.630		
13,000.00	7,875.00	7,789.20	7,789.20	138.72	134.99	90.00	867.91	-9,289.85	4,919.55	4,743.48	176.07	27.941		
13,100.00	7,875.00	7,789.20	7,789.20	141.35	134.99	90.00	867.91	-9,289.85	4,821.86	4,644.92	176.93	27.252		
13,200.00	7,875.00	7,789.20	7,789.20	143.98	134.99	90.00	867.91	-9,289.85	4,724.26	4,546.41	177.85	26.563		
13,300.00	7,875.00	7,789.20	7,789.20	146.61	134.99	90.00	867.91	-9,289.85	4,626.77	4,447.95	178.82	25.874		
13,400.00	7,875.00	7,789.20	7,789.20	149.24	134.99	90.00	867.91	-9,289.85	4,529.39	4,349.54	179.85	25.185		
13,500.00	7,875.00	7,789.20	7,789.20	151.87	134.99	90.00	867.91	-9,289.85	4,432.12	4,251.19	180.93	24.496		
13,600.00	7,875.00	7,789.20	7,789.20	154.51	134.99	90.00	867.91	-9,289.85	4,334.98	4,152.90	182.08	23.809		
13,700.00	7,875.00	7,789.20	7,789.20	157.15	134.99	90.00	867.91	-9,289.85	4,237.97	4,054.68	183.29	23.122		
13,800.00	7,875.00	7,789.20	7,789.20	159.79	134.99	90.00	867.91	-9,289.85	4,141.11	3,956.53	184.58	22.436		
13,900.00	7,875.00	7,789.20	7,789.20	162.43	134.99	90.00	867.91	-9,289.85	4,044.39	3,858.46	185.94	21.752		
14,000.00	7,875.00	7,789.20	7,789.20	165.07	134.99	90.00	867.91	-9,289.85	3,947.84	3,760.46	187.38	21.069		
14,100.00	7,875.00	7,789.20	7,789.20	167.72	134.99	90.00	867.91	-9,289.85	3,851.47	3,662.56	188.91	20.388		
14,200.00	7,875.00	7,789.20	7,789.20	170.36	134.99	90.00	867.91	-9,289.85	3,755.28	3,564.76	190.53	19.710		
14,300.00	7,875.00	7,789.20	7,789.20	173.01	134.99	90.00	867.91	-9,289.85	3,659.30	3,467.06	192.25	19.034		
14,400.00	7,875.00	7,789.20	7,789.20	175.66	134.99	90.00	867.91	-9,289.85	3,563.54	3,369.47	194.07	18.362		
14,500.00	7,875.00	7,789.20	7,789.20	178.31	134.99	90.00	867.91	-9,289.85	3,468.02	3,272.01	196.01	17.693		
14,600.00	7,875.00	7,789.20	7,789.20	180.96	134.99	90.00	867.91	-9,289.85	3,372.77	3,174.69	198.08	17.027		
14,700.00	7,875.00	7,789.20	7,789.20	183.61	134.99	90.00	867.91	-9,289.85	3,277.79	3,077.51	200.28	16.366		
14,800.00	7,875.00	7,789.20	7,789.20	186.27	134.99	90.00	867.91	-9,289.85	3,183.12	2,980.50	202.62	15.710		
14,900.00	7,875.00	7,789.20	7,789.20	188.92	134.99	90.00	867.91	-9,289.85	3,088.79	2,883.67	205.11	15.059		
15,000.00	7,875.00	7,789.20	7,789.20	191.58	134.99	90.00	867.91	-9,289.85	2,994.82	2,787.04	207.78	14.414		
15,100.00	7,875.00	7,789.20	7,789.20	194.24	134.99	90.00	867.91	-9,289.85	2,901.26	2,690.64	210.62	13.775		
15,200.00	7,875.00	7,789.20	7,789.20	196.89	134.99	90.00	867.91	-9,289.85	2,808.14	2,594.48	213.66	13.143		
15,300.00	7,875.00	7,789.20	7,789.20	199.55	134.99	90.00	867.91	-9,289.85	2,715.51	2,498.59	216.92	12.519		
15,400.00	7,875.00	7,789.20	7,789.20	202.21	134.99	90.00	867.91	-9,289.85	2,623.42	2,403.01	220.41	11.903		
15,500.00	7,875.00	7,789.20	7,789.20	204.87	134.99	90.00	867.91	-9,289.85	2,531.93	2,307.78	224.15	11.296		
15,600.00	7,875.00	7,789.20	7,789.20	207.53	134.99	90.00	867.91	-9,289.85	2,441.11	2,212.94	228.17	10.699		
15,700.00	7,875.00	7,789.20	7,789.20	210.20	134.99	90.00	867.91	-9,289.85	2,351.04	2,118.54	232.49	10.112		
15,800.00	7,875.00	7,789.20	7,789.20	212.86	134.99	90.00	867.91	-9,289.85	2,261.80	2,024.65	237.15	9.538		
15,900.00	7,875.00	7,789.20	7,789.20	215.52	134.99	90.00	867.91	-9,289.85	2,173.50	1,931.34	242.16	8.976		
16,000.00	7,875.00	7,789.20	7,789.20	218.19	134.99	90.00	867.91	-9,289.85	2,086.25	1,838.69	247.56	8.427		
16,100.00	7,875.00	7,789.20	7,789.20	220.85	134.99	90.00	867.91	-9,289.85	2,000.20	1,746.81	253.39	7.894		
16,200.00	7,875.00	7,789.20	7,789.20	223.52	134.99	90.00	867.91	-9,289.85	1,915.50	1,655.82	259.67	7.377		
16,300.00	7,875.00	7,789.20	7,789.20	226.18	134.99	90.00	867.91	-9,289.85	1,832.34	1,565.88	266.46	6.877		
16,400.00	7,875.00	7,789.20	7,789.20	228.85	134.99	90.00	867.91	-9,289.85	1,750.95	1,477.17	273.78	6.396		
16,500.00	7,875.00	7,789.20	7,789.20	231.52	134.99	90.00	867.91	-9,289.85	1,671.58	1,389.92	281.66	5.935		
16,600.00	7,875.00	7,789.20	7,789.20	234.18	134.99	90.00	867.91	-9,289.85	1,594.53	1,304.41	290.12	5.496		
16,700.00	7,875.00	7,789.20	7,789.20	236.85	134.99	90.00	867.91	-9,289.85	1,520.16	1,220.97	299.19	5.081		
16,800.00	7,875.00	7,789.20	7,789.20	239.52	134.99	90.00	867.91	-9,289.85	1,448.87	1,140.02	308.85	4.691		
16,900.00	7,875.00	7,789.20	7,789.20	242.19	134.99	90.00	867.91	-9,289.85	1,381.15	1,062.09	319.06	4.329		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	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	
17,000.00	7,875.00	7,789.20	7,789.20	244.86	134.99	90.00	867.91	-9,289.85	1,317.54	987.80	329.75	3.996	
17,100.00	7,875.00	7,789.20	7,789.20	247.53	134.99	90.00	867.91	-9,289.85	1,258.68	917.91	340.77	3.694	
17,200.00	7,875.00	7,789.20	7,789.20	250.20	134.99	90.00	867.91	-9,289.85	1,205.25	853.31	351.93	3.425	
17,300.00	7,875.00	7,789.20	7,789.20	252.87	134.99	90.00	867.91	-9,289.85	1,158.00	795.06	362.94	3.191	
17,400.00	7,875.00	7,789.20	7,789.20	255.54	134.99	90.00	867.91	-9,289.85	1,117.73	744.31	373.42	2.993	
17,500.00	7,875.00	7,789.20	7,789.20	258.21	134.99	90.00	867.91	-9,289.85	1,085.20	702.27	382.94	2.834	
17,600.00	7,875.00	7,789.20	7,789.20	260.89	134.99	90.00	867.91	-9,289.85	1,061.14	670.12	391.02	2.714	
17,700.00	7,875.00	7,789.20	7,789.20	263.56	134.99	90.00	867.91	-9,289.85	1,046.12	648.89	397.23	2.634	
17,800.00	7,875.00	7,789.20	7,789.20	266.23	134.99	90.00	867.91	-9,289.85	1,040.54	639.32	401.22	2.593	
17,808.26	7,875.00	7,789.20	7,789.20	266.45	134.99	90.00	867.91	-9,289.85	1,040.50	639.06	401.44	2.592	CC, ES, SF
17,900.00	7,875.00	7,789.20	7,789.20	268.91	134.99	90.00	867.91	-9,289.85	1,044.54	641.74	402.80	2.593	
18,000.00	7,875.00	7,789.20	7,789.20	271.58	134.99	90.00	867.91	-9,289.85	1,058.02	656.03	402.00	2.632	
18,100.00	7,875.00	7,789.20	7,789.20	274.25	134.99	90.00	867.91	-9,289.85	1,080.63	681.63	399.00	2.708	
18,142.12	7,875.00	7,789.20	7,789.20	275.38	134.99	90.00	867.91	-9,289.85	1,092.76	695.60	397.15	2.751	

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	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	179.94	-249.89	0.28	249.94						
100.00	100.00	95.99	95.99	0.13	0.13	179.95	-249.74	0.22	249.74	249.48	0.26	957.185			
200.00	200.00	195.73	195.73	0.49	0.49	-179.98	-249.49	-0.08	249.49	248.51	0.98	254.644			
250.00	250.00	245.73	245.73	0.67	0.67	-179.93	-249.38	-0.30	249.38	248.04	1.34	186.420			
300.00	300.00	295.72	295.71	0.85	0.84	83.14	-249.27	-0.51	249.22	247.53	1.69	147.359			
400.00	399.93	395.54	395.54	1.20	1.20	84.06	-249.08	-0.96	248.65	246.25	2.40	103.695			
500.00	499.68	495.09	495.08	1.56	1.56	85.78	-248.94	-1.44	247.90	244.78	3.12	79.556			
603.98	603.08	598.66	598.66	1.95	1.93	88.43	-248.85	-1.94	247.29	243.41	3.88	63.740			
700.00	698.37	694.46	694.45	2.33	2.27	91.24	-248.51	-2.22	246.95	242.35	4.60	53.692			
712.47	710.75	706.80	706.80	2.38	2.31	91.60	-248.46	-2.26	246.95	242.25	4.69	52.616 CC			
800.00	797.61	793.63	793.62	2.73	2.62	94.17	-248.12	-2.61	247.21	241.86	5.35	46.174 ES			
900.00	896.84	892.77	892.76	3.13	2.98	97.10	-247.69	-3.03	248.10	241.99	6.11	40.592			
1,000.00	996.08	991.17	991.16	3.54	3.33	99.96	-247.43	-3.37	249.78	242.91	6.87	36.374			
1,100.00	1,095.32	1,089.77	1,089.76	3.95	3.68	102.73	-247.54	-3.68	252.43	244.82	7.62	33.138			
1,200.00	1,194.56	1,188.68	1,188.67	4.36	4.02	105.44	-247.82	-3.96	255.82	247.46	8.36	30.585			
1,300.00	1,293.79	1,287.97	1,287.95	4.77	4.37	108.08	-248.14	-4.27	259.83	250.71	9.11	28.515			
1,400.00	1,393.03	1,386.81	1,386.80	5.18	4.71	110.64	-248.45	-4.68	264.41	254.55	9.86	26.820			
1,500.00	1,492.27	1,486.28	1,486.26	5.59	5.07	113.15	-248.73	-5.18	269.53	258.92	10.61	25.410			
1,600.00	1,591.51	1,585.17	1,585.15	6.00	5.42	115.55	-249.01	-5.70	275.17	263.81	11.35	24.240			
1,700.00	1,690.74	1,684.16	1,684.14	6.41	5.77	117.87	-249.32	-6.34	281.36	269.27	12.09	23.264			
1,800.00	1,789.98	1,783.47	1,783.45	6.83	6.13	120.13	-249.52	-7.09	287.99	275.15	12.84	22.436			
1,900.00	1,889.22	1,882.67	1,882.64	7.24	6.48	122.27	-249.73	-7.79	295.02	281.44	13.57	21.733			
2,000.00	1,988.46	1,981.90	1,981.87	7.65	6.84	124.31	-249.94	-8.45	302.42	288.11	14.31	21.132			
2,100.00	2,087.69	2,081.17	2,081.13	8.07	7.19	126.25	-250.13	-9.10	310.16	295.11	15.05	20.615			
2,200.00	2,186.93	2,180.42	2,180.39	8.48	7.55	128.08	-250.33	-9.68	318.19	302.41	15.78	20.168			
2,300.00	2,286.17	2,280.42	2,280.39	8.89	7.90	129.83	-250.52	-10.17	326.46	309.96	16.50	19.782			
2,400.00	2,385.41	2,380.86	2,380.83	9.31	8.24	131.46	-250.56	-10.24	334.60	317.38	17.22	19.432			
2,500.00	2,484.64	2,480.16	2,480.13	9.72	8.57	133.00	-250.53	-10.14	342.83	324.90	17.92	19.129			
2,600.00	2,583.88	2,579.11	2,579.08	10.13	8.90	134.41	-250.72	-9.94	351.34	332.71	18.63	18.860			
2,700.00	2,683.12	2,678.21	2,678.18	10.55	9.25	135.81	-250.73	-9.96	360.13	340.79	19.35	18.616			
2,800.00	2,782.36	2,777.70	2,777.67	10.96	9.60	137.16	-250.62	-10.07	369.13	349.06	20.06	18.399			
2,900.00	2,881.59	2,876.83	2,876.80	11.38	9.94	138.43	-250.55	-10.05	378.24	357.46	20.77	18.207			
3,000.00	2,980.83	2,976.01	2,975.98	11.79	10.29	139.64	-250.56	-10.09	387.61	366.13	21.49	18.039			
3,100.00	3,080.07	3,075.16	3,075.12	12.21	10.64	140.79	-250.52	-10.13	397.12	374.92	22.20	17.887			
3,200.00	3,179.31	3,174.07	3,174.03	12.62	10.99	141.90	-250.48	-10.24	406.85	383.93	22.92	17.754			
3,300.00	3,278.55	3,273.26	3,273.22	13.03	11.34	142.96	-250.43	-10.42	416.78	393.14	23.63	17.635			
3,400.00	3,377.78	3,373.30	3,373.26	13.45	11.69	143.99	-250.29	-10.55	426.76	402.41	24.35	17.528			
3,500.00	3,477.02	3,471.88	3,471.84	13.86	12.03	144.95	-250.16	-10.60	436.79	411.74	25.05	17.437			
3,600.00	3,576.26	3,570.52	3,570.48	14.28	12.38	145.87	-250.09	-10.81	447.12	421.36	25.76	17.358			
3,700.00	3,675.50	3,670.05	3,670.02	14.69	12.73	146.71	-250.35	-10.89	457.59	431.12	26.47	17.288			
3,800.00	3,774.73	3,771.19	3,771.15	15.11	13.07	147.52	-250.52	-10.75	467.91	440.73	27.18	17.215			
3,900.00	3,873.97	3,868.52	3,868.49	15.52	13.41	148.29	-250.56	-10.72	478.36	450.48	27.88	17.161			
4,000.00	3,973.21	3,968.47	3,968.44	15.93	13.75	149.06	-250.58	-10.78	488.97	460.39	28.58	17.107			
4,100.00	4,072.45	4,067.88	4,067.84	16.35	14.09	149.78	-250.59	-10.74	499.58	470.29	29.28	17.061			
4,200.00	4,171.68	4,167.13	4,167.09	16.76	14.43	150.48	-250.55	-10.72	510.24	480.26	29.98	17.017			
4,300.00	4,270.92	4,266.52	4,266.49	17.18	14.77	151.15	-250.51	-10.68	520.97	490.29	30.69	16.977			
4,400.00	4,370.16	4,365.84	4,365.81	17.59	15.11	151.79	-250.44	-10.61	531.73	500.34	31.39	16.940			
4,500.00	4,469.40	4,465.15	4,465.11	18.01	15.45	152.41	-250.38	-10.57	542.58	510.49	32.09	16.906			
4,600.00	4,568.63	4,564.70	4,564.66	18.42	15.79	153.02	-250.21	-10.47	553.40	520.60	32.80	16.871			
4,700.00	4,667.87	4,663.93	4,663.89	18.84	16.14	153.59	-250.13	-10.37	564.30	530.80	33.51	16.841			
4,800.00	4,767.11	4,757.04	4,756.98	19.25	16.46	153.96	-251.52	-10.00	575.50	541.33	34.18	16.839			
4,900.00	4,866.35	4,848.14	4,847.99	19.66	16.78	154.08	-255.57	-10.36	588.37	553.53	34.84	16.889			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (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	4,965.58	4,944.95	4,944.64	20.08	17.11	154.09	-261.15	-11.11	602.03	566.49	35.54	16.938			
5,100.00	5,064.82	5,045.97	5,045.44	20.49	17.46	154.02	-267.87	-11.62	615.73	579.45	36.28	16.971			
5,200.00	5,164.06	5,151.79	5,150.90	20.91	17.83	153.77	-276.48	-10.83	628.73	591.67	37.06	16.966			
5,300.00	5,263.30	5,264.61	5,263.17	21.32	18.23	153.33	-287.04	-7.63	640.18	602.30	37.88	16.900			
5,400.00	5,362.53	5,368.56	5,366.37	21.74	18.59	152.75	-298.27	-2.37	650.07	611.42	38.65	16.819			
5,500.00	5,461.77	5,460.02	5,456.70	22.15	18.91	151.95	-311.46	3.19	660.34	620.97	39.36	16.776			
5,600.00	5,561.01	5,548.09	5,543.02	22.57	19.23	150.88	-328.01	8.74	672.15	632.09	40.06	16.779			
5,700.00	5,660.25	5,634.02	5,626.59	22.98	19.55	149.63	-347.31	13.91	685.92	645.18	40.74	16.836			
5,800.00	5,759.49	5,717.40	5,707.17	23.40	19.86	148.31	-368.25	18.25	701.92	660.53	41.40	16.957			
5,900.00	5,858.72	5,809.89	5,795.92	23.81	20.22	146.74	-393.92	22.62	719.96	677.82	42.14	17.084			
6,000.00	5,957.96	5,908.82	5,890.71	24.23	20.62	145.10	-421.82	27.73	738.40	695.44	42.96	17.186			
6,100.00	6,057.20	5,996.73	5,974.69	24.64	20.98	143.64	-447.34	32.55	757.55	713.88	43.67	17.346			
6,200.00	6,156.44	6,070.87	6,045.37	25.05	21.29	142.46	-469.51	35.44	779.06	734.85	44.21	17.623			
6,300.00	6,255.67	6,137.61	6,108.55	25.47	21.58	141.41	-491.00	36.31	804.31	759.71	44.60	18.032			
6,400.00	6,354.91	6,202.98	6,169.94	25.88	21.87	140.41	-513.43	35.39	833.36	788.42	44.94	18.543			
6,500.00	6,454.15	6,268.95	6,231.36	26.30	22.17	139.42	-537.37	32.76	865.95	820.70	45.26	19.133			
6,600.00	6,553.39	6,336.50	6,293.65	26.71	22.49	138.45	-563.14	28.58	901.73	856.14	45.58	19.782			
6,700.00	6,652.62	6,407.90	6,359.01	27.13	22.83	137.48	-591.34	22.94	939.98	894.01	45.97	20.446			
6,800.00	6,751.86	6,482.02	6,426.35	27.54	23.20	136.51	-621.54	16.18	980.26	933.85	46.42	21.119			
6,900.00	6,851.10	6,548.45	6,486.16	27.96	23.54	135.66	-649.67	9.55	1,022.53	975.81	46.72	21.888			
7,000.00	6,950.34	6,611.96	6,542.53	28.37	23.88	134.84	-678.10	2.64	1,067.24	1,020.27	46.97	22.723			
7,100.00	7,049.57	6,677.46	6,599.97	28.79	24.24	134.00	-708.62	-5.05	1,114.06	1,066.80	47.26	23.573			
7,200.00	7,148.81	6,747.44	6,660.73	29.20	24.64	133.14	-742.22	-13.81	1,162.66	1,115.00	47.66	24.397			
7,283.93	7,232.10	6,814.48	6,718.53	29.55	25.04	132.34	-775.06	-22.42	1,204.39	1,156.23	48.16	25.006			
7,300.00	7,248.07	6,829.96	6,731.87	29.61	25.13	130.56	-782.68	-24.35	1,212.24	1,163.93	48.31	25.092			
7,350.00	7,297.99	6,878.81	6,773.96	29.79	25.43	129.74	-806.78	-30.17	1,234.63	1,185.88	48.75	25.323			
7,400.00	7,347.93	6,932.54	6,820.25	29.93	25.76	-27.16	-833.45	-35.95	1,253.81	1,204.55	49.26	25.455			
7,450.00	7,397.53	6,988.25	6,868.18	30.03	26.11	-32.99	-861.38	-41.02	1,269.65	1,219.89	49.76	25.515			
7,500.00	7,446.40	7,048.75	6,919.95	30.12	26.51	-35.35	-892.48	-44.60	1,282.01	1,231.68	50.33	25.470			
7,550.00	7,494.17	7,122.51	6,982.65	30.19	27.00	-37.50	-931.29	-45.93	1,290.81	1,239.68	51.13	25.247			
7,600.00	7,540.48	7,179.87	7,031.42	30.24	27.39	-39.24	-961.46	-44.94	1,295.91	1,244.31	51.60	25.113			
7,650.00	7,584.98	7,213.82	7,060.27	30.28	27.62	-40.39	-979.33	-44.21	1,298.46	1,246.80	51.66	25.136			
7,700.00	7,627.32	7,246.19	7,087.78	30.31	27.84	-41.61	-996.39	-43.63	1,298.76	1,247.07	51.68	25.130			
7,750.00	7,667.19	7,284.92	7,120.68	30.33	28.11	-43.18	-1,016.82	-42.95	1,296.89	1,245.05	51.83	25.021			
7,800.00	7,704.28	7,324.30	7,154.14	30.36	28.39	-44.97	-1,037.56	-41.87	1,292.82	1,240.81	52.01	24.857			
7,850.00	7,738.31	7,359.38	7,183.94	30.40	28.64	-46.81	-1,056.01	-40.56	1,286.82	1,234.68	52.14	24.681			
7,900.00	7,769.02	7,386.10	7,206.65	30.45	28.83	-48.51	-1,070.05	-39.43	1,279.21	1,227.06	52.15	24.528			
7,950.00	7,796.17	7,409.89	7,226.67	30.52	29.00	-50.25	-1,082.54	-38.36	1,270.24	1,218.08	52.16	24.351			
8,000.00	7,819.57	7,429.81	7,243.81	30.63	29.14	-51.97	-1,092.98	-37.41	1,260.15	1,207.99	52.16	24.157			
8,050.00	7,839.03	7,445.75	7,257.36	30.76	29.25	-53.63	-1,101.33	-36.63	1,249.16	1,196.99	52.17	23.945			
8,100.00	7,854.40	7,457.63	7,267.47	30.94	29.34	-55.20	-1,107.55	-36.02	1,237.45	1,185.27	52.18	23.714			
8,150.00	7,865.57	7,464.01	7,272.89	31.15	29.39	-56.57	-1,110.89	-35.72	1,225.23	1,173.04	52.19	23.476			
8,200.00	7,872.45	7,467.62	7,275.97	31.41	29.41	-57.87	-1,112.78	-35.54	1,212.62	1,160.37	52.25	23.207			
8,254.13	7,875.00	7,467.31	7,275.70	31.72	29.41	-59.10	-1,112.62	-35.55	1,198.67	1,146.31	52.36	22.893			
8,300.00	7,875.00	7,465.18	7,273.89	32.03	29.39	-58.99	-1,111.50	-35.66	1,187.58	1,135.08	52.50	22.621			
8,400.00	7,875.00	7,460.49	7,269.90	32.86	29.36	-58.76	-1,109.05	-35.89	1,169.27	1,116.25	53.02	22.053			
8,500.00	7,875.00	7,455.97	7,266.05	33.88	29.33	-58.54	-1,106.68	-36.11	1,159.32	1,105.49	53.83	21.538			
8,566.18	7,875.00	7,452.68	7,263.26	34.68	29.30	-58.37	-1,104.96	-36.28	1,157.43	1,102.92	54.51	21.104			
8,600.00	7,875.00	7,451.02	7,261.84	35.09	29.29	-58.29	-1,104.09	-36.36	1,157.92	1,103.06	54.87	21.234			
8,700.00	7,875.00	7,446.18	7,257.73	36.45	29.26	-58.05	-1,101.55	-36.60	1,165.12	1,109.03	56.09	20.771			
8,800.00	7,875.00	7,441.44	7,253.70	37.96	29.22	-57.82	-1,099.07	-36.84	1,180.76	1,123.33	57.43	20.559			
8,900.00	7,875.00	7,436.80	7,249.75	39.60	29.19	-57.59	-1,096.64	-37.07	1,204.50	1,145.69	58.81	20.480			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,875.00	7,432.26	7,245.89	41.34	29.16	-57.36	-1,094.27	-37.29	1,235.89	1,175.72	60.17	20.539		
9,100.00	7,875.00	7,427.82	7,242.12	43.19	29.13	-57.14	-1,091.94	-37.51	1,274.35	1,212.89	61.46	20.734		
9,200.00	7,875.00	7,423.47	7,238.42	45.12	29.09	-56.93	-1,089.66	-37.72	1,319.28	1,256.63	62.65	21.058		
9,300.00	7,875.00	7,419.21	7,234.80	47.12	29.06	-56.72	-1,087.42	-37.92	1,370.02	1,306.30	63.72	21.501		
9,400.00	7,875.00	8,932.99	7,860.15	49.19	40.85	-89.57	-1,476.57	-1,030.36	1,361.18	1,275.80	85.37	15.944		
9,500.00	7,875.00	9,033.84	7,860.69	51.32	42.26	-89.59	-1,464.75	-1,130.51	1,348.88	1,259.62	89.26	15.112		
9,600.00	7,875.00	9,104.85	7,860.85	53.50	43.36	-89.60	-1,457.21	-1,201.11	1,337.75	1,244.68	93.07	14.374		
9,700.00	7,875.00	9,170.98	7,861.50	55.72	44.46	-89.62	-1,451.84	-1,267.02	1,329.04	1,232.11	96.93	13.711		
9,800.00	7,875.00	9,240.00	7,862.30	57.98	45.68	-89.66	-1,448.04	-1,335.93	1,322.90	1,222.01	100.89	13.113		
9,900.00	7,875.00	9,287.97	7,862.85	60.28	46.59	-89.68	-1,446.90	-1,383.89	1,319.83	1,215.18	104.65	12.611		
9,931.95	7,875.00	9,304.19	7,863.03	61.02	46.90	-89.69	-1,446.90	-1,400.10	1,319.64	1,213.78	105.86	12.466		
10,000.00	7,875.00	9,344.76	7,863.45	62.61	47.69	-89.71	-1,447.70	-1,440.66	1,320.49	1,211.99	108.50	12.171		
10,100.00	7,875.00	9,474.99	7,864.64	64.97	50.33	-89.76	-1,449.61	-1,570.87	1,321.36	1,207.92	113.45	11.647		
10,175.38	7,875.00	9,547.62	7,865.39	66.76	51.84	-89.79	-1,449.63	-1,643.49	1,320.96	1,204.09	116.87	11.303		
10,200.00	7,875.00	9,563.61	7,865.55	67.35	52.18	-89.80	-1,449.77	-1,659.48	1,321.04	1,203.16	117.88	11.207		
10,300.00	7,875.00	9,629.31	7,866.09	69.75	53.59	-89.82	-1,451.46	-1,725.16	1,323.02	1,201.03	122.00	10.845		
10,400.00	7,875.00	9,699.02	7,866.78	72.18	55.13	-89.85	-1,454.92	-1,794.78	1,327.41	1,201.25	126.16	10.522		
10,500.00	7,875.00	9,770.75	7,867.66	74.62	56.73	-89.89	-1,460.07	-1,866.31	1,334.00	1,203.66	130.34	10.234		
10,600.00	7,875.00	9,845.13	7,868.52	77.08	58.42	-89.93	-1,466.91	-1,940.37	1,342.61	1,208.05	134.57	9.977		
10,700.00	7,875.00	9,929.91	7,869.35	79.56	60.38	-89.96	-1,476.14	-2,024.65	1,352.89	1,213.87	139.02	9.732		
10,800.00	7,875.00	10,037.10	7,870.64	82.05	62.87	-90.02	-1,487.81	-2,131.20	1,363.20	1,219.18	144.02	9.465		
10,900.00	7,875.00	10,132.49	7,871.90	84.55	65.12	-90.07	-1,498.05	-2,226.02	1,373.38	1,224.59	148.78	9.231		
11,000.00	7,875.00	10,460.09	7,875.79	87.06	72.93	-90.23	-1,506.20	-2,553.02	1,374.95	1,217.38	157.56	8.726		
11,100.00	7,875.00	10,548.45	7,876.87	89.58	75.06	-90.28	-1,501.29	-2,641.23	1,368.87	1,206.42	162.45	8.427		
11,200.00	7,875.00	10,619.77	7,877.71	92.11	76.78	-90.32	-1,498.60	-2,712.49	1,364.53	1,197.38	167.15	8.163		
11,300.00	7,875.00	10,688.56	7,878.53	94.66	78.47	-90.35	-1,497.53	-2,781.27	1,362.40	1,190.63	171.78	7.931		
11,400.00	7,875.00	10,802.52	7,879.73	97.20	81.27	-90.40	-1,496.76	-2,895.22	1,361.20	1,184.17	177.03	7.689		
11,500.00	7,875.00	10,918.57	7,880.74	99.76	84.15	-90.44	-1,494.05	-3,011.23	1,358.25	1,175.92	182.32	7.450		
11,600.00	7,875.00	10,999.07	7,881.61	102.32	86.16	-90.48	-1,492.32	-3,091.71	1,355.58	1,168.41	187.17	7.243		
11,659.20	7,875.00	11,034.49	7,882.01	103.85	87.04	-90.50	-1,492.21	-3,127.12	1,355.06	1,165.22	189.84	7.138		
11,700.00	7,875.00	11,058.90	7,882.26	104.89	87.66	-90.51	-1,492.50	-3,151.53	1,355.31	1,163.66	191.65	7.072		
11,800.00	7,875.00	11,133.79	7,883.00	107.47	89.54	-90.54	-1,494.70	-3,226.38	1,357.62	1,161.33	196.29	6.916		
11,900.00	7,875.00	11,261.95	7,884.38	110.05	92.78	-90.60	-1,498.83	-3,354.47	1,360.46	1,158.51	201.95	6.737		
12,000.00	7,875.00	11,336.19	7,885.24	112.64	94.67	-90.63	-1,500.57	-3,428.68	1,362.28	1,155.67	206.61	6.593		
12,100.00	7,875.00	11,437.65	7,886.59	115.23	97.25	-90.69	-1,504.39	-3,530.06	1,365.49	1,153.70	211.79	6.447		
12,200.00	7,875.00	11,513.92	7,887.63	117.82	99.20	-90.73	-1,507.35	-3,606.26	1,368.89	1,152.44	216.45	6.324		
12,300.00	7,875.00	11,596.87	7,888.65	120.42	101.32	-90.77	-1,512.33	-3,689.05	1,374.28	1,153.07	221.21	6.213		
12,400.00	7,875.00	11,742.62	7,890.86	123.03	105.06	-90.86	-1,519.90	-3,834.58	1,379.18	1,151.79	227.39	6.065		
12,500.00	7,875.00	11,991.75	7,894.55	125.64	111.45	-91.02	-1,512.42	-4,083.42	1,374.81	1,140.53	234.28	5.868		
12,600.00	7,875.00	12,070.68	7,895.64	128.25	113.47	-91.07	-1,506.35	-4,162.11	1,366.68	1,127.29	239.40	5.709		
12,700.00	7,875.00	12,139.00	7,896.54	130.86	115.22	-91.11	-1,502.95	-4,230.34	1,361.10	1,116.70	244.39	5.569		
12,800.00	7,875.00	12,230.37	7,897.79	133.48	117.58	-91.17	-1,499.75	-4,321.65	1,357.02	1,107.49	249.54	5.438		
12,900.00	7,875.00	12,347.24	7,899.38	136.10	120.61	-91.24	-1,494.80	-4,438.40	1,352.21	1,097.30	254.91	5.305		
13,000.00	7,875.00	12,457.47	7,900.91	138.72	123.46	-91.31	-1,489.39	-4,548.48	1,346.77	1,086.57	260.21	5.176		
13,100.00	7,875.00	12,544.61	7,902.13	141.35	125.72	-91.37	-1,484.70	-4,635.49	1,340.90	1,075.55	265.36	5.053		
13,200.00	7,875.00	12,589.00	7,902.77	143.98	126.88	-91.40	-1,482.97	-4,679.84	1,337.29	1,067.31	269.98	4.953		
13,257.57	7,875.00	12,634.74	7,903.42	145.49	128.07	-91.42	-1,482.34	-4,725.57	1,336.36	1,063.56	272.81	4.899		
13,300.00	7,875.00	12,654.80	7,903.69	146.61	128.59	-91.44	-1,482.62	-4,745.62	1,336.72	1,062.10	274.62	4.867		
13,400.00	7,875.00	12,714.13	7,904.46	149.24	130.14	-91.47	-1,485.11	-4,804.89	1,340.18	1,061.25	278.93	4.805		
13,500.00	7,875.00	12,800.72	7,905.58	151.87	132.40	-91.51	-1,490.37	-4,891.32	1,345.67	1,061.87	283.80	4.742		
13,600.00	7,875.00	12,911.18	7,907.12	154.51	135.29	-91.57	-1,496.39	-5,001.60	1,350.55	1,061.22	289.33	4.668		
13,700.00	7,875.00	12,997.71	7,908.20	157.15	137.56	-91.61	-1,501.57	-5,087.97	1,355.98	1,061.78	294.20	4.609		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ LONE TREE 4-65 15-16 3BH - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 94-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,875.00	13,099.69	7,909.55	159.79	140.23	-91.66	-1,508.39	-5,189.71	1,362.14	1,062.64	299.51	4.548			
13,900.00	7,875.00	13,231.15	7,911.50	162.43	143.68	-91.73	-1,515.06	-5,320.98	1,366.67	1,061.09	305.58	4.472			
14,000.00	7,875.00	13,361.82	7,913.39	165.07	147.11	-91.81	-1,518.78	-5,451.59	1,368.99	1,057.48	311.50	4.395			
14,100.00	7,875.00	13,483.03	7,915.17	167.72	150.30	-91.88	-1,519.79	-5,572.78	1,369.28	1,052.13	317.14	4.318			
14,200.00	7,875.00	13,609.50	7,917.01	170.36	153.63	-91.96	-1,519.01	-5,699.23	1,368.18	1,045.41	322.78	4.239			
14,300.00	7,875.00	13,723.47	7,918.61	173.01	156.63	-92.03	-1,516.29	-5,813.16	1,365.26	1,037.06	328.20	4.160			
14,400.00	7,875.00	13,816.51	7,919.86	175.66	159.08	-92.09	-1,513.93	-5,906.16	1,362.19	1,028.78	333.42	4.086			
14,500.00	7,875.00	13,892.01	7,920.65	178.31	161.07	-92.13	-1,512.88	-5,981.64	1,360.28	1,021.87	338.41	4.020			
14,550.32	7,875.00	13,928.54	7,920.90	179.65	162.04	-92.14	-1,512.89	-6,018.18	1,360.01	1,019.15	340.86	3.990			
14,600.00	7,875.00	13,963.04	7,921.17	180.96	162.95	-92.15	-1,513.27	-6,052.67	1,360.28	1,017.07	343.21	3.963			
14,700.00	7,875.00	14,037.01	7,921.96	183.61	164.90	-92.18	-1,515.30	-6,126.60	1,362.46	1,014.53	347.93	3.916			
14,800.00	7,875.00	14,118.76	7,922.57	186.27	167.06	-92.20	-1,518.78	-6,208.28	1,366.17	1,013.42	352.75	3.873			
14,900.00	7,875.00	14,205.14	7,923.09	188.92	169.34	-92.21	-1,523.55	-6,294.52	1,371.12	1,013.48	357.64	3.834			
15,000.00	7,875.00	14,328.71	7,924.08	191.58	172.61	-92.25	-1,529.88	-6,417.92	1,375.72	1,012.13	363.59	3.784			
15,100.00	7,875.00	14,453.52	7,925.13	194.24	175.91	-92.28	-1,533.81	-6,542.67	1,378.30	1,008.83	369.46	3.731			
15,200.00	7,875.00	14,584.69	7,926.32	196.89	179.38	-92.33	-1,535.51	-6,673.82	1,379.08	1,003.75	375.33	3.674			
15,235.27	7,875.00	14,613.87	7,926.56	197.83	180.16	-92.34	-1,535.67	-6,703.00	1,379.06	1,001.96	377.11	3.657			
15,300.00	7,875.00	14,672.95	7,927.00	199.55	181.72	-92.36	-1,536.08	-6,762.07	1,379.16	998.72	380.44	3.625			
15,400.00	7,875.00	14,749.58	7,927.40	202.21	183.75	-92.38	-1,537.47	-6,838.69	1,380.42	995.14	385.28	3.583			
15,500.00	7,875.00	14,896.95	7,927.86	204.87	187.66	-92.39	-1,539.78	-6,986.03	1,381.72	990.29	391.43	3.530			
15,600.00	7,875.00	15,017.65	7,928.23	207.53	190.86	-92.41	-1,536.92	-7,106.70	1,378.61	981.65	396.97	3.473			
15,700.00	7,875.00	15,112.16	7,928.48	210.20	193.37	-92.43	-1,535.06	-7,201.19	1,376.08	973.84	402.23	3.421			
15,800.00	7,875.00	15,196.43	7,928.72	212.86	195.61	-92.44	-1,533.84	-7,285.45	1,374.09	966.71	407.38	3.373			
15,900.00	7,875.00	15,283.13	7,929.05	215.52	197.91	-92.46	-1,533.74	-7,372.14	1,373.40	960.89	412.50	3.329			
15,949.60	7,875.00	15,328.81	7,929.22	216.84	199.12	-92.46	-1,533.91	-7,417.83	1,373.31	958.23	415.08	3.309			
16,000.00	7,875.00	15,367.95	7,929.36	218.19	200.16	-92.47	-1,534.28	-7,456.97	1,373.51	955.95	417.56	3.289			
16,100.00	7,875.00	15,447.54	7,929.59	220.85	202.28	-92.48	-1,535.97	-7,536.53	1,375.06	952.62	422.44	3.255			
16,200.00	7,875.00	15,532.30	7,929.95	223.52	204.53	-92.49	-1,538.93	-7,621.25	1,377.97	950.59	427.38	3.224			
16,300.00	7,875.00	15,649.54	7,930.24	226.18	207.65	-92.49	-1,543.31	-7,738.40	1,381.22	948.09	433.13	3.189			
16,400.00	7,875.00	15,814.90	7,930.60	228.85	212.04	-92.51	-1,543.24	-7,903.74	1,380.37	940.88	439.49	3.141			
16,500.00	7,875.00	15,894.00	7,930.85	231.52	214.15	-92.52	-1,542.35	-7,982.83	1,378.65	934.07	444.59	3.101			
16,600.00	7,875.00	16,029.57	7,931.88	234.18	217.76	-92.57	-1,539.82	-8,118.37	1,376.24	926.01	450.23	3.057			
16,700.00	7,875.00	16,117.08	7,932.69	236.85	220.09	-92.61	-1,536.94	-8,205.83	1,372.49	917.02	455.47	3.013			
16,800.00	7,875.00	16,180.32	7,933.29	239.52	221.77	-92.64	-1,536.40	-8,269.06	1,371.09	910.74	460.35	2.978			
16,821.10	7,875.00	16,200.12	7,933.48	240.08	222.30	-92.65	-1,536.50	-8,288.86	1,371.08	909.63	461.45	2.971			
16,900.00	7,875.00	16,274.12	7,934.19	242.19	224.27	-92.67	-1,537.02	-8,362.85	1,371.22	905.66	465.56	2.945			
17,000.00	7,875.00	16,344.12	7,934.86	244.86	226.13	-92.70	-1,538.44	-8,432.83	1,372.70	902.47	470.24	2.919			
17,100.00	7,875.00	16,423.08	7,935.62	247.53	228.24	-92.73	-1,541.56	-8,511.73	1,376.10	901.14	474.97	2.897			
17,200.00	7,875.00	16,513.08	7,936.49	250.20	230.63	-92.76	-1,546.15	-8,601.60	1,380.65	900.69	479.96	2.877			
17,300.00	7,875.00	16,714.49	7,938.53	252.87	235.99	-92.83	-1,551.06	-8,802.89	1,383.37	896.04	487.34	2.839			
17,400.00	7,875.00	16,843.09	7,939.92	255.54	239.42	-92.90	-1,546.59	-8,931.40	1,379.25	886.48	492.77	2.799			
17,500.00	7,875.00	16,957.97	7,941.12	258.21	242.48	-92.96	-1,540.94	-9,046.13	1,373.78	875.72	498.06	2.758			
17,600.00	7,875.00	17,045.15	7,942.07	260.89	244.81	-93.01	-1,536.83	-9,133.21	1,368.55	865.15	503.40	2.719			
17,700.00	7,875.00	17,137.29	7,943.07	263.56	247.26	-93.06	-1,533.24	-9,225.27	1,364.14	855.43	508.72	2.682			
17,800.00	7,875.00	17,247.84	7,944.26	266.23	250.21	-93.13	-1,528.78	-9,335.73	1,359.61	845.58	514.03	2.645			
17,900.00	7,875.00	17,361.72	7,945.54	268.91	253.25	-93.20	-1,523.02	-9,449.45	1,354.04	834.75	519.29	2.607			
18,000.00	7,875.00	17,452.93	7,946.52	271.58	255.68	-93.25	-1,518.00	-9,540.52	1,348.06	823.41	524.64	2.569			
18,100.00	7,875.00	17,541.14	7,947.42	274.25	258.04	-93.30	-1,514.27	-9,628.64	1,343.29	813.31	529.98	2.535			
18,142.12	7,875.00	17,542.00	7,947.43	275.38	258.06	-93.30	-1,514.23	-9,629.51	1,342.02	810.02	532.00	2.523 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 2310-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	2,218.00	2,217.98	0.00	0.00	119.93	-547.58	951.22	2,481.68						
100.00	100.00	2,218.00	2,217.98	0.13	0.00	119.93	-547.58	951.22	2,392.41	2,390.36	2.04	1,170.404			
200.00	200.00	2,218.00	2,217.98	0.49	0.00	119.93	-547.58	951.22	2,304.01	2,301.96	2.04	1,128.044			
250.00	250.00	2,218.00	2,217.98	0.67	0.00	119.93	-547.58	951.22	2,260.17	2,258.12	2.05	1,103.189			
300.00	300.00	2,218.00	2,217.98	0.85	0.00	23.57	-547.58	951.22	2,216.40	2,214.33	2.07	1,071.526			
400.00	399.93	2,218.00	2,217.98	1.20	0.00	25.09	-547.58	951.22	2,128.49	2,126.36	2.13	998.934			
500.00	499.68	2,218.00	2,217.98	1.56	0.00	26.73	-547.58	951.22	2,040.13	2,037.91	2.22	918.634			
603.98	603.08	2,218.00	2,217.98	1.95	0.00	28.59	-547.58	951.22	1,947.85	1,945.52	2.33	834.849			
700.00	698.37	2,218.00	2,217.98	2.33	0.00	28.59	-547.58	951.22	1,862.97	1,860.53	2.44	762.059			
800.00	797.61	2,218.00	2,217.98	2.73	0.00	28.59	-547.58	951.22	1,775.78	1,773.21	2.57	690.929			
900.00	896.84	2,218.00	2,217.98	3.13	0.00	28.59	-547.58	951.22	1,690.02	1,687.29	2.72	620.474			
1,000.00	996.08	2,218.00	2,217.98	3.54	0.00	28.59	-547.58	951.22	1,605.90	1,602.99	2.91	552.224			
1,100.00	1,095.32	2,218.00	2,217.98	3.95	0.00	28.59	-547.58	951.22	1,523.69	1,520.57	3.13	487.473			
1,200.00	1,194.56	2,218.00	2,217.98	4.36	0.00	28.59	-547.58	951.22	1,443.74	1,440.36	3.38	427.214			
1,300.00	1,293.79	2,218.00	2,217.98	4.77	0.00	28.59	-547.58	951.22	1,366.43	1,362.76	3.67	372.125			
1,400.00	1,393.03	2,218.00	2,217.98	5.18	0.00	28.59	-547.58	951.22	1,292.24	1,288.23	4.01	322.597			
1,500.00	1,492.27	2,218.00	2,217.98	5.59	0.00	28.59	-547.58	951.22	1,221.73	1,217.35	4.38	278.773			
1,600.00	1,591.51	2,218.00	2,217.98	6.00	0.00	28.59	-547.58	951.22	1,155.58	1,150.78	4.80	240.605			
1,700.00	1,690.74	2,218.00	2,217.98	6.41	0.00	28.59	-547.58	951.22	1,094.59	1,089.32	5.26	207.903			
1,800.00	1,789.98	2,218.00	2,217.98	6.83	0.00	28.59	-547.58	951.22	1,039.65	1,033.88	5.76	180.383			
1,900.00	1,889.22	2,218.00	2,217.98	7.24	0.00	28.59	-547.58	951.22	991.77	985.48	6.29	157.699			
2,000.00	1,988.46	2,218.00	2,217.98	7.65	0.00	28.59	-547.58	951.22	952.03	945.20	6.83	139.475			
2,100.00	2,087.69	2,218.00	2,217.98	8.07	0.00	28.59	-547.58	951.22	921.47	914.11	7.35	125.323			
2,200.00	2,186.93	2,218.00	2,217.98	8.48	0.00	28.59	-547.58	951.22	901.03	893.18	7.84	114.857			
2,300.00	2,286.17	2,273.45	2,273.43	8.89	0.10	28.82	-547.88	951.34	889.63	881.28	8.36	106.471			
2,400.00	2,385.41	2,381.07	2,381.05	9.31	0.41	29.22	-547.86	951.73	879.14	870.10	9.04	97.216			
2,500.00	2,484.64	2,495.11	2,495.02	9.72	0.82	29.46	-544.43	952.49	867.15	857.34	9.81	88.387			
2,600.00	2,583.88	2,597.11	2,596.90	10.13	1.18	29.58	-539.44	953.29	854.14	843.59	10.55	80.968			
2,700.00	2,683.12	2,708.60	2,708.23	10.55	1.58	29.71	-533.39	953.24	840.16	828.84	11.32	74.250			
2,800.00	2,782.36	2,811.86	2,811.32	10.96	1.96	29.86	-527.50	952.20	825.26	813.20	12.06	68.437			
2,900.00	2,881.59	2,911.59	2,910.86	11.38	2.33	30.03	-521.68	950.83	810.00	797.20	12.79	63.307			
3,000.00	2,980.83	3,009.16	3,008.27	11.79	2.68	30.19	-516.08	949.60	794.88	781.36	13.53	58.766			
3,100.00	3,080.07	3,107.96	3,106.89	12.21	3.05	30.36	-510.36	948.39	779.78	765.52	14.26	54.676			
3,200.00	3,179.31	3,199.01	3,197.79	12.62	3.38	30.52	-505.14	947.55	764.99	750.00	14.98	51.062			
3,300.00	3,278.55	3,286.59	3,285.27	13.03	3.70	30.66	-500.97	948.02	751.87	736.17	15.70	47.905			
3,400.00	3,377.78	3,382.94	3,381.53	13.45	4.05	30.83	-496.86	949.05	739.52	723.09	16.43	45.016			
3,500.00	3,477.02	3,483.26	3,481.76	13.86	4.41	31.04	-493.02	950.17	727.46	710.29	17.17	42.370			
3,600.00	3,576.26	3,586.52	3,584.94	14.28	4.79	31.28	-488.87	950.59	714.75	696.83	17.92	39.892			
3,700.00	3,675.50	3,683.56	3,681.91	14.69	5.14	31.54	-485.08	950.81	701.98	683.33	18.65	37.634			
3,800.00	3,774.73	3,780.98	3,779.27	15.11	5.49	31.83	-481.76	951.18	689.65	670.26	19.39	35.566			
3,900.00	3,873.97	3,879.62	3,877.85	15.52	5.85	32.13	-478.45	951.58	677.40	657.27	20.13	33.650			
4,000.00	3,973.21	3,983.83	3,981.99	15.93	6.22	32.45	-474.68	952.04	665.03	644.15	20.88	31.848			
4,100.00	4,072.45	4,083.66	4,081.74	16.35	6.58	32.76	-470.60	951.89	651.93	630.31	21.63	30.147			
4,200.00	4,171.68	4,179.68	4,177.69	16.76	6.93	33.10	-467.12	951.78	639.16	616.80	22.36	28.579			
4,300.00	4,270.92	4,282.09	4,280.04	17.18	7.30	33.48	-463.46	951.75	626.53	603.41	23.11	27.107			
4,400.00	4,370.16	4,379.05	4,376.92	17.59	7.65	33.81	-459.46	951.84	613.65	589.80	23.86	25.723			
4,500.00	4,469.40	4,473.31	4,471.12	18.01	8.00	34.17	-456.21	952.16	601.42	576.82	24.60	24.451			
4,600.00	4,568.63	4,579.11	4,576.85	18.42	8.38	34.59	-452.51	952.53	589.20	563.84	25.35	23.241			
4,700.00	4,667.87	4,678.83	4,676.48	18.84	8.74	34.96	-448.16	952.69	576.29	550.19	26.10	22.080			
4,800.00	4,767.11	4,779.40	4,776.95	19.25	9.11	35.35	-443.68	952.60	563.16	536.31	26.85	20.974			
4,900.00	4,866.35	4,875.40	4,872.86	19.66	9.46	35.77	-439.72	952.49	550.25	522.65	27.60	19.936			
5,000.00	4,965.58	4,971.24	4,968.65	20.08	9.80	36.24	-436.37	952.55	537.94	509.58	28.35	18.974			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 2310-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (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	5,064.82	5,067.98	5,065.35	20.49	10.15	36.79	-433.77	952.79	526.34	497.23	29.11	18.084			
5,200.00	5,164.06	5,170.64	5,167.96	20.91	10.52	37.37	-430.55	952.88	514.37	484.50	29.86	17.224			
5,300.00	5,263.30	5,267.99	5,265.28	21.32	10.87	38.02	-428.06	952.64	502.63	472.00	30.62	16.413			
5,400.00	5,362.53	5,371.16	5,368.40	21.74	11.24	38.75	-425.21	952.10	490.61	459.23	31.39	15.631			
5,500.00	5,461.77	5,476.78	5,473.94	22.15	11.62	39.44	-420.94	951.35	477.64	445.50	32.15	14.859			
5,600.00	5,561.01	5,581.32	5,578.22	22.57	12.01	39.83	-413.72	951.49	463.22	430.33	32.89	14.082			
5,700.00	5,660.25	5,682.71	5,679.24	22.98	12.39	40.01	-405.00	952.27	448.05	414.40	33.64	13.318			
5,800.00	5,759.49	5,780.79	5,776.95	23.40	12.76	40.23	-396.52	952.71	432.62	398.22	34.40	12.577			
5,900.00	5,858.72	5,877.64	5,873.55	23.81	13.12	40.74	-389.75	951.98	417.60	382.43	35.17	11.875			
6,000.00	5,957.96	5,970.67	5,966.44	24.23	13.46	41.49	-384.91	950.59	403.45	367.50	35.95	11.221			
6,100.00	6,057.20	6,060.70	6,056.42	24.64	13.78	42.48	-382.50	949.25	391.27	354.53	36.75	10.648			
6,200.00	6,156.44	6,155.39	6,151.11	25.05	14.10	43.77	-382.19	948.15	381.24	343.71	37.53	10.157			
6,300.00	6,255.67	6,253.43	6,249.14	25.47	14.43	45.19	-382.35	947.22	371.94	333.63	38.32	9.707			
6,400.00	6,354.91	6,351.40	6,347.11	25.88	14.75	46.63	-382.55	946.66	363.15	324.04	39.11	9.286			
6,500.00	6,454.15	6,450.91	6,446.62	26.30	15.09	48.01	-382.32	947.01	354.77	314.87	39.91	8.890			
6,600.00	6,553.39	6,549.47	6,545.17	26.71	15.44	49.31	-381.62	948.00	346.59	305.88	40.71	8.515			
6,700.00	6,652.62	6,646.43	6,642.13	27.13	15.76	50.68	-381.45	949.02	339.05	297.55	41.50	8.170			
6,800.00	6,751.86	6,748.12	6,743.82	27.54	16.10	52.32	-381.75	949.51	331.86	289.55	42.31	7.844			
6,900.00	6,851.10	6,851.35	6,847.03	27.96	16.47	53.84	-380.54	950.53	323.89	280.76	43.13	7.510			
7,000.00	6,950.34	6,947.63	6,943.30	28.37	16.81	55.37	-379.45	951.27	316.08	272.13	43.95	7.192			
7,100.00	7,049.57	7,045.46	7,041.13	28.79	17.15	57.09	-379.14	951.86	309.19	264.41	44.78	6.905			
7,200.00	7,148.81	7,144.04	7,139.71	29.20	17.48	58.88	-379.10	952.70	302.94	257.33	45.61	6.642			
7,283.93	7,232.10	7,226.84	7,222.50	29.55	17.77	60.40	-379.16	953.64	298.12	251.82	46.30	6.438			
7,300.00	7,248.07	7,236.92	7,232.57	29.61	17.80	58.29	-379.22	954.02	297.52	251.10	46.42	6.410			
7,314.73	7,262.75	7,247.24	7,242.87	29.67	17.83	54.82	-379.32	954.66	297.34	250.84	46.50	6.394	CC, ES, SF		
7,350.00	7,297.99	7,271.84	7,267.32	29.79	17.91	1.98	-379.78	957.30	298.38	251.72	46.65	6.396			
7,400.00	7,347.93	7,305.55	7,300.44	29.93	18.02	-101.72	-380.88	963.43	303.51	256.82	46.69	6.500			
7,450.00	7,397.53	7,340.35	7,334.03	30.03	18.14	-108.82	-382.54	972.36	313.08	266.47	46.61	6.717			
7,500.00	7,446.40	7,385.00	7,376.58	30.12	18.29	-113.02	-384.52	985.73	326.36	279.71	46.65	6.996			
7,550.00	7,494.17	7,425.20	7,414.52	30.19	18.41	-116.19	-385.10	998.99	342.73	296.15	46.59	7.357			
7,600.00	7,540.48	7,455.27	7,442.51	30.24	18.51	-117.97	-385.14	1,009.98	363.51	317.16	46.35	7.843			
7,650.00	7,584.98	7,480.73	7,465.96	30.28	18.60	-118.76	-385.24	1,019.89	389.01	342.96	46.05	8.447			
7,700.00	7,627.32	7,503.00	7,486.31	30.31	18.68	-118.60	-385.42	1,028.94	418.96	373.19	45.77	9.154			
7,750.00	7,667.19	7,520.34	7,502.02	30.33	18.74	-117.14	-385.55	1,036.29	452.89	407.41	45.48	9.958			
7,800.00	7,704.28	7,535.00	7,515.18	30.36	18.79	-114.49	-385.59	1,042.74	490.25	445.01	45.25	10.835			
7,850.00	7,738.31	7,543.31	7,522.58	30.40	18.82	-109.78	-385.57	1,046.52	530.44	485.44	44.99	11.789			
7,900.00	7,769.02	7,549.13	7,527.74	30.45	18.85	-103.31	-385.53	1,049.21	572.82	528.01	44.81	12.783			
7,950.00	7,796.17	7,551.80	7,530.10	30.52	18.86	-94.80	-385.50	1,050.47	616.80	572.12	44.68	13.805			
8,000.00	7,819.57	7,551.71	7,530.02	30.63	18.86	-84.49	-385.50	1,050.42	661.82	617.22	44.60	14.839			
8,050.00	7,839.03	7,549.20	7,527.80	30.76	18.85	-73.20	-385.53	1,049.25	707.36	662.79	44.57	15.871			
8,100.00	7,854.40	7,544.59	7,523.71	30.94	18.83	-62.08	-385.56	1,047.11	752.97	708.38	44.58	16.889			
8,150.00	7,865.57	7,535.00	7,515.18	31.15	18.79	-51.74	-385.59	1,042.74	798.27	753.68	44.59	17.904			
8,200.00	7,872.45	7,535.00	7,515.18	31.41	18.79	-44.29	-385.59	1,042.74	842.90	798.09	44.81	18.810			
8,254.13	7,875.00	7,518.42	7,500.28	31.72	18.73	-36.58	-385.54	1,035.46	890.03	845.18	44.85	19.845			
8,300.00	7,875.00	7,503.00	7,486.31	32.03	18.68	-35.54	-385.42	1,028.94	929.62	884.73	44.89	20.709			
8,400.00	7,875.00	7,485.80	7,470.60	32.86	18.62	-34.44	-385.27	1,021.92	1,017.00	971.81	45.19	22.503			
8,500.00	7,875.00	7,464.71	7,451.23	33.88	18.55	-33.16	-385.17	1,013.59	1,105.74	1,060.33	45.41	24.351			
8,600.00	7,875.00	7,440.00	7,428.34	35.09	18.46	-31.76	-385.13	1,004.29	1,195.65	1,150.10	45.56	26.245			
8,700.00	7,875.00	7,430.33	7,419.32	36.45	18.43	-31.24	-385.12	1,000.80	1,286.49	1,240.67	45.82	28.074			
8,800.00	7,875.00	7,409.00	7,399.29	37.96	18.36	-30.12	-384.99	993.48	1,378.30	1,332.34	45.96	29.991			
8,900.00	7,875.00	7,401.10	7,391.83	39.60	18.34	-29.72	-384.88	990.89	1,470.76	1,424.59	46.17	31.853			
9,000.00	7,875.00	7,383.51	7,375.17	41.34	18.28	-28.84	-384.48	985.26	1,563.84	1,517.54	46.30	33.780			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 2310-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.00	7,875.00	7,367.64	7,360.08	43.19	18.23	-28.06	-383.90	980.36	1,657.40	1,610.99	46.41	35.710		
9,200.00	7,875.00	7,353.13	7,346.25	45.12	18.18	-27.36	-383.23	976.03	1,751.41	1,704.89	46.53	37.644		
9,300.00	7,875.00	7,346.00	7,339.44	47.12	18.16	-27.03	-382.85	973.96	1,845.86	1,799.19	46.67	39.555		
9,400.00	7,875.00	7,334.57	7,328.48	49.19	18.12	-26.50	-382.24	970.75	1,940.71	1,893.94	46.77	41.496		
9,500.00	7,875.00	7,327.50	7,321.69	51.32	18.10	-26.18	-381.88	968.86	2,035.97	1,989.08	46.88	43.428		
9,600.00	7,875.00	7,314.00	7,308.64	53.50	18.05	-25.60	-381.24	965.42	2,131.62	2,084.66	46.96	45.396		
9,700.00	7,875.00	7,314.00	7,308.64	55.72	18.05	-25.60	-381.24	965.42	2,227.49	2,180.41	47.08	47.315		
9,800.00	7,875.00	7,314.00	7,308.64	57.98	18.05	-25.60	-381.24	965.42	2,323.72	2,276.53	47.19	49.245		
9,900.00	7,875.00	7,314.00	7,308.64	60.28	18.05	-25.60	-381.24	965.42	2,420.24	2,372.96	47.29	51.182		
10,000.00	7,875.00	7,314.00	7,308.64	62.61	18.05	-25.60	-381.24	965.42	2,517.05	2,469.67	47.38	53.127		
10,100.00	7,875.00	7,314.00	7,308.64	64.97	18.05	-25.60	-381.24	965.42	2,614.09	2,566.62	47.46	55.078		
10,200.00	7,875.00	7,314.00	7,308.64	67.35	18.05	-25.60	-381.24	965.42	2,711.34	2,663.80	47.54	57.033		
10,300.00	7,875.00	7,314.00	7,308.64	69.75	18.05	-25.60	-381.24	965.42	2,808.79	2,761.18	47.61	58.993		
10,400.00	7,875.00	7,314.00	7,308.64	72.18	18.05	-25.60	-381.24	965.42	2,906.41	2,858.73	47.68	60.956		
10,500.00	7,875.00	7,314.00	7,308.64	74.62	18.05	-25.60	-381.24	965.42	3,004.19	2,956.45	47.75	62.921		
10,600.00	7,875.00	7,314.00	7,308.64	77.08	18.05	-25.60	-381.24	965.42	3,102.11	3,054.31	47.81	64.889		
10,700.00	7,875.00	7,314.00	7,308.64	79.56	18.05	-25.60	-381.24	965.42	3,200.16	3,152.30	47.87	66.858		
10,800.00	7,875.00	7,314.00	7,308.64	82.05	18.05	-25.60	-381.24	965.42	3,298.33	3,250.41	47.92	68.828		
10,900.00	7,875.00	7,314.00	7,308.64	84.55	18.05	-25.60	-381.24	965.42	3,396.60	3,348.63	47.98	70.799		
11,000.00	7,875.00	7,314.00	7,308.64	87.06	18.05	-25.60	-381.24	965.42	3,494.97	3,446.94	48.03	72.770		
11,100.00	7,875.00	7,314.00	7,308.64	89.58	18.05	-25.60	-381.24	965.42	3,593.43	3,545.35	48.08	74.740		
11,200.00	7,875.00	7,314.00	7,308.64	92.11	18.05	-25.60	-381.24	965.42	3,691.98	3,643.85	48.13	76.710		
11,300.00	7,875.00	7,314.00	7,308.64	94.66	18.05	-25.60	-381.24	965.42	3,790.60	3,742.42	48.18	78.679		
11,400.00	7,875.00	7,314.00	7,308.64	97.20	18.05	-25.60	-381.24	965.42	3,889.29	3,841.06	48.23	80.647		
11,500.00	7,875.00	7,314.00	7,308.64	99.76	18.05	-25.60	-381.24	965.42	3,988.04	3,939.77	48.27	82.614		
11,600.00	7,875.00	7,314.00	7,308.64	102.32	18.05	-25.60	-381.24	965.42	4,086.86	4,038.54	48.32	84.579		
11,700.00	7,875.00	7,273.01	7,268.48	104.89	17.92	-23.96	-379.81	957.46	4,183.34	4,135.03	48.31	86.598		
11,800.00	7,875.00	7,271.85	7,267.33	107.47	17.91	-23.92	-379.78	957.30	4,282.13	4,233.78	48.35	88.558		
11,900.00	7,875.00	7,270.73	7,266.23	110.05	17.91	-23.88	-379.76	957.15	4,380.98	4,332.58	48.40	90.516		
12,000.00	7,875.00	7,269.67	7,265.17	112.64	17.91	-23.84	-379.73	957.00	4,479.87	4,431.42	48.45	92.471		
12,100.00	7,875.00	7,268.64	7,264.15	115.23	17.90	-23.80	-379.71	956.87	4,578.80	4,530.31	48.49	94.423		
12,200.00	7,875.00	7,267.65	7,263.17	117.82	17.90	-23.77	-379.68	956.74	4,677.78	4,629.25	48.54	96.373		
12,300.00	7,875.00	7,266.70	7,262.23	120.42	17.90	-23.73	-379.66	956.62	4,776.80	4,728.22	48.58	98.320		
12,400.00	7,875.00	7,265.79	7,261.32	123.03	17.89	-23.70	-379.64	956.51	4,875.86	4,827.23	48.63	100.263		
12,500.00	7,875.00	7,264.90	7,260.45	125.64	17.89	-23.67	-379.62	956.40	4,974.95	4,926.27	48.68	102.203		
12,600.00	7,875.00	7,223.00	7,218.66	128.25	17.75	-22.26	-379.16	953.59	5,074.44	5,027.76	48.68	104.282		
12,700.00	7,875.00	7,223.00	7,218.66	130.86	17.75	-22.26	-379.16	953.59	5,175.50	5,126.77	48.73	106.210		
12,800.00	7,875.00	7,223.00	7,218.66	133.48	17.75	-22.26	-379.16	953.59	5,274.60	5,225.82	48.78	108.135		
12,900.00	7,875.00	7,223.00	7,218.66	136.10	17.75	-22.26	-379.16	953.59	5,373.73	5,324.90	48.83	110.056		
13,000.00	7,875.00	7,223.00	7,218.66	138.72	17.75	-22.26	-379.16	953.59	5,472.89	5,424.01	48.88	111.973		
13,100.00	7,875.00	7,223.00	7,218.66	141.35	17.75	-22.26	-379.16	953.59	5,572.08	5,523.15	48.93	113.886		
13,200.00	7,875.00	7,223.00	7,218.66	143.98	17.75	-22.26	-379.16	953.59	5,671.30	5,622.32	48.98	115.796		
13,300.00	7,875.00	7,223.00	7,218.66	146.61	17.75	-22.26	-379.16	953.59	5,770.55	5,721.52	49.03	117.701		
13,400.00	7,875.00	7,223.00	7,218.66	149.24	17.75	-22.26	-379.16	953.59	5,869.82	5,820.74	49.08	119.601		
13,500.00	7,875.00	7,223.00	7,218.66	151.87	17.75	-22.26	-379.16	953.59	5,969.12	5,919.99	49.13	121.498		
13,600.00	7,875.00	7,223.00	7,218.66	154.51	17.75	-22.26	-379.16	953.59	6,068.44	6,019.26	49.18	123.389		
13,700.00	7,875.00	7,223.00	7,218.66	157.15	17.75	-22.26	-379.16	953.59	6,167.78	6,118.55	49.23	125.277		
13,800.00	7,875.00	7,223.00	7,218.66	159.79	17.75	-22.26	-379.16	953.59	6,267.14	6,217.86	49.29	127.159		
13,900.00	7,875.00	7,223.00	7,218.66	162.43	17.75	-22.26	-379.16	953.59	6,366.52	6,317.19	49.34	129.036		
14,000.00	7,875.00	7,223.00	7,218.66	165.07	17.75	-22.26	-379.16	953.59	6,465.93	6,416.53	49.39	130.909		
14,100.00	7,875.00	7,223.00	7,218.66	167.72	17.75	-22.26	-379.16	953.59	6,565.35	6,515.90	49.45	132.777		
14,200.00	7,875.00	7,223.00	7,218.66	170.36	17.75	-22.26	-379.16	953.59	6,664.78	6,615.28	49.50	134.639		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - EXIST HZ PROSPER FARMS 4-65 13-14 1H - OWB - FINAL SURVEY	Offset Site Error:	0.00 usft
Survey Program: 2310-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,300.00	7,875.00	7,223.00	7,218.66	173.01	17.75	-22.26	-379.16	953.59	6,764.24	6,714.68	49.56	136.496			
14,400.00	7,875.00	7,223.00	7,218.66	175.66	17.75	-22.26	-379.16	953.59	6,863.71	6,814.10	49.61	138.348			
14,500.00	7,875.00	7,223.00	7,218.66	178.31	17.75	-22.26	-379.16	953.59	6,963.19	6,913.52	49.67	140.194			
14,600.00	7,875.00	7,223.00	7,218.66	180.96	17.75	-22.26	-379.16	953.59	7,062.69	7,012.97	49.72	142.035			
14,700.00	7,875.00	7,223.00	7,218.66	183.61	17.75	-22.26	-379.16	953.59	7,162.21	7,112.42	49.78	143.871			
14,800.00	7,875.00	7,223.00	7,218.66	186.27	17.75	-22.26	-379.16	953.59	7,261.73	7,211.89	49.84	145.701			
14,900.00	7,875.00	7,223.00	7,218.66	188.92	17.75	-22.26	-379.16	953.59	7,361.27	7,311.37	49.90	147.525			
15,000.00	7,875.00	7,223.00	7,218.66	191.58	17.75	-22.26	-379.16	953.59	7,460.82	7,410.87	49.96	149.343			
15,100.00	7,875.00	7,223.00	7,218.66	194.24	17.75	-22.26	-379.16	953.59	7,560.39	7,510.37	50.02	151.156			
15,200.00	7,875.00	7,223.00	7,218.66	196.89	17.75	-22.26	-379.16	953.59	7,659.96	7,609.89	50.08	152.963			
15,300.00	7,875.00	7,223.00	7,218.66	199.55	17.75	-22.26	-379.16	953.59	7,759.55	7,709.41	50.14	154.763			
15,400.00	7,875.00	7,223.00	7,218.66	202.21	17.75	-22.26	-379.16	953.59	7,859.14	7,808.95	50.20	156.558			
15,500.00	7,875.00	7,223.00	7,218.66	204.87	17.75	-22.26	-379.16	953.59	7,958.75	7,908.49	50.26	158.347			
15,600.00	7,875.00	7,223.00	7,218.66	207.53	17.75	-22.26	-379.16	953.59	8,058.37	8,008.04	50.32	160.130			
15,700.00	7,875.00	7,223.00	7,218.66	210.20	17.75	-22.26	-379.16	953.59	8,157.99	8,107.61	50.39	161.906			
15,800.00	7,875.00	7,223.00	7,218.66	212.86	17.75	-22.26	-379.16	953.59	8,257.63	8,207.18	50.45	163.676			
15,900.00	7,875.00	7,223.00	7,218.66	215.52	17.75	-22.26	-379.16	953.59	8,357.27	8,306.76	50.52	165.440			
16,000.00	7,875.00	7,223.00	7,218.66	218.19	17.75	-22.26	-379.16	953.59	8,456.92	8,406.34	50.58	167.198			
16,100.00	7,875.00	7,223.00	7,218.66	220.85	17.75	-22.26	-379.16	953.59	8,556.58	8,505.94	50.65	168.949			
16,200.00	7,875.00	7,223.00	7,218.66	223.52	17.75	-22.26	-379.16	953.59	8,656.25	8,605.54	50.71	170.694			
16,300.00	7,875.00	7,223.00	7,218.66	226.18	17.75	-22.26	-379.16	953.59	8,755.93	8,705.15	50.78	172.432			
16,400.00	7,875.00	7,223.00	7,218.66	228.85	17.75	-22.26	-379.16	953.59	8,855.61	8,804.76	50.85	174.164			
16,500.00	7,875.00	7,223.00	7,218.66	231.52	17.75	-22.26	-379.16	953.59	8,955.30	8,904.39	50.91	175.890			
16,600.00	7,875.00	7,223.00	7,218.66	234.18	17.75	-22.26	-379.16	953.59	9,055.00	9,004.01	50.98	177.609			
16,700.00	7,875.00	7,223.00	7,218.66	236.85	17.75	-22.26	-379.16	953.59	9,154.70	9,103.65	51.05	179.321			
16,800.00	7,875.00	7,223.00	7,218.66	239.52	17.75	-22.26	-379.16	953.59	9,254.41	9,203.29	51.12	181.026			
16,900.00	7,875.00	7,223.00	7,218.66	242.19	17.75	-22.26	-379.16	953.59	9,354.13	9,302.93	51.19	182.725			
17,000.00	7,875.00	7,223.00	7,218.66	244.86	17.75	-22.26	-379.16	953.59	9,453.85	9,402.59	51.26	184.418			
17,100.00	7,875.00	7,223.00	7,218.66	247.53	17.75	-22.26	-379.16	953.59	9,553.58	9,502.24	51.33	186.103			
17,200.00	7,875.00	7,223.00	7,218.66	250.20	17.75	-22.26	-379.16	953.59	9,653.31	9,601.90	51.41	187.782			
17,300.00	7,875.00	7,223.00	7,218.66	252.87	17.75	-22.26	-379.16	953.59	9,753.05	9,701.57	51.48	189.454			
17,400.00	7,875.00	7,223.00	7,218.66	255.54	17.75	-22.26	-379.16	953.59	9,852.79	9,801.24	51.55	191.119			
17,500.00	7,875.00	7,223.00	7,218.66	258.21	17.75	-22.26	-379.16	953.59	9,952.54	9,900.92	51.63	192.777			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1AH - 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	1.20	1.20	0.00	0.00	0.00	100.17	0.00	100.17						
100.00	100.00	101.20	101.20	0.13	0.14	0.00	100.17	0.00	100.17	99.90	0.27	366.711			
200.00	200.00	201.20	201.20	0.49	0.50	0.00	100.17	0.00	100.17	99.18	0.99	101.171			
250.00	250.00	251.20	251.20	0.67	0.68	0.00	100.17	0.00	100.17	98.82	1.35	74.278 CC, ES			
300.00	300.00	299.85	299.84	0.85	0.85	-97.15	100.51	0.27	100.57	98.87	1.70	59.240			
400.00	399.93	397.12	397.05	1.20	1.20	-97.78	103.10	2.39	103.67	101.27	2.40	43.239			
500.00	499.68	494.15	493.85	1.56	1.55	-98.95	108.23	6.57	109.88	106.77	3.11	35.298			
603.98	603.08	594.62	593.79	1.95	1.93	-100.52	116.22	13.08	119.68	115.81	3.88	30.874			
700.00	698.37	686.96	685.27	2.33	2.29	-101.68	125.96	21.01	131.47	126.88	4.60	28.585			
800.00	797.61	782.57	779.51	2.73	2.69	-101.80	138.44	31.18	146.11	140.75	5.36	27.240			
900.00	896.84	880.23	875.34	3.13	3.12	-101.29	153.03	43.06	162.49	156.34	6.15	26.418			
1,000.00	996.08	978.85	972.09	3.54	3.56	-100.85	167.86	55.14	178.98	172.02	6.95	25.735			
1,100.00	1,095.32	1,077.48	1,068.84	3.95	4.01	-100.48	182.69	67.22	195.47	187.71	7.76	25.184			
1,200.00	1,194.56	1,176.10	1,165.59	4.36	4.47	-100.17	197.52	79.30	211.97	203.39	8.58	24.719			
1,300.00	1,293.79	1,274.72	1,262.34	4.77	4.93	-99.90	212.35	91.38	228.47	219.08	9.39	24.328			
1,400.00	1,393.03	1,373.35	1,359.09	5.18	5.39	-99.67	227.17	103.46	244.98	234.77	10.21	23.995			
1,500.00	1,492.27	1,471.97	1,455.84	5.59	5.85	-99.47	242.00	115.54	261.49	250.46	11.03	23.708			
1,600.00	1,591.51	1,570.59	1,552.60	6.00	6.32	-99.29	256.83	127.62	278.01	266.16	11.85	23.458			
1,700.00	1,690.74	1,669.22	1,649.35	6.41	6.78	-99.13	271.66	139.70	294.53	281.85	12.67	23.239			
1,800.00	1,789.98	1,767.84	1,746.10	6.83	7.25	-98.99	286.49	151.77	311.05	297.55	13.50	23.045			
1,900.00	1,889.22	1,866.46	1,842.85	7.24	7.72	-98.87	301.32	163.85	327.57	313.25	14.32	22.873			
2,000.00	1,988.46	1,965.09	1,939.60	7.65	8.18	-98.75	316.15	175.93	344.09	328.94	15.15	22.718			
2,100.00	2,087.69	2,063.71	2,036.35	8.07	8.65	-98.65	330.98	188.01	360.61	344.64	15.97	22.579			
2,200.00	2,186.93	2,162.33	2,133.10	8.48	9.12	-98.55	345.81	200.09	377.14	360.34	16.80	22.453			
2,300.00	2,286.17	2,260.96	2,229.85	8.89	9.59	-98.47	360.63	212.17	393.66	376.04	17.62	22.338			
2,400.00	2,385.41	2,359.58	2,326.60	9.31	10.06	-98.39	375.46	224.25	410.19	391.74	18.45	22.234			
2,500.00	2,484.64	2,458.21	2,423.35	9.72	10.53	-98.31	390.29	236.33	426.72	407.44	19.28	22.138			
2,600.00	2,583.88	2,556.83	2,520.11	10.13	11.00	-98.24	405.12	248.41	443.24	423.14	20.10	22.049			
2,700.00	2,683.12	2,655.45	2,616.86	10.55	11.47	-98.18	419.95	260.49	459.77	438.84	20.93	21.968			
2,800.00	2,782.36	2,754.08	2,713.61	10.96	11.94	-98.12	434.78	272.57	476.30	454.54	21.76	21.892			
2,900.00	2,881.59	2,852.70	2,810.36	11.38	12.41	-98.07	449.61	284.65	492.83	470.25	22.58	21.822			
3,000.00	2,980.83	2,951.32	2,907.11	11.79	12.88	-98.01	464.44	296.73	509.36	485.95	23.41	21.757			
3,100.00	3,080.07	3,049.95	3,003.86	12.21	13.35	-97.97	479.26	308.81	525.89	501.65	24.24	21.696			
3,200.00	3,179.31	3,148.57	3,100.61	12.62	13.82	-97.92	494.09	320.89	542.42	517.35	25.07	21.639			
3,300.00	3,278.55	3,247.19	3,197.36	13.03	14.29	-97.88	508.92	332.97	558.95	533.06	25.89	21.586			
3,400.00	3,377.78	3,345.82	3,294.11	13.45	14.77	-97.84	523.75	345.05	575.48	548.76	26.72	21.535			
3,500.00	3,477.02	3,444.44	3,390.87	13.86	15.24	-97.80	538.58	357.12	592.01	564.46	27.55	21.488			
3,600.00	3,576.26	3,543.06	3,487.62	14.28	15.71	-97.76	553.41	369.20	608.55	580.17	28.38	21.444			
3,700.00	3,675.50	3,641.69	3,584.37	14.69	16.18	-97.73	568.24	381.28	625.08	595.87	29.21	21.401			
3,800.00	3,774.73	3,740.31	3,681.12	15.11	16.65	-97.70	583.07	393.36	641.61	611.57	30.04	21.362			
3,900.00	3,873.97	3,838.93	3,777.87	15.52	17.12	-97.67	597.90	405.44	658.14	627.28	30.86	21.324			
4,000.00	3,973.21	3,937.56	3,874.62	15.93	17.60	-97.64	612.72	417.52	674.67	642.98	31.69	21.288			
4,100.00	4,072.45	4,036.18	3,971.37	16.35	18.07	-97.61	627.55	429.60	691.21	658.68	32.52	21.254			
4,200.00	4,171.68	4,134.80	4,068.12	16.76	18.54	-97.58	642.38	441.68	707.74	674.39	33.35	21.222			
4,300.00	4,270.92	4,233.43	4,164.87	17.18	19.01	-97.56	657.21	453.76	724.27	690.09	34.18	21.191			
4,400.00	4,370.16	4,332.05	4,261.62	17.59	19.48	-97.54	672.04	465.84	740.80	705.80	35.01	21.162			
4,500.00	4,469.40	4,430.67	4,358.38	18.01	19.95	-97.51	686.87	477.92	757.34	721.50	35.84	21.134			
4,600.00	4,568.63	4,529.30	4,455.13	18.42	20.43	-97.49	701.70	490.00	773.87	737.21	36.66	21.107			
4,700.00	4,667.87	4,627.92	4,551.88	18.84	20.90	-97.47	716.53	502.08	790.40	752.91	37.49	21.081			
4,800.00	4,767.11	4,726.54	4,648.63	19.25	21.37	-97.45	731.35	514.16	806.94	768.61	38.32	21.057			
4,900.00	4,866.35	4,825.17	4,745.38	19.66	21.84	-97.43	746.18	526.24	823.47	784.32	39.15	21.033			
5,000.00	4,965.58	4,923.79	4,842.13	20.08	22.32	-97.41	761.01	538.32	840.00	800.02	39.98	21.010			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1AH - 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	5,064.82	5,022.41	4,938.88	20.49	22.79	-97.39	775.84	550.40	856.54	815.73	40.81	20.989			
5,200.00	5,164.06	5,121.04	5,035.63	20.91	23.26	-97.38	790.67	562.47	873.07	831.43	41.64	20.968			
5,300.00	5,263.30	5,219.66	5,132.38	21.32	23.73	-97.36	805.50	574.55	889.60	847.14	42.47	20.948			
5,400.00	5,362.53	5,318.28	5,229.14	21.74	24.20	-97.34	820.33	586.63	906.14	862.84	43.30	20.928			
5,500.00	5,461.77	5,416.91	5,325.89	22.15	24.68	-97.33	835.16	598.71	922.67	878.55	44.13	20.910			
5,600.00	5,561.01	5,515.53	5,422.64	22.57	25.15	-97.31	849.99	610.79	939.20	894.25	44.96	20.892			
5,700.00	5,660.25	5,614.15	5,519.39	22.98	25.62	-97.30	864.81	622.87	955.74	909.95	45.78	20.875			
5,800.00	5,759.49	5,712.78	5,616.14	23.40	26.09	-97.28	879.64	634.95	972.27	925.66	46.61	20.858			
5,900.00	5,858.72	5,811.40	5,712.89	23.81	26.57	-97.27	894.47	647.03	988.81	941.36	47.44	20.842			
6,000.00	5,957.96	5,910.02	5,809.64	24.23	27.04	-97.26	909.30	659.11	1,005.34	957.07	48.27	20.826			
6,100.00	6,057.20	6,008.65	5,906.39	24.64	27.51	-97.25	924.13	671.19	1,021.88	972.77	49.10	20.811			
6,200.00	6,156.44	6,107.27	6,003.14	25.05	27.98	-97.23	938.96	683.27	1,038.41	988.48	49.93	20.797			
6,300.00	6,255.67	6,205.89	6,099.90	25.47	28.45	-97.22	953.79	695.35	1,054.94	1,004.18	50.76	20.782			
6,400.00	6,354.91	6,304.52	6,196.65	25.88	28.93	-97.21	968.62	707.43	1,071.48	1,019.89	51.59	20.769			
6,500.00	6,454.15	6,403.14	6,293.40	26.30	29.40	-97.20	983.45	719.51	1,088.01	1,035.59	52.42	20.755			
6,600.00	6,553.39	6,501.76	6,390.15	26.71	29.87	-97.19	998.27	731.59	1,104.55	1,051.30	53.25	20.742			
6,700.00	6,652.62	6,600.39	6,486.90	27.13	30.34	-97.18	1,013.10	743.67	1,121.08	1,067.00	54.08	20.730			
6,800.00	6,751.86	6,700.99	6,583.65	27.54	30.83	-97.17	1,027.93	755.75	1,137.62	1,082.70	54.92	20.715			
6,900.00	6,851.10	6,802.37	6,680.40	27.96	31.31	-97.16	1,042.76	767.82	1,154.15	1,098.39	55.76	20.699			
7,000.00	6,950.34	6,903.74	6,777.15	28.37	31.80	-97.15	1,057.59	779.90	1,170.68	1,114.08	56.60	20.683			
7,100.00	7,049.57	7,005.12	6,873.90	28.79	32.28	-97.14	1,072.42	791.98	1,187.22	1,129.78	57.44	20.668			
7,200.00	7,148.81	7,106.50	6,970.65	29.20	32.77	-97.13	1,087.25	804.06	1,203.75	1,145.47	58.28	20.653			
7,283.93	7,232.10	7,176.28	7,051.86	29.55	33.10	-97.12	1,099.69	814.20	1,217.63	1,158.70	58.93	20.664			
7,300.00	7,248.07	7,207.87	7,067.40	29.61	33.25	-99.55	1,102.08	816.14	1,220.29	1,161.17	59.12	20.640			
7,350.00	7,297.99	7,241.28	7,115.63	29.79	33.41	-156.34	1,109.47	822.16	1,228.56	1,169.14	59.42	20.675			
7,400.00	7,347.93	7,289.94	7,163.36	29.93	33.65	100.26	1,116.78	828.12	1,236.82	1,177.08	59.73	20.706			
7,450.00	7,397.53	7,337.71	7,210.23	30.03	33.88	94.15	1,123.97	833.97	1,245.08	1,185.09	59.99	20.754			
7,500.00	7,446.40	7,384.95	7,256.60	30.12	34.10	92.16	1,131.07	839.47	1,253.40	1,193.20	60.21	20.818			
7,550.00	7,494.17	7,433.92	7,304.93	30.19	34.30	91.18	1,138.46	841.84	1,261.78	1,201.38	60.39	20.893			
7,600.00	7,540.48	7,484.48	7,354.87	30.24	34.48	90.60	1,146.06	839.89	1,270.13	1,209.58	60.55	20.977			
7,650.00	7,584.98	7,536.83	7,406.18	30.28	34.64	90.22	1,153.85	833.19	1,278.40	1,217.72	60.68	21.067			
7,700.00	7,627.32	7,591.14	7,458.55	30.31	34.76	89.97	1,161.77	821.27	1,286.51	1,225.71	60.80	21.160			
7,750.00	7,667.19	7,647.59	7,511.55	30.33	34.86	89.81	1,169.76	803.62	1,294.38	1,233.47	60.91	21.252			
7,800.00	7,704.28	7,706.36	7,564.63	30.36	34.93	89.72	1,177.72	779.74	1,301.93	1,240.92	61.01	21.340			
7,850.00	7,738.31	7,767.60	7,617.06	30.40	34.96	89.68	1,185.54	749.15	1,309.06	1,247.95	61.11	21.420			
7,900.00	7,769.02	7,831.41	7,667.95	30.45	34.97	89.69	1,193.09	711.45	1,315.68	1,254.44	61.24	21.484			
7,950.00	7,796.17	7,897.84	7,716.19	30.52	34.94	89.73	1,200.19	666.38	1,321.69	1,260.29	61.40	21.527			
8,000.00	7,819.57	7,966.85	7,760.49	30.63	34.89	89.79	1,206.64	613.93	1,326.99	1,265.37	61.62	21.537			
8,050.00	7,839.03	8,038.28	7,799.44	30.76	34.81	89.86	1,212.24	554.37	1,331.48	1,269.56	61.91	21.506			
8,100.00	7,854.40	8,111.84	7,831.59	30.94	34.70	89.91	1,216.77	488.42	1,335.07	1,272.75	62.32	21.424			
8,150.00	7,865.57	8,187.12	7,855.57	31.15	34.59	89.96	1,220.02	417.20	1,337.68	1,274.83	62.85	21.285			
8,200.00	7,872.45	8,263.55	7,870.27	31.41	34.48	89.97	1,221.83	342.27	1,339.26	1,275.75	63.51	21.087			
8,254.13	7,875.00	8,343.62	7,875.00	31.72	34.39	89.95	1,222.09	262.40	1,339.77	1,275.43	64.34	20.824			
8,300.00	7,875.00	8,389.50	7,875.00	32.03	34.36	89.95	1,221.83	216.53	1,339.77	1,274.80	64.96	20.623			
8,400.00	7,875.00	8,489.50	7,875.00	32.86	34.46	89.95	1,221.25	116.53	1,339.76	1,273.13	66.63	20.107			
8,500.00	7,875.00	8,589.50	7,875.00	33.88	34.98	89.95	1,220.68	16.53	1,339.76	1,271.09	68.68	19.507			
8,600.00	7,875.00	8,689.50	7,875.00	35.09	36.01	89.95	1,220.10	-83.47	1,339.76	1,268.69	71.08	18.850			
8,700.00	7,875.00	8,789.50	7,875.00	36.45	37.34	89.95	1,219.53	-183.46	1,339.76	1,265.98	73.79	18.157			
8,800.00	7,875.00	8,889.50	7,875.00	37.96	38.85	89.95	1,218.95	-283.46	1,339.76	1,262.98	76.78	17.449			
8,900.00	7,875.00	8,989.50	7,875.00	39.60	40.50	89.95	1,218.38	-383.46	1,339.76	1,259.74	80.03	16.742			
9,000.00	7,875.00	9,089.50	7,875.00	41.34	42.25	89.95	1,217.80	-483.46	1,339.76	1,256.27	83.49	16.047			
9,100.00	7,875.00	9,189.50	7,875.00	43.19	44.10	89.95	1,217.23	-583.46	1,339.76	1,252.61	87.15	15.373			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1AH - 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			
9,200.00	7,875.00	9,289.50	7,875.00	45.12	46.03	89.95	1,216.65	-683.46	1,339.76	1,248.78	90.98	14.725			
9,300.00	7,875.00	9,389.50	7,875.00	47.12	48.03	89.95	1,216.08	-783.45	1,339.76	1,244.80	94.97	14.108			
9,400.00	7,875.00	9,489.50	7,875.00	49.19	50.10	89.95	1,215.50	-883.45	1,339.76	1,240.68	99.08	13.522			
9,500.00	7,875.00	9,589.50	7,875.00	51.32	52.22	89.95	1,214.93	-983.45	1,339.76	1,236.45	103.31	12.966			
9,600.00	7,875.00	9,689.50	7,875.00	53.50	54.39	89.95	1,214.35	-1,083.45	1,339.76	1,232.11	107.65	12.444			
9,700.00	7,875.00	9,789.50	7,875.00	55.72	56.60	89.95	1,213.78	-1,183.45	1,339.76	1,227.69	112.07	11.954			
9,800.00	7,875.00	9,889.50	7,875.00	57.98	58.85	89.95	1,213.20	-1,283.45	1,339.76	1,223.18	116.58	11.492			
9,900.00	7,875.00	9,989.50	7,875.00	60.28	61.13	89.95	1,212.63	-1,383.44	1,339.76	1,218.61	121.16	11.058			
10,000.00	7,875.00	10,089.50	7,875.00	62.61	63.45	89.95	1,212.05	-1,483.44	1,339.76	1,213.96	125.80	10.650			
10,100.00	7,875.00	10,189.50	7,875.00	64.97	65.79	89.95	1,211.47	-1,583.44	1,339.76	1,209.27	130.50	10.267			
10,200.00	7,875.00	10,289.50	7,875.00	67.35	68.16	89.95	1,210.90	-1,683.44	1,339.76	1,204.52	135.24	9.906			
10,300.00	7,875.00	10,389.50	7,875.00	69.75	70.55	89.95	1,210.32	-1,783.44	1,339.76	1,199.72	140.04	9.567			
10,400.00	7,875.00	10,489.50	7,875.00	72.18	72.96	89.95	1,209.75	-1,883.44	1,339.76	1,194.88	144.88	9.248			
10,500.00	7,875.00	10,589.50	7,875.00	74.62	75.39	89.95	1,209.17	-1,983.43	1,339.76	1,190.01	149.75	8.947			
10,600.00	7,875.00	10,689.50	7,875.00	77.08	77.84	89.95	1,208.60	-2,083.43	1,339.76	1,185.10	154.66	8.663			
10,700.00	7,875.00	10,789.50	7,875.00	79.56	80.30	89.95	1,208.02	-2,183.43	1,339.76	1,180.16	159.59	8.395			
10,800.00	7,875.00	10,889.50	7,875.00	82.05	82.78	89.95	1,207.45	-2,283.43	1,339.76	1,175.20	164.56	8.141			
10,900.00	7,875.00	10,989.50	7,875.00	84.55	85.26	89.95	1,206.87	-2,383.43	1,339.76	1,170.21	169.55	7.902			
11,000.00	7,875.00	11,089.50	7,875.00	87.06	87.76	89.95	1,206.30	-2,483.43	1,339.76	1,165.19	174.57	7.675			
11,100.00	7,875.00	11,189.50	7,875.00	89.58	90.27	89.95	1,205.72	-2,583.42	1,339.76	1,160.16	179.60	7.460			
11,200.00	7,875.00	11,289.50	7,875.00	92.11	92.79	89.95	1,205.15	-2,683.42	1,339.76	1,155.10	184.66	7.255			
11,300.00	7,875.00	11,389.50	7,875.00	94.66	95.32	89.95	1,204.57	-2,783.42	1,339.76	1,150.03	189.73	7.061			
11,400.00	7,875.00	11,489.50	7,875.00	97.20	97.86	89.95	1,204.00	-2,883.42	1,339.76	1,144.94	194.82	6.877			
11,500.00	7,875.00	11,589.50	7,875.00	99.76	100.41	89.95	1,203.42	-2,983.42	1,339.76	1,139.83	199.93	6.701			
11,600.00	7,875.00	11,689.50	7,875.00	102.32	102.96	89.95	1,202.85	-3,083.42	1,339.76	1,134.71	205.05	6.534			
11,700.00	7,875.00	11,789.50	7,875.00	104.89	105.52	89.95	1,202.27	-3,183.41	1,339.76	1,129.58	210.18	6.374			
11,800.00	7,875.00	11,889.50	7,875.00	107.47	108.09	89.95	1,201.70	-3,283.41	1,339.76	1,124.43	215.32	6.222			
11,900.00	7,875.00	11,989.50	7,875.00	110.05	110.66	89.95	1,201.12	-3,383.41	1,339.76	1,119.28	220.48	6.077			
12,000.00	7,875.00	12,089.50	7,875.00	112.64	113.24	89.95	1,200.55	-3,483.41	1,339.76	1,114.11	225.65	5.937			
12,100.00	7,875.00	12,189.50	7,875.00	115.23	115.82	89.95	1,199.97	-3,583.41	1,339.76	1,108.93	230.82	5.804			
12,200.00	7,875.00	12,289.50	7,875.00	117.82	118.41	89.95	1,199.40	-3,683.41	1,339.76	1,103.75	236.01	5.677			
12,300.00	7,875.00	12,389.50	7,875.00	120.42	121.00	89.95	1,198.82	-3,783.40	1,339.76	1,098.55	241.20	5.554			
12,400.00	7,875.00	12,489.50	7,875.00	123.03	123.59	89.95	1,198.25	-3,883.40	1,339.76	1,093.35	246.41	5.437			
12,500.00	7,875.00	12,589.50	7,875.00	125.64	126.19	89.95	1,197.67	-3,983.40	1,339.76	1,088.14	251.62	5.325			
12,600.00	7,875.00	12,689.50	7,875.00	128.25	128.80	89.95	1,197.10	-4,083.40	1,339.76	1,082.92	256.83	5.216			
12,700.00	7,875.00	12,789.50	7,875.00	130.86	131.41	89.95	1,196.52	-4,183.40	1,339.75	1,077.70	262.06	5.112			
12,800.00	7,875.00	12,889.50	7,875.00	133.48	134.02	89.95	1,195.95	-4,283.40	1,339.75	1,072.47	267.29	5.012			
12,900.00	7,875.00	12,989.50	7,875.00	136.10	136.63	89.95	1,195.37	-4,383.39	1,339.75	1,067.23	272.52	4.916			
13,000.00	7,875.00	13,089.50	7,875.00	138.72	139.25	89.95	1,194.80	-4,483.39	1,339.75	1,061.99	277.77	4.823			
13,100.00	7,875.00	13,189.50	7,875.00	141.35	141.86	89.95	1,194.22	-4,583.39	1,339.75	1,056.74	283.01	4.734			
13,200.00	7,875.00	13,289.50	7,875.00	143.98	144.49	89.95	1,193.65	-4,683.39	1,339.75	1,051.49	288.27	4.648			
13,300.00	7,875.00	13,389.50	7,875.00	146.61	147.11	89.95	1,193.07	-4,783.39	1,339.75	1,046.23	293.52	4.564			
13,400.00	7,875.00	13,489.50	7,875.00	149.24	149.74	89.95	1,192.50	-4,883.39	1,339.75	1,040.97	298.78	4.484			
13,500.00	7,875.00	13,589.50	7,875.00	151.87	152.37	89.95	1,191.92	-4,983.38	1,339.75	1,035.70	304.05	4.406			
13,600.00	7,875.00	13,689.50	7,875.00	154.51	155.00	89.95	1,191.35	-5,083.38	1,339.75	1,030.43	309.32	4.331			
13,700.00	7,875.00	13,789.50	7,875.00	157.15	157.63	89.95	1,190.77	-5,183.38	1,339.75	1,025.16	314.59	4.259			
13,800.00	7,875.00	13,889.50	7,875.00	159.79	160.26	89.95	1,190.20	-5,283.38	1,339.75	1,019.88	319.87	4.188			
13,900.00	7,875.00	13,989.50	7,875.00	162.43	162.90	89.95	1,189.62	-5,383.38	1,339.75	1,014.60	325.15	4.120			
14,000.00	7,875.00	14,089.50	7,875.00	165.07	165.54	89.95	1,189.05	-5,483.38	1,339.75	1,009.32	330.43	4.055			
14,100.00	7,875.00	14,189.50	7,875.00	167.72	168.18	89.95	1,188.47	-5,583.37	1,339.75	1,004.03	335.72	3.991			
14,200.00	7,875.00	14,289.50	7,875.00	170.36	170.82	89.95	1,187.90	-5,683.37	1,339.75	998.74	341.01	3.929			
14,300.00	7,875.00	14,389.50	7,875.00	173.01	173.46	89.95	1,187.32	-5,783.37	1,339.75	993.45	346.30	3.869			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1AH - 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			
14,400.00	7,875.00	14,489.50	7,875.00	175.66	176.11	89.95	1,186.75	-5,883.37	1,339.75	988.15	351.60	3.810			
14,500.00	7,875.00	14,589.50	7,875.00	178.31	178.75	89.95	1,186.17	-5,983.37	1,339.75	982.85	356.90	3.754			
14,600.00	7,875.00	14,689.50	7,875.00	180.96	181.40	89.95	1,185.60	-6,083.37	1,339.75	977.55	362.20	3.699			
14,700.00	7,875.00	14,789.50	7,875.00	183.61	184.05	89.95	1,185.02	-6,183.36	1,339.75	972.25	367.50	3.646			
14,800.00	7,875.00	14,889.50	7,875.00	186.27	186.70	89.95	1,184.45	-6,283.36	1,339.75	966.94	372.81	3.594			
14,900.00	7,875.00	14,989.50	7,875.00	188.92	189.35	89.95	1,183.87	-6,383.36	1,339.75	961.64	378.11	3.543			
15,000.00	7,875.00	15,089.50	7,875.00	191.58	192.00	89.95	1,183.30	-6,483.36	1,339.75	956.33	383.42	3.494			
15,100.00	7,875.00	15,189.50	7,875.00	194.24	194.65	89.95	1,182.72	-6,583.36	1,339.75	951.02	388.73	3.446			
15,200.00	7,875.00	15,289.50	7,875.00	196.89	197.31	89.95	1,182.15	-6,683.36	1,339.75	945.70	394.05	3.400			
15,300.00	7,875.00	15,389.50	7,875.00	199.55	199.96	89.95	1,181.57	-6,783.36	1,339.75	940.39	399.36	3.355			
15,400.00	7,875.00	15,489.50	7,875.00	202.21	202.62	89.95	1,181.00	-6,883.35	1,339.75	935.07	404.68	3.311			
15,500.00	7,875.00	15,589.50	7,875.00	204.87	205.28	89.95	1,180.42	-6,983.35	1,339.75	929.75	410.00	3.268			
15,600.00	7,875.00	15,689.50	7,875.00	207.53	207.93	89.95	1,179.85	-7,083.35	1,339.75	924.43	415.32	3.226			
15,700.00	7,875.00	15,789.50	7,875.00	210.20	210.59	89.95	1,179.27	-7,183.35	1,339.75	919.11	420.64	3.185			
15,800.00	7,875.00	15,889.50	7,875.00	212.86	213.25	89.95	1,178.70	-7,283.35	1,339.75	913.78	425.96	3.145			
15,900.00	7,875.00	15,989.50	7,875.00	215.52	215.91	89.95	1,178.12	-7,383.35	1,339.75	908.46	431.29	3.106			
16,000.00	7,875.00	16,089.50	7,875.00	218.19	218.57	89.95	1,177.55	-7,483.34	1,339.75	903.13	436.62	3.068			
16,100.00	7,875.00	16,189.50	7,875.00	220.85	221.24	89.95	1,176.97	-7,583.34	1,339.75	897.80	441.94	3.031			
16,200.00	7,875.00	16,289.50	7,875.00	223.52	223.90	89.95	1,176.40	-7,683.34	1,339.75	892.47	447.27	2.995			
16,300.00	7,875.00	16,389.50	7,875.00	226.18	226.56	89.95	1,175.82	-7,783.34	1,339.75	887.14	452.60	2.960			
16,400.00	7,875.00	16,489.50	7,875.00	228.85	229.22	89.95	1,175.25	-7,883.34	1,339.75	881.81	457.94	2.926			
16,500.00	7,875.00	16,589.50	7,875.00	231.52	231.89	89.95	1,174.67	-7,983.34	1,339.75	876.48	463.27	2.892			
16,600.00	7,875.00	16,689.50	7,875.00	234.18	234.55	89.95	1,174.10	-8,083.33	1,339.75	871.14	468.60	2.859			
16,700.00	7,875.00	16,789.50	7,875.00	236.85	237.22	89.95	1,173.52	-8,183.33	1,339.75	865.81	473.94	2.827			
16,800.00	7,875.00	16,889.50	7,875.00	239.52	239.89	89.95	1,172.95	-8,283.33	1,339.75	860.47	479.27	2.795			
16,900.00	7,875.00	16,989.50	7,875.00	242.19	242.55	89.95	1,172.37	-8,383.33	1,339.74	855.13	484.61	2.765			
17,000.00	7,875.00	17,089.50	7,875.00	244.86	245.22	89.95	1,171.80	-8,483.33	1,339.74	849.80	489.95	2.734			
17,100.00	7,875.00	17,189.50	7,875.00	247.53	247.89	89.95	1,171.22	-8,583.33	1,339.74	844.46	495.29	2.705			
17,200.00	7,875.00	17,289.50	7,875.00	250.20	250.55	89.95	1,170.65	-8,683.32	1,339.74	839.12	500.63	2.676			
17,300.00	7,875.00	17,389.50	7,875.00	252.87	253.22	89.95	1,170.07	-8,783.32	1,339.74	833.78	505.97	2.648			
17,400.00	7,875.00	17,489.50	7,875.00	255.54	255.89	89.95	1,169.50	-8,883.32	1,339.74	828.43	511.31	2.620			
17,500.00	7,875.00	17,589.50	7,875.00	258.21	258.56	89.95	1,168.92	-8,983.32	1,339.74	823.09	516.65	2.593			
17,600.00	7,875.00	17,689.50	7,875.00	260.89	261.23	89.95	1,168.35	-9,083.32	1,339.74	817.75	522.00	2.567			
17,700.00	7,875.00	17,789.50	7,875.00	263.56	263.90	89.95	1,167.77	-9,183.32	1,339.74	812.40	527.34	2.541			
17,800.00	7,875.00	17,889.50	7,875.00	266.23	266.57	89.95	1,167.20	-9,283.31	1,339.74	807.06	532.69	2.515			
17,900.00	7,875.00	17,989.50	7,875.00	268.91	269.25	89.95	1,166.62	-9,383.31	1,339.74	801.71	538.03	2.490			
18,000.00	7,875.00	18,089.50	7,875.00	271.58	271.92	89.95	1,166.04	-9,483.31	1,339.74	796.36	543.38	2.466			
18,100.00	7,875.00	18,189.50	7,875.00	274.25	274.59	89.95	1,165.47	-9,583.31	1,339.74	791.02	548.72	2.442			
18,133.91	7,875.00	18,223.41	7,875.00	275.16	275.49	89.95	1,165.27	-9,617.22	1,339.74	789.20	550.54	2.434			
18,142.12	7,875.00	18,221.72	7,875.00	275.38	275.45	89.95	1,165.28	-9,615.53	1,339.78	789.03	550.75	2.433 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1BH - 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	0.40	0.40	0.00	0.00	0.00	50.27	0.00	50.27						
100.00	100.00	100.40	100.40	0.13	0.14	0.00	50.27	0.00	50.27	50.00	0.27	185.983			
200.00	200.00	200.40	200.40	0.49	0.49	0.00	50.27	0.00	50.27	49.28	0.99	50.919			
250.00	250.00	250.40	250.40	0.67	0.67	0.00	50.27	0.00	50.27	48.92	1.35	37.355 CC			
300.00	300.00	299.97	299.97	0.85	0.85	-97.12	50.48	0.38	50.54	48.84	1.70	29.788 ES			
400.00	399.93	399.10	399.03	1.20	1.20	-97.54	52.14	3.40	52.64	50.25	2.40	21.944			
500.00	499.68	498.12	497.81	1.56	1.56	-98.27	55.46	9.40	56.86	53.74	3.12	18.215			
603.98	603.08	600.90	600.02	1.95	1.95	-99.23	60.64	18.79	63.49	59.59	3.90	16.276			
700.00	698.37	703.86	694.40	2.33	2.36	-99.34	66.82	29.99	71.18	66.50	4.68	15.216			
800.00	797.61	804.19	793.11	2.73	2.76	-99.17	73.47	42.05	79.37	73.90	5.47	14.498			
900.00	896.84	904.53	891.82	3.13	3.18	-99.04	80.13	54.12	87.56	81.28	6.28	13.943			
1,000.00	996.08	1,004.86	990.52	3.54	3.59	-98.93	86.78	66.18	95.75	88.66	7.09	13.505			
1,100.00	1,095.32	1,105.20	1,089.23	3.95	4.01	-98.84	93.44	78.24	103.94	96.03	7.90	13.150			
1,200.00	1,194.56	1,205.54	1,187.94	4.36	4.43	-98.76	100.09	90.30	112.13	103.41	8.72	12.857			
1,300.00	1,293.79	1,294.13	1,286.65	4.77	4.80	-98.69	106.74	102.36	120.32	110.83	9.49	12.676			
1,400.00	1,393.03	1,406.21	1,385.35	5.18	5.27	-98.63	113.40	114.42	128.51	118.15	10.36	12.403			
1,500.00	1,492.27	1,506.55	1,484.06	5.59	5.69	-98.58	120.05	126.48	136.70	125.52	11.18	12.224			
1,600.00	1,591.51	1,593.12	1,582.77	6.00	6.06	-98.53	126.71	138.54	144.89	132.94	11.95	12.126			
1,700.00	1,690.74	1,707.22	1,681.48	6.41	6.54	-98.49	133.36	150.60	153.08	140.25	12.83	11.932			
1,800.00	1,789.98	1,807.55	1,780.18	6.83	6.96	-98.45	140.02	162.66	161.27	147.62	13.65	11.812			
1,900.00	1,889.22	1,907.89	1,878.89	7.24	7.38	-98.42	146.67	174.72	169.46	154.98	14.48	11.705			
2,000.00	1,988.46	2,008.23	1,977.60	7.65	7.81	-98.39	153.32	186.79	177.65	162.35	15.30	11.609			
2,100.00	2,087.69	2,108.56	2,076.31	8.07	8.23	-98.36	159.98	198.85	185.84	169.72	16.13	11.522			
2,200.00	2,186.93	2,208.90	2,175.01	8.48	8.66	-98.33	166.63	210.91	194.04	177.08	16.95	11.444			
2,300.00	2,286.17	2,309.23	2,273.72	8.89	9.08	-98.31	173.29	222.97	202.23	184.45	17.78	11.373			
2,400.00	2,385.41	2,409.57	2,372.43	9.31	9.51	-98.29	179.94	235.03	210.42	191.81	18.61	11.308			
2,500.00	2,484.64	2,490.09	2,471.14	9.72	9.85	-98.27	186.60	247.09	218.61	199.26	19.35	11.296			
2,600.00	2,583.88	2,589.76	2,569.84	10.13	10.27	-98.25	193.25	259.15	226.80	206.62	20.18	11.241			
2,700.00	2,683.12	2,689.42	2,668.55	10.55	10.69	-98.23	199.91	271.21	234.99	213.99	21.00	11.190			
2,800.00	2,782.36	2,789.09	2,767.26	10.96	11.11	-98.22	206.56	283.27	243.18	221.36	21.82	11.143			
2,900.00	2,881.59	2,888.75	2,865.97	11.38	11.54	-98.20	213.21	295.33	251.37	228.72	22.65	11.099			
3,000.00	2,980.83	2,988.41	2,964.67	11.79	11.96	-98.19	219.87	307.39	259.56	236.09	23.47	11.058			
3,100.00	3,080.07	3,088.08	3,063.38	12.21	12.38	-98.17	226.52	319.46	267.76	243.46	24.30	11.020			
3,200.00	3,179.31	3,187.74	3,162.09	12.62	12.80	-98.16	233.18	331.52	275.95	250.82	25.12	10.984			
3,300.00	3,278.55	3,287.41	3,260.80	13.03	13.23	-98.15	239.83	343.58	284.14	258.19	25.95	10.951			
3,400.00	3,377.78	3,387.07	3,359.50	13.45	13.65	-98.14	246.49	355.64	292.33	265.56	26.77	10.919			
3,500.00	3,477.02	3,486.73	3,458.21	13.86	14.07	-98.13	253.14	367.70	300.52	272.92	27.60	10.889			
3,600.00	3,576.26	3,586.40	3,556.92	14.28	14.49	-98.12	259.80	379.76	308.71	280.29	28.42	10.862			
3,700.00	3,675.50	3,686.06	3,655.62	14.69	14.92	-98.11	266.45	391.82	316.90	287.66	29.25	10.835			
3,800.00	3,774.73	3,785.73	3,754.33	15.11	15.34	-98.10	273.10	403.88	325.09	295.02	30.07	10.810			
3,900.00	3,873.97	3,885.39	3,853.04	15.52	15.76	-98.09	279.76	415.94	333.29	302.39	30.90	10.787			
4,000.00	3,973.21	3,985.05	3,951.75	15.93	16.19	-98.08	286.41	428.00	341.48	309.75	31.72	10.764			
4,100.00	4,072.45	4,084.72	4,050.45	16.35	16.61	-98.07	293.07	440.06	349.67	317.12	32.55	10.743			
4,200.00	4,171.68	4,184.38	4,149.16	16.76	17.03	-98.07	299.72	452.12	357.86	324.49	33.37	10.723			
4,300.00	4,270.92	4,284.05	4,247.87	17.18	17.45	-98.06	306.38	464.19	366.05	331.85	34.20	10.704			
4,400.00	4,370.16	4,383.71	4,346.58	17.59	17.88	-98.05	313.03	476.25	374.24	339.22	35.02	10.685			
4,500.00	4,469.40	4,483.37	4,445.28	18.01	18.30	-98.05	319.69	488.31	382.43	346.58	35.85	10.668			
4,600.00	4,568.63	4,583.04	4,543.99	18.42	18.72	-98.04	326.34	500.37	390.62	353.95	36.68	10.651			
4,700.00	4,667.87	4,682.70	4,642.70	18.84	19.15	-98.03	332.99	512.43	398.82	361.31	37.50	10.635			
4,800.00	4,767.11	4,782.37	4,741.41	19.25	19.57	-98.03	339.65	524.49	407.01	368.68	38.33	10.620			
4,900.00	4,866.35	4,882.03	4,840.11	19.66	19.99	-98.02	346.30	536.55	415.20	376.05	39.15	10.605			
5,000.00	4,965.58	4,981.69	4,938.82	20.08	20.41	-98.02	352.96	548.61	423.39	383.41	39.98	10.591			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 1BH - 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	5,064.82	5,081.36	5,037.53	20.49	20.84	-98.01	359.61	560.67	431.58	390.78	40.80	10.577			
5,200.00	5,164.06	5,181.02	5,136.24	20.91	21.26	-98.01	366.27	572.73	439.77	398.14	41.63	10.564			
5,300.00	5,263.30	5,280.68	5,234.94	21.32	21.68	-98.00	372.92	584.79	447.96	405.51	42.45	10.552			
5,400.00	5,362.53	5,380.35	5,333.65	21.74	22.11	-98.00	379.57	596.86	456.15	412.87	43.28	10.540			
5,500.00	5,461.77	5,480.01	5,432.36	22.15	22.53	-97.99	386.23	608.92	464.35	420.24	44.11	10.528			
5,600.00	5,561.01	5,579.68	5,531.07	22.57	22.95	-97.99	392.88	620.98	472.54	427.61	44.93	10.517			
5,700.00	5,660.25	5,679.34	5,629.77	22.98	23.38	-97.99	399.54	633.04	480.73	434.97	45.76	10.506			
5,800.00	5,759.49	5,779.00	5,728.48	23.40	23.80	-97.98	406.19	645.10	488.92	442.34	46.58	10.496			
5,900.00	5,858.72	5,878.67	5,827.19	23.81	24.22	-97.98	412.85	657.16	497.11	449.70	47.41	10.486			
6,000.00	5,957.96	5,978.33	5,925.90	24.23	24.65	-97.97	419.50	669.22	505.30	457.07	48.23	10.476			
6,100.00	6,057.20	6,078.00	6,024.60	24.64	25.07	-97.97	426.16	681.28	513.49	464.43	49.06	10.467			
6,200.00	6,156.44	6,177.66	6,123.31	25.05	25.49	-97.97	432.81	693.34	521.69	471.80	49.89	10.457			
6,300.00	6,255.67	6,277.32	6,222.02	25.47	25.91	-97.96	439.46	705.40	529.88	479.16	50.71	10.449			
6,400.00	6,354.91	6,376.99	6,320.73	25.88	26.34	-97.96	446.12	717.46	538.07	486.53	51.54	10.440			
6,500.00	6,454.15	6,476.65	6,419.43	26.30	26.76	-97.96	452.77	729.53	546.26	493.90	52.36	10.432			
6,600.00	6,553.39	6,576.32	6,518.14	26.71	27.18	-97.95	459.43	741.59	554.45	501.26	53.19	10.424			
6,700.00	6,652.62	6,675.98	6,616.85	27.13	27.61	-97.95	466.08	753.65	562.64	508.63	54.02	10.416			
6,800.00	6,751.86	6,775.64	6,715.56	27.54	28.03	-97.95	472.74	765.71	570.83	515.99	54.84	10.409			
6,900.00	6,851.10	6,875.31	6,814.26	27.96	28.45	-97.95	479.39	777.77	579.02	523.36	55.67	10.401			
7,000.00	6,950.34	6,974.97	6,912.97	28.37	28.88	-97.94	486.05	789.83	587.22	530.72	56.49	10.394			
7,100.00	7,049.57	7,074.64	7,011.68	28.79	29.30	-97.94	492.70	801.89	595.41	538.09	57.32	10.387			
7,200.00	7,148.81	7,174.30	7,110.38	29.20	29.72	-97.94	499.35	813.95	603.60	545.45	58.15	10.381			
7,283.93	7,232.10	7,257.95	7,193.23	29.55	30.08	-97.94	504.94	824.07	610.47	551.63	58.84	10.375			
7,300.00	7,248.07	7,273.96	7,209.09	29.61	30.15	-100.22	506.01	826.01	611.79	552.82	58.97	10.375			
7,350.00	7,297.99	7,323.65	7,258.30	29.79	30.36	-156.41	509.33	832.03	615.85	556.51	59.34	10.378			
7,400.00	7,347.93	7,372.84	7,307.02	29.93	30.57	100.97	512.61	837.98	619.93	560.27	59.66	10.391			
7,450.00	7,397.53	7,422.09	7,355.98	30.03	30.75	95.65	515.90	841.99	624.11	564.19	59.92	10.415			
7,500.00	7,446.40	7,472.24	7,406.00	30.12	30.91	94.31	519.24	841.74	628.40	568.26	60.14	10.449			
7,550.00	7,494.17	7,523.34	7,456.75	30.19	31.05	93.91	522.59	836.97	632.76	572.44	60.32	10.491			
7,600.00	7,540.48	7,575.44	7,507.85	30.24	31.15	93.87	525.95	827.47	637.15	576.70	60.45	10.539			
7,650.00	7,584.98	7,628.60	7,558.88	30.28	31.23	94.00	529.27	813.02	641.52	580.97	60.56	10.593			
7,700.00	7,627.32	7,682.83	7,609.34	30.31	31.29	94.23	532.52	793.47	645.83	585.20	60.63	10.651			
7,750.00	7,667.19	7,738.17	7,658.69	30.33	31.33	94.50	535.67	768.68	650.03	589.34	60.69	10.711			
7,800.00	7,704.28	7,794.62	7,706.34	30.36	31.35	94.79	538.68	738.60	654.06	593.33	60.73	10.770			
7,850.00	7,738.31	7,852.17	7,751.63	30.40	31.36	95.08	541.50	703.25	657.86	597.09	60.77	10.826			
7,900.00	7,769.02	7,910.79	7,793.90	30.45	31.37	95.36	544.08	662.75	661.37	600.55	60.82	10.874			
7,950.00	7,796.17	7,970.42	7,832.43	30.52	31.38	95.62	546.39	617.34	664.56	603.64	60.91	10.910			
8,000.00	7,819.57	8,030.98	7,866.54	30.63	31.40	95.85	548.38	567.37	667.35	606.28	61.06	10.929			
8,050.00	7,839.03	8,092.36	7,895.54	30.76	31.45	96.04	550.01	513.33	669.70	608.41	61.29	10.926			
8,100.00	7,854.40	8,154.42	7,918.84	30.94	31.55	96.20	551.23	455.85	671.58	609.95	61.62	10.898			
8,150.00	7,865.57	8,217.02	7,935.91	31.15	31.72	96.30	552.02	395.67	672.94	610.87	62.07	10.842			
8,200.00	7,872.45	8,279.96	7,946.38	31.41	31.95	96.35	552.36	333.64	673.76	611.13	62.63	10.758			
8,254.13	7,875.00	8,348.26	7,949.99	31.72	32.28	96.35	552.21	265.47	674.02	610.67	63.36	10.639			
8,257.06	7,875.00	8,351.96	7,949.95	31.74	32.30	96.35	552.19	261.77	674.02	610.62	63.40	10.631			
8,300.00	7,875.00	8,406.65	7,950.00	32.03	32.65	96.35	551.95	220.38	674.02	609.95	64.08	10.519			
8,400.00	7,875.00	8,506.65	7,950.00	32.86	33.46	96.35	551.38	120.38	674.02	608.26	65.76	10.249			
8,500.00	7,875.00	8,606.65	7,950.00	33.88	34.49	96.35	550.80	20.39	674.02	606.19	67.83	9.937			
8,600.00	7,875.00	8,706.65	7,950.00	35.09	35.70	96.35	550.23	-79.61	674.02	603.78	70.24	9.596			
8,700.00	7,875.00	8,806.65	7,950.00	36.45	37.08	96.35	549.65	-179.61	674.02	601.05	72.97	9.237			
8,800.00	7,875.00	8,906.65	7,950.00	37.96	38.60	96.35	549.08	-279.61	674.02	598.04	75.98	8.871			
8,900.00	7,875.00	9,006.65	7,950.00	39.60	40.25	96.35	548.50	-379.61	674.02	594.79	79.23	8.507			
9,000.00	7,875.00	9,106.65	7,950.00	41.34	42.00	96.35	547.93	-479.61	674.02	591.32	82.71	8.150			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.00	7,875.00	9,206.65	7,950.00	43.19	43.85	96.35	547.36	-579.60	674.02	587.65	86.37	7.804		
9,200.00	7,875.00	9,306.65	7,950.00	45.12	45.78	96.35	546.78	-679.60	674.02	583.82	90.21	7.472		
9,300.00	7,875.00	9,406.65	7,950.00	47.12	47.79	96.35	546.21	-779.60	674.02	579.83	94.19	7.156		
9,400.00	7,875.00	9,506.65	7,950.00	49.19	49.86	96.35	545.63	-879.60	674.02	575.72	98.30	6.857		
9,500.00	7,875.00	9,606.65	7,950.00	51.32	51.98	96.35	545.06	-979.60	674.02	571.49	102.53	6.574		
9,600.00	7,875.00	9,706.65	7,950.00	53.50	54.16	96.35	544.48	-1,079.60	674.02	567.17	106.85	6.308		
9,700.00	7,875.00	9,806.65	7,950.00	55.72	56.38	96.35	543.91	-1,179.59	674.02	562.75	111.27	6.057		
9,800.00	7,875.00	9,906.65	7,950.00	57.98	58.64	96.35	543.33	-1,279.59	674.02	558.25	115.77	5.822		
9,900.00	7,875.00	10,006.65	7,950.00	60.28	60.93	96.35	542.76	-1,379.59	674.02	553.69	120.33	5.601		
10,000.00	7,875.00	10,106.65	7,950.00	62.61	63.26	96.35	542.18	-1,479.59	674.02	549.06	124.96	5.394		
10,100.00	7,875.00	10,206.65	7,950.00	64.97	65.61	96.35	541.61	-1,579.59	674.02	544.38	129.64	5.199		
10,200.00	7,875.00	10,306.65	7,950.00	67.35	67.99	96.35	541.03	-1,679.59	674.02	539.64	134.38	5.016		
10,300.00	7,875.00	10,406.65	7,950.00	69.75	70.39	96.35	540.46	-1,779.58	674.02	534.87	139.16	4.844		
10,400.00	7,875.00	10,506.65	7,950.00	72.18	72.81	96.35	539.88	-1,879.58	674.02	530.05	143.97	4.682		
10,500.00	7,875.00	10,606.65	7,950.00	74.62	75.25	96.35	539.31	-1,979.58	674.02	525.19	148.83	4.529		
10,600.00	7,875.00	10,706.65	7,950.00	77.08	77.71	96.35	538.73	-2,079.58	674.02	520.30	153.72	4.385		
10,700.00	7,875.00	10,806.65	7,950.00	79.56	80.18	96.35	538.16	-2,179.58	674.02	515.39	158.63	4.249		
10,800.00	7,875.00	10,906.65	7,950.00	82.05	82.66	96.35	537.58	-2,279.58	674.02	510.44	163.58	4.120		
10,900.00	7,875.00	11,006.65	7,950.00	84.55	85.16	96.35	537.01	-2,379.57	674.02	505.47	168.55	3.999		
11,000.00	7,875.00	11,106.65	7,950.00	87.06	87.67	96.35	536.43	-2,479.57	674.02	500.48	173.54	3.884		
11,100.00	7,875.00	11,206.65	7,950.00	89.58	90.19	96.35	535.86	-2,579.57	674.02	495.46	178.56	3.775		
11,200.00	7,875.00	11,306.65	7,950.00	92.11	92.72	96.35	535.28	-2,679.57	674.02	490.43	183.59	3.671		
11,300.00	7,875.00	11,406.65	7,950.00	94.66	95.25	96.35	534.71	-2,779.57	674.02	485.38	188.64	3.573		
11,400.00	7,875.00	11,506.65	7,950.00	97.20	97.80	96.35	534.13	-2,879.57	674.02	480.32	193.70	3.480		
11,500.00	7,875.00	11,606.65	7,950.00	99.76	100.35	96.35	533.56	-2,979.56	674.02	475.24	198.78	3.391		
11,600.00	7,875.00	11,706.65	7,950.00	102.32	102.91	96.35	532.98	-3,079.56	674.02	470.14	203.88	3.306		
11,700.00	7,875.00	11,806.65	7,950.00	104.89	105.48	96.35	532.41	-3,179.56	674.02	465.03	208.99	3.225		
11,800.00	7,875.00	11,906.65	7,950.00	107.47	108.05	96.35	531.83	-3,279.56	674.02	459.91	214.11	3.148		
11,900.00	7,875.00	12,006.65	7,950.00	110.05	110.63	96.35	531.26	-3,379.56	674.02	454.78	219.24	3.074		
12,000.00	7,875.00	12,106.65	7,950.00	112.64	113.21	96.35	530.68	-3,479.56	674.02	449.64	224.38	3.004		
12,100.00	7,875.00	12,206.65	7,950.00	115.23	115.80	96.35	530.11	-3,579.55	674.02	444.49	229.53	2.937		
12,200.00	7,875.00	12,306.65	7,950.00	117.82	118.40	96.35	529.53	-3,679.55	674.02	439.33	234.69	2.872		
12,300.00	7,875.00	12,406.65	7,950.00	120.42	120.99	96.35	528.96	-3,779.55	674.02	434.16	239.86	2.810		
12,400.00	7,875.00	12,506.65	7,950.00	123.03	123.59	96.35	528.38	-3,879.55	674.02	428.99	245.03	2.751		
12,500.00	7,875.00	12,606.65	7,950.00	125.64	126.20	96.35	527.81	-3,979.55	674.02	423.80	250.21	2.694		
12,600.00	7,875.00	12,706.65	7,950.00	128.25	128.81	96.35	527.23	-4,079.55	674.02	418.61	255.40	2.639		
12,700.00	7,875.00	12,806.65	7,950.00	130.86	131.42	96.35	526.66	-4,179.54	674.02	413.42	260.60	2.586		
12,800.00	7,875.00	12,906.65	7,950.00	133.48	134.04	96.35	526.08	-4,279.54	674.02	408.21	265.80	2.536		
12,900.00	7,875.00	13,006.65	7,950.00	136.10	136.65	96.35	525.51	-4,379.54	674.02	403.01	271.01	2.487		
13,000.00	7,875.00	13,106.65	7,950.00	138.72	139.27	96.35	524.93	-4,479.54	674.02	397.79	276.23	2.440		
13,100.00	7,875.00	13,206.65	7,950.00	141.35	141.90	96.35	524.36	-4,579.54	674.02	392.57	281.45	2.395		
13,200.00	7,875.00	13,306.65	7,950.00	143.98	144.52	96.35	523.78	-4,679.54	674.02	387.35	286.67	2.351		
13,300.00	7,875.00	13,406.65	7,950.00	146.61	147.15	96.35	523.21	-4,779.54	674.02	382.12	291.90	2.309		
13,400.00	7,875.00	13,506.65	7,950.00	149.24	149.78	96.35	522.63	-4,879.53	674.02	376.89	297.13	2.268		
13,500.00	7,875.00	13,606.65	7,950.00	151.87	152.42	96.35	522.06	-4,979.53	674.02	371.65	302.37	2.229		
13,600.00	7,875.00	13,706.65	7,950.00	154.51	155.05	96.35	521.48	-5,079.53	674.02	366.41	307.61	2.191		
13,700.00	7,875.00	13,806.65	7,950.00	157.15	157.69	96.35	520.91	-5,179.53	674.02	361.16	312.85	2.154		
13,800.00	7,875.00	13,906.65	7,950.00	159.79	160.32	96.35	520.33	-5,279.53	674.02	355.91	318.10	2.119		
13,900.00	7,875.00	14,006.65	7,950.00	162.43	162.97	96.35	519.76	-5,379.53	674.02	350.66	323.35	2.084		
14,000.00	7,875.00	14,106.65	7,950.00	165.07	165.61	96.35	519.18	-5,479.52	674.02	345.41	328.61	2.051		
14,100.00	7,875.00	14,206.65	7,950.00	167.72	168.25	96.35	518.61	-5,579.52	674.02	340.15	333.87	2.019		
14,200.00	7,875.00	14,306.65	7,950.00	170.36	170.89	96.35	518.03	-5,679.52	674.02	334.89	339.13	1.988		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,875.00	14,406.65	7,950.00	173.01	173.54	96.35	517.46	-5,779.52	674.02	329.63	344.39	1.957		
14,400.00	7,875.00	14,506.65	7,950.00	175.66	176.19	96.35	516.88	-5,879.52	674.02	324.36	349.66	1.928		
14,500.00	7,875.00	14,606.65	7,950.00	178.31	178.84	96.35	516.31	-5,979.52	674.02	319.09	354.93	1.899		
14,600.00	7,875.00	14,706.65	7,950.00	180.96	181.49	96.35	515.73	-6,079.51	674.02	313.82	360.20	1.871		
14,700.00	7,875.00	14,806.65	7,950.00	183.61	184.14	96.35	515.16	-6,179.51	674.02	308.55	365.47	1.844		
14,800.00	7,875.00	14,906.65	7,950.00	186.27	186.79	96.35	514.58	-6,279.51	674.02	303.27	370.75	1.818		
14,900.00	7,875.00	15,006.65	7,950.00	188.92	189.45	96.35	514.01	-6,379.51	674.02	297.99	376.02	1.792		
15,000.00	7,875.00	15,106.65	7,950.00	191.58	192.10	96.35	513.43	-6,479.51	674.02	292.71	381.30	1.768		
15,100.00	7,875.00	15,206.65	7,950.00	194.24	194.76	96.35	512.86	-6,579.51	674.02	287.43	386.59	1.744		
15,200.00	7,875.00	15,306.65	7,950.00	196.89	197.41	96.35	512.28	-6,679.50	674.02	282.15	391.87	1.720		
15,300.00	7,875.00	15,406.65	7,950.00	199.55	200.07	96.35	511.71	-6,779.50	674.01	276.86	397.16	1.697		
15,400.00	7,875.00	15,506.65	7,950.00	202.21	202.73	96.35	511.13	-6,879.50	674.01	271.57	402.44	1.675		
15,500.00	7,875.00	15,606.65	7,950.00	204.87	205.39	96.35	510.56	-6,979.50	674.01	266.28	407.73	1.653		
15,600.00	7,875.00	15,693.35	7,950.00	207.53	207.69	96.35	509.98	-7,079.50	674.01	261.34	412.67	1.633		
15,700.00	7,875.00	15,806.65	7,950.00	210.20	210.71	96.35	509.41	-7,179.50	674.01	255.70	418.31	1.611		
15,800.00	7,875.00	15,906.65	7,950.00	212.86	213.37	96.35	508.83	-7,279.49	674.01	250.41	423.61	1.591		
15,900.00	7,875.00	16,006.65	7,950.00	215.52	216.03	96.35	508.26	-7,379.49	674.01	245.11	428.90	1.571		
16,000.00	7,875.00	16,106.65	7,950.00	218.19	218.69	96.35	507.68	-7,479.49	674.01	239.81	434.20	1.552		
16,100.00	7,875.00	16,206.65	7,950.00	220.85	221.36	96.35	507.11	-7,579.49	674.01	234.52	439.50	1.534		
16,200.00	7,875.00	16,306.65	7,950.00	223.52	224.02	96.35	506.53	-7,679.49	674.01	229.22	444.80	1.515		
16,300.00	7,875.00	16,406.65	7,950.00	226.18	226.69	96.35	505.96	-7,779.49	674.01	223.92	450.10	1.497	Level 3	
16,400.00	7,875.00	16,506.65	7,950.00	228.85	229.35	96.35	505.38	-7,879.48	674.01	218.62	455.40	1.480	Level 3	
16,500.00	7,875.00	16,606.65	7,950.00	231.52	232.02	96.35	504.81	-7,979.48	674.01	213.31	460.70	1.463	Level 3	
16,600.00	7,875.00	16,706.65	7,950.00	234.18	234.69	96.35	504.23	-8,079.48	674.01	208.01	466.00	1.446	Level 3	
16,700.00	7,875.00	16,806.65	7,950.00	236.85	237.35	96.35	503.66	-8,179.48	674.01	202.70	471.31	1.430	Level 3	
16,800.00	7,875.00	16,906.65	7,950.00	239.52	240.02	96.35	503.08	-8,279.48	674.01	197.40	476.61	1.414	Level 3	
16,900.00	7,875.00	17,006.65	7,950.00	242.19	242.69	96.35	502.51	-8,379.48	674.01	192.09	481.92	1.399	Level 3	
17,000.00	7,875.00	17,093.35	7,950.00	244.86	245.00	96.35	501.93	-8,479.47	674.01	187.14	486.88	1.384	Level 3	
17,100.00	7,875.00	17,206.65	7,950.00	247.53	248.03	96.35	501.36	-8,579.47	674.01	181.48	492.54	1.368	Level 3	
17,200.00	7,875.00	17,306.65	7,950.00	250.20	250.70	96.35	500.78	-8,679.47	674.01	176.17	497.85	1.354	Level 3	
17,300.00	7,875.00	17,406.65	7,950.00	252.87	253.37	96.35	500.21	-8,779.47	674.01	170.85	503.16	1.340	Level 3	
17,400.00	7,875.00	17,506.65	7,950.00	255.54	256.04	96.35	499.63	-8,879.47	674.01	165.54	508.47	1.326	Level 3	
17,500.00	7,875.00	17,606.65	7,950.00	258.21	258.71	96.35	499.06	-8,979.47	674.01	160.23	513.78	1.312	Level 3	
17,600.00	7,875.00	17,706.65	7,950.00	260.89	261.38	96.35	498.48	-9,079.46	674.01	154.92	519.09	1.298	Level 3	
17,700.00	7,875.00	17,806.65	7,950.00	263.56	264.05	96.35	497.91	-9,179.46	674.01	149.60	524.41	1.285	Level 3	
17,800.00	7,875.00	17,906.65	7,950.00	266.23	266.73	96.35	497.33	-9,279.46	674.01	144.29	529.72	1.272	Level 3	
17,900.00	7,875.00	18,006.65	7,950.00	268.91	269.40	96.35	496.76	-9,379.46	674.01	138.97	535.04	1.260	Level 3	
18,000.00	7,875.00	18,106.65	7,950.00	271.58	272.07	96.35	496.18	-9,479.46	674.01	133.66	540.35	1.247	Level 2	
18,100.00	7,875.00	18,193.35	7,950.00	274.25	274.39	96.35	495.61	-9,579.46	674.01	128.69	545.32	1.236	Level 2	
18,139.02	7,875.00	18,232.37	7,950.00	275.30	275.43	96.35	495.39	-9,618.48	674.01	126.62	547.39	1.231	Level 2	
18,142.12	7,875.00	18,230.53	7,950.00	275.38	275.38	96.35	495.40	-9,616.63	674.03	126.60	547.43	1.231	Level 2, SF	

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 2BH - 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	4.40	-4.40	0.00	0.01	179.68	-49.90	0.28	49.91						
100.00	100.00	104.40	95.60	0.13	0.15	179.68	-49.90	0.28	49.91	49.62	0.28	175.337			
200.00	200.00	204.40	195.60	0.49	0.51	179.68	-49.90	0.28	49.91	48.90	1.00	49.827			
250.00	250.00	245.60	245.60	0.67	0.66	179.68	-49.90	0.28	49.91	48.58	1.33	37.565 CC			
300.00	300.00	295.11	295.10	0.85	0.83	82.77	-50.13	0.56	50.08	48.40	1.68	29.894 ES			
400.00	399.93	394.00	393.94	1.20	1.17	83.72	-52.16	3.11	51.71	49.35	2.36	21.867			
500.00	499.68	492.82	492.53	1.56	1.52	85.30	-56.33	8.31	55.11	52.03	3.08	17.903			
603.98	603.08	595.45	594.61	1.95	1.91	87.35	-62.90	16.53	60.57	56.72	3.85	15.730			
700.00	698.37	690.05	688.33	2.33	2.29	88.15	-70.98	26.62	67.41	62.82	4.59	14.681			
800.00	797.61	789.64	786.70	2.73	2.70	87.63	-80.63	38.69	75.56	70.18	5.39	14.031			
900.00	896.84	889.30	885.16	3.13	3.13	87.22	-90.29	50.77	83.73	77.54	6.19	13.526			
1,000.00	996.08	988.96	983.61	3.54	3.56	86.87	-99.96	62.85	91.90	84.90	7.00	13.126			
1,100.00	1,095.32	1,088.63	1,082.07	3.95	3.99	86.58	-109.62	74.94	100.07	92.25	7.82	12.802			
1,200.00	1,194.56	1,188.29	1,180.53	4.36	4.43	86.34	-119.29	87.02	108.24	99.61	8.64	12.535			
1,300.00	1,293.79	1,287.96	1,278.98	4.77	4.86	86.13	-128.95	99.10	116.42	106.96	9.46	12.312			
1,400.00	1,393.03	1,387.62	1,377.44	5.18	5.30	85.94	-138.62	111.18	124.60	114.32	10.28	12.122			
1,500.00	1,492.27	1,487.29	1,475.89	5.59	5.74	85.78	-148.28	123.27	132.77	121.67	11.10	11.959			
1,600.00	1,591.51	1,586.95	1,574.35	6.00	6.18	85.64	-157.95	135.35	140.95	129.03	11.93	11.818			
1,700.00	1,690.74	1,686.62	1,672.81	6.41	6.63	85.52	-167.61	147.43	149.13	136.38	12.75	11.695			
1,800.00	1,789.98	1,786.28	1,771.26	6.83	7.07	85.40	-177.28	159.51	157.31	143.74	13.58	11.586			
1,900.00	1,889.22	1,885.94	1,869.72	7.24	7.51	85.30	-186.94	171.60	165.49	151.09	14.40	11.489			
2,000.00	1,988.46	1,985.61	1,968.17	7.65	7.95	85.21	-196.61	183.68	173.68	158.44	15.23	11.402			
2,100.00	2,087.69	2,085.27	2,066.63	8.07	8.40	85.12	-206.27	195.76	181.86	165.80	16.06	11.324			
2,200.00	2,186.93	2,184.94	2,165.09	8.48	8.84	85.05	-215.94	207.84	190.04	173.15	16.89	11.254			
2,300.00	2,286.17	2,284.60	2,263.54	8.89	9.29	84.98	-225.60	219.93	198.22	180.51	17.71	11.190			
2,400.00	2,385.41	2,384.27	2,362.00	9.31	9.73	84.91	-235.27	232.01	206.40	187.86	18.54	11.132			
2,500.00	2,484.64	2,483.93	2,460.45	9.72	10.18	84.85	-244.93	244.09	214.59	195.22	19.37	11.078			
2,600.00	2,583.88	2,583.60	2,558.91	10.13	10.62	84.80	-254.60	256.17	222.77	202.57	20.20	11.029			
2,700.00	2,683.12	2,683.26	2,657.37	10.55	11.06	84.75	-264.26	268.26	230.95	209.93	21.03	10.983			
2,800.00	2,782.36	2,782.92	2,755.82	10.96	11.51	84.70	-273.93	280.34	239.14	217.28	21.86	10.941			
2,900.00	2,881.59	2,882.59	2,854.28	11.38	11.95	84.65	-283.59	292.42	247.32	224.64	22.69	10.902			
3,000.00	2,980.83	2,982.25	2,952.73	11.79	12.40	84.61	-293.26	304.50	255.50	231.99	23.51	10.866			
3,100.00	3,080.07	3,081.92	3,051.19	12.21	12.85	84.57	-302.92	316.59	263.69	239.34	24.34	10.832			
3,200.00	3,179.31	3,181.58	3,149.65	12.62	13.29	84.53	-312.59	328.67	271.87	246.70	25.17	10.800			
3,300.00	3,278.55	3,281.25	3,248.10	13.03	13.74	84.50	-322.25	340.75	280.06	254.05	26.00	10.771			
3,400.00	3,377.78	3,380.91	3,346.56	13.45	14.18	84.47	-331.92	352.83	288.24	261.41	26.83	10.743			
3,500.00	3,477.02	3,480.57	3,445.01	13.86	14.63	84.44	-341.58	364.92	296.42	268.76	27.66	10.717			
3,600.00	3,576.26	3,580.24	3,543.47	14.28	15.07	84.41	-351.25	377.00	304.61	276.12	28.49	10.692			
3,700.00	3,675.50	3,679.90	3,641.93	14.69	15.52	84.38	-360.92	389.08	312.79	283.47	29.32	10.669			
3,800.00	3,774.73	3,779.57	3,740.38	15.11	15.96	84.35	-370.58	401.16	320.98	290.83	30.15	10.647			
3,900.00	3,873.97	3,879.23	3,838.84	15.52	16.41	84.33	-380.25	413.25	329.16	298.18	30.98	10.626			
4,000.00	3,973.21	3,978.90	3,937.29	15.93	16.85	84.30	-389.91	425.33	337.35	305.54	31.81	10.606			
4,100.00	4,072.45	4,078.56	4,035.75	16.35	17.30	84.28	-399.58	437.41	345.53	312.89	32.64	10.587			
4,200.00	4,171.68	4,178.23	4,134.21	16.76	17.75	84.26	-409.24	449.49	353.72	320.25	33.47	10.569			
4,300.00	4,270.92	4,277.89	4,232.66	17.18	18.19	84.24	-418.91	461.58	361.90	327.60	34.30	10.552			
4,400.00	4,370.16	4,377.55	4,331.12	17.59	18.64	84.22	-428.57	473.66	370.09	334.96	35.13	10.536			
4,500.00	4,469.40	4,477.22	4,429.57	18.01	19.08	84.20	-438.24	485.74	378.27	342.31	35.96	10.520			
4,600.00	4,568.63	4,576.88	4,528.03	18.42	19.53	84.18	-447.90	497.83	386.46	349.67	36.79	10.506			
4,700.00	4,667.87	4,676.55	4,626.49	18.84	19.97	84.16	-457.57	509.91	394.64	357.02	37.62	10.491			
4,800.00	4,767.11	4,776.21	4,724.94	19.25	20.42	84.15	-467.23	521.99	402.83	364.38	38.45	10.478			
4,900.00	4,866.35	4,875.88	4,823.40	19.66	20.87	84.13	-476.90	534.07	411.01	371.73	39.28	10.465			
5,000.00	4,965.58	4,975.54	4,921.85	20.08	21.31	84.11	-486.56	546.16	419.20	379.09	40.11	10.452			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 2BH - 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	5,064.82	5,075.21	5,020.31	20.49	21.76	84.10	-496.23	558.24	427.38	386.45	40.94	10.440			
5,200.00	5,164.06	5,174.87	5,118.77	20.91	22.20	84.09	-505.89	570.32	435.57	393.80	41.77	10.429			
5,300.00	5,263.30	5,274.53	5,217.22	21.32	22.65	84.07	-515.56	582.40	443.75	401.16	42.60	10.418			
5,400.00	5,362.53	5,374.20	5,315.68	21.74	23.10	84.06	-525.22	594.49	451.94	408.51	43.43	10.407			
5,500.00	5,461.77	5,473.86	5,414.13	22.15	23.54	84.05	-534.89	606.57	460.12	415.87	44.26	10.397			
5,600.00	5,561.01	5,573.53	5,512.59	22.57	23.99	84.03	-544.55	618.65	468.31	423.22	45.09	10.387			
5,700.00	5,660.25	5,673.19	5,611.05	22.98	24.43	84.02	-554.22	630.73	476.49	430.58	45.92	10.378			
5,800.00	5,759.49	5,772.86	5,709.50	23.40	24.88	84.01	-563.88	642.82	484.68	437.93	46.75	10.368			
5,900.00	5,858.72	5,872.52	5,807.96	23.81	25.33	84.00	-573.55	654.90	492.86	445.29	47.58	10.360			
6,000.00	5,957.96	5,972.18	5,906.42	24.23	25.77	83.99	-583.21	666.98	501.05	452.64	48.41	10.351			
6,100.00	6,057.20	6,071.85	6,004.87	24.64	26.22	83.98	-592.88	679.06	509.23	460.00	49.24	10.343			
6,200.00	6,156.44	6,171.51	6,103.33	25.05	26.66	83.97	-602.54	691.15	517.42	467.35	50.07	10.335			
6,300.00	6,255.67	6,271.18	6,201.78	25.47	27.11	83.96	-612.21	703.23	525.60	474.71	50.90	10.327			
6,400.00	6,354.91	6,370.84	6,300.24	25.88	27.56	83.95	-621.87	715.31	533.79	482.06	51.73	10.320			
6,500.00	6,454.15	6,470.51	6,398.70	26.30	28.00	83.94	-631.54	727.39	541.97	489.42	52.56	10.312			
6,600.00	6,553.39	6,570.17	6,497.15	26.71	28.45	83.93	-641.20	739.48	550.16	496.77	53.39	10.305			
6,700.00	6,652.62	6,669.84	6,595.61	27.13	28.89	83.92	-650.87	751.56	558.34	504.13	54.22	10.298			
6,800.00	6,751.86	6,769.50	6,694.06	27.54	29.34	83.91	-660.53	763.64	566.53	511.48	55.05	10.292			
6,900.00	6,851.10	6,869.16	6,792.52	27.96	29.79	83.91	-670.20	775.72	574.72	518.84	55.88	10.285			
7,000.00	6,950.34	6,968.83	6,890.98	28.37	30.23	83.90	-679.86	787.81	582.90	526.19	56.71	10.279			
7,100.00	7,049.57	7,068.49	6,989.43	28.79	30.68	83.89	-689.53	799.89	591.09	533.55	57.54	10.273			
7,200.00	7,148.81	7,168.16	7,087.89	29.20	31.13	83.88	-699.19	811.97	599.27	540.90	58.37	10.267			
7,283.93	7,232.10	7,251.80	7,170.52	29.55	31.50	83.88	-707.30	822.11	606.14	547.08	59.06	10.262			
7,300.00	7,248.07	7,267.82	7,186.34	29.61	31.57	81.82	-708.86	824.05	607.45	548.26	59.19	10.262			
7,350.00	7,297.99	7,317.51	7,235.43	29.79	31.79	25.75	-713.68	830.08	611.46	551.92	59.54	10.269			
7,400.00	7,347.93	7,366.71	7,284.03	29.93	32.01	-77.51	-718.45	836.04	615.42	555.61	59.81	10.289			
7,450.00	7,397.53	7,415.15	7,331.93	30.03	32.22	-83.99	-723.15	841.53	619.45	559.45	60.00	10.323			
7,500.00	7,446.40	7,464.19	7,380.68	30.12	32.41	-86.55	-727.96	843.58	623.67	563.52	60.15	10.369			
7,550.00	7,494.17	7,514.34	7,430.51	30.19	32.56	-88.16	-732.90	841.34	628.04	567.79	60.25	10.424			
7,600.00	7,540.48	7,565.68	7,481.13	30.24	32.68	-89.39	-737.94	834.52	632.53	572.21	60.32	10.486			
7,650.00	7,584.98	7,618.28	7,532.15	30.28	32.78	-90.43	-743.05	822.84	637.10	576.73	60.36	10.554			
7,700.00	7,627.32	7,672.22	7,583.12	30.31	32.86	-91.35	-748.19	806.04	641.68	581.30	60.39	10.626			
7,750.00	7,667.19	7,727.57	7,633.55	30.33	32.91	-92.19	-753.30	783.87	646.23	585.84	60.40	10.700			
7,800.00	7,704.28	7,784.35	7,682.83	30.36	32.94	-92.96	-758.34	756.15	650.68	590.28	60.40	10.773			
7,850.00	7,738.31	7,842.61	7,730.29	30.40	32.95	-93.67	-763.22	722.76	654.96	594.55	60.41	10.842			
7,900.00	7,769.02	7,902.34	7,775.19	30.45	32.95	-94.31	-767.89	683.69	658.99	598.56	60.44	10.904			
7,950.00	7,796.17	7,963.52	7,816.72	30.52	32.93	-94.89	-772.25	639.03	662.71	602.20	60.51	10.952			
8,000.00	7,819.57	8,026.06	7,854.03	30.63	32.91	-95.41	-776.22	589.03	666.03	605.39	60.65	10.982			
8,050.00	7,839.03	8,089.85	7,886.27	30.76	32.88	-95.85	-779.73	534.13	668.89	608.02	60.88	10.988			
8,100.00	7,854.40	8,154.74	7,912.63	30.94	32.87	-96.21	-782.67	474.95	671.23	610.01	61.22	10.964			
8,150.00	7,865.57	8,220.53	7,932.38	31.15	32.88	-96.48	-784.99	412.27	672.97	611.27	61.70	10.907			
8,200.00	7,872.45	8,286.97	7,944.94	31.41	32.93	-96.67	-786.60	347.09	674.10	611.78	62.32	10.817			
8,254.13	7,875.00	8,359.32	7,949.99	31.72	33.05	-96.76	-787.52	274.97	674.57	611.43	63.14	10.684			
8,300.00	7,875.00	8,406.21	7,950.00	32.03	33.18	-96.76	-787.79	228.08	674.57	610.80	63.77	10.579			
8,400.00	7,875.00	8,506.21	7,950.00	32.86	33.68	-96.76	-788.36	128.09	674.57	609.16	65.41	10.313			
8,500.00	7,875.00	8,606.21	7,950.00	33.88	34.49	-96.76	-788.94	28.09	674.57	607.14	67.43	10.003			
8,600.00	7,875.00	8,706.21	7,950.00	35.09	35.56	-96.76	-789.51	-71.91	674.57	604.76	69.81	9.663			
8,700.00	7,875.00	8,806.21	7,950.00	36.45	36.86	-96.76	-790.09	-171.91	674.57	602.06	72.51	9.303			
8,800.00	7,875.00	8,906.21	7,950.00	37.96	38.32	-96.76	-790.66	-271.91	674.57	599.09	75.48	8.937			
8,900.00	7,875.00	9,006.21	7,950.00	39.60	39.94	-96.76	-791.24	-371.91	674.57	595.85	78.72	8.569			
9,000.00	7,875.00	9,106.21	7,950.00	41.34	41.67	-96.76	-791.81	-471.90	674.57	592.40	82.17	8.209			
9,100.00	7,875.00	9,206.21	7,950.00	43.19	43.50	-96.76	-792.38	-571.90	674.57	588.75	85.82	7.860			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 2BH - 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			
9,200.00	7,875.00	9,306.21	7,950.00	45.12	45.42	-96.76	-792.96	-671.90	674.57	584.93	89.64	7.526			
9,300.00	7,875.00	9,406.21	7,950.00	47.12	47.42	-96.76	-793.53	-771.90	674.57	580.96	93.60	7.207			
9,400.00	7,875.00	9,506.21	7,950.00	49.19	49.48	-96.76	-794.11	-871.90	674.57	576.86	97.70	6.904			
9,500.00	7,875.00	9,606.21	7,950.00	51.32	51.60	-96.76	-794.68	-971.90	674.57	572.65	101.92	6.619			
9,600.00	7,875.00	9,706.21	7,950.00	53.50	53.77	-96.76	-795.26	-1,071.89	674.57	568.33	106.24	6.350			
9,700.00	7,875.00	9,806.21	7,950.00	55.72	55.99	-96.76	-795.83	-1,171.89	674.57	563.92	110.65	6.097			
9,800.00	7,875.00	9,906.21	7,950.00	57.98	58.24	-96.76	-796.41	-1,271.89	674.57	559.43	115.14	5.859			
9,900.00	7,875.00	10,006.21	7,950.00	60.28	60.53	-96.76	-796.98	-1,371.89	674.57	554.87	119.69	5.636			
10,000.00	7,875.00	10,106.21	7,950.00	62.61	62.85	-96.76	-797.56	-1,471.89	674.57	550.25	124.32	5.426			
10,100.00	7,875.00	10,206.21	7,950.00	64.97	65.20	-96.76	-798.13	-1,571.89	674.57	545.57	128.99	5.229			
10,200.00	7,875.00	10,306.21	7,950.00	67.35	67.58	-96.76	-798.71	-1,671.89	674.57	540.84	133.72	5.044			
10,300.00	7,875.00	10,406.21	7,950.00	69.75	69.97	-96.76	-799.28	-1,771.88	674.57	536.07	138.50	4.871			
10,400.00	7,875.00	10,506.21	7,950.00	72.18	72.39	-96.76	-799.86	-1,871.88	674.57	531.26	143.31	4.707			
10,500.00	7,875.00	10,606.21	7,950.00	74.62	74.83	-96.76	-800.43	-1,971.88	674.57	526.40	148.16	4.553			
10,600.00	7,875.00	10,706.21	7,950.00	77.08	77.28	-96.76	-801.00	-2,071.88	674.57	521.52	153.05	4.408			
10,700.00	7,875.00	10,806.21	7,950.00	79.56	79.75	-96.76	-801.58	-2,171.88	674.57	516.61	157.96	4.270			
10,800.00	7,875.00	10,906.21	7,950.00	82.05	82.23	-96.76	-802.15	-2,271.88	674.57	511.66	162.90	4.141			
10,900.00	7,875.00	11,006.21	7,950.00	84.55	84.73	-96.76	-802.73	-2,371.87	674.57	506.70	167.87	4.018			
11,000.00	7,875.00	11,106.21	7,950.00	87.06	87.23	-96.76	-803.30	-2,471.87	674.57	501.71	172.86	3.902			
11,100.00	7,875.00	11,206.21	7,950.00	89.58	89.75	-96.76	-803.88	-2,571.87	674.57	496.70	177.87	3.792			
11,200.00	7,875.00	11,306.21	7,950.00	92.11	92.28	-96.76	-804.45	-2,671.87	674.57	491.66	182.90	3.688			
11,300.00	7,875.00	11,406.21	7,950.00	94.66	94.81	-96.76	-805.03	-2,771.87	674.57	486.62	187.95	3.589			
11,400.00	7,875.00	11,506.21	7,950.00	97.20	97.36	-96.76	-805.60	-2,871.87	674.57	481.55	193.01	3.495			
11,500.00	7,875.00	11,606.21	7,950.00	99.76	99.91	-96.76	-806.18	-2,971.86	674.57	476.47	198.09	3.405			
11,600.00	7,875.00	11,706.21	7,950.00	102.32	102.47	-96.76	-806.75	-3,071.86	674.57	471.38	203.19	3.320			
11,700.00	7,875.00	11,806.21	7,950.00	104.89	105.03	-96.76	-807.33	-3,171.86	674.57	466.28	208.29	3.239			
11,800.00	7,875.00	11,906.21	7,950.00	107.47	107.60	-96.76	-807.90	-3,271.86	674.57	461.16	213.41	3.161			
11,900.00	7,875.00	12,006.21	7,950.00	110.05	110.18	-96.76	-808.48	-3,371.86	674.57	456.03	218.54	3.087			
12,000.00	7,875.00	12,106.21	7,950.00	112.64	112.76	-96.76	-809.05	-3,471.86	674.57	450.89	223.68	3.016			
12,100.00	7,875.00	12,206.21	7,950.00	115.23	115.35	-96.76	-809.63	-3,571.85	674.57	445.74	228.83	2.948			
12,200.00	7,875.00	12,306.21	7,950.00	117.82	117.94	-96.76	-810.20	-3,671.85	674.57	440.58	233.98	2.883			
12,300.00	7,875.00	12,406.21	7,950.00	120.42	120.54	-96.76	-810.77	-3,771.85	674.57	435.42	239.15	2.821			
12,400.00	7,875.00	12,506.21	7,950.00	123.03	123.14	-96.76	-811.35	-3,871.85	674.57	430.24	244.32	2.761			
12,500.00	7,875.00	12,606.21	7,950.00	125.64	125.74	-96.76	-811.92	-3,971.85	674.57	425.06	249.51	2.704			
12,600.00	7,875.00	12,706.21	7,950.00	128.25	128.35	-96.76	-812.50	-4,071.85	674.57	419.87	254.69	2.649			
12,700.00	7,875.00	12,806.21	7,950.00	130.86	130.96	-96.76	-813.07	-4,171.84	674.56	414.68	259.89	2.596			
12,800.00	7,875.00	12,906.21	7,950.00	133.48	133.57	-96.76	-813.65	-4,271.84	674.56	409.48	265.09	2.545			
12,900.00	7,875.00	13,006.21	7,950.00	136.10	136.19	-96.76	-814.22	-4,371.84	674.56	404.27	270.30	2.496			
13,000.00	7,875.00	13,106.21	7,950.00	138.72	138.81	-96.76	-814.80	-4,471.84	674.56	399.06	275.51	2.448			
13,100.00	7,875.00	13,206.21	7,950.00	141.35	141.43	-96.76	-815.37	-4,571.84	674.56	393.84	280.73	2.403			
13,200.00	7,875.00	13,306.21	7,950.00	143.98	144.06	-96.76	-815.95	-4,671.84	674.56	388.62	285.95	2.359			
13,300.00	7,875.00	13,406.21	7,950.00	146.61	146.69	-96.76	-816.52	-4,771.83	674.56	383.39	291.18	2.317			
13,400.00	7,875.00	13,506.21	7,950.00	149.24	149.32	-96.76	-817.10	-4,871.83	674.56	378.16	296.41	2.276			
13,500.00	7,875.00	13,606.21	7,950.00	151.87	151.95	-96.76	-817.67	-4,971.83	674.56	372.92	301.64	2.236			
13,600.00	7,875.00	13,706.21	7,950.00	154.51	154.58	-96.76	-818.25	-5,071.83	674.56	367.68	306.88	2.198			
13,700.00	7,875.00	13,806.21	7,950.00	157.15	157.22	-96.76	-818.82	-5,171.83	674.56	362.44	312.13	2.161			
13,800.00	7,875.00	13,906.21	7,950.00	159.79	159.85	-96.76	-819.40	-5,271.83	674.56	357.19	317.37	2.125			
13,900.00	7,875.00	14,006.21	7,950.00	162.43	162.49	-96.76	-819.97	-5,371.82	674.56	351.94	322.62	2.091			
14,000.00	7,875.00	14,106.21	7,950.00	165.07	165.14	-96.76	-820.54	-5,471.82	674.56	346.69	327.88	2.057			
14,100.00	7,875.00	14,206.21	7,950.00	167.72	167.78	-96.76	-821.12	-5,571.82	674.56	341.43	333.13	2.025			
14,200.00	7,875.00	14,306.21	7,950.00	170.36	170.42	-96.76	-821.69	-5,671.82	674.56	336.17	338.39	1.993			
14,300.00	7,875.00	14,406.21	7,950.00	173.01	173.07	-96.76	-822.27	-5,771.82	674.56	330.91	343.65	1.963			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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		
14,400.00	7,875.00	14,506.21	7,950.00	175.66	175.71	-96.76	-822.84	-5,871.82	674.56	325.64	348.92	1.933		
14,500.00	7,875.00	14,606.21	7,950.00	178.31	178.36	-96.76	-823.42	-5,971.81	674.56	320.38	354.19	1.905		
14,600.00	7,875.00	14,706.21	7,950.00	180.96	181.01	-96.76	-823.99	-6,071.81	674.56	315.11	359.46	1.877		
14,700.00	7,875.00	14,806.21	7,950.00	183.61	183.66	-96.76	-824.57	-6,171.81	674.56	309.83	364.73	1.849		
14,800.00	7,875.00	14,906.21	7,950.00	186.27	186.31	-96.76	-825.14	-6,271.81	674.56	304.56	370.00	1.823		
14,900.00	7,875.00	15,006.21	7,950.00	188.92	188.97	-96.76	-825.72	-6,371.81	674.56	299.28	375.28	1.797		
15,000.00	7,875.00	15,106.21	7,950.00	191.58	191.62	-96.76	-826.29	-6,471.81	674.56	294.00	380.56	1.773		
15,100.00	7,875.00	15,206.21	7,950.00	194.24	194.28	-96.76	-826.87	-6,571.80	674.56	288.72	385.84	1.748		
15,200.00	7,875.00	15,306.21	7,950.00	196.89	196.93	-96.76	-827.44	-6,671.80	674.56	283.44	391.12	1.725		
15,300.00	7,875.00	15,406.21	7,950.00	199.55	199.59	-96.76	-828.02	-6,771.80	674.56	278.16	396.41	1.702		
15,400.00	7,875.00	15,506.21	7,950.00	202.21	202.25	-96.76	-828.59	-6,871.80	674.56	272.87	401.69	1.679		
15,500.00	7,875.00	15,606.21	7,950.00	204.87	204.91	-96.76	-829.17	-6,971.80	674.56	267.58	406.98	1.657		
15,600.00	7,875.00	15,706.21	7,950.00	207.53	207.57	-96.76	-829.74	-7,071.80	674.56	262.29	412.27	1.636		
15,700.00	7,875.00	15,806.21	7,950.00	210.20	210.23	-96.76	-830.31	-7,171.79	674.56	257.00	417.56	1.615		
15,800.00	7,875.00	15,906.21	7,950.00	212.86	212.89	-96.76	-830.89	-7,271.79	674.56	251.71	422.85	1.595		
15,900.00	7,875.00	16,006.21	7,950.00	215.52	215.55	-96.76	-831.46	-7,371.79	674.56	246.42	428.14	1.576		
16,000.00	7,875.00	16,106.21	7,950.00	218.19	218.21	-96.76	-832.04	-7,471.79	674.56	241.12	433.44	1.556		
16,100.00	7,875.00	16,206.21	7,950.00	220.85	220.88	-96.76	-832.61	-7,571.79	674.56	235.82	438.74	1.538		
16,200.00	7,875.00	16,306.21	7,950.00	223.52	223.54	-96.76	-833.19	-7,671.79	674.56	230.53	444.03	1.519		
16,300.00	7,875.00	16,406.21	7,950.00	226.18	226.20	-96.76	-833.76	-7,771.78	674.56	225.23	449.33	1.501		
16,400.00	7,875.00	16,506.21	7,950.00	228.85	228.87	-96.76	-834.34	-7,871.78	674.56	219.93	454.63	1.484	Level 3	
16,500.00	7,875.00	16,606.21	7,950.00	231.52	231.54	-96.76	-834.91	-7,971.78	674.56	214.63	459.93	1.467	Level 3	
16,600.00	7,875.00	16,706.21	7,950.00	234.18	234.20	-96.76	-835.49	-8,071.78	674.56	209.32	465.24	1.450	Level 3	
16,700.00	7,875.00	16,806.21	7,950.00	236.85	236.87	-96.76	-836.06	-8,171.78	674.56	204.02	470.54	1.434	Level 3	
16,800.00	7,875.00	16,906.21	7,950.00	239.52	239.54	-96.76	-836.64	-8,271.78	674.56	198.72	475.84	1.418	Level 3	
16,900.00	7,875.00	17,006.21	7,950.00	242.19	242.20	-96.76	-837.21	-8,371.77	674.56	193.41	481.15	1.402	Level 3	
17,000.00	7,875.00	17,106.21	7,950.00	244.86	244.87	-96.76	-837.79	-8,471.77	674.56	188.10	486.46	1.387	Level 3	
17,100.00	7,875.00	17,206.21	7,950.00	247.53	247.54	-96.76	-838.36	-8,571.77	674.56	182.80	491.76	1.372	Level 3	
17,200.00	7,875.00	17,306.21	7,950.00	250.20	250.21	-96.76	-838.93	-8,671.77	674.56	177.49	497.07	1.357	Level 3	
17,300.00	7,875.00	17,406.21	7,950.00	252.87	252.88	-96.76	-839.51	-8,771.77	674.56	172.18	502.38	1.343	Level 3	
17,400.00	7,875.00	17,506.21	7,950.00	255.54	255.55	-96.76	-840.08	-8,871.77	674.56	166.87	507.69	1.329	Level 3	
17,500.00	7,875.00	17,606.21	7,950.00	258.21	258.22	-96.76	-840.66	-8,971.76	674.56	161.56	513.00	1.315	Level 3	
17,600.00	7,875.00	17,706.21	7,950.00	260.89	260.89	-96.76	-841.23	-9,071.76	674.56	156.25	518.31	1.301	Level 3	
17,700.00	7,875.00	17,806.21	7,950.00	263.56	263.57	-96.76	-841.81	-9,171.76	674.56	150.93	523.62	1.288	Level 3	
17,800.00	7,875.00	17,906.21	7,950.00	266.23	266.24	-96.76	-842.38	-9,271.76	674.56	145.62	528.94	1.275	Level 3	
17,900.00	7,875.00	18,006.21	7,950.00	268.91	268.91	-96.76	-842.96	-9,371.76	674.56	140.31	534.25	1.263	Level 3	
18,000.00	7,875.00	18,106.21	7,950.00	271.58	271.58	-96.76	-843.53	-9,471.76	674.56	134.99	539.57	1.250	Level 3	
18,100.00	7,875.00	18,206.21	7,950.00	274.25	274.26	-96.76	-844.11	-9,571.75	674.56	129.68	544.88	1.238	Level 2	
18,142.12	7,875.00	18,248.33	7,950.00	275.38	275.38	-96.76	-844.35	-9,613.88	674.56	127.44	547.12	1.233	Level 2, SF	

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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	4.40	-4.40	0.00	0.01	179.84	-99.81	0.28	99.81						
100.00	100.00	104.40	95.60	0.13	0.15	179.84	-99.81	0.28	99.81	99.53	0.28	350.669			
200.00	200.00	204.40	195.60	0.49	0.51	179.84	-99.81	0.28	99.81	98.81	1.00	99.653			
250.00	250.00	245.60	245.60	0.67	0.66	179.84	-99.81	0.28	99.81	98.48	1.33	75.130 CC			
300.00	300.00	294.20	294.20	0.85	0.82	82.92	-100.12	0.42	100.07	98.40	1.67	59.880 ES			
400.00	399.93	391.05	391.00	1.20	1.16	84.00	-102.96	1.74	102.60	100.25	2.35	43.622			
500.00	499.68	487.68	487.40	1.56	1.50	85.98	-108.75	4.43	107.88	104.83	3.05	35.335			
603.98	603.08	587.74	586.96	1.95	1.87	88.67	-117.85	8.65	116.48	112.68	3.81	30.612			
700.00	698.37	679.71	678.10	2.33	2.24	90.95	-128.99	13.82	127.36	122.84	4.52	28.183			
800.00	797.61	774.96	772.03	2.73	2.64	92.20	-143.32	20.47	141.53	136.26	5.27	26.838			
900.00	896.84	869.47	864.66	3.13	3.07	92.55	-160.33	28.36	158.42	152.38	6.04	26.249			
1,000.00	996.08	963.05	955.71	3.54	3.52	92.25	-179.89	37.44	177.95	171.15	6.80	26.165			
1,100.00	1,095.32	1,055.50	1,044.93	3.95	4.01	91.50	-201.86	47.63	200.11	192.55	7.56	26.453			
1,200.00	1,194.56	1,150.71	1,136.16	4.36	4.54	90.54	-226.55	59.09	224.32	215.96	8.36	26.832			
1,300.00	1,293.79	1,247.63	1,229.00	4.77	5.09	89.72	-251.82	70.82	248.71	239.53	9.18	27.089			
1,400.00	1,393.03	1,344.56	1,321.83	5.18	5.65	89.06	-277.09	82.54	273.14	263.13	10.01	27.299			
1,500.00	1,492.27	1,441.48	1,414.67	5.59	6.22	88.50	-302.36	94.27	297.60	286.76	10.83	27.473			
1,600.00	1,591.51	1,538.41	1,507.50	6.00	6.80	88.03	-327.63	105.99	322.08	310.41	11.66	27.618			
1,700.00	1,690.74	1,635.34	1,600.34	6.41	7.37	87.62	-352.90	117.72	346.58	334.08	12.49	27.742			
1,800.00	1,789.98	1,732.26	1,693.17	6.83	7.95	87.27	-378.18	129.45	371.09	357.76	13.33	27.849			
1,900.00	1,889.22	1,829.19	1,786.01	7.24	8.54	86.96	-403.45	141.17	395.61	381.45	14.16	27.941			
2,000.00	1,988.46	1,926.11	1,878.84	7.65	9.12	86.69	-428.72	152.90	420.15	405.15	14.99	28.022			
2,100.00	2,087.69	2,023.04	1,971.68	8.07	9.71	86.45	-453.99	164.63	444.69	428.86	15.83	28.094			
2,200.00	2,186.93	2,119.96	2,064.51	8.48	10.29	86.23	-479.26	176.35	469.24	452.57	16.66	28.158			
2,300.00	2,286.17	2,216.89	2,157.35	8.89	10.88	86.03	-504.53	188.08	493.79	476.29	17.50	28.215			
2,400.00	2,385.41	2,313.81	2,250.18	9.31	11.47	85.86	-529.81	199.81	518.35	500.02	18.34	28.266			
2,500.00	2,484.64	2,410.74	2,343.02	9.72	12.06	85.69	-555.08	211.53	542.92	523.74	19.18	28.313			
2,600.00	2,583.88	2,507.66	2,435.86	10.13	12.65	85.55	-580.35	223.26	567.49	547.47	20.01	28.355			
2,700.00	2,683.12	2,604.59	2,528.69	10.55	13.24	85.41	-605.62	234.98	592.06	571.20	20.85	28.393			
2,800.00	2,782.36	2,701.51	2,621.53	10.96	13.83	85.29	-630.89	246.71	616.63	594.94	21.69	28.429			
2,900.00	2,881.59	2,801.56	2,714.36	11.38	14.44	85.17	-656.16	258.44	641.21	618.66	22.54	28.443			
3,000.00	2,980.83	2,904.64	2,807.20	11.79	15.07	85.07	-681.43	270.16	665.78	642.37	23.41	28.440			
3,100.00	3,080.07	3,007.71	2,900.03	12.21	15.70	84.97	-706.71	281.89	690.37	666.09	24.28	28.436			
3,200.00	3,179.31	3,089.22	2,992.87	12.62	16.20	84.88	-731.98	293.62	714.95	689.90	25.05	28.545			
3,300.00	3,278.55	3,186.14	3,085.70	13.03	16.79	84.79	-757.25	305.34	739.53	713.64	25.89	28.569			
3,400.00	3,377.78	3,283.07	3,178.54	13.45	17.39	84.71	-782.52	317.07	764.12	737.39	26.73	28.591			
3,500.00	3,477.02	3,379.99	3,271.37	13.86	17.98	84.64	-807.79	328.80	788.70	761.14	27.57	28.612			
3,600.00	3,576.26	3,476.92	3,364.21	14.28	18.57	84.57	-833.06	340.52	813.29	784.88	28.41	28.631			
3,700.00	3,675.50	3,573.84	3,457.04	14.69	19.17	84.50	-858.34	352.25	837.88	808.63	29.25	28.649			
3,800.00	3,774.73	3,670.77	3,549.88	15.11	19.76	84.44	-883.61	363.97	862.47	832.38	30.09	28.667			
3,900.00	3,873.97	3,767.69	3,642.71	15.52	20.36	84.38	-908.88	375.70	887.06	856.13	30.93	28.683			
4,000.00	3,973.21	3,864.62	3,735.55	15.93	20.95	84.32	-934.15	387.43	911.65	879.88	31.77	28.698			
4,100.00	4,072.45	3,961.54	3,828.38	16.35	21.54	84.27	-959.42	399.15	936.24	903.64	32.61	28.712			
4,200.00	4,171.68	4,058.47	3,921.22	16.76	22.14	84.22	-984.69	410.88	960.84	927.39	33.45	28.726			
4,300.00	4,270.92	4,155.39	4,014.05	17.18	22.73	84.17	-1,009.96	422.61	985.43	951.14	34.29	28.739			
4,400.00	4,370.16	4,252.32	4,106.89	17.59	23.33	84.12	-1,035.24	434.33	1,010.03	974.90	35.13	28.751			
4,500.00	4,469.40	4,349.25	4,199.72	18.01	23.92	84.08	-1,060.51	446.06	1,034.62	998.65	35.97	28.762			
4,600.00	4,568.63	4,446.17	4,292.56	18.42	24.52	84.04	-1,085.78	457.79	1,059.22	1,022.40	36.81	28.773			
4,700.00	4,667.87	4,543.10	4,385.39	18.84	25.11	84.00	-1,111.05	469.51	1,083.81	1,046.16	37.65	28.784			
4,800.00	4,767.11	4,640.02	4,478.23	19.25	25.71	83.96	-1,136.32	481.24	1,108.41	1,069.91	38.50	28.793			
4,900.00	4,866.35	4,736.95	4,571.06	19.66	26.30	83.93	-1,161.59	492.96	1,133.01	1,093.67	39.34	28.803			
5,000.00	4,965.58	4,833.87	4,663.90	20.08	26.90	83.89	-1,186.87	504.69	1,157.60	1,117.42	40.18	28.812			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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	5,064.82	4,930.80	4,756.73	20.49	27.49	83.86	-1,212.14	516.42	1,182.20	1,141.18	41.02	28.820			
5,200.00	5,164.06	5,027.72	4,849.57	20.91	28.09	83.83	-1,237.41	528.14	1,206.80	1,164.94	41.86	28.828			
5,300.00	5,263.30	5,124.65	4,942.40	21.32	28.68	83.80	-1,262.68	539.87	1,231.40	1,188.69	42.70	28.836			
5,400.00	5,362.53	5,221.57	5,035.24	21.74	29.28	83.77	-1,287.95	551.60	1,256.00	1,212.45	43.54	28.844			
5,500.00	5,461.77	5,318.50	5,128.07	22.15	29.87	83.74	-1,313.22	563.32	1,280.59	1,236.21	44.39	28.851			
5,600.00	5,561.01	5,415.42	5,220.91	22.57	30.47	83.71	-1,338.50	575.05	1,305.19	1,259.96	45.23	28.858			
5,700.00	5,660.25	5,512.35	5,313.74	22.98	31.06	83.69	-1,363.77	586.78	1,329.79	1,283.72	46.07	28.864			
5,800.00	5,759.49	5,609.28	5,406.58	23.40	31.66	83.66	-1,389.04	598.50	1,354.39	1,307.48	46.91	28.870			
5,900.00	5,858.72	5,706.20	5,499.42	23.81	32.25	83.64	-1,414.31	610.23	1,378.99	1,331.24	47.76	28.876			
6,000.00	5,957.96	5,803.13	5,592.25	24.23	32.85	83.61	-1,439.58	621.95	1,403.59	1,355.00	48.60	28.882			
6,100.00	6,057.20	5,900.05	5,685.09	24.64	33.45	83.59	-1,464.85	633.68	1,428.19	1,378.75	49.44	28.887			
6,200.00	6,156.44	6,003.02	5,777.92	25.05	34.08	83.57	-1,490.12	645.41	1,452.79	1,402.48	50.31	28.877			
6,300.00	6,255.67	6,106.10	5,870.76	25.47	34.71	83.55	-1,515.40	657.13	1,477.40	1,426.21	51.18	28.866			
6,400.00	6,354.91	6,190.83	5,963.59	25.88	35.23	83.53	-1,540.67	668.86	1,502.00	1,450.03	51.97	28.902			
6,500.00	6,454.15	6,287.75	6,056.43	26.30	35.83	83.51	-1,565.94	680.59	1,526.60	1,473.79	52.81	28.907			
6,600.00	6,553.39	6,384.68	6,149.26	26.71	36.42	83.49	-1,591.21	692.31	1,551.20	1,497.55	53.65	28.911			
6,700.00	6,652.62	6,481.60	6,242.10	27.13	37.02	83.47	-1,616.48	704.04	1,575.80	1,521.30	54.50	28.916			
6,800.00	6,751.86	6,578.53	6,334.93	27.54	37.61	83.45	-1,641.75	715.77	1,600.40	1,545.06	55.34	28.920			
6,900.00	6,851.10	6,675.45	6,427.77	27.96	38.21	83.43	-1,667.03	727.49	1,625.00	1,568.82	56.18	28.924			
7,000.00	6,950.34	6,772.38	6,520.60	28.37	38.81	83.42	-1,692.30	739.22	1,649.61	1,592.58	57.03	28.927			
7,100.00	7,049.57	6,869.30	6,613.44	28.79	39.40	83.40	-1,717.57	750.94	1,674.21	1,616.34	57.87	28.931			
7,200.00	7,148.81	6,966.23	6,706.27	29.20	40.00	83.38	-1,742.84	762.67	1,698.81	1,640.10	58.71	28.935			
7,283.93	7,232.10	7,047.58	6,784.19	29.55	40.50	83.37	-1,764.05	772.51	1,719.46	1,660.04	59.42	28.937			
7,300.00	7,248.07	7,063.15	6,799.11	29.61	40.59	81.60	-1,768.11	774.40	1,723.41	1,663.86	59.55	28.939			
7,350.00	7,297.99	7,111.47	6,845.39	29.79	40.89	26.61	-1,780.71	780.24	1,735.63	1,675.71	59.92	28.967			
7,400.00	7,347.93	7,159.30	6,891.20	29.93	41.18	-75.35	-1,793.18	786.03	1,747.70	1,687.48	60.21	29.025			
7,450.00	7,397.53	7,206.27	6,936.19	30.03	41.47	-80.36	-1,805.43	791.71	1,759.58	1,699.13	60.45	29.108			
7,500.00	7,446.40	7,252.04	6,980.02	30.12	41.75	-81.52	-1,817.36	797.25	1,771.28	1,710.64	60.63	29.213			
7,550.00	7,494.17	7,296.24	7,022.35	30.19	42.03	-81.86	-1,828.88	802.60	1,782.81	1,722.04	60.76	29.340			
7,600.00	7,540.48	7,338.54	7,062.87	30.24	42.29	-81.91	-1,839.91	807.71	1,794.22	1,733.37	60.85	29.487			
7,650.00	7,584.98	7,378.63	7,101.26	30.28	42.53	-81.84	-1,850.36	812.56	1,805.56	1,744.68	60.89	29.655			
7,700.00	7,627.32	7,416.19	7,137.24	30.31	42.76	-81.70	-1,860.16	817.11	1,816.92	1,756.03	60.89	29.840			
7,750.00	7,667.19	7,450.94	7,170.53	30.33	42.98	-81.49	-1,869.22	821.31	1,828.36	1,767.50	60.86	30.042			
7,800.00	7,704.28	7,482.61	7,200.87	30.36	43.17	-81.21	-1,877.48	825.15	1,839.98	1,779.16	60.81	30.257			
7,850.00	7,738.31	7,510.98	7,228.03	30.40	43.35	-80.84	-1,884.87	828.58	1,851.83	1,791.08	60.75	30.483			
7,900.00	7,769.02	7,535.81	7,251.81	30.45	43.50	-80.36	-1,891.35	831.58	1,863.98	1,803.29	60.69	30.714			
7,950.00	7,796.17	7,556.92	7,272.03	30.52	43.63	-79.74	-1,896.85	834.13	1,876.48	1,815.85	60.63	30.947			
8,000.00	7,819.57	7,574.15	7,288.53	30.63	43.73	-78.98	-1,901.34	836.22	1,889.36	1,828.76	60.60	31.178			
8,050.00	7,839.03	7,587.36	7,301.19	30.76	43.82	-78.07	-1,904.79	837.82	1,902.61	1,842.02	60.59	31.402			
8,100.00	7,854.40	7,596.47	7,309.91	30.94	43.87	-76.99	-1,907.16	838.92	1,916.21	1,855.60	60.61	31.616			
8,150.00	7,865.57	7,601.39	7,314.63	31.15	43.90	-75.75	-1,908.45	839.51	1,930.11	1,869.45	60.66	31.818			
8,200.00	7,872.45	7,602.09	7,315.30	31.41	43.91	-74.35	-1,908.63	839.60	1,944.24	1,883.49	60.75	32.005			
8,254.13	7,875.00	7,598.09	7,311.47	31.72	43.88	-72.68	-1,907.59	839.12	1,959.66	1,898.78	60.88	32.190			
8,300.00	7,875.00	8,633.70	7,950.00	32.03	45.07	-92.31	-2,082.20	226.48	1,965.89	1,899.55	66.34	29.633			
8,400.00	7,875.00	8,733.70	7,950.00	32.86	44.91	-92.32	-2,082.31	126.48	1,965.43	1,897.48	67.95	28.924			
8,500.00	7,875.00	8,833.70	7,950.00	33.88	44.77	-92.32	-2,082.43	26.48	1,964.97	1,895.03	69.94	28.094			
8,600.00	7,875.00	8,933.70	7,950.00	35.09	44.65	-92.32	-2,082.54	-73.52	1,964.51	1,892.23	72.28	27.180			
8,700.00	7,875.00	9,033.70	7,950.00	36.45	44.55	-92.32	-2,082.66	-173.52	1,964.05	1,889.12	74.93	26.212			
8,800.00	7,875.00	9,133.69	7,950.00	37.96	44.48	-92.32	-2,082.77	-273.52	1,963.59	1,885.73	77.86	25.219			
8,900.00	7,875.00	9,233.69	7,950.00	39.60	44.49	-92.32	-2,082.88	-373.52	1,963.13	1,882.08	81.04	24.223			
9,000.00	7,875.00	9,333.69	7,950.00	41.34	44.79	-92.32	-2,083.00	-473.51	1,962.67	1,878.22	84.45	23.240			
9,100.00	7,875.00	9,433.69	7,950.00	43.19	45.99	-92.32	-2,083.11	-573.51	1,962.21	1,874.15	88.05	22.284			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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			
9,200.00	7,875.00	9,533.69	7,950.00	45.12	47.73	-92.32	-2,083.23	-673.51	1,961.75	1,869.91	91.83	21.362			
9,300.00	7,875.00	9,633.69	7,950.00	47.12	49.65	-92.32	-2,083.34	-773.51	1,961.29	1,865.52	95.76	20.481			
9,400.00	7,875.00	9,733.69	7,950.00	49.19	51.65	-92.32	-2,083.46	-873.51	1,960.83	1,861.00	99.83	19.642			
9,500.00	7,875.00	9,833.69	7,950.00	51.32	53.72	-92.32	-2,083.57	-973.51	1,960.37	1,856.35	104.01	18.847			
9,600.00	7,875.00	9,933.69	7,950.00	53.50	55.85	-92.32	-2,083.68	-1,073.51	1,959.91	1,851.60	108.30	18.096			
9,700.00	7,875.00	10,033.68	7,950.00	55.72	58.02	-92.32	-2,083.80	-1,173.51	1,959.45	1,846.76	112.69	17.388			
9,800.00	7,875.00	10,133.68	7,950.00	57.98	60.23	-92.32	-2,083.91	-1,273.51	1,958.99	1,841.83	117.16	16.721			
9,900.00	7,875.00	10,233.68	7,950.00	60.28	62.48	-92.32	-2,084.03	-1,373.50	1,958.52	1,836.83	121.70	16.093			
10,000.00	7,875.00	10,333.68	7,950.00	62.61	64.76	-92.32	-2,084.14	-1,473.50	1,958.06	1,831.76	126.30	15.503			
10,100.00	7,875.00	10,433.68	7,950.00	64.97	67.07	-92.32	-2,084.26	-1,573.50	1,957.60	1,826.64	130.97	14.947			
10,200.00	7,875.00	10,533.68	7,950.00	67.35	69.41	-92.33	-2,084.37	-1,673.50	1,957.14	1,821.46	135.69	14.424			
10,300.00	7,875.00	10,633.68	7,950.00	69.75	71.77	-92.33	-2,084.48	-1,773.50	1,956.68	1,816.23	140.45	13.931			
10,400.00	7,875.00	10,733.68	7,950.00	72.18	74.15	-92.33	-2,084.60	-1,873.50	1,956.22	1,810.96	145.26	13.467			
10,500.00	7,875.00	10,833.68	7,950.00	74.62	76.55	-92.33	-2,084.71	-1,973.50	1,955.76	1,805.65	150.11	13.029			
10,600.00	7,875.00	10,933.67	7,950.00	77.08	78.97	-92.33	-2,084.83	-2,073.50	1,955.30	1,800.31	154.99	12.615			
10,700.00	7,875.00	11,033.67	7,950.00	79.56	81.41	-92.33	-2,084.94	-2,173.49	1,954.84	1,794.93	159.91	12.225			
10,800.00	7,875.00	11,133.67	7,950.00	82.05	83.86	-92.33	-2,085.06	-2,273.49	1,954.38	1,789.53	164.85	11.855			
10,900.00	7,875.00	11,233.67	7,950.00	84.55	86.32	-92.33	-2,085.17	-2,373.49	1,953.92	1,784.10	169.82	11.506			
11,000.00	7,875.00	11,333.67	7,950.00	87.06	88.80	-92.33	-2,085.28	-2,473.49	1,953.46	1,778.65	174.82	11.174			
11,100.00	7,875.00	11,433.67	7,950.00	89.58	91.29	-92.33	-2,085.40	-2,573.49	1,953.00	1,773.17	179.83	10.860			
11,200.00	7,875.00	11,533.67	7,950.00	92.11	93.79	-92.33	-2,085.51	-2,673.49	1,952.54	1,767.67	184.87	10.562			
11,300.00	7,875.00	11,633.67	7,950.00	94.66	96.30	-92.33	-2,085.63	-2,773.49	1,952.08	1,762.16	189.93	10.278			
11,400.00	7,875.00	11,733.67	7,950.00	97.20	98.82	-92.33	-2,085.74	-2,873.49	1,951.62	1,756.62	195.00	10.008			
11,500.00	7,875.00	11,833.67	7,950.00	99.76	101.35	-92.33	-2,085.86	-2,973.49	1,951.16	1,751.07	200.09	9.751			
11,600.00	7,875.00	11,933.66	7,950.00	102.32	103.88	-92.33	-2,085.97	-3,073.48	1,950.70	1,745.51	205.19	9.507			
11,700.00	7,875.00	12,033.66	7,950.00	104.89	106.42	-92.33	-2,086.08	-3,173.48	1,950.24	1,739.93	210.31	9.273			
11,800.00	7,875.00	12,133.66	7,950.00	107.47	108.97	-92.33	-2,086.20	-3,273.48	1,949.78	1,734.34	215.44	9.050			
11,900.00	7,875.00	12,233.66	7,950.00	110.05	111.53	-92.33	-2,086.31	-3,373.48	1,949.32	1,728.74	220.58	8.837			
12,000.00	7,875.00	12,333.66	7,950.00	112.64	114.09	-92.34	-2,086.43	-3,473.48	1,948.86	1,723.12	225.74	8.633			
12,100.00	7,875.00	12,433.66	7,950.00	115.23	116.66	-92.34	-2,086.54	-3,573.48	1,948.40	1,717.50	230.90	8.438			
12,200.00	7,875.00	12,533.66	7,950.00	117.82	119.23	-92.34	-2,086.66	-3,673.48	1,947.94	1,711.87	236.07	8.251			
12,300.00	7,875.00	12,633.66	7,950.00	120.42	121.81	-92.34	-2,086.77	-3,773.48	1,947.48	1,706.22	241.26	8.072			
12,400.00	7,875.00	12,733.66	7,950.00	123.03	124.39	-92.34	-2,086.88	-3,873.48	1,947.02	1,700.57	246.45	7.900			
12,500.00	7,875.00	12,833.65	7,950.00	125.64	126.98	-92.34	-2,087.00	-3,973.47	1,946.56	1,694.91	251.65	7.735			
12,600.00	7,875.00	12,933.65	7,950.00	128.25	129.57	-92.34	-2,087.11	-4,073.47	1,946.10	1,689.25	256.85	7.577			
12,700.00	7,875.00	13,033.65	7,950.00	130.86	132.17	-92.34	-2,087.23	-4,173.47	1,945.64	1,683.57	262.07	7.424			
12,800.00	7,875.00	13,133.65	7,950.00	133.48	134.76	-92.34	-2,087.34	-4,273.47	1,945.18	1,677.89	267.29	7.278			
12,900.00	7,875.00	13,233.65	7,950.00	136.10	137.37	-92.34	-2,087.45	-4,373.47	1,944.72	1,672.21	272.51	7.136			
13,000.00	7,875.00	13,333.65	7,950.00	138.72	139.97	-92.34	-2,087.57	-4,473.47	1,944.26	1,666.51	277.74	7.000			
13,100.00	7,875.00	13,433.65	7,950.00	141.35	142.58	-92.34	-2,087.68	-4,573.47	1,943.80	1,660.82	282.98	6.869			
13,200.00	7,875.00	13,533.65	7,950.00	143.98	145.19	-92.34	-2,087.80	-4,673.47	1,943.34	1,655.11	288.22	6.742			
13,300.00	7,875.00	13,633.65	7,950.00	146.61	147.81	-92.34	-2,087.91	-4,773.47	1,942.88	1,649.41	293.47	6.620			
13,400.00	7,875.00	13,733.65	7,950.00	149.24	150.42	-92.34	-2,088.03	-4,873.46	1,942.42	1,643.69	298.72	6.502			
13,500.00	7,875.00	13,833.64	7,950.00	151.87	153.04	-92.34	-2,088.14	-4,973.46	1,941.96	1,637.98	303.98	6.388			
13,600.00	7,875.00	13,933.64	7,950.00	154.51	155.66	-92.34	-2,088.25	-5,073.46	1,941.50	1,632.26	309.24	6.278			
13,700.00	7,875.00	14,033.64	7,950.00	157.15	158.29	-92.34	-2,088.37	-5,173.46	1,941.04	1,626.53	314.51	6.172			
13,800.00	7,875.00	14,133.64	7,950.00	159.79	160.91	-92.34	-2,088.48	-5,273.46	1,940.58	1,620.80	319.78	6.069			
13,900.00	7,875.00	14,233.64	7,950.00	162.43	163.54	-92.35	-2,088.60	-5,373.46	1,940.12	1,615.07	325.05	5.969			
14,000.00	7,875.00	14,333.64	7,950.00	165.07	166.17	-92.35	-2,088.71	-5,473.46	1,939.66	1,609.33	330.32	5.872			
14,100.00	7,875.00	14,433.64	7,950.00	167.72	168.81	-92.35	-2,088.83	-5,573.46	1,939.20	1,603.59	335.60	5.778			
14,200.00	7,875.00	14,533.64	7,950.00	170.36	171.44	-92.35	-2,088.94	-5,673.46	1,938.74	1,597.85	340.89	5.687			
14,300.00	7,875.00	14,633.64	7,950.00	173.01	174.08	-92.35	-2,089.05	-5,773.45	1,938.28	1,592.11	346.17	5.599			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 3CH - 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			
14,400.00	7,875.00	14,733.63	7,950.00	175.66	176.71	-92.35	-2,089.17	-5,873.45	1,937.82	1,586.36	351.46	5.514			
14,500.00	7,875.00	14,833.63	7,950.00	178.31	179.35	-92.35	-2,089.28	-5,973.45	1,937.36	1,580.61	356.75	5.431			
14,600.00	7,875.00	14,933.63	7,950.00	180.96	181.99	-92.35	-2,089.40	-6,073.45	1,936.90	1,574.85	362.04	5.350			
14,700.00	7,875.00	15,033.63	7,950.00	183.61	184.64	-92.35	-2,089.51	-6,173.45	1,936.44	1,569.10	367.34	5.272			
14,800.00	7,875.00	15,133.63	7,950.00	186.27	187.28	-92.35	-2,089.63	-6,273.45	1,935.98	1,563.34	372.64	5.195			
14,900.00	7,875.00	15,233.63	7,950.00	188.92	189.92	-92.35	-2,089.74	-6,373.45	1,935.52	1,557.58	377.94	5.121			
15,000.00	7,875.00	15,333.63	7,950.00	191.58	192.57	-92.35	-2,089.85	-6,473.45	1,935.06	1,551.81	383.24	5.049			
15,100.00	7,875.00	15,433.63	7,950.00	194.24	195.22	-92.35	-2,089.97	-6,573.45	1,934.59	1,546.05	388.55	4.979			
15,200.00	7,875.00	15,533.63	7,950.00	196.89	197.87	-92.35	-2,090.08	-6,673.44	1,934.13	1,540.28	393.85	4.911			
15,300.00	7,875.00	15,633.63	7,950.00	199.55	200.51	-92.35	-2,090.20	-6,773.44	1,933.67	1,534.51	399.16	4.844			
15,400.00	7,875.00	15,733.62	7,950.00	202.21	203.17	-92.35	-2,090.31	-6,873.44	1,933.21	1,528.74	404.47	4.780			
15,500.00	7,875.00	15,833.62	7,950.00	204.87	205.82	-92.35	-2,090.43	-6,973.44	1,932.75	1,522.97	409.79	4.716			
15,600.00	7,875.00	15,933.62	7,950.00	207.53	208.47	-92.36	-2,090.54	-7,073.44	1,932.29	1,517.19	415.10	4.655			
15,700.00	7,875.00	16,033.62	7,950.00	210.20	211.12	-92.36	-2,090.65	-7,173.44	1,931.83	1,511.42	420.42	4.595			
15,800.00	7,875.00	16,133.62	7,950.00	212.86	213.78	-92.36	-2,090.77	-7,273.44	1,931.37	1,505.64	425.73	4.537			
15,900.00	7,875.00	16,233.62	7,950.00	215.52	216.43	-92.36	-2,090.88	-7,373.44	1,930.91	1,499.86	431.05	4.480			
16,000.00	7,875.00	16,333.62	7,950.00	218.19	219.09	-92.36	-2,091.00	-7,473.44	1,930.45	1,494.08	436.37	4.424			
16,100.00	7,875.00	16,433.62	7,950.00	220.85	221.75	-92.36	-2,091.11	-7,573.43	1,929.99	1,488.30	441.70	4.370			
16,200.00	7,875.00	16,533.62	7,950.00	223.52	224.41	-92.36	-2,091.23	-7,673.43	1,929.53	1,482.51	447.02	4.316			
16,300.00	7,875.00	16,633.61	7,950.00	226.18	227.06	-92.36	-2,091.34	-7,773.43	1,929.07	1,476.73	452.34	4.265			
16,400.00	7,875.00	16,733.61	7,950.00	228.85	229.72	-92.36	-2,091.45	-7,873.43	1,928.61	1,470.94	457.67	4.214			
16,500.00	7,875.00	16,833.61	7,950.00	231.52	232.38	-92.36	-2,091.57	-7,973.43	1,928.15	1,465.15	463.00	4.164			
16,600.00	7,875.00	16,933.61	7,950.00	234.18	235.05	-92.36	-2,091.68	-8,073.43	1,927.69	1,459.37	468.33	4.116			
16,700.00	7,875.00	17,033.61	7,950.00	236.85	237.71	-92.36	-2,091.80	-8,173.43	1,927.23	1,453.58	473.66	4.069			
16,800.00	7,875.00	17,133.61	7,950.00	239.52	240.37	-92.36	-2,091.91	-8,273.43	1,926.77	1,447.79	478.99	4.023			
16,900.00	7,875.00	17,233.61	7,950.00	242.19	243.03	-92.36	-2,092.02	-8,373.43	1,926.31	1,441.99	484.32	3.977			
17,000.00	7,875.00	17,333.61	7,950.00	244.86	245.70	-92.36	-2,092.14	-8,473.42	1,925.85	1,436.20	489.65	3.933			
17,100.00	7,875.00	17,433.61	7,950.00	247.53	248.36	-92.36	-2,092.25	-8,573.42	1,925.39	1,430.41	494.98	3.890			
17,200.00	7,875.00	17,533.61	7,950.00	250.20	251.03	-92.36	-2,092.37	-8,673.42	1,924.93	1,424.61	500.32	3.847			
17,300.00	7,875.00	17,633.60	7,950.00	252.87	253.69	-92.36	-2,092.48	-8,773.42	1,924.47	1,418.82	505.66	3.806			
17,400.00	7,875.00	17,733.60	7,950.00	255.54	256.36	-92.37	-2,092.60	-8,873.42	1,924.01	1,413.02	510.99	3.765			
17,500.00	7,875.00	17,833.60	7,950.00	258.21	259.02	-92.37	-2,092.71	-8,973.42	1,923.55	1,407.22	516.33	3.725			
17,600.00	7,875.00	17,933.60	7,950.00	260.89	261.69	-92.37	-2,092.82	-9,073.42	1,923.09	1,401.42	521.67	3.686			
17,700.00	7,875.00	18,033.60	7,950.00	263.56	264.36	-92.37	-2,092.94	-9,173.42	1,922.63	1,395.62	527.01	3.648			
17,800.00	7,875.00	18,133.60	7,950.00	266.23	267.03	-92.37	-2,093.05	-9,273.42	1,922.17	1,389.82	532.35	3.611			
17,900.00	7,875.00	18,233.60	7,950.00	268.91	269.69	-92.37	-2,093.17	-9,373.41	1,921.71	1,384.02	537.69	3.574			
18,000.00	7,875.00	18,333.60	7,950.00	271.58	272.36	-92.37	-2,093.28	-9,473.41	1,921.25	1,378.22	543.03	3.538			
18,100.00	7,875.00	18,433.60	7,950.00	274.25	275.03	-92.37	-2,093.40	-9,573.41	1,920.79	1,372.42	548.37	3.503			
18,142.12	7,875.00	18,475.72	7,950.00	275.38	276.16	-92.37	-2,093.44	-9,615.53	1,920.60	1,369.97	550.62	3.488 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4AH - 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	4.50	-4.50	0.00	0.01	179.89	-149.71	0.28	149.71						
100.00	100.00	104.50	95.50	0.13	0.15	179.89	-149.71	0.28	149.71	149.43	0.28	525.340			
200.00	200.00	204.50	195.50	0.49	0.51	179.89	-149.71	0.28	149.71	148.71	1.00	149.426			
250.00	250.00	245.50	245.50	0.67	0.66	179.89	-149.71	0.28	149.71	148.39	1.33	112.725 CC			
300.00	300.00	293.37	293.36	0.85	0.82	82.93	-150.02	0.39	149.98	148.32	1.67	89.901 ES			
400.00	399.93	388.59	388.54	1.20	1.15	83.73	-152.86	1.43	152.56	150.21	2.34	65.104			
500.00	499.68	483.56	483.31	1.56	1.48	85.22	-158.66	3.53	157.93	154.89	3.04	51.992			
603.98	603.08	581.86	581.12	1.95	1.85	87.33	-167.76	6.84	166.65	162.87	3.78	44.083			
700.00	698.37	672.16	670.63	2.33	2.20	89.34	-178.89	10.89	177.72	173.23	4.48	39.638			
800.00	797.61	765.65	762.87	2.73	2.60	90.74	-193.21	16.10	192.25	187.03	5.22	36.801			
900.00	896.84	858.39	853.83	3.13	3.01	91.53	-210.20	22.27	209.68	203.71	5.97	35.122			
1,000.00	996.08	950.20	943.24	3.54	3.46	91.82	-229.73	29.37	229.89	223.17	6.72	34.215			
1,100.00	1,095.32	1,040.90	1,030.89	3.95	3.93	91.73	-251.67	37.35	252.81	245.34	7.47	33.853			
1,200.00	1,194.56	1,130.33	1,116.54	4.36	4.42	91.36	-275.84	46.14	278.39	270.17	8.21	33.905			
1,300.00	1,293.79	1,218.36	1,200.02	4.77	4.95	90.79	-302.07	55.67	306.59	297.64	8.95	34.251			
1,400.00	1,393.03	1,306.51	1,282.75	5.18	5.51	90.09	-330.69	66.08	337.34	327.64	9.70	34.783			
1,500.00	1,492.27	1,401.29	1,371.36	5.59	6.13	89.39	-362.29	77.57	368.98	358.47	10.52	35.078			
1,600.00	1,591.51	1,503.94	1,459.96	6.00	6.82	88.79	-393.88	89.06	400.67	389.29	11.38	35.205			
1,700.00	1,690.74	1,609.17	1,548.57	6.41	7.54	88.29	-425.48	100.54	432.39	420.13	12.26	35.271			
1,800.00	1,789.98	1,685.60	1,637.18	6.83	8.06	87.85	-457.08	112.03	464.13	451.13	13.00	35.696			
1,900.00	1,889.22	1,780.38	1,725.79	7.24	8.72	87.47	-488.67	123.52	495.90	482.06	13.83	35.844			
2,000.00	1,988.46	1,875.15	1,814.40	7.65	9.37	87.13	-520.27	135.01	527.68	513.01	14.67	35.972			
2,100.00	2,087.69	1,969.92	1,903.01	8.07	10.03	86.84	-551.87	146.49	559.48	543.97	15.51	36.084			
2,200.00	2,186.93	2,064.69	1,991.62	8.48	10.70	86.57	-583.46	157.98	591.29	574.94	16.34	36.182			
2,300.00	2,286.17	2,159.46	2,080.23	8.89	11.36	86.33	-615.06	169.47	623.11	605.93	17.18	36.270			
2,400.00	2,385.41	2,254.24	2,168.83	9.31	12.02	86.12	-646.65	180.95	654.93	636.92	18.02	36.348			
2,500.00	2,484.64	2,349.01	2,257.44	9.72	12.69	85.92	-678.25	192.44	686.77	667.91	18.86	36.418			
2,600.00	2,583.88	2,443.78	2,346.05	10.13	13.36	85.74	-709.85	203.93	718.61	698.91	19.70	36.481			
2,700.00	2,683.12	2,538.55	2,434.66	10.55	14.03	85.58	-741.44	215.42	750.46	729.92	20.54	36.539			
2,800.00	2,782.36	2,633.33	2,523.27	10.96	14.70	85.43	-773.04	226.90	782.31	760.93	21.38	36.591			
2,900.00	2,881.59	2,728.10	2,611.88	11.38	15.37	85.29	-804.63	238.39	814.17	791.95	22.22	36.639			
3,000.00	2,980.83	2,822.87	2,700.49	11.79	16.04	85.17	-836.23	249.88	846.03	822.97	23.06	36.683			
3,100.00	3,080.07	2,917.64	2,789.10	12.21	16.71	85.05	-867.83	261.37	877.90	853.99	23.91	36.724			
3,200.00	3,179.31	3,012.42	2,877.70	12.62	17.38	84.94	-899.42	272.85	909.77	885.02	24.75	36.761			
3,300.00	3,278.55	3,107.19	2,966.31	13.03	18.05	84.84	-931.02	284.34	941.64	916.05	25.59	36.796			
3,400.00	3,377.78	3,201.96	3,054.92	13.45	18.72	84.74	-962.61	295.83	973.51	947.08	26.43	36.828			
3,500.00	3,477.02	3,303.27	3,143.53	13.86	19.44	84.65	-994.21	307.32	1,005.39	978.08	27.31	36.815			
3,600.00	3,576.26	3,408.50	3,232.14	14.28	20.19	84.57	-1,025.81	318.80	1,037.26	1,009.06	28.20	36.778			
3,700.00	3,675.50	3,486.28	3,320.75	14.69	20.74	84.49	-1,057.40	330.29	1,069.14	1,040.18	28.97	36.911			
3,800.00	3,774.73	3,581.05	3,409.36	15.11	21.42	84.41	-1,089.00	341.78	1,101.02	1,071.22	29.81	36.935			
3,900.00	3,873.97	3,675.82	3,497.97	15.52	22.09	84.34	-1,120.59	353.27	1,132.91	1,102.25	30.65	36.958			
4,000.00	3,973.21	3,770.59	3,586.57	15.93	22.77	84.28	-1,152.19	364.75	1,164.79	1,133.29	31.50	36.980			
4,100.00	4,072.45	3,865.37	3,675.18	16.35	23.44	84.21	-1,183.79	376.24	1,196.68	1,164.33	32.34	37.000			
4,200.00	4,171.68	3,960.14	3,763.79	16.76	24.11	84.15	-1,215.38	387.73	1,228.56	1,195.38	33.19	37.018			
4,300.00	4,270.92	4,054.91	3,852.40	17.18	24.79	84.10	-1,246.98	399.22	1,260.45	1,226.42	34.03	37.036			
4,400.00	4,370.16	4,149.68	3,941.01	17.59	25.46	84.04	-1,278.57	410.70	1,292.34	1,257.46	34.88	37.053			
4,500.00	4,469.40	4,244.45	4,029.62	18.01	26.14	83.99	-1,310.17	422.19	1,324.23	1,288.51	35.72	37.069			
4,600.00	4,568.63	4,339.23	4,118.23	18.42	26.81	83.94	-1,341.77	433.68	1,356.12	1,319.55	36.57	37.084			
4,700.00	4,667.87	4,434.00	4,206.84	18.84	27.49	83.90	-1,373.37	445.17	1,388.01	1,350.60	37.41	37.098			
4,800.00	4,767.11	4,528.77	4,295.44	19.25	28.16	83.85	-1,404.96	456.65	1,419.91	1,381.65	38.26	37.111			
4,900.00	4,866.35	4,623.54	4,384.05	19.66	28.84	83.81	-1,436.55	468.14	1,451.80	1,412.69	39.11	37.124			
5,000.00	4,965.58	4,718.32	4,472.66	20.08	29.51	83.77	-1,468.15	479.63	1,483.69	1,443.74	39.95	37.136			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4AH - 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	5,064.82	4,813.09	4,561.27	20.49	30.19	83.73	-1,499.75	491.12	1,515.59	1,474.79	40.80	37.148			
5,200.00	5,164.06	4,907.86	4,649.88	20.91	30.87	83.69	-1,531.34	502.60	1,547.49	1,505.84	41.65	37.158			
5,300.00	5,263.30	5,002.63	4,738.49	21.32	31.54	83.66	-1,562.94	514.09	1,579.38	1,536.89	42.49	37.169			
5,400.00	5,362.53	5,102.59	4,827.10	21.74	32.25	83.62	-1,594.54	525.58	1,611.28	1,567.91	43.36	37.157			
5,500.00	5,461.77	5,202.82	4,915.71	22.15	33.00	83.59	-1,626.13	537.07	1,643.17	1,598.91	44.26	37.125			
5,600.00	5,561.01	5,286.95	5,004.31	22.57	33.57	83.56	-1,657.73	548.55	1,675.07	1,630.04	45.03	37.197			
5,700.00	5,660.25	5,381.72	5,092.92	22.98	34.24	83.53	-1,689.32	560.04	1,706.97	1,661.09	45.88	37.205			
5,800.00	5,759.49	5,476.49	5,181.53	23.40	34.92	83.50	-1,720.92	571.53	1,738.87	1,692.14	46.73	37.213			
5,900.00	5,858.72	5,571.27	5,270.14	23.81	35.60	83.47	-1,752.52	583.02	1,770.77	1,723.19	47.57	37.221			
6,000.00	5,957.96	5,666.04	5,358.75	24.23	36.27	83.44	-1,784.11	594.50	1,802.67	1,754.24	48.42	37.228			
6,100.00	6,057.20	5,760.81	5,447.36	24.64	36.95	83.41	-1,815.71	605.99	1,834.57	1,785.30	49.27	37.235			
6,200.00	6,156.44	5,855.58	5,535.97	25.05	37.63	83.39	-1,847.30	617.48	1,866.46	1,816.35	50.12	37.242			
6,300.00	6,255.67	5,950.36	5,624.58	25.47	38.30	83.36	-1,878.90	628.97	1,898.37	1,847.40	50.97	37.248			
6,400.00	6,354.91	6,045.13	5,713.19	25.88	38.98	83.34	-1,910.50	640.45	1,930.27	1,878.45	51.81	37.254			
6,500.00	6,454.15	6,139.90	5,801.79	26.30	39.65	83.32	-1,942.09	651.94	1,962.17	1,909.50	52.66	37.260			
6,600.00	6,553.39	6,234.67	5,890.40	26.71	40.33	83.29	-1,973.69	663.43	1,994.07	1,940.56	53.51	37.265			
6,700.00	6,652.62	6,329.45	5,979.01	27.13	41.01	83.27	-2,005.28	674.92	2,025.97	1,971.61	54.36	37.270			
6,800.00	6,751.86	6,424.22	6,067.62	27.54	41.68	83.25	-2,036.88	686.40	2,057.87	2,002.66	55.21	37.275			
6,900.00	6,851.10	6,518.99	6,156.23	27.96	42.36	83.23	-2,068.48	697.89	2,089.77	2,033.72	56.06	37.280			
7,000.00	6,950.34	6,613.76	6,244.84	28.37	43.04	83.21	-2,100.07	709.38	2,121.67	2,064.77	56.91	37.284			
7,100.00	7,049.57	6,708.53	6,333.45	28.79	43.71	83.19	-2,131.67	720.87	2,153.58	2,095.82	57.75	37.289			
7,200.00	7,148.81	6,803.31	6,422.06	29.20	44.39	83.17	-2,163.26	732.35	2,185.48	2,126.87	58.60	37.293			
7,283.93	7,232.10	6,882.85	6,496.42	29.55	44.96	83.16	-2,189.78	741.99	2,212.25	2,152.94	59.32	37.296			
7,300.00	7,248.07	6,901.92	6,510.66	29.61	45.09	81.52	-2,194.86	743.84	2,217.38	2,157.91	59.47	37.287			
7,350.00	7,297.99	6,945.31	6,554.83	29.79	45.40	26.96	-2,210.61	749.57	2,233.25	2,173.43	59.82	37.302			
7,400.00	7,347.93	6,992.06	6,598.53	29.93	45.74	-74.53	-2,226.19	755.23	2,248.95	2,188.82	60.13	37.403			
7,450.00	7,397.53	7,037.96	6,641.45	30.03	46.06	-79.06	-2,241.50	760.80	2,264.39	2,204.01	60.38	37.505			
7,500.00	7,446.40	7,082.66	6,683.24	30.12	46.38	-79.74	-2,256.40	766.21	2,279.53	2,218.96	60.57	37.632			
7,550.00	7,494.17	7,125.83	6,723.61	30.19	46.69	-79.59	-2,270.79	771.45	2,294.35	2,233.62	60.72	37.783			
7,600.00	7,540.48	7,167.14	6,762.22	30.24	46.99	-79.16	-2,284.56	776.45	2,308.82	2,247.99	60.83	37.956			
7,650.00	7,584.98	7,206.26	6,798.80	30.28	47.27	-78.64	-2,297.61	781.20	2,322.96	2,262.07	60.89	38.149			
7,700.00	7,627.32	7,242.91	6,833.07	30.31	47.53	-78.07	-2,309.82	785.64	2,336.78	2,275.86	60.92	38.358			
7,750.00	7,667.19	7,276.80	6,864.76	30.33	47.77	-77.47	-2,321.12	789.75	2,350.31	2,289.39	60.92	38.581			
7,800.00	7,704.28	7,307.68	6,893.63	30.36	47.99	-76.86	-2,331.42	793.49	2,363.57	2,302.67	60.90	38.811			
7,850.00	7,738.31	7,335.31	6,919.46	30.40	48.19	-76.21	-2,340.63	796.84	2,376.58	2,315.71	60.87	39.045			
7,900.00	7,769.02	7,359.48	6,942.06	30.45	48.36	-75.52	-2,348.69	799.77	2,389.38	2,328.54	60.83	39.277			
7,950.00	7,796.17	7,380.01	6,961.26	30.52	48.51	-74.77	-2,355.53	802.26	2,401.96	2,341.16	60.81	39.500			
8,000.00	7,819.57	7,403.26	6,976.90	30.63	48.67	-73.97	-2,361.11	804.28	2,414.35	2,353.52	60.83	39.691			
8,050.00	7,839.03	7,409.55	6,988.87	30.76	48.72	-73.10	-2,365.38	805.84	2,426.52	2,365.70	60.81	39.900			
8,100.00	7,854.40	7,418.33	6,997.08	30.94	48.78	-72.16	-2,368.31	806.90	2,438.45	2,377.59	60.86	40.068			
8,150.00	7,865.57	7,423.02	7,001.46	31.15	48.81	-71.15	-2,369.87	807.47	2,450.09	2,389.16	60.93	40.209			
8,200.00	7,872.45	7,423.58	7,001.99	31.41	48.82	-70.07	-2,370.06	807.54	2,461.39	2,400.35	61.04	40.323			
8,254.13	7,875.00	7,419.54	6,998.21	31.72	48.79	-68.84	-2,368.71	807.05	2,473.15	2,411.95	61.19	40.416			
8,300.00	7,875.00	7,414.07	6,993.09	32.03	48.75	-68.72	-2,366.88	806.38	2,483.26	2,421.90	61.36	40.470			
8,400.00	7,875.00	7,402.14	6,981.94	32.86	48.66	-68.44	-2,362.91	804.94	2,508.05	2,446.15	61.90	40.519			
8,500.00	7,875.00	7,390.21	6,970.79	33.88	48.58	-68.15	-2,358.93	803.49	2,536.48	2,473.84	62.64	40.494			
8,600.00	7,875.00	9,026.41	7,875.00	35.09	52.32	-90.10	-2,682.49	-72.83	2,562.85	2,489.08	73.77	34.741			
8,700.00	7,875.00	9,126.41	7,875.00	36.45	52.25	-90.10	-2,682.60	-172.83	2,562.39	2,486.00	76.39	33.543			
8,800.00	7,875.00	9,226.41	7,875.00	37.96	52.20	-90.10	-2,682.72	-272.83	2,561.93	2,482.64	79.29	32.310			
8,900.00	7,875.00	9,326.41	7,875.00	39.60	52.20	-90.10	-2,682.83	-372.83	2,561.47	2,479.03	82.44	31.070			
9,000.00	7,875.00	9,426.41	7,875.00	41.34	52.25	-90.10	-2,682.95	-472.83	2,561.01	2,475.20	85.81	29.844			
9,100.00	7,875.00	9,526.41	7,875.00	43.19	52.40	-90.10	-2,683.06	-572.83	2,560.55	2,471.17	89.38	28.647			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4AH - 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			
9,200.00	7,875.00	9,626.41	7,875.00	45.12	52.73	-90.10	-2,683.17	-672.83	2,560.09	2,466.96	93.13	27.490			
9,300.00	7,875.00	9,726.40	7,875.00	47.12	53.37	-90.10	-2,683.29	-772.83	2,559.63	2,462.60	97.03	26.381			
9,400.00	7,875.00	9,826.40	7,875.00	49.19	54.46	-90.10	-2,683.40	-872.82	2,559.17	2,458.11	101.06	25.323			
9,500.00	7,875.00	9,926.40	7,875.00	51.32	55.98	-90.10	-2,683.52	-972.82	2,558.71	2,453.49	105.22	24.319			
9,600.00	7,875.00	10,026.40	7,875.00	53.50	57.78	-90.10	-2,683.63	-1,072.82	2,558.25	2,448.77	109.48	23.368			
9,700.00	7,875.00	10,126.40	7,875.00	55.72	59.74	-90.10	-2,683.75	-1,172.82	2,557.79	2,443.95	113.83	22.469			
9,800.00	7,875.00	10,226.40	7,875.00	57.98	61.81	-90.10	-2,683.86	-1,272.82	2,557.33	2,439.05	118.28	21.622			
9,900.00	7,875.00	10,326.40	7,875.00	60.28	63.96	-90.10	-2,683.97	-1,372.82	2,556.87	2,434.07	122.79	20.823			
10,000.00	7,875.00	10,426.40	7,875.00	62.61	66.16	-90.10	-2,684.09	-1,472.82	2,556.41	2,429.03	127.38	20.070			
10,100.00	7,875.00	10,526.40	7,875.00	64.97	68.40	-90.10	-2,684.20	-1,572.82	2,555.95	2,423.93	132.02	19.360			
10,200.00	7,875.00	10,626.40	7,875.00	67.35	70.68	-90.10	-2,684.32	-1,672.82	2,555.48	2,418.77	136.72	18.692			
10,300.00	7,875.00	10,726.39	7,875.00	69.75	72.99	-90.10	-2,684.43	-1,772.81	2,555.02	2,413.56	141.46	18.061			
10,400.00	7,875.00	10,826.39	7,875.00	72.18	75.33	-90.10	-2,684.55	-1,872.81	2,554.56	2,408.31	146.26	17.466			
10,500.00	7,875.00	10,926.39	7,875.00	74.62	77.69	-90.10	-2,684.66	-1,972.81	2,554.10	2,403.02	151.09	16.905			
10,600.00	7,875.00	11,026.39	7,875.00	77.08	80.07	-90.10	-2,684.77	-2,072.81	2,553.64	2,397.69	155.95	16.374			
10,700.00	7,875.00	11,126.39	7,875.00	79.56	82.48	-90.10	-2,684.89	-2,172.81	2,553.18	2,392.33	160.85	15.873			
10,800.00	7,875.00	11,226.39	7,875.00	82.05	84.90	-90.10	-2,685.00	-2,272.81	2,552.72	2,386.94	165.78	15.398			
10,900.00	7,875.00	11,326.39	7,875.00	84.55	87.33	-90.10	-2,685.12	-2,372.81	2,552.26	2,381.52	170.74	14.948			
11,000.00	7,875.00	11,426.39	7,875.00	87.06	89.78	-90.10	-2,685.23	-2,472.81	2,551.80	2,376.08	175.72	14.522			
11,100.00	7,875.00	11,526.39	7,875.00	89.58	92.25	-90.10	-2,685.35	-2,572.81	2,551.34	2,370.61	180.73	14.117			
11,200.00	7,875.00	11,626.38	7,875.00	92.11	94.73	-90.10	-2,685.46	-2,672.80	2,550.88	2,365.12	185.76	13.732			
11,300.00	7,875.00	11,726.38	7,875.00	94.66	97.21	-90.10	-2,685.57	-2,772.80	2,550.42	2,359.62	190.80	13.367			
11,400.00	7,875.00	11,826.38	7,875.00	97.20	99.71	-90.10	-2,685.69	-2,872.80	2,549.96	2,354.09	195.86	13.019			
11,500.00	7,875.00	11,926.38	7,875.00	99.76	102.22	-90.10	-2,685.80	-2,972.80	2,549.50	2,348.55	200.95	12.688			
11,600.00	7,875.00	12,026.38	7,875.00	102.32	104.74	-90.10	-2,685.92	-3,072.80	2,549.04	2,343.00	206.04	12.371			
11,700.00	7,875.00	12,126.38	7,875.00	104.89	107.26	-90.10	-2,686.03	-3,172.80	2,548.58	2,337.42	211.15	12.070			
11,800.00	7,875.00	12,226.38	7,875.00	107.47	109.80	-90.10	-2,686.14	-3,272.80	2,548.12	2,331.84	216.27	11.782			
11,900.00	7,875.00	12,326.38	7,875.00	110.05	112.34	-90.10	-2,686.26	-3,372.80	2,547.65	2,326.24	221.41	11.506			
12,000.00	7,875.00	12,426.38	7,875.00	112.64	114.88	-90.10	-2,686.37	-3,472.80	2,547.19	2,320.64	226.56	11.243			
12,100.00	7,875.00	12,526.38	7,875.00	115.23	117.44	-90.10	-2,686.49	-3,572.79	2,546.73	2,315.02	231.72	10.991			
12,200.00	7,875.00	12,626.37	7,875.00	117.82	119.99	-90.10	-2,686.60	-3,672.79	2,546.27	2,309.39	236.88	10.749			
12,300.00	7,875.00	12,726.37	7,875.00	120.42	122.56	-90.10	-2,686.72	-3,772.79	2,545.81	2,303.75	242.06	10.517			
12,400.00	7,875.00	12,826.37	7,875.00	123.03	125.13	-90.10	-2,686.83	-3,872.79	2,545.35	2,298.10	247.25	10.295			
12,500.00	7,875.00	12,926.37	7,875.00	125.64	127.70	-90.10	-2,686.94	-3,972.79	2,544.89	2,292.45	252.44	10.081			
12,600.00	7,875.00	13,026.37	7,875.00	128.25	130.28	-90.10	-2,687.06	-4,072.79	2,544.43	2,286.79	257.64	9.876			
12,700.00	7,875.00	13,126.37	7,875.00	130.86	132.87	-90.10	-2,687.17	-4,172.79	2,543.97	2,281.12	262.85	9.678			
12,800.00	7,875.00	13,226.37	7,875.00	133.48	135.45	-90.10	-2,687.29	-4,272.79	2,543.51	2,275.44	268.07	9.488			
12,900.00	7,875.00	13,326.37	7,875.00	136.10	138.05	-90.10	-2,687.40	-4,372.79	2,543.05	2,269.76	273.29	9.305			
13,000.00	7,875.00	13,426.37	7,875.00	138.72	140.64	-90.10	-2,687.52	-4,472.78	2,542.59	2,264.07	278.52	9.129			
13,100.00	7,875.00	13,526.36	7,875.00	141.35	143.24	-90.10	-2,687.63	-4,572.78	2,542.13	2,258.37	283.76	8.959			
13,200.00	7,875.00	13,626.36	7,875.00	143.98	145.84	-90.10	-2,687.74	-4,672.78	2,541.67	2,252.67	289.00	8.795			
13,300.00	7,875.00	13,726.36	7,875.00	146.61	148.45	-90.10	-2,687.86	-4,772.78	2,541.21	2,246.96	294.24	8.636			
13,400.00	7,875.00	13,826.36	7,875.00	149.24	151.05	-90.10	-2,687.97	-4,872.78	2,540.75	2,241.25	299.49	8.484			
13,500.00	7,875.00	13,926.36	7,875.00	151.87	153.66	-90.10	-2,688.09	-4,972.78	2,540.28	2,235.54	304.75	8.336			
13,600.00	7,875.00	14,026.36	7,875.00	154.51	156.28	-90.10	-2,688.20	-5,072.78	2,539.82	2,229.82	310.01	8.193			
13,700.00	7,875.00	14,126.36	7,875.00	157.15	158.89	-90.10	-2,688.32	-5,172.78	2,539.36	2,224.09	315.27	8.055			
13,800.00	7,875.00	14,226.36	7,875.00	159.79	161.51	-90.10	-2,688.43	-5,272.78	2,538.90	2,218.37	320.54	7.921			
13,900.00	7,875.00	14,326.36	7,875.00	162.43	164.13	-90.10	-2,688.54	-5,372.77	2,538.44	2,212.63	325.81	7.791			
14,000.00	7,875.00	14,426.36	7,875.00	165.07	166.76	-90.10	-2,688.66	-5,472.77	2,537.98	2,206.90	331.08	7.666			
14,100.00	7,875.00	14,526.35	7,875.00	167.72	169.38	-90.10	-2,688.77	-5,572.77	2,537.52	2,201.16	336.36	7.544			
14,200.00	7,875.00	14,626.35	7,875.00	170.36	172.01	-90.10	-2,688.89	-5,672.77	2,537.06	2,195.42	341.64	7.426			
14,300.00	7,875.00	14,726.35	7,875.00	173.01	174.64	-90.10	-2,689.00	-5,772.77	2,536.60	2,189.67	346.93	7.312			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4AH - 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			
14,400.00	7,875.00	14,826.35	7,875.00	175.66	177.27	-90.10	-2,689.11	-5,872.77	2,536.14	2,183.92	352.22	7.201			
14,500.00	7,875.00	14,926.35	7,875.00	178.31	179.90	-90.10	-2,689.23	-5,972.77	2,535.68	2,178.17	357.51	7.093			
14,600.00	7,875.00	15,026.35	7,875.00	180.96	182.53	-90.10	-2,689.34	-6,072.77	2,535.22	2,172.42	362.80	6.988			
14,700.00	7,875.00	15,126.35	7,875.00	183.61	185.17	-90.10	-2,689.46	-6,172.77	2,534.76	2,166.66	368.09	6.886			
14,800.00	7,875.00	15,226.35	7,875.00	186.27	187.81	-90.10	-2,689.57	-6,272.76	2,534.30	2,160.90	373.39	6.787			
14,900.00	7,875.00	15,326.35	7,875.00	188.92	190.45	-90.10	-2,689.69	-6,372.76	2,533.84	2,155.14	378.69	6.691			
15,000.00	7,875.00	15,426.34	7,875.00	191.58	193.09	-90.10	-2,689.80	-6,472.76	2,533.38	2,149.38	384.00	6.597			
15,100.00	7,875.00	15,526.34	7,875.00	194.24	195.73	-90.10	-2,689.91	-6,572.76	2,532.92	2,143.61	389.30	6.506			
15,200.00	7,875.00	15,626.34	7,875.00	196.89	198.37	-90.10	-2,690.03	-6,672.76	2,532.45	2,137.84	394.61	6.418			
15,300.00	7,875.00	15,726.34	7,875.00	199.55	201.02	-90.10	-2,690.14	-6,772.76	2,531.99	2,132.07	399.92	6.331			
15,400.00	7,875.00	15,826.34	7,875.00	202.21	203.66	-90.10	-2,690.26	-6,872.76	2,531.53	2,126.30	405.23	6.247			
15,500.00	7,875.00	15,926.34	7,875.00	204.87	206.31	-90.10	-2,690.37	-6,972.76	2,531.07	2,120.53	410.54	6.165			
15,600.00	7,875.00	16,026.34	7,875.00	207.53	208.96	-90.10	-2,690.49	-7,072.76	2,530.61	2,114.75	415.86	6.085			
15,700.00	7,875.00	16,126.34	7,875.00	210.20	211.60	-90.10	-2,690.60	-7,172.75	2,530.15	2,108.98	421.18	6.007			
15,800.00	7,875.00	16,226.34	7,875.00	212.86	214.25	-90.10	-2,690.71	-7,272.75	2,529.69	2,103.20	426.49	5.931			
15,900.00	7,875.00	16,326.34	7,875.00	215.52	216.90	-90.10	-2,690.83	-7,372.75	2,529.23	2,097.42	431.81	5.857			
16,000.00	7,875.00	16,426.33	7,875.00	218.19	219.56	-90.10	-2,690.94	-7,472.75	2,528.77	2,091.63	437.14	5.785			
16,100.00	7,875.00	16,526.33	7,875.00	220.85	222.21	-90.10	-2,691.06	-7,572.75	2,528.31	2,085.85	442.46	5.714			
16,200.00	7,875.00	16,626.33	7,875.00	223.52	224.86	-90.10	-2,691.17	-7,672.75	2,527.85	2,080.06	447.78	5.645			
16,300.00	7,875.00	16,726.33	7,875.00	226.18	227.52	-90.10	-2,691.28	-7,772.75	2,527.39	2,074.28	453.11	5.578			
16,400.00	7,875.00	16,826.33	7,875.00	228.85	230.17	-90.10	-2,691.40	-7,872.75	2,526.93	2,068.49	458.44	5.512			
16,500.00	7,875.00	16,926.33	7,875.00	231.52	232.83	-90.10	-2,691.51	-7,972.74	2,526.47	2,062.70	463.77	5.448			
16,600.00	7,875.00	17,026.33	7,875.00	234.18	235.49	-90.10	-2,691.63	-8,072.74	2,526.01	2,056.91	469.10	5.385			
16,700.00	7,875.00	17,126.33	7,875.00	236.85	238.14	-90.10	-2,691.74	-8,172.74	2,525.55	2,051.12	474.43	5.323			
16,800.00	7,875.00	17,226.33	7,875.00	239.52	240.80	-90.10	-2,691.86	-8,272.74	2,525.08	2,045.33	479.76	5.263			
16,900.00	7,875.00	17,326.32	7,875.00	242.19	243.46	-90.10	-2,691.97	-8,372.74	2,524.62	2,039.53	485.09	5.204			
17,000.00	7,875.00	17,426.32	7,875.00	244.86	246.12	-90.10	-2,692.08	-8,472.74	2,524.16	2,033.74	490.43	5.147			
17,100.00	7,875.00	17,526.32	7,875.00	247.53	248.78	-90.10	-2,692.20	-8,572.74	2,523.70	2,027.94	495.76	5.091			
17,200.00	7,875.00	17,626.32	7,875.00	250.20	251.44	-90.10	-2,692.31	-8,672.74	2,523.24	2,022.14	501.10	5.035			
17,300.00	7,875.00	17,726.32	7,875.00	252.87	254.11	-90.10	-2,692.43	-8,772.74	2,522.78	2,016.34	506.44	4.981			
17,400.00	7,875.00	17,826.32	7,875.00	255.54	256.77	-90.10	-2,692.54	-8,872.73	2,522.32	2,010.55	511.78	4.929			
17,500.00	7,875.00	17,926.32	7,875.00	258.21	259.43	-90.10	-2,692.66	-8,972.73	2,521.86	2,004.75	517.12	4.877			
17,600.00	7,875.00	18,026.32	7,875.00	260.89	262.10	-90.10	-2,692.77	-9,072.73	2,521.40	1,998.94	522.46	4.826			
17,700.00	7,875.00	18,126.32	7,875.00	263.56	264.76	-90.10	-2,692.88	-9,172.73	2,520.94	1,993.14	527.80	4.776			
17,800.00	7,875.00	18,226.31	7,875.00	266.23	267.42	-90.10	-2,693.00	-9,272.73	2,520.48	1,987.34	533.14	4.728			
17,900.00	7,875.00	18,326.31	7,875.00	268.91	270.09	-90.10	-2,693.11	-9,372.73	2,520.02	1,981.54	538.48	4.680			
18,000.00	7,875.00	18,426.31	7,875.00	271.58	272.76	-90.10	-2,693.23	-9,472.73	2,519.56	1,975.73	543.83	4.633			
18,100.00	7,875.00	18,526.31	7,875.00	274.25	275.42	-90.10	-2,693.34	-9,572.73	2,519.10	1,969.93	549.17	4.587			
18,142.12	7,875.00	18,568.43	7,875.00	275.38	276.55	-90.10	-2,693.39	-9,614.85	2,518.90	1,967.48	551.42	4.568 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4BH - 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	4.50	-4.50	0.00	0.01	179.84	-199.98	0.56	199.98						
100.00	100.00	104.50	95.50	0.13	0.15	179.84	-199.98	0.56	199.98	199.70	0.28	701.734			
200.00	200.00	204.50	195.50	0.49	0.51	179.84	-199.98	0.56	199.98	198.98	1.00	199.599			
250.00	250.00	245.50	245.50	0.67	0.66	179.84	-199.98	0.56	199.98	198.66	1.33	150.575 CC			
300.00	300.00	292.64	292.64	0.85	0.82	82.85	-200.29	0.65	200.25	198.59	1.67	120.215 ES			
400.00	399.93	386.27	386.22	1.20	1.14	83.48	-203.09	1.49	202.83	200.49	2.34	86.858			
500.00	499.68	479.63	479.39	1.56	1.47	84.67	-208.80	3.19	208.20	205.17	3.02	68.867			
603.98	603.08	576.23	575.52	1.95	1.83	86.40	-217.76	5.87	216.88	213.12	3.76	57.710			
700.00	698.37	664.94	663.49	2.33	2.17	88.15	-228.73	9.14	227.92	223.47	4.45	51.190			
800.00	797.61	756.77	754.13	2.73	2.56	89.53	-242.82	13.34	242.50	237.32	5.18	46.793			
900.00	896.84	847.85	843.52	3.13	2.96	90.47	-259.55	18.33	260.07	254.15	5.92	43.961			
1,000.00	996.08	938.02	931.42	3.54	3.39	91.03	-278.78	24.06	280.50	273.85	6.65	42.173			
1,100.00	1,095.32	1,027.11	1,017.61	3.95	3.85	91.28	-300.37	30.50	303.70	296.31	7.39	41.115			
1,200.00	1,194.56	1,114.96	1,101.88	4.36	4.33	91.27	-324.17	37.60	329.59	321.48	8.11	40.619			
1,300.00	1,293.79	1,201.45	1,184.06	4.77	4.84	91.08	-350.00	45.31	358.13	349.29	8.84	40.510			
1,400.00	1,393.03	1,286.46	1,263.99	5.18	5.38	90.74	-377.70	53.57	389.24	379.68	9.56	40.713			
1,500.00	1,492.27	1,369.86	1,341.56	5.59	5.94	90.30	-407.08	62.33	422.90	412.62	10.27	41.171			
1,600.00	1,591.51	1,451.58	1,416.66	6.00	6.51	89.80	-437.94	71.54	459.03	448.06	10.97	41.843			
1,700.00	1,690.74	1,541.13	1,498.22	6.41	7.18	89.23	-473.36	82.11	496.91	485.15	11.76	42.267			
1,800.00	1,789.98	1,633.53	1,582.36	6.83	7.88	88.72	-509.98	93.03	534.90	522.33	12.58	42.526			
1,900.00	1,889.22	1,725.94	1,666.49	7.24	8.58	88.28	-546.59	103.95	572.93	559.52	13.40	42.744			
2,000.00	1,988.46	1,818.34	1,750.63	7.65	9.30	87.90	-583.20	114.87	610.98	596.75	14.23	42.929			
2,100.00	2,087.69	1,910.75	1,834.77	8.07	10.01	87.55	-619.81	125.79	649.05	633.99	15.06	43.089			
2,200.00	2,186.93	2,003.15	1,918.90	8.48	10.73	87.25	-656.43	136.71	687.14	671.24	15.90	43.227			
2,300.00	2,286.17	2,095.56	2,003.04	8.89	11.46	86.98	-693.04	147.63	725.24	708.51	16.73	43.348			
2,400.00	2,385.41	2,187.96	2,087.17	9.31	12.18	86.74	-729.65	158.55	763.35	745.79	17.57	43.455			
2,500.00	2,484.64	2,280.37	2,171.31	9.72	12.91	86.51	-766.26	169.47	801.48	783.08	18.40	43.550			
2,600.00	2,583.88	2,372.77	2,255.45	10.13	13.64	86.31	-802.88	180.39	839.62	820.37	19.24	43.635			
2,700.00	2,683.12	2,465.18	2,339.58	10.55	14.37	86.13	-839.49	191.31	877.76	857.68	20.08	43.711			
2,800.00	2,782.36	2,557.58	2,423.72	10.96	15.11	85.96	-876.10	202.23	915.91	894.99	20.92	43.780			
2,900.00	2,881.59	2,649.98	2,507.85	11.38	15.84	85.81	-912.71	213.15	954.07	932.31	21.76	43.842			
3,000.00	2,980.83	2,742.39	2,591.99	11.79	16.58	85.66	-949.33	224.07	992.23	969.63	22.60	43.899			
3,100.00	3,080.07	2,834.79	2,676.13	12.21	17.31	85.53	-985.94	234.99	1,030.40	1,006.95	23.44	43.950			
3,200.00	3,179.31	2,927.20	2,760.26	12.62	18.05	85.41	-1,022.55	245.91	1,068.57	1,044.28	24.29	43.998			
3,300.00	3,278.55	3,019.60	2,844.40	13.03	18.79	85.29	-1,059.16	256.83	1,106.74	1,081.61	25.13	44.041			
3,400.00	3,377.78	3,112.01	2,928.53	13.45	19.52	85.19	-1,095.78	267.76	1,144.92	1,118.95	25.97	44.081			
3,500.00	3,477.02	3,204.41	3,012.67	13.86	20.26	85.09	-1,132.39	278.68	1,183.11	1,156.29	26.82	44.118			
3,600.00	3,576.26	3,303.18	3,096.81	14.28	21.05	84.99	-1,169.00	289.60	1,221.29	1,193.60	27.69	44.101			
3,700.00	3,675.50	3,389.22	3,180.94	14.69	21.74	84.91	-1,205.62	300.52	1,259.48	1,230.97	28.50	44.184			
3,800.00	3,774.73	3,481.63	3,265.08	15.11	22.48	84.82	-1,242.23	311.44	1,297.67	1,268.32	29.35	44.214			
3,900.00	3,873.97	3,574.03	3,349.21	15.52	23.22	84.74	-1,278.84	322.36	1,335.86	1,305.67	30.19	44.241			
4,000.00	3,973.21	3,666.43	3,433.35	15.93	23.96	84.67	-1,315.45	333.28	1,374.05	1,343.01	31.04	44.267			
4,100.00	4,072.45	3,758.84	3,517.49	16.35	24.70	84.60	-1,352.07	344.20	1,412.25	1,380.37	31.89	44.291			
4,200.00	4,171.68	3,851.24	3,601.62	16.76	25.44	84.53	-1,388.68	355.12	1,450.45	1,417.72	32.73	44.313			
4,300.00	4,270.92	3,943.65	3,685.76	17.18	26.18	84.47	-1,425.29	366.04	1,488.65	1,455.07	33.58	44.334			
4,400.00	4,370.16	4,036.05	3,769.89	17.59	26.92	84.41	-1,461.90	376.96	1,526.85	1,492.42	34.42	44.354			
4,500.00	4,469.40	4,128.46	3,854.03	18.01	27.66	84.36	-1,498.52	387.88	1,565.05	1,529.78	35.27	44.372			
4,600.00	4,568.63	4,220.86	3,938.16	18.42	28.40	84.30	-1,535.13	398.80	1,603.25	1,567.14	36.12	44.390			
4,700.00	4,667.87	4,313.27	4,022.30	18.84	29.15	84.25	-1,571.74	409.72	1,641.46	1,604.49	36.96	44.406			
4,800.00	4,767.11	4,405.67	4,106.44	19.25	29.89	84.20	-1,608.35	420.64	1,679.66	1,641.85	37.81	44.421			
4,900.00	4,866.35	4,501.93	4,190.57	19.66	30.66	84.15	-1,644.97	431.56	1,717.87	1,679.19	38.68	44.413			
5,000.00	4,965.58	4,590.48	4,274.71	20.08	31.37	84.11	-1,681.58	442.48	1,756.08	1,716.57	39.51	44.449			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4BH - 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	5,064.82	4,682.88	4,358.84	20.49	32.11	84.07	-1,718.19	453.41	1,794.29	1,753.93	40.36	44.462			
5,200.00	5,164.06	4,775.29	4,442.98	20.91	32.86	84.03	-1,754.80	464.33	1,832.50	1,791.29	41.20	44.474			
5,300.00	5,263.30	4,867.69	4,527.12	21.32	33.60	83.99	-1,791.42	475.25	1,870.71	1,828.65	42.05	44.485			
5,400.00	5,362.53	4,960.10	4,611.25	21.74	34.34	83.95	-1,828.03	486.17	1,908.92	1,866.02	42.90	44.496			
5,500.00	5,461.77	5,052.50	4,695.39	22.15	35.08	83.91	-1,864.64	497.09	1,947.13	1,903.38	43.75	44.506			
5,600.00	5,561.01	5,144.91	4,779.52	22.57	35.83	83.88	-1,901.25	508.01	1,985.34	1,940.74	44.60	44.515			
5,700.00	5,660.25	5,237.31	4,863.66	22.98	36.57	83.84	-1,937.87	518.93	2,023.55	1,978.11	45.45	44.524			
5,800.00	5,759.49	5,329.72	4,947.80	23.40	37.31	83.81	-1,974.48	529.85	2,061.77	2,015.47	46.30	44.533			
5,900.00	5,858.72	5,422.12	5,031.93	23.81	38.05	83.78	-2,011.09	540.77	2,099.98	2,052.83	47.15	44.541			
6,000.00	5,957.96	5,514.53	5,116.07	24.23	38.80	83.75	-2,047.70	551.69	2,138.20	2,090.20	48.00	44.548			
6,100.00	6,057.20	5,606.93	5,200.20	24.64	39.54	83.72	-2,084.32	562.61	2,176.41	2,127.56	48.85	44.555			
6,200.00	6,156.44	5,700.67	5,284.34	25.05	40.29	83.69	-2,120.93	573.53	2,214.63	2,164.92	49.70	44.556			
6,300.00	6,255.67	5,808.26	5,368.48	25.47	41.16	83.66	-2,157.54	584.45	2,252.84	2,202.21	50.63	44.495			
6,400.00	6,354.91	5,884.14	5,452.61	25.88	41.77	83.64	-2,194.15	595.37	2,291.06	2,239.66	51.40	44.574			
6,500.00	6,454.15	5,976.55	5,536.75	26.30	42.51	83.61	-2,230.77	606.29	2,329.27	2,277.02	52.25	44.580			
6,600.00	6,553.39	6,068.95	5,620.88	26.71	43.26	83.59	-2,267.38	617.21	2,367.49	2,314.39	53.10	44.585			
6,700.00	6,652.62	6,161.36	5,705.02	27.13	44.00	83.56	-2,303.99	628.13	2,405.71	2,351.76	53.95	44.590			
6,800.00	6,751.86	6,253.76	5,789.16	27.54	44.74	83.54	-2,340.60	639.06	2,443.93	2,389.12	54.80	44.594			
6,900.00	6,851.10	6,346.17	5,873.29	27.96	45.49	83.52	-2,377.22	649.98	2,482.14	2,426.49	55.66	44.598			
7,000.00	6,950.34	6,438.57	5,957.43	28.37	46.23	83.50	-2,413.83	660.90	2,520.36	2,463.86	56.51	44.602			
7,100.00	7,049.57	6,530.97	6,041.56	28.79	46.97	83.48	-2,450.44	671.82	2,558.58	2,501.22	57.36	44.606			
7,200.00	7,148.81	6,623.38	6,125.70	29.20	47.72	83.46	-2,487.05	682.74	2,596.80	2,538.59	58.21	44.609			
7,283.93	7,232.10	6,700.93	6,196.31	29.55	48.34	83.44	-2,517.78	691.90	2,628.88	2,569.95	58.93	44.612			
7,300.00	7,248.07	6,715.78	6,209.83	29.61	48.46	81.93	-2,523.67	693.66	2,635.02	2,575.95	59.06	44.615			
7,350.00	7,297.99	6,761.84	6,251.77	29.79	48.83	27.76	-2,541.92	699.10	2,654.02	2,594.58	59.44	44.653			
7,400.00	7,347.93	6,807.42	6,293.27	29.93	49.20	-73.34	-2,559.98	704.49	2,672.80	2,613.04	59.75	44.732			
7,450.00	7,397.53	6,852.18	6,334.03	30.03	49.56	-77.47	-2,577.71	709.78	2,691.23	2,631.22	60.01	44.846			
7,500.00	7,446.40	6,904.23	6,373.72	30.12	49.98	-77.76	-2,594.98	714.93	2,709.26	2,648.99	60.26	44.956			
7,550.00	7,494.17	6,937.87	6,412.05	30.19	50.25	-77.23	-2,611.66	719.91	2,726.79	2,666.41	60.39	45.155			
7,600.00	7,540.48	6,978.15	6,448.73	30.24	50.57	-76.44	-2,627.62	724.67	2,743.80	2,683.30	60.51	45.346			
7,650.00	7,584.98	7,016.31	6,483.47	30.28	50.88	-75.58	-2,642.74	729.18	2,760.25	2,699.66	60.59	45.555			
7,700.00	7,627.32	7,052.06	6,516.02	30.31	51.17	-74.70	-2,656.91	733.40	2,776.12	2,715.48	60.64	45.780			
7,750.00	7,667.19	7,085.12	6,546.12	30.33	51.43	-73.84	-2,670.01	737.31	2,791.39	2,730.73	60.66	46.016			
7,800.00	7,704.28	7,115.24	6,573.55	30.36	51.67	-72.99	-2,681.94	740.87	2,806.06	2,745.40	60.66	46.256			
7,850.00	7,738.31	7,142.20	6,598.10	30.40	51.89	-72.16	-2,692.62	744.05	2,820.12	2,759.47	60.65	46.495			
7,900.00	7,769.02	7,165.79	6,619.57	30.45	52.08	-71.33	-2,701.97	746.84	2,833.58	2,772.94	60.64	46.726			
7,950.00	7,796.17	7,185.82	6,637.81	30.52	52.24	-70.51	-2,709.91	749.21	2,846.42	2,785.78	60.64	46.941			
8,000.00	7,819.57	7,202.15	6,652.68	30.63	52.37	-69.69	-2,716.38	751.14	2,858.63	2,797.98	60.65	47.134			
8,050.00	7,839.03	7,214.66	6,664.07	30.76	52.47	-68.85	-2,721.33	752.62	2,870.19	2,809.51	60.68	47.299			
8,100.00	7,854.40	7,223.24	6,671.88	30.94	52.54	-68.01	-2,724.73	753.63	2,881.07	2,820.33	60.74	47.432			
8,150.00	7,865.57	7,227.83	6,676.06	31.15	52.58	-67.15	-2,726.55	754.17	2,891.24	2,830.41	60.83	47.530			
8,200.00	7,872.45	7,228.40	6,676.58	31.41	52.59	-66.29	-2,726.78	754.24	2,900.64	2,839.68	60.95	47.590			
8,254.13	7,875.00	7,224.48	6,673.01	31.72	52.55	-65.36	-2,725.22	753.78	2,909.87	2,848.76	61.11	47.614			
8,300.00	7,875.00	7,219.16	6,668.17	32.03	52.51	-65.25	-2,723.12	753.15	2,917.60	2,856.31	61.29	47.603			
8,400.00	7,875.00	7,207.57	6,657.62	32.86	52.42	-65.02	-2,718.52	751.78	2,936.85	2,875.00	61.85	47.484			
8,500.00	7,875.00	7,204.02	6,647.06	33.88	52.39	-64.79	-2,713.93	750.41	2,959.30	2,896.64	62.65	47.233			
8,600.00	7,875.00	7,184.39	6,636.51	35.09	52.23	-64.56	-2,709.34	749.04	2,984.89	2,921.33	63.56	46.959			
8,700.00	7,875.00	7,172.80	6,625.96	36.45	52.14	-64.33	-2,704.75	747.67	3,013.54	2,948.87	64.66	46.604			
8,800.00	7,875.00	7,161.21	6,615.41	37.96	52.04	-64.10	-2,700.15	746.30	3,045.16	2,979.27	65.89	46.219			
8,900.00	7,875.00	7,149.62	6,604.85	39.60	51.95	-63.87	-2,695.56	744.93	3,079.66	3,012.45	67.21	45.824			
9,000.00	7,875.00	7,138.03	6,594.30	41.34	51.86	-63.65	-2,690.97	743.56	3,116.94	3,048.34	68.60	45.436			
9,100.00	7,875.00	7,126.44	6,583.75	43.19	51.76	-63.42	-2,686.38	742.19	3,156.91	3,086.87	70.05	45.068			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4BH - 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			
9,200.00	7,875.00	9,903.65	7,950.00	45.12	61.00	-91.44	-3,282.79	-672.03	3,160.70	3,066.46	94.25	33.536			
9,300.00	7,875.00	10,003.65	7,950.00	47.12	61.22	-91.44	-3,282.91	-772.03	3,160.25	3,062.14	98.10	32.213			
9,400.00	7,875.00	10,096.35	7,950.00	49.19	61.54	-91.44	-3,283.03	-872.02	3,159.79	3,057.83	101.96	30.991			
9,500.00	7,875.00	10,203.66	7,950.00	51.32	62.11	-91.44	-3,283.15	-972.02	3,159.33	3,053.12	106.22	29.744			
9,600.00	7,875.00	10,303.66	7,950.00	53.50	62.90	-91.44	-3,283.26	-1,072.02	3,158.88	3,048.43	110.44	28.602			
9,700.00	7,875.00	10,403.66	7,950.00	55.72	64.00	-91.44	-3,283.38	-1,172.02	3,158.42	3,043.65	114.77	27.521			
9,800.00	7,875.00	10,503.66	7,950.00	57.98	65.41	-91.44	-3,283.50	-1,272.02	3,157.96	3,038.79	119.17	26.499			
9,900.00	7,875.00	10,603.66	7,950.00	60.28	67.07	-91.44	-3,283.62	-1,372.02	3,157.51	3,033.85	123.66	25.534			
10,000.00	7,875.00	10,703.66	7,950.00	62.61	68.92	-91.44	-3,283.74	-1,472.02	3,157.05	3,028.84	128.21	24.623			
10,100.00	7,875.00	10,803.66	7,950.00	64.97	70.90	-91.44	-3,283.85	-1,572.02	3,156.59	3,023.76	132.83	23.764			
10,200.00	7,875.00	10,903.66	7,950.00	67.35	72.99	-91.44	-3,283.97	-1,672.02	3,156.14	3,018.64	137.50	22.954			
10,300.00	7,875.00	11,003.66	7,950.00	69.75	75.15	-91.44	-3,284.09	-1,772.01	3,155.68	3,013.46	142.22	22.188			
10,400.00	7,875.00	11,103.66	7,950.00	72.18	77.36	-91.44	-3,284.21	-1,872.01	3,155.22	3,008.23	146.99	21.466			
10,500.00	7,875.00	11,196.33	7,950.00	74.62	79.45	-91.44	-3,284.32	-1,972.01	3,154.77	3,003.14	151.62	20.807			
10,600.00	7,875.00	11,303.67	7,950.00	77.08	81.92	-91.44	-3,284.44	-2,072.01	3,154.31	2,997.67	156.64	20.137			
10,700.00	7,875.00	11,403.67	7,950.00	79.56	84.25	-91.44	-3,284.56	-2,172.01	3,153.85	2,992.33	161.52	19.526			
10,800.00	7,875.00	11,503.67	7,950.00	82.05	86.60	-91.44	-3,284.68	-2,272.01	3,153.40	2,986.96	166.43	18.947			
10,900.00	7,875.00	11,603.67	7,950.00	84.55	88.98	-91.44	-3,284.80	-2,372.01	3,152.94	2,981.57	171.37	18.398			
11,000.00	7,875.00	11,703.67	7,950.00	87.06	91.38	-91.45	-3,284.91	-2,472.01	3,152.48	2,976.15	176.33	17.878			
11,100.00	7,875.00	11,803.67	7,950.00	89.58	93.80	-91.45	-3,285.03	-2,572.01	3,152.03	2,970.70	181.32	17.384			
11,200.00	7,875.00	11,903.67	7,950.00	92.11	96.23	-91.45	-3,285.15	-2,672.00	3,151.57	2,965.24	186.33	16.914			
11,300.00	7,875.00	12,003.67	7,950.00	94.66	98.68	-91.45	-3,285.27	-2,772.00	3,151.11	2,959.75	191.36	16.467			
11,400.00	7,875.00	12,103.68	7,950.00	97.20	101.14	-91.45	-3,285.39	-2,872.00	3,150.66	2,954.24	196.41	16.041			
11,500.00	7,875.00	12,203.68	7,950.00	99.76	103.61	-91.45	-3,285.50	-2,972.00	3,150.20	2,948.72	201.48	15.636			
11,600.00	7,875.00	12,303.68	7,950.00	102.32	106.10	-91.45	-3,285.62	-3,072.00	3,149.74	2,943.18	206.56	15.249			
11,700.00	7,875.00	12,403.68	7,950.00	104.89	108.59	-91.45	-3,285.74	-3,172.00	3,149.28	2,937.63	211.65	14.879			
11,800.00	7,875.00	12,503.68	7,950.00	107.47	111.10	-91.45	-3,285.86	-3,272.00	3,148.83	2,932.06	216.77	14.526			
11,900.00	7,875.00	12,603.68	7,950.00	110.05	113.61	-91.45	-3,285.98	-3,372.00	3,148.37	2,926.48	221.89	14.189			
12,000.00	7,875.00	12,703.68	7,950.00	112.64	116.13	-91.45	-3,286.09	-3,472.00	3,147.91	2,920.89	227.02	13.866			
12,100.00	7,875.00	12,803.68	7,950.00	115.23	118.66	-91.45	-3,286.21	-3,571.99	3,147.46	2,915.29	232.17	13.557			
12,200.00	7,875.00	12,903.68	7,950.00	117.82	121.20	-91.45	-3,286.33	-3,671.99	3,147.00	2,909.67	237.33	13.260			
12,300.00	7,875.00	13,003.68	7,950.00	120.42	123.74	-91.45	-3,286.45	-3,771.99	3,146.54	2,904.05	242.49	12.976			
12,400.00	7,875.00	13,103.69	7,950.00	123.03	126.29	-91.45	-3,286.56	-3,871.99	3,146.09	2,898.42	247.67	12.703			
12,500.00	7,875.00	13,203.69	7,950.00	125.64	128.85	-91.45	-3,286.68	-3,971.99	3,145.63	2,892.78	252.85	12.440			
12,600.00	7,875.00	13,303.69	7,950.00	128.25	131.41	-91.45	-3,286.80	-4,071.99	3,145.17	2,887.13	258.05	12.188			
12,700.00	7,875.00	13,403.69	7,950.00	130.86	133.97	-91.45	-3,286.92	-4,171.99	3,144.72	2,881.47	263.25	11.946			
12,800.00	7,875.00	13,503.69	7,950.00	133.48	136.54	-91.45	-3,287.04	-4,271.99	3,144.26	2,875.81	268.45	11.712			
12,900.00	7,875.00	13,603.69	7,950.00	136.10	139.12	-91.45	-3,287.15	-4,371.99	3,143.80	2,870.14	273.67	11.488			
13,000.00	7,875.00	13,703.69	7,950.00	138.72	141.70	-91.45	-3,287.27	-4,471.98	3,143.35	2,864.46	278.89	11.271			
13,100.00	7,875.00	13,803.69	7,950.00	141.35	144.28	-91.45	-3,287.39	-4,571.98	3,142.89	2,858.77	284.11	11.062			
13,200.00	7,875.00	13,903.69	7,950.00	143.98	146.87	-91.45	-3,287.51	-4,671.98	3,142.43	2,853.09	289.35	10.860			
13,300.00	7,875.00	14,003.70	7,950.00	146.61	149.46	-91.45	-3,287.63	-4,771.98	3,141.98	2,847.39	294.58	10.666			
13,400.00	7,875.00	14,103.70	7,950.00	149.24	152.05	-91.45	-3,287.74	-4,871.98	3,141.52	2,841.69	299.83	10.478			
13,500.00	7,875.00	14,203.70	7,950.00	151.87	154.65	-91.45	-3,287.86	-4,971.98	3,141.06	2,835.99	305.07	10.296			
13,600.00	7,875.00	14,303.70	7,950.00	154.51	157.25	-91.45	-3,287.98	-5,071.98	3,140.61	2,830.28	310.33	10.120			
13,700.00	7,875.00	14,403.70	7,950.00	157.15	159.86	-91.45	-3,288.10	-5,171.98	3,140.15	2,824.57	315.58	9.950			
13,800.00	7,875.00	14,503.70	7,950.00	159.79	162.46	-91.45	-3,288.22	-5,271.98	3,139.69	2,818.85	320.84	9.786			
13,900.00	7,875.00	14,603.70	7,950.00	162.43	165.07	-91.45	-3,288.33	-5,371.97	3,139.24	2,813.13	326.11	9.626			
14,000.00	7,875.00	14,703.70	7,950.00	165.07	167.68	-91.45	-3,288.45	-5,471.97	3,138.78	2,807.40	331.38	9.472			
14,100.00	7,875.00	14,803.70	7,950.00	167.72	170.30	-91.45	-3,288.57	-5,571.97	3,138.32	2,801.67	336.65	9.322			
14,200.00	7,875.00	14,903.70	7,950.00	170.36	172.92	-91.45	-3,288.69	-5,671.97	3,137.86	2,795.94	341.92	9.177			
14,300.00	7,875.00	15,003.71	7,950.00	173.01	175.53	-91.45	-3,288.80	-5,771.97	3,137.41	2,790.20	347.20	9.036			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - LONE TREE 4-65 15-16 4BH - 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			
14,400.00	7,875.00	15,103.71	7,950.00	175.66	178.16	-91.45	-3,288.92	-5,871.97	3,136.95	2,784.47	352.48	8.900			
14,500.00	7,875.00	15,203.71	7,950.00	178.31	180.78	-91.45	-3,289.04	-5,971.97	3,136.49	2,778.72	357.77	8.767			
14,600.00	7,875.00	15,303.71	7,950.00	180.96	183.40	-91.45	-3,289.16	-6,071.97	3,136.04	2,772.98	363.06	8.638			
14,700.00	7,875.00	15,403.71	7,950.00	183.61	186.03	-91.45	-3,289.28	-6,171.97	3,135.58	2,767.23	368.35	8.513			
14,800.00	7,875.00	15,503.71	7,950.00	186.27	188.66	-91.45	-3,289.39	-6,271.96	3,135.12	2,761.48	373.64	8.391			
14,900.00	7,875.00	15,603.71	7,950.00	188.92	191.29	-91.45	-3,289.51	-6,371.96	3,134.67	2,755.73	378.94	8.272			
15,000.00	7,875.00	15,703.71	7,950.00	191.58	193.92	-91.45	-3,289.63	-6,471.96	3,134.21	2,749.98	384.23	8.157			
15,100.00	7,875.00	15,803.71	7,950.00	194.24	196.56	-91.45	-3,289.75	-6,571.96	3,133.75	2,744.22	389.53	8.045			
15,200.00	7,875.00	15,903.71	7,950.00	196.89	199.19	-91.45	-3,289.87	-6,671.96	3,133.30	2,738.46	394.84	7.936			
15,300.00	7,875.00	16,003.72	7,950.00	199.55	201.83	-91.45	-3,289.98	-6,771.96	3,132.84	2,732.70	400.14	7.829			
15,400.00	7,875.00	16,103.72	7,950.00	202.21	204.47	-91.45	-3,290.10	-6,871.96	3,132.38	2,726.93	405.45	7.726			
15,500.00	7,875.00	16,203.72	7,950.00	204.87	207.10	-91.45	-3,290.22	-6,971.96	3,131.93	2,721.17	410.76	7.625			
15,600.00	7,875.00	16,303.72	7,950.00	207.53	209.75	-91.45	-3,290.34	-7,071.96	3,131.47	2,715.40	416.07	7.526			
15,700.00	7,875.00	16,403.72	7,950.00	210.20	212.39	-91.45	-3,290.45	-7,171.95	3,131.01	2,709.63	421.38	7.430			
15,800.00	7,875.00	16,503.72	7,950.00	212.86	215.03	-91.46	-3,290.57	-7,271.95	3,130.56	2,703.86	426.69	7.337			
15,900.00	7,875.00	16,603.72	7,950.00	215.52	217.67	-91.46	-3,290.69	-7,371.95	3,130.10	2,698.09	432.01	7.245			
16,000.00	7,875.00	16,703.72	7,950.00	218.19	220.32	-91.46	-3,290.81	-7,471.95	3,129.64	2,692.32	437.33	7.156			
16,100.00	7,875.00	16,803.72	7,950.00	220.85	222.97	-91.46	-3,290.93	-7,571.95	3,129.19	2,686.54	442.65	7.069			
16,200.00	7,875.00	16,903.73	7,950.00	223.52	225.61	-91.46	-3,291.04	-7,671.95	3,128.73	2,680.76	447.97	6.984			
16,300.00	7,875.00	17,003.73	7,950.00	226.18	228.26	-91.46	-3,291.16	-7,771.95	3,128.27	2,674.98	453.29	6.901			
16,400.00	7,875.00	17,103.73	7,950.00	228.85	230.91	-91.46	-3,291.28	-7,871.95	3,127.82	2,669.20	458.61	6.820			
16,500.00	7,875.00	17,203.73	7,950.00	231.52	233.56	-91.46	-3,291.40	-7,971.95	3,127.36	2,663.42	463.94	6.741			
16,600.00	7,875.00	17,303.73	7,950.00	234.18	236.21	-91.46	-3,291.52	-8,071.94	3,126.90	2,657.64	469.26	6.663			
16,700.00	7,875.00	17,403.73	7,950.00	236.85	238.87	-91.46	-3,291.63	-8,171.94	3,126.44	2,651.86	474.59	6.588			
16,800.00	7,875.00	17,503.73	7,950.00	239.52	241.52	-91.46	-3,291.75	-8,271.94	3,125.99	2,646.07	479.92	6.514			
16,900.00	7,875.00	17,603.73	7,950.00	242.19	244.17	-91.46	-3,291.87	-8,371.94	3,125.53	2,640.28	485.25	6.441			
17,000.00	7,875.00	17,696.27	7,950.00	244.86	246.83	-91.46	-3,291.99	-8,471.94	3,125.07	2,634.49	490.58	6.373			
17,100.00	7,875.00	17,803.73	7,950.00	247.53	249.48	-91.46	-3,292.11	-8,571.94	3,124.62	2,628.71	495.91	6.301			
17,200.00	7,875.00	17,903.74	7,950.00	250.20	252.14	-91.46	-3,292.22	-8,671.94	3,124.16	2,622.92	501.24	6.233			
17,300.00	7,875.00	18,003.74	7,950.00	252.87	254.80	-91.46	-3,292.34	-8,771.94	3,123.70	2,617.13	506.58	6.166			
17,400.00	7,875.00	18,103.74	7,950.00	255.54	257.46	-91.46	-3,292.46	-8,871.94	3,123.25	2,611.34	511.91	6.101			
17,500.00	7,875.00	18,203.74	7,950.00	258.21	260.11	-91.46	-3,292.58	-8,971.93	3,122.79	2,605.54	517.25	6.037			
17,600.00	7,875.00	18,303.74	7,950.00	260.89	262.77	-91.46	-3,292.69	-9,071.93	3,122.33	2,599.75	522.58	5.975			
17,700.00	7,875.00	18,403.74	7,950.00	263.56	265.43	-91.46	-3,292.81	-9,171.93	3,121.88	2,593.95	527.92	5.914			
17,800.00	7,875.00	18,503.74	7,950.00	266.23	268.09	-91.46	-3,292.93	-9,271.93	3,121.42	2,588.16	533.26	5.853			
17,900.00	7,875.00	18,603.74	7,950.00	268.91	270.76	-91.46	-3,293.05	-9,371.93	3,120.96	2,582.36	538.60	5.795			
18,000.00	7,875.00	18,703.74	7,950.00	271.58	273.42	-91.46	-3,293.17	-9,471.93	3,120.51	2,576.57	543.94	5.737			
18,100.00	7,875.00	18,796.26	7,950.00	274.25	276.08	-91.46	-3,293.28	-9,571.93	3,120.05	2,570.77	549.28	5.682			
18,142.12	7,875.00	18,838.38	7,950.00	275.38	277.00	-91.46	-3,293.33	-9,614.05	3,119.86	2,568.52	551.33	5.659 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	0.80	0.80	0.00	0.00	0.01	75.04	0.00	75.04					
100.00	100.00	100.80	100.80	0.13	0.14	0.01	75.04	0.00	75.04	74.77	0.27	276.162		
200.00	200.00	200.80	200.80	0.49	0.50	0.01	75.04	0.00	75.04	74.05	0.99	75.899		
250.00	250.00	250.80	250.80	0.67	0.68	0.01	75.04	0.00	75.04	73.69	1.35	55.703 CC, ES		
300.00	300.00	299.56	299.56	0.85	0.85	-97.28	75.45	0.13	75.51	73.81	1.70	44.479		
400.00	399.93	396.98	396.92	1.20	1.20	-98.88	78.62	1.19	79.24	76.84	2.40	33.004		
500.00	499.68	493.99	493.70	1.56	1.56	-101.65	84.90	3.27	86.83	83.72	3.12	27.866		
603.98	603.08	594.13	593.30	1.95	1.93	-105.09	94.64	6.49	99.07	95.19	3.87	25.577		
700.00	698.37	685.86	684.18	2.33	2.29	-107.80	106.45	10.41	113.96	109.37	4.58	24.869		
800.00	797.61	783.09	780.15	2.73	2.69	-109.43	121.28	15.32	131.78	126.45	5.33	24.705		
900.00	896.84	881.40	877.15	3.13	3.10	-110.66	136.43	20.35	149.84	143.74	6.10	24.559		
1,000.00	996.08	979.71	974.16	3.54	3.52	-111.62	151.58	25.37	167.95	161.08	6.87	24.435		
1,100.00	1,095.32	1,078.02	1,071.17	3.95	3.94	-112.39	166.73	30.39	186.10	178.45	7.65	24.323		
1,200.00	1,194.56	1,176.34	1,168.18	4.36	4.37	-113.03	181.88	35.41	204.28	195.84	8.43	24.225		
1,300.00	1,293.79	1,274.65	1,265.18	4.77	4.79	-113.56	197.04	40.43	222.47	213.25	9.22	24.139		
1,400.00	1,393.03	1,372.96	1,362.19	5.18	5.22	-114.01	212.19	45.46	240.68	230.68	10.00	24.063		
1,500.00	1,492.27	1,471.27	1,459.20	5.59	5.65	-114.40	227.34	50.48	258.90	248.11	10.79	23.996		
1,600.00	1,591.51	1,569.58	1,556.20	6.00	6.08	-114.74	242.49	55.50	277.14	265.56	11.58	23.937		
1,700.00	1,690.74	1,667.89	1,653.21	6.41	6.51	-115.03	257.64	60.52	295.38	283.01	12.37	23.884		
1,800.00	1,789.98	1,766.21	1,750.22	6.83	6.95	-115.29	272.80	65.54	313.62	300.47	13.16	23.836		
1,900.00	1,889.22	1,864.52	1,847.22	7.24	7.38	-115.53	287.95	70.57	331.88	317.93	13.95	23.792		
2,000.00	1,988.46	1,962.83	1,944.23	7.65	7.81	-115.74	303.10	75.59	350.14	335.39	14.74	23.753		
2,100.00	2,087.69	2,061.14	2,041.24	8.07	8.25	-115.92	318.25	80.61	368.40	352.86	15.53	23.717		
2,200.00	2,186.93	2,159.45	2,138.25	8.48	8.68	-116.09	333.40	85.63	386.66	370.34	16.33	23.684		
2,300.00	2,286.17	2,257.76	2,235.25	8.89	9.11	-116.25	348.56	90.65	404.93	387.81	17.12	23.654		
2,400.00	2,385.41	2,356.08	2,332.26	9.31	9.55	-116.39	363.71	95.68	423.20	405.29	17.91	23.627		
2,500.00	2,484.64	2,454.39	2,429.27	9.72	9.98	-116.52	378.86	100.70	441.48	422.77	18.71	23.601		
2,600.00	2,583.88	2,552.70	2,526.27	10.13	10.42	-116.64	394.01	105.72	459.75	440.25	19.50	23.577		
2,700.00	2,683.12	2,651.01	2,623.28	10.55	10.85	-116.75	409.16	110.74	478.03	457.73	20.29	23.555		
2,800.00	2,782.36	2,749.32	2,720.29	10.96	11.28	-116.85	424.32	115.76	496.31	475.22	21.09	23.534		
2,900.00	2,881.59	2,847.63	2,817.29	11.38	11.72	-116.94	439.47	120.79	514.59	492.70	21.88	23.515		
3,000.00	2,980.83	2,945.94	2,914.30	11.79	12.15	-117.03	454.62	125.81	532.87	510.19	22.68	23.497		
3,100.00	3,080.07	3,044.26	3,011.31	12.21	12.59	-117.11	469.77	130.83	551.15	527.68	23.47	23.480		
3,200.00	3,179.31	3,142.57	3,108.32	12.62	13.02	-117.19	484.92	135.85	569.43	545.17	24.27	23.464		
3,300.00	3,278.55	3,240.88	3,205.32	13.03	13.46	-117.26	500.08	140.88	587.72	562.66	25.06	23.449		
3,400.00	3,377.78	3,339.19	3,302.33	13.45	13.89	-117.33	515.23	145.90	606.00	580.15	25.86	23.435		
3,500.00	3,477.02	3,437.50	3,399.34	13.86	14.33	-117.40	530.38	150.92	624.29	597.64	26.65	23.422		
3,600.00	3,576.26	3,535.81	3,496.34	14.28	14.76	-117.46	545.53	155.94	642.58	615.13	27.45	23.409		
3,700.00	3,675.50	3,634.13	3,593.35	14.69	15.20	-117.51	560.68	160.96	660.86	632.62	28.25	23.397		
3,800.00	3,774.73	3,732.44	3,690.36	15.11	15.64	-117.57	575.84	165.99	679.15	650.11	29.04	23.386		
3,900.00	3,873.97	3,830.75	3,787.37	15.52	16.07	-117.62	590.99	171.01	697.44	667.60	29.84	23.375		
4,000.00	3,973.21	3,929.06	3,884.37	15.93	16.51	-117.67	606.14	176.03	715.73	685.10	30.63	23.364		
4,100.00	4,072.45	4,027.37	3,981.38	16.35	16.94	-117.71	621.29	181.05	734.02	702.59	31.43	23.355		
4,200.00	4,171.68	4,125.68	4,078.39	16.76	17.38	-117.76	636.45	186.07	752.31	720.08	32.23	23.345		
4,300.00	4,270.92	4,224.00	4,175.39	17.18	17.81	-117.80	651.60	191.10	770.60	737.58	33.02	23.336		
4,400.00	4,370.16	4,322.31	4,272.40	17.59	18.25	-117.84	666.75	196.12	788.89	755.07	33.82	23.328		
4,500.00	4,469.40	4,420.62	4,369.41	18.01	18.68	-117.88	681.90	201.14	807.18	772.57	34.61	23.319		
4,600.00	4,568.63	4,518.93	4,466.41	18.42	19.12	-117.91	697.05	206.16	825.47	790.06	35.41	23.311		
4,700.00	4,667.87	4,617.24	4,563.42	18.84	19.56	-117.95	712.21	211.18	843.76	807.56	36.21	23.304		
4,800.00	4,767.11	4,715.55	4,660.43	19.25	19.99	-117.98	727.36	216.21	862.06	825.05	37.00	23.296		
4,900.00	4,866.35	4,813.86	4,757.44	19.66	20.43	-118.01	742.51	221.23	880.35	842.55	37.80	23.289		
5,000.00	4,965.58	4,912.18	4,854.44	20.08	20.86	-118.04	757.66	226.25	898.64	860.04	38.60	23.283		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	5,064.82	5,010.49	4,951.45	20.49	21.30	-118.07	772.81	231.27	916.93	877.54	39.39	23.276			
5,200.00	5,164.06	5,108.80	5,048.46	20.91	21.73	-118.10	787.97	236.29	935.23	895.04	40.19	23.270			
5,300.00	5,263.30	5,207.11	5,145.46	21.32	22.17	-118.13	803.12	241.32	953.52	912.53	40.99	23.264			
5,400.00	5,362.53	5,305.42	5,242.47	21.74	22.61	-118.15	818.27	246.34	971.81	930.03	41.78	23.258			
5,500.00	5,461.77	5,403.73	5,339.48	22.15	23.04	-118.18	833.42	251.36	990.11	947.53	42.58	23.252			
5,600.00	5,561.01	5,502.05	5,436.48	22.57	23.48	-118.20	848.57	256.38	1,008.40	965.02	43.38	23.247			
5,700.00	5,660.25	5,600.36	5,533.49	22.98	23.91	-118.23	863.73	261.40	1,026.70	982.52	44.18	23.241			
5,800.00	5,759.49	5,701.33	5,630.50	23.40	24.36	-118.25	878.88	266.43	1,044.99	1,000.01	44.98	23.231			
5,900.00	5,858.72	5,796.98	5,727.51	23.81	24.78	-118.27	894.03	271.45	1,063.28	1,017.51	45.77	23.231			
6,000.00	5,957.96	5,904.71	5,824.51	24.23	25.26	-118.29	909.18	276.47	1,081.58	1,034.97	46.61	23.207			
6,100.00	6,057.20	6,006.40	5,921.52	24.64	25.71	-118.31	924.33	281.49	1,099.87	1,052.46	47.42	23.196			
6,200.00	6,156.44	6,108.09	6,018.53	25.05	26.16	-118.33	939.49	286.51	1,118.17	1,069.94	48.23	23.185			
6,300.00	6,255.67	6,190.23	6,115.53	25.47	26.53	-118.35	954.64	291.54	1,136.46	1,087.50	48.96	23.213			
6,400.00	6,354.91	6,288.54	6,212.54	25.88	26.96	-118.37	969.79	296.56	1,154.76	1,105.00	49.76	23.208			
6,500.00	6,454.15	6,386.85	6,309.55	26.30	27.40	-118.39	984.94	301.58	1,173.05	1,122.50	50.55	23.204			
6,600.00	6,553.39	6,485.16	6,406.55	26.71	27.84	-118.40	1,000.09	306.60	1,191.35	1,140.00	51.35	23.200			
6,700.00	6,652.62	6,583.47	6,503.56	27.13	28.27	-118.42	1,015.25	311.62	1,209.64	1,157.49	52.15	23.196			
6,800.00	6,751.86	6,681.78	6,600.57	27.54	28.71	-118.44	1,030.40	316.65	1,227.94	1,174.99	52.95	23.192			
6,900.00	6,851.10	6,780.10	6,697.58	27.96	29.14	-118.45	1,045.55	321.67	1,246.23	1,192.49	53.74	23.188			
7,000.00	6,950.34	6,878.41	6,794.58	28.37	29.58	-118.47	1,060.70	326.69	1,264.53	1,209.99	54.54	23.185			
7,100.00	7,049.57	6,976.72	6,891.59	28.79	30.02	-118.48	1,075.85	331.71	1,282.82	1,227.49	55.34	23.181			
7,200.00	7,148.81	7,075.03	6,988.60	29.20	30.45	-118.50	1,091.01	336.73	1,301.12	1,244.98	56.14	23.177			
7,283.93	7,232.10	7,157.54	7,070.01	29.55	30.82	-118.51	1,103.72	340.95	1,316.48	1,259.67	56.81	23.175			
7,300.00	7,248.07	7,173.36	7,085.62	29.61	30.89	-120.94	1,106.16	341.76	1,319.34	1,262.40	56.93	23.173			
7,350.00	7,297.99	7,222.62	7,134.22	29.79	31.11	-177.67	1,113.75	344.27	1,327.20	1,269.90	57.30	23.162			
7,400.00	7,347.93	7,271.68	7,182.64	29.93	31.32	79.13	1,121.31	346.78	1,333.47	1,275.84	57.63	23.139			
7,450.00	7,397.53	7,320.18	7,230.49	30.03	31.54	73.33	1,128.79	349.26	1,338.17	1,280.25	57.92	23.103			
7,500.00	7,446.40	7,367.73	7,277.41	30.12	31.75	71.79	1,136.12	351.69	1,341.37	1,283.18	58.19	23.053			
7,550.00	7,494.17	7,413.99	7,323.06	30.19	31.95	71.47	1,143.25	354.05	1,343.16	1,284.74	58.42	22.991			
7,600.00	7,540.48	7,600.00	7,441.38	30.24	32.83	73.69	1,161.58	370.66	1,342.34	1,282.88	59.46	22.576			
7,650.00	7,584.98	7,696.65	7,589.34	30.28	33.33	78.98	1,183.97	429.84	1,337.65	1,277.73	59.92	22.323			
7,700.00	7,627.32	7,700.00	7,623.70	30.31	33.34	80.88	1,189.05	451.91	1,331.95	1,272.07	59.89	22.241			
7,750.00	7,667.19	7,791.76	7,666.74	30.33	33.83	83.43	1,195.35	483.75	1,326.86	1,266.50	60.36	21.982			
7,800.00	7,704.28	7,805.09	7,676.85	30.36	33.91	84.28	1,196.82	492.31	1,322.81	1,262.39	60.42	21.894			
7,850.00	7,738.31	7,807.71	7,678.81	30.40	33.92	84.56	1,197.10	494.03	1,320.09	1,259.67	60.41	21.850			
7,900.00	7,769.02	7,803.54	7,675.68	30.45	33.90	84.43	1,196.65	491.31	1,318.74	1,258.38	60.35	21.850 SF			
7,924.53	7,782.80	7,799.73	7,672.80	30.48	33.88	84.25	1,196.23	488.84	1,318.57	1,258.26	60.32	21.861			
7,950.00	7,796.17	7,794.82	7,669.08	30.52	33.85	84.00	1,195.69	485.69	1,318.75	1,258.48	60.27	21.882			
8,000.00	7,819.57	7,782.93	7,659.93	30.63	33.79	83.31	1,194.36	478.20	1,320.05	1,259.88	60.17	21.940			
8,050.00	7,839.03	7,768.74	7,648.83	30.76	33.71	82.43	1,192.74	469.52	1,322.54	1,262.46	60.07	22.016			
8,100.00	7,854.40	7,752.84	7,636.14	30.94	33.62	81.40	1,190.88	460.12	1,326.09	1,266.10	59.99	22.104			
8,150.00	7,865.57	7,735.64	7,622.13	31.15	33.53	80.25	1,188.82	450.37	1,330.59	1,270.64	59.95	22.195			
8,200.00	7,872.45	7,717.44	7,606.99	31.41	33.43	79.00	1,186.59	440.50	1,335.87	1,275.93	59.95	22.285			
8,254.13	7,875.00	7,696.84	7,589.50	31.72	33.33	77.59	1,183.99	429.94	1,342.31	1,282.32	59.99	22.377			
8,300.00	7,875.00	7,679.96	7,574.90	32.03	33.24	76.95	1,181.81	421.76	1,348.65	1,288.58	60.07	22.450			
8,400.00	7,875.00	7,650.00	7,548.42	32.86	33.09	75.81	1,177.85	408.32	1,366.89	1,306.43	60.45	22.611			
8,500.00	7,875.00	7,623.29	7,524.26	33.88	32.95	74.77	1,174.21	397.54	1,391.22	1,330.21	61.01	22.804			
8,600.00	7,875.00	7,600.00	7,502.81	35.09	32.83	73.85	1,170.96	389.07	1,421.57	1,359.87	61.70	23.040			
8,700.00	7,875.00	7,584.89	7,488.72	36.45	32.76	73.25	1,168.82	384.06	1,457.68	1,395.15	62.53	23.310			
8,800.00	7,875.00	7,570.07	7,474.78	37.96	32.69	72.65	1,166.70	379.50	1,499.27	1,435.87	63.40	23.648			
8,900.00	7,875.00	7,550.00	7,455.72	39.60	32.59	71.84	1,163.79	373.92	1,545.99	1,481.78	64.21	24.076			
9,000.00	7,875.00	7,550.00	7,455.72	41.34	32.59	71.84	1,163.79	373.92	1,597.34	1,532.16	65.19	24.505			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 1AH - OWB - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program:													0-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,875.00	7,550.00	7,455.72	43.19	32.59	71.84	1,163.79	373.92	1,653.15	1,587.04	66.11	25.007			
9,200.00	7,875.00	7,528.33	7,434.95	45.12	32.48	70.96	1,160.60	368.65	1,712.60	1,645.80	66.80	25.639			
9,300.00	7,875.00	7,520.83	7,427.71	47.12	32.45	70.66	1,159.49	367.02	1,775.72	1,708.17	67.55	26.288			
9,400.00	7,875.00	7,500.00	7,407.52	49.19	32.35	69.81	1,156.38	362.97	1,842.20	1,774.07	68.13	27.039			
9,500.00	7,875.00	7,500.00	7,407.52	51.32	32.35	69.81	1,156.38	362.97	1,911.26	1,842.43	68.83	27.770			
9,600.00	7,875.00	7,500.00	7,407.52	53.50	32.35	69.81	1,156.38	362.97	1,982.96	1,913.50	69.46	28.549			
9,700.00	7,875.00	7,500.00	7,407.52	55.72	32.35	69.81	1,156.38	362.97	2,057.02	1,986.99	70.03	29.373			
9,800.00	7,875.00	7,500.00	7,407.52	57.98	32.35	69.81	1,156.38	362.97	2,133.20	2,062.65	70.55	30.236			
9,900.00	7,875.00	7,500.00	7,407.52	60.28	32.35	69.81	1,156.38	362.97	2,211.28	2,140.25	71.03	31.134			
10,000.00	7,875.00	7,500.00	7,407.52	62.61	32.35	69.81	1,156.38	362.97	2,291.06	2,219.61	71.45	32.063			
10,100.00	7,875.00	7,500.00	7,407.52	64.97	32.35	69.81	1,156.38	362.97	2,372.38	2,300.53	71.84	33.021			
10,200.00	7,875.00	7,478.75	7,386.78	67.35	32.25	68.95	1,153.17	359.62	2,454.66	2,382.59	72.06	34.063			
10,300.00	7,875.00	7,475.78	7,383.87	69.75	32.23	68.82	1,152.72	359.21	2,538.47	2,466.10	72.37	35.077			
10,400.00	7,875.00	7,473.02	7,381.17	72.18	32.22	68.71	1,152.30	358.84	2,623.40	2,550.76	72.65	36.111			
10,500.00	7,875.00	7,470.44	7,378.65	74.62	32.21	68.61	1,151.91	358.52	2,709.35	2,636.45	72.90	37.164			
10,600.00	7,875.00	7,450.00	7,358.56	77.08	32.12	67.78	1,148.79	356.32	2,796.53	2,723.51	73.02	38.298			
10,700.00	7,875.00	7,450.00	7,358.56	79.56	32.12	67.78	1,148.79	356.32	2,884.17	2,810.92	73.25	39.374			
10,800.00	7,875.00	7,450.00	7,358.56	82.05	32.12	67.78	1,148.79	356.32	2,972.60	2,899.13	73.46	40.464			
10,900.00	7,875.00	7,450.00	7,358.56	84.55	32.12	67.78	1,148.79	356.32	3,061.73	2,988.07	73.66	41.567			
11,000.00	7,875.00	7,450.00	7,358.56	87.06	32.12	67.78	1,148.79	356.32	3,151.52	3,077.68	73.84	42.682			
11,100.00	7,875.00	7,450.00	7,358.56	89.58	32.12	67.78	1,148.79	356.32	3,241.91	3,167.90	74.00	43.807			
11,200.00	7,875.00	7,450.00	7,358.56	92.11	32.12	67.78	1,148.79	356.32	3,332.84	3,258.68	74.16	44.942			
11,300.00	7,875.00	7,450.00	7,358.56	94.66	32.12	67.78	1,148.79	356.32	3,424.28	3,349.98	74.30	46.086			
11,400.00	7,875.00	7,450.00	7,358.56	97.20	32.12	67.78	1,148.79	356.32	3,516.19	3,441.75	74.44	47.238			
11,500.00	7,875.00	7,450.00	7,358.56	99.76	32.12	67.78	1,148.79	356.32	3,608.52	3,533.96	74.56	48.397			
11,600.00	7,875.00	7,450.00	7,358.56	102.32	32.12	67.78	1,148.79	356.32	3,701.26	3,626.58	74.68	49.563			
11,700.00	7,875.00	7,450.00	7,358.56	104.89	32.12	67.78	1,148.79	356.32	3,794.36	3,719.57	74.79	50.734			
11,800.00	7,875.00	7,450.00	7,358.56	107.47	32.12	67.78	1,148.79	356.32	3,887.81	3,812.92	74.89	51.911			
11,900.00	7,875.00	7,450.00	7,358.56	110.05	32.12	67.78	1,148.79	356.32	3,981.57	3,906.58	74.99	53.094			
12,000.00	7,875.00	7,450.00	7,358.56	112.64	32.12	67.78	1,148.79	356.32	4,075.64	4,000.55	75.08	54.280			
12,100.00	7,875.00	7,450.00	7,358.56	115.23	32.12	67.78	1,148.79	356.32	4,169.97	4,094.80	75.17	55.471			
12,200.00	7,875.00	7,450.00	7,358.56	117.82	32.12	67.78	1,148.79	356.32	4,264.57	4,189.31	75.26	56.666			
12,300.00	7,875.00	7,450.00	7,358.56	120.42	32.12	67.78	1,148.79	356.32	4,359.41	4,284.07	75.34	57.864			
12,400.00	7,875.00	7,450.00	7,358.56	123.03	32.12	67.78	1,148.79	356.32	4,454.47	4,379.05	75.42	59.065			
12,500.00	7,875.00	7,450.00	7,358.56	125.64	32.12	67.78	1,148.79	356.32	4,549.74	4,474.25	75.49	60.269			
12,600.00	7,875.00	7,440.06	7,348.77	128.25	32.07	67.37	1,147.26	355.51	4,645.12	4,569.62	75.51	61.519			
12,700.00	7,875.00	7,439.23	7,347.96	130.86	32.07	67.34	1,147.14	355.45	4,740.77	4,665.20	75.57	62.732			
12,800.00	7,875.00	7,438.44	7,347.18	133.48	32.06	67.31	1,147.01	355.40	4,836.59	4,760.95	75.63	63.947			
12,900.00	7,875.00	7,437.68	7,346.42	136.10	32.06	67.28	1,146.90	355.34	4,932.57	4,856.88	75.70	65.164			
13,000.00	7,875.00	7,427.77	7,336.65	138.72	32.02	66.88	1,145.37	354.75	5,028.79	4,953.09	75.70	66.428			
13,100.00	7,875.00	7,427.77	7,336.65	141.35	32.02	66.88	1,145.37	354.75	5,125.06	5,049.30	75.77	67.644			
13,200.00	7,875.00	7,427.77	7,336.65	143.98	32.02	66.88	1,145.37	354.75	5,221.48	5,145.65	75.83	68.862			
13,300.00	7,875.00	7,427.77	7,336.65	146.61	32.02	66.88	1,145.37	354.75	5,318.02	5,242.14	75.88	70.081			
13,400.00	7,875.00	7,427.77	7,336.65	149.24	32.02	66.88	1,145.37	354.75	5,414.70	5,338.76	75.94	71.301			
13,500.00	7,875.00	7,427.77	7,336.65	151.87	32.02	66.88	1,145.37	354.75	5,511.49	5,435.49	76.00	72.521			
13,600.00	7,875.00	7,427.77	7,336.65	154.51	32.02	66.88	1,145.37	354.75	5,608.39	5,532.34	76.05	73.742			
13,700.00	7,875.00	7,427.77	7,336.65	157.15	32.02	66.88	1,145.37	354.75	5,705.40	5,629.29	76.11	74.964			
13,800.00	7,875.00	7,427.77	7,336.65	159.79	32.02	66.88	1,145.37	354.75	5,802.51	5,726.35	76.16	76.186			
13,900.00	7,875.00	7,427.77	7,336.65	162.43	32.02	66.88	1,145.37	354.75	5,899.72	5,823.51	76.22	77.408			
14,000.00	7,875.00	7,427.77	7,336.65	165.07	32.02	66.88	1,145.37	354.75	5,997.02	5,920.75	76.27	78.631			
14,100.00	7,875.00	7,427.77	7,336.65	167.72	32.02	66.88	1,145.37	354.75	6,094.41	6,018.09	76.32	79.853			
14,200.00	7,875.00	7,427.77	7,336.65	170.36	32.02	66.88	1,145.37	354.75	6,191.88	6,115.51	76.37	81.075			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,875.00	7,427.77	7,336.65	173.01	32.02	66.88	1,145.37	354.75	6,289.43	6,213.01	76.42	82.297		
14,400.00	7,875.00	7,427.77	7,336.65	175.66	32.02	66.88	1,145.37	354.75	6,387.06	6,310.58	76.47	83.519		
14,500.00	7,875.00	7,427.77	7,336.65	178.31	32.02	66.88	1,145.37	354.75	6,484.76	6,408.23	76.53	84.740		
14,600.00	7,875.00	7,427.77	7,336.65	180.96	32.02	66.88	1,145.37	354.75	6,582.52	6,505.95	76.58	85.961		
14,700.00	7,875.00	7,425.80	7,334.71	183.61	32.01	66.80	1,145.07	354.65	6,680.36	6,603.74	76.62	87.193		
14,800.00	7,875.00	7,420.60	7,329.58	186.27	31.98	66.59	1,144.27	354.39	6,778.25	6,701.61	76.64	88.445		
14,900.00	7,875.00	7,415.41	7,324.46	188.92	31.96	66.38	1,143.47	354.12	6,876.20	6,799.54	76.66	89.697		
15,000.00	7,875.00	7,410.21	7,319.33	191.58	31.94	66.17	1,142.66	353.86	6,974.20	6,897.52	76.68	90.949		
15,100.00	7,875.00	7,405.01	7,314.20	194.24	31.91	65.96	1,141.86	353.59	7,072.26	6,995.56	76.70	92.201		
15,200.00	7,875.00	7,399.82	7,309.07	196.89	31.89	65.75	1,141.06	353.32	7,170.37	7,093.64	76.73	93.453		
15,300.00	7,875.00	7,394.62	7,303.94	199.55	31.87	65.54	1,140.26	353.06	7,268.52	7,191.77	76.75	94.704		
15,400.00	7,875.00	7,389.42	7,298.82	202.21	31.85	65.34	1,139.46	352.79	7,366.72	7,289.95	76.77	95.955		
15,500.00	7,875.00	7,384.23	7,293.69	204.87	31.82	65.13	1,138.66	352.53	7,464.97	7,388.17	76.80	97.206		
15,600.00	7,875.00	7,379.03	7,288.56	207.53	31.80	64.92	1,137.86	352.26	7,563.25	7,486.43	76.82	98.456		
15,700.00	7,875.00	7,373.83	7,283.43	210.20	31.78	64.72	1,137.06	352.00	7,661.58	7,584.74	76.84	99.706		
15,800.00	7,875.00	7,368.64	7,278.30	212.86	31.75	64.51	1,136.26	351.73	7,759.95	7,683.08	76.87	100.955		
15,900.00	7,875.00	7,363.44	7,273.18	215.52	31.73	64.31	1,135.46	351.47	7,858.35	7,781.46	76.89	102.203		
16,000.00	7,875.00	7,358.24	7,268.05	218.19	31.71	64.10	1,134.66	351.20	7,956.79	7,879.88	76.91	103.451		
16,100.00	7,875.00	7,353.04	7,262.92	220.85	31.68	63.90	1,133.85	350.93	8,055.27	7,978.33	76.94	104.698		
16,200.00	7,875.00	7,347.85	7,257.79	223.52	31.66	63.70	1,133.05	350.67	8,153.78	8,076.82	76.96	105.945		
16,300.00	7,875.00	7,342.65	7,252.67	226.18	31.64	63.49	1,132.25	350.40	8,252.32	8,175.33	76.99	107.190		
16,400.00	7,875.00	7,337.45	7,247.54	228.85	31.62	63.29	1,131.45	350.14	8,350.90	8,273.88	77.01	108.435		
16,500.00	7,875.00	7,332.26	7,242.41	231.52	31.59	63.09	1,130.65	349.87	8,449.50	8,372.46	77.04	109.679		
16,600.00	7,875.00	7,327.06	7,237.28	234.18	31.57	62.89	1,129.85	349.61	8,548.13	8,471.07	77.06	110.922		
16,700.00	7,875.00	7,321.86	7,232.15	236.85	31.55	62.68	1,129.05	349.34	8,646.79	8,569.70	77.09	112.163		
16,800.00	7,875.00	7,316.67	7,227.03	239.52	31.52	62.48	1,128.25	349.08	8,745.48	8,668.37	77.12	113.404		
16,900.00	7,875.00	7,311.47	7,221.90	242.19	31.50	62.28	1,127.45	348.81	8,844.20	8,767.05	77.14	114.644		
17,000.00	7,875.00	7,306.27	7,216.77	244.86	31.48	62.08	1,126.65	348.55	8,942.94	8,865.77	77.17	115.883		
17,100.00	7,875.00	7,301.08	7,211.64	247.53	31.45	61.88	1,125.84	348.28	9,041.71	8,964.51	77.20	117.120		
17,200.00	7,875.00	7,295.88	7,206.52	250.20	31.43	61.69	1,125.04	348.01	9,140.50	9,063.27	77.23	118.356		
17,300.00	7,875.00	7,309.32	7,201.39	252.87	31.49	61.49	1,124.24	347.75	9,239.31	9,161.97	77.34	119.467		
17,400.00	7,875.00	7,285.49	7,196.26	255.54	31.38	61.29	1,123.44	347.48	9,338.14	9,260.86	77.29	120.825		
17,500.00	7,875.00	7,280.29	7,191.13	258.21	31.36	61.09	1,122.64	347.22	9,437.00	9,359.68	77.32	122.058		
17,600.00	7,875.00	7,275.09	7,186.00	260.89	31.34	60.89	1,121.84	346.95	9,535.88	9,458.53	77.35	123.289		
17,700.00	7,875.00	7,269.90	7,180.88	263.56	31.32	60.70	1,121.04	346.69	9,634.78	9,557.40	77.38	124.518		
17,800.00	7,875.00	7,264.70	7,175.75	266.23	31.29	60.50	1,120.24	346.42	9,733.69	9,656.29	77.41	125.747		
17,900.00	7,875.00	7,259.50	7,170.62	268.91	31.27	60.31	1,119.44	346.16	9,832.63	9,755.19	77.44	126.974		
18,000.00	7,875.00	7,254.31	7,165.49	271.58	31.25	60.11	1,118.64	345.89	9,931.59	9,854.12	77.47	128.199		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	0.10	-0.10	0.00	0.00	0.00	25.13	0.00	25.13					
100.00	100.00	100.10	99.90	0.13	0.13	0.00	25.13	0.00	25.13	24.87	0.27	93.363		
200.00	200.00	200.10	199.90	0.49	0.49	0.00	25.13	0.00	25.13	24.15	0.99	25.487		
250.00	250.00	249.90	249.90	0.67	0.67	0.00	25.13	0.00	25.13	23.79	1.34	18.702 CC, ES		
300.00	300.00	299.57	299.57	0.85	0.85	-97.39	25.45	0.29	25.51	23.81	1.70	15.036		
400.00	399.93	398.85	398.78	1.20	1.21	-99.57	28.00	2.59	28.53	26.13	2.40	11.873		
500.00	499.68	498.15	497.85	1.56	1.57	-102.99	32.96	7.08	34.55	31.42	3.13	11.053		
603.98	603.08	601.73	601.14	1.95	1.95	-109.38	38.73	12.31	42.51	38.61	3.90	10.910		
700.00	698.37	702.74	696.40	2.33	2.32	-115.34	44.06	17.13	50.92	46.28	4.64	10.976		
800.00	797.61	803.25	795.60	2.73	2.70	-119.72	49.61	22.15	60.09	54.69	5.40	11.134		
900.00	896.84	903.77	894.81	3.13	3.07	-122.94	55.15	27.17	69.52	63.36	6.16	11.292		
1,000.00	996.08	1,004.28	994.02	3.54	3.45	-125.38	60.70	32.19	79.11	72.19	6.92	11.439		
1,100.00	1,095.32	1,104.79	1,093.23	3.95	3.83	-127.29	66.24	37.21	88.81	81.14	7.68	11.570		
1,200.00	1,194.56	1,205.30	1,192.44	4.36	4.21	-128.82	71.79	42.23	98.59	90.16	8.44	11.686		
1,300.00	1,293.79	1,305.81	1,291.64	4.77	4.58	-130.08	77.34	47.25	108.43	99.23	9.20	11.789		
1,400.00	1,393.03	1,406.32	1,390.85	5.18	4.96	-131.12	82.88	52.27	118.31	108.36	9.96	11.881		
1,500.00	1,492.27	1,506.83	1,490.06	5.59	5.34	-132.01	88.43	57.29	128.23	117.51	10.72	11.962		
1,600.00	1,591.51	1,607.34	1,589.27	6.00	5.72	-132.76	93.97	62.31	138.17	126.69	11.48	12.035		
1,700.00	1,690.74	1,707.85	1,688.47	6.41	6.10	-133.42	99.52	67.33	148.13	135.89	12.24	12.101		
1,800.00	1,789.98	1,808.36	1,787.68	6.83	6.48	-133.99	105.07	72.35	158.11	145.11	13.00	12.160		
1,900.00	1,889.22	1,908.87	1,886.89	7.24	6.86	-134.50	110.61	77.38	168.10	154.34	13.76	12.213		
2,000.00	1,988.46	2,009.38	1,986.10	7.65	7.23	-134.95	116.16	82.40	178.11	163.58	14.53	12.262		
2,100.00	2,087.69	2,109.89	2,085.30	8.07	7.61	-135.35	121.70	87.42	188.12	172.83	15.29	12.306		
2,200.00	2,186.93	2,189.59	2,184.51	8.48	7.91	-135.71	127.25	92.44	198.14	182.17	15.97	12.407		
2,300.00	2,286.17	2,289.08	2,283.72	8.89	8.29	-136.03	132.80	97.46	208.17	191.44	16.73	12.445		
2,400.00	2,385.41	2,388.57	2,382.93	9.31	8.66	-136.33	138.34	102.48	218.21	200.72	17.49	12.480		
2,500.00	2,484.64	2,488.06	2,482.13	9.72	9.04	-136.60	143.89	107.50	228.25	210.00	18.24	12.512		
2,600.00	2,583.88	2,587.55	2,581.34	10.13	9.41	-136.85	149.43	112.52	238.29	219.29	19.00	12.541		
2,700.00	2,683.12	2,687.04	2,680.55	10.55	9.79	-137.07	154.98	117.54	248.34	228.58	19.76	12.569		
2,800.00	2,782.36	2,786.53	2,779.76	10.96	10.17	-137.28	160.53	122.56	258.39	237.88	20.52	12.595		
2,900.00	2,881.59	2,886.02	2,878.96	11.38	10.54	-137.48	166.07	127.58	268.45	247.17	21.27	12.619		
3,000.00	2,980.83	2,985.51	2,978.17	11.79	10.92	-137.66	171.62	132.60	278.51	256.47	22.03	12.641		
3,100.00	3,080.07	3,085.00	3,077.38	12.21	11.29	-137.82	177.16	137.62	288.57	265.78	22.79	12.663		
3,200.00	3,179.31	3,184.49	3,176.59	12.62	11.67	-137.98	182.71	142.64	298.63	275.08	23.55	12.682		
3,300.00	3,278.55	3,283.98	3,275.79	13.03	12.04	-138.12	188.26	147.66	308.69	284.39	24.30	12.701		
3,400.00	3,377.78	3,383.47	3,375.00	13.45	12.42	-138.26	193.80	152.68	318.76	293.70	25.06	12.719		
3,500.00	3,477.02	3,482.95	3,474.21	13.86	12.79	-138.39	199.35	157.70	328.83	303.01	25.82	12.735		
3,600.00	3,576.26	3,582.44	3,573.42	14.28	13.17	-138.51	204.89	162.72	338.90	312.32	26.58	12.751		
3,700.00	3,675.50	3,681.93	3,672.62	14.69	13.54	-138.62	210.44	167.74	348.97	321.64	27.34	12.766		
3,800.00	3,774.73	3,781.42	3,771.83	15.11	13.92	-138.73	215.99	172.76	359.04	330.95	28.09	12.780		
3,900.00	3,873.97	3,880.91	3,871.04	15.52	14.29	-138.83	221.53	177.78	369.12	340.27	28.85	12.794		
4,000.00	3,973.21	3,980.40	3,970.25	15.93	14.67	-138.93	227.08	182.80	379.19	349.58	29.61	12.806		
4,100.00	4,072.45	4,079.89	4,069.45	16.35	15.04	-139.02	232.62	187.82	389.27	358.90	30.37	12.819		
4,200.00	4,171.68	4,179.38	4,168.66	16.76	15.42	-139.11	238.17	192.84	399.35	368.22	31.13	12.830		
4,300.00	4,270.92	4,278.87	4,267.87	17.18	15.79	-139.19	243.72	197.86	409.42	377.54	31.88	12.841		
4,400.00	4,370.16	4,378.36	4,367.08	17.59	16.17	-139.27	249.26	202.88	419.50	386.86	32.64	12.852		
4,500.00	4,469.40	4,477.85	4,466.29	18.01	16.55	-139.34	254.81	207.90	429.58	396.18	33.40	12.862		
4,600.00	4,568.63	4,577.34	4,565.49	18.42	16.92	-139.41	260.35	212.92	439.66	405.50	34.16	12.872		
4,700.00	4,667.87	4,676.83	4,664.70	18.84	17.30	-139.48	265.90	217.94	449.74	414.83	34.92	12.881		
4,800.00	4,767.11	4,776.31	4,763.91	19.25	17.67	-139.54	271.45	222.96	459.82	424.15	35.67	12.890		
4,900.00	4,866.35	4,875.80	4,863.12	19.66	18.05	-139.61	276.99	227.98	469.91	433.47	36.43	12.898		
5,000.00	4,965.58	4,975.29	4,962.32	20.08	18.42	-139.67	282.54	233.00	479.99	442.80	37.19	12.907		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	5,064.82	5,074.78	5,061.53	20.49	18.80	-139.72	288.08	238.02	490.07	452.12	37.95	12.914		
5,200.00	5,164.06	5,174.27	5,160.74	20.91	19.17	-139.78	293.63	243.05	500.15	461.45	38.71	12.922		
5,300.00	5,263.30	5,273.76	5,259.95	21.32	19.55	-139.83	299.18	248.07	510.24	470.77	39.46	12.929		
5,400.00	5,362.53	5,373.25	5,359.15	21.74	19.92	-139.88	304.72	253.09	520.32	480.10	40.22	12.936		
5,500.00	5,461.77	5,472.74	5,458.36	22.15	20.30	-139.93	310.27	258.11	530.41	489.43	40.98	12.943		
5,600.00	5,561.01	5,572.23	5,557.57	22.57	20.68	-139.98	315.81	263.13	540.49	498.75	41.74	12.950		
5,700.00	5,660.25	5,671.72	5,656.78	22.98	21.05	-140.02	321.36	268.15	550.58	508.08	42.50	12.956		
5,800.00	5,759.49	5,771.21	5,755.98	23.40	21.43	-140.07	326.91	273.17	560.66	517.41	43.25	12.962		
5,900.00	5,858.72	5,870.70	5,855.19	23.81	21.80	-140.11	332.45	278.19	570.75	526.74	44.01	12.968		
6,000.00	5,957.96	5,970.19	5,954.40	24.23	22.18	-140.15	338.00	283.21	580.83	536.06	44.77	12.974		
6,100.00	6,057.20	6,069.67	6,053.61	24.64	22.55	-140.19	343.54	288.23	590.92	545.39	45.53	12.979		
6,200.00	6,156.44	6,169.16	6,152.81	25.05	22.93	-140.22	349.09	293.25	601.01	554.72	46.29	12.984		
6,300.00	6,255.67	6,268.65	6,252.02	25.47	23.30	-140.26	354.64	298.27	611.09	564.05	47.04	12.990		
6,400.00	6,354.91	6,368.14	6,351.23	25.88	23.68	-140.30	360.18	303.29	621.18	573.38	47.80	12.995		
6,500.00	6,454.15	6,467.63	6,450.44	26.30	24.05	-140.33	365.73	308.31	631.27	582.71	48.56	12.999		
6,600.00	6,553.39	6,567.12	6,549.64	26.71	24.43	-140.36	371.27	313.33	641.36	592.04	49.32	13.004		
6,700.00	6,652.62	6,666.61	6,648.85	27.13	24.80	-140.40	376.82	318.35	651.45	601.37	50.08	13.009		
6,800.00	6,751.86	6,766.10	6,748.06	27.54	25.18	-140.43	382.37	323.37	661.53	610.70	50.84	13.013		
6,900.00	6,851.10	6,865.59	6,847.27	27.96	25.56	-140.46	387.91	328.39	671.62	620.03	51.59	13.017		
7,000.00	6,950.34	6,965.08	6,946.47	28.37	25.93	-140.49	393.46	333.41	681.71	629.36	52.35	13.022		
7,100.00	7,049.57	7,064.57	7,045.68	28.79	26.31	-140.52	399.00	338.43	691.80	638.69	53.11	13.026		
7,200.00	7,148.81	7,164.06	7,144.89	29.20	26.68	-140.54	404.55	343.45	701.89	648.02	53.87	13.029		
7,283.93	7,232.10	7,247.55	7,228.15	29.55	27.00	-140.57	409.20	347.66	710.35	655.85	54.51	13.033		
7,300.00	7,248.07	7,263.56	7,244.11	29.61	27.06	-142.83	410.10	348.47	711.82	657.20	54.63	13.031		
7,350.00	7,297.99	7,313.42	7,293.83	29.79	27.25	161.05	412.88	350.99	714.42	659.43	55.00	12.990		
7,400.00	7,347.93	7,363.08	7,343.35	29.93	27.43	58.59	415.64	353.49	714.07	658.71	55.36	12.990		
7,450.00	7,397.53	7,412.18	7,392.31	30.03	27.62	53.70	418.38	355.97	710.83	655.13	55.70	12.762		
7,500.00	7,446.40	7,500.00	7,559.07	30.12	27.95	57.41	427.40	386.09	700.85	644.89	55.96	12.525		
7,550.00	7,494.17	7,775.58	7,728.39	30.19	29.32	69.53	435.71	476.31	679.91	624.24	55.68	12.212		
7,600.00	7,540.48	7,852.76	7,785.93	30.24	29.80	78.17	438.25	527.59	655.39	599.59	55.80	11.746		
7,650.00	7,584.98	7,889.18	7,810.58	30.28	30.05	84.03	439.27	554.38	631.32	574.87	56.45	11.183		
7,700.00	7,627.32	7,904.43	7,820.39	30.31	30.15	87.75	439.66	566.05	609.42	552.12	57.30	10.635		
7,750.00	7,667.19	7,907.68	7,822.44	30.33	30.17	89.95	439.74	568.57	590.58	532.43	58.15	10.156		
7,800.00	7,704.28	7,903.57	7,819.84	30.36	30.14	90.99	439.64	565.38	575.35	516.47	58.88	9.772		
7,850.00	7,738.31	7,894.65	7,814.13	30.40	30.08	91.13	439.41	558.53	564.07	504.65	59.42	9.492		
7,900.00	7,769.02	7,882.44	7,806.15	30.45	30.00	90.54	439.09	549.30	556.90	497.14	59.75	9.320		
7,950.00	7,796.17	7,867.87	7,796.37	30.52	29.90	89.33	438.69	538.52	553.83	493.97	59.86	9.251		
7,963.22	7,802.73	7,863.71	7,793.52	30.55	29.87	88.92	438.57	535.48	553.69	493.83	59.86	9.249 SF		
8,000.00	7,819.57	7,851.58	7,785.10	30.63	29.79	87.59	438.21	526.75	554.74	494.94	59.79	9.278		
8,050.00	7,839.03	7,833.97	7,772.57	30.76	29.68	85.41	437.68	514.40	559.34	499.74	59.60	9.385		
8,100.00	7,854.40	7,815.35	7,758.90	30.94	29.56	82.85	437.08	501.77	567.27	507.95	59.32	9.563		
8,150.00	7,865.57	7,795.93	7,744.22	31.15	29.44	79.99	436.43	489.07	578.10	519.09	59.01	9.796		
8,200.00	7,872.45	7,775.86	7,728.61	31.41	29.32	76.91	435.72	476.49	591.36	532.63	58.73	10.069		
8,254.13	7,875.00	7,753.56	7,710.76	31.72	29.19	73.42	434.90	463.15	607.89	549.41	58.47	10.396		
8,300.00	7,875.00	7,735.30	7,695.76	32.03	29.09	71.98	434.20	452.75	623.81	565.50	58.31	10.698		
8,400.00	7,875.00	7,700.00	7,665.87	32.86	28.90	69.17	432.77	434.04	666.00	607.90	58.10	11.463		
8,500.00	7,875.00	7,672.09	7,641.46	33.88	28.76	66.94	431.58	420.56	717.48	659.40	58.08	12.352		
8,600.00	7,875.00	7,650.00	7,621.69	35.09	28.65	65.18	430.60	410.75	776.90	718.71	58.19	13.351		
8,700.00	7,875.00	7,627.66	7,601.34	36.45	28.54	63.41	429.57	401.62	842.89	784.61	58.29	14.461		
8,800.00	7,875.00	7,600.00	7,575.66	37.96	28.41	61.24	428.26	391.41	914.40	856.10	58.30	15.686		
8,900.00	7,875.00	7,600.00	7,575.66	39.60	28.41	61.24	428.26	391.41	990.04	931.39	58.65	16.881		
9,000.00	7,875.00	7,581.91	7,558.62	41.34	28.33	59.84	427.38	385.42	1,069.30	1,010.57	58.73	18.206		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 1BH - OWB - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,875.00	7,570.33	7,547.61	43.19	28.27	58.96	426.81	381.86	1,151.48	1,092.62	58.86	19.562			
9,200.00	7,875.00	7,550.00	7,528.13	45.12	28.18	57.43	425.79	376.17	1,236.14	1,177.25	58.89	20.992			
9,300.00	7,875.00	7,550.00	7,528.13	47.12	28.18	57.43	425.79	376.17	1,322.52	1,263.45	59.07	22.390			
9,400.00	7,875.00	7,550.00	7,528.13	49.19	28.18	57.43	425.79	376.17	1,410.70	1,351.49	59.21	23.824			
9,500.00	7,875.00	7,550.00	7,528.13	51.32	28.18	57.43	425.79	376.17	1,500.36	1,441.03	59.33	25.289			
9,600.00	7,875.00	7,528.71	7,507.52	53.50	28.09	55.86	424.69	370.94	1,590.74	1,531.44	59.30	26.825			
9,700.00	7,875.00	7,522.64	7,501.61	55.72	28.06	55.42	424.38	369.60	1,682.35	1,622.99	59.36	28.343			
9,800.00	7,875.00	7,500.00	7,479.45	57.98	27.96	53.80	423.19	365.12	1,775.11	1,715.79	59.32	29.927			
9,900.00	7,875.00	7,500.00	7,479.45	60.28	27.96	53.80	423.19	365.12	1,868.10	1,808.71	59.39	31.455			
10,000.00	7,875.00	7,500.00	7,479.45	62.61	27.96	53.80	423.19	365.12	1,961.79	1,902.33	59.45	32.997			
10,100.00	7,875.00	7,500.00	7,479.45	64.97	27.96	53.80	423.19	365.12	2,056.07	1,996.56	59.51	34.551			
10,200.00	7,875.00	7,500.00	7,479.45	67.35	27.96	53.80	423.19	365.12	2,150.86	2,091.31	59.56	36.115			
10,300.00	7,875.00	7,500.00	7,479.45	69.75	27.96	53.80	423.19	365.12	2,246.11	2,186.51	59.60	37.687			
10,400.00	7,875.00	7,500.00	7,479.45	72.18	27.96	53.80	423.19	365.12	2,341.75	2,282.12	59.64	39.267			
10,500.00	7,875.00	7,500.00	7,479.45	74.62	27.96	53.80	423.19	365.12	2,437.75	2,378.08	59.67	40.853			
10,600.00	7,875.00	7,500.00	7,479.45	77.08	27.96	53.80	423.19	365.12	2,534.05	2,474.35	59.70	42.444			
10,700.00	7,875.00	7,500.00	7,479.45	79.56	27.96	53.80	423.19	365.12	2,630.63	2,570.90	59.73	44.040			
10,800.00	7,875.00	7,480.22	7,459.95	82.05	27.88	52.42	422.13	361.93	2,727.05	2,667.34	59.71	45.675			
10,900.00	7,875.00	7,477.73	7,457.50	84.55	27.87	52.25	421.99	361.58	2,823.99	2,764.26	59.73	47.281			
11,000.00	7,875.00	7,475.39	7,455.18	87.06	27.87	52.09	421.87	361.26	2,921.13	2,861.38	59.75	48.889			
11,100.00	7,875.00	7,473.18	7,452.99	89.58	27.86	51.94	421.75	360.96	3,018.44	2,958.67	59.77	50.499			
11,200.00	7,875.00	7,471.09	7,450.92	92.11	27.85	51.80	421.63	360.69	3,115.91	3,056.12	59.80	52.110			
11,300.00	7,875.00	7,450.00	7,429.99	94.66	27.76	50.39	420.48	358.37	3,213.90	3,154.13	59.77	53.772			
11,400.00	7,875.00	7,450.00	7,429.99	97.20	27.76	50.39	420.48	358.37	3,311.59	3,251.79	59.80	55.380			
11,500.00	7,875.00	7,450.00	7,429.99	99.76	27.76	50.39	420.48	358.37	3,409.41	3,349.58	59.83	56.988			
11,600.00	7,875.00	7,450.00	7,429.99	102.32	27.76	50.39	420.48	358.37	3,507.35	3,447.50	59.86	58.597			
11,700.00	7,875.00	7,450.00	7,429.99	104.89	27.76	50.39	420.48	358.37	3,605.41	3,545.52	59.88	60.207			
11,800.00	7,875.00	7,450.00	7,429.99	107.47	27.76	50.39	420.48	358.37	3,703.57	3,643.65	59.91	61.816			
11,900.00	7,875.00	7,450.00	7,429.99	110.05	27.76	50.39	420.48	358.37	3,801.82	3,741.88	59.94	63.426			
12,000.00	7,875.00	7,450.00	7,429.99	112.64	27.76	50.39	420.48	358.37	3,900.17	3,840.20	59.97	65.035			
12,100.00	7,875.00	7,450.00	7,429.99	115.23	27.76	50.39	420.48	358.37	3,998.59	3,938.59	60.00	66.643			
12,200.00	7,875.00	7,450.00	7,429.99	117.82	27.76	50.39	420.48	358.37	4,097.10	4,037.07	60.03	68.250			
12,300.00	7,875.00	7,450.00	7,429.99	120.42	27.76	50.39	420.48	358.37	4,195.67	4,135.61	60.06	69.857			
12,400.00	7,875.00	7,450.00	7,429.99	123.03	27.76	50.39	420.48	358.37	4,294.31	4,234.22	60.09	71.462			
12,500.00	7,875.00	7,450.00	7,429.99	125.64	27.76	50.39	420.48	358.37	4,393.01	4,332.89	60.12	73.066			
12,600.00	7,875.00	7,450.00	7,429.99	128.25	27.76	50.39	420.48	358.37	4,491.77	4,431.61	60.16	74.669			
12,700.00	7,875.00	7,450.00	7,429.99	130.86	27.76	50.39	420.48	358.37	4,590.58	4,530.39	60.19	76.269			
12,800.00	7,875.00	7,450.00	7,429.99	133.48	27.76	50.39	420.48	358.37	4,689.44	4,629.22	60.22	77.869			
12,900.00	7,875.00	7,450.00	7,429.99	136.10	27.76	50.39	420.48	358.37	4,788.35	4,728.09	60.26	79.466			
13,000.00	7,875.00	7,450.00	7,429.99	138.72	27.76	50.39	420.48	358.37	4,887.31	4,827.01	60.29	81.061			
13,100.00	7,875.00	7,450.00	7,429.99	141.35	27.76	50.39	420.48	358.37	4,986.30	4,925.97	60.33	82.654			
13,200.00	7,875.00	7,450.00	7,429.99	143.98	27.76	50.39	420.48	358.37	5,085.34	5,024.97	60.36	84.245			
13,300.00	7,875.00	7,450.00	7,429.99	146.61	27.76	50.39	420.48	358.37	5,184.41	5,124.01	60.40	85.833			
13,400.00	7,875.00	7,450.00	7,429.99	149.24	27.76	50.39	420.48	358.37	5,283.52	5,223.08	60.44	87.420			
13,500.00	7,875.00	7,450.00	7,429.99	151.87	27.76	50.39	420.48	358.37	5,382.66	5,322.18	60.48	89.003			
13,600.00	7,875.00	7,450.00	7,429.99	154.51	27.76	50.39	420.48	358.37	5,481.83	5,421.31	60.52	90.584			
13,700.00	7,875.00	7,450.00	7,429.99	157.15	27.76	50.39	420.48	358.37	5,581.03	5,520.47	60.56	92.162			
13,800.00	7,875.00	7,450.00	7,429.99	159.79	27.76	50.39	420.48	358.37	5,680.26	5,619.66	60.60	93.738			
13,900.00	7,875.00	7,450.00	7,429.99	162.43	27.76	50.39	420.48	358.37	5,779.51	5,718.87	60.64	95.310			
14,000.00	7,875.00	7,438.89	7,418.94	165.07	27.72	49.67	419.87	357.46	5,878.68	5,818.01	60.66	96.910			
14,100.00	7,875.00	7,438.25	7,418.30	167.72	27.72	49.63	419.83	357.41	5,977.97	5,917.26	60.70	98.478			
14,200.00	7,875.00	7,437.63	7,417.68	170.36	27.72	49.58	419.80	357.37	6,077.28	6,016.53	60.75	100.044			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,875.00	7,437.03	7,417.08	173.01	27.71	49.55	419.76	357.33	6,176.62	6,115.83	60.79	101.606		
14,400.00	7,875.00	7,426.28	7,406.37	175.66	27.67	48.86	419.17	356.68	6,276.07	6,215.25	60.82	103.197		
14,500.00	7,875.00	7,426.28	7,406.37	178.31	27.67	48.86	419.17	356.68	6,375.43	6,314.57	60.86	104.752		
14,600.00	7,875.00	7,426.28	7,406.37	180.96	27.67	48.86	419.17	356.68	6,474.82	6,413.91	60.91	106.303		
14,700.00	7,875.00	7,426.28	7,406.37	183.61	27.67	48.86	419.17	356.68	6,574.22	6,513.26	60.96	107.850		
14,800.00	7,875.00	7,426.28	7,406.37	186.27	27.67	48.86	419.17	356.68	6,673.64	6,612.63	61.01	109.394		
14,900.00	7,875.00	7,426.28	7,406.37	188.92	27.67	48.86	419.17	356.68	6,773.08	6,712.02	61.05	110.935		
15,000.00	7,875.00	7,426.28	7,406.37	191.58	27.67	48.86	419.17	356.68	6,872.53	6,811.43	61.10	112.472		
15,100.00	7,875.00	7,426.28	7,406.37	194.24	27.67	48.86	419.17	356.68	6,972.00	6,910.85	61.16	114.005		
15,200.00	7,875.00	7,426.28	7,406.37	196.89	27.67	48.86	419.17	356.68	7,071.48	7,010.28	61.21	115.535		
15,300.00	7,875.00	7,426.28	7,406.37	199.55	27.67	48.86	419.17	356.68	7,170.98	7,109.72	61.26	117.060		
15,400.00	7,875.00	7,426.28	7,406.37	202.21	27.67	48.86	419.17	356.68	7,270.50	7,209.18	61.31	118.583		
15,500.00	7,875.00	7,426.28	7,406.37	204.87	27.67	48.86	419.17	356.68	7,370.02	7,308.66	61.37	120.101		
15,600.00	7,875.00	7,426.28	7,406.37	207.53	27.67	48.86	419.17	356.68	7,469.56	7,408.14	61.42	121.615		
15,700.00	7,875.00	7,426.28	7,406.37	210.20	27.67	48.86	419.17	356.68	7,569.11	7,507.64	61.47	123.126		
15,800.00	7,875.00	7,426.28	7,406.37	212.86	27.67	48.86	419.17	356.68	7,668.67	7,607.14	61.53	124.632		
15,900.00	7,875.00	7,426.28	7,406.37	215.52	27.67	48.86	419.17	356.68	7,768.25	7,706.66	61.59	126.135		
16,000.00	7,875.00	7,426.28	7,406.37	218.19	27.67	48.86	419.17	356.68	7,867.83	7,806.19	61.64	127.633		
16,100.00	7,875.00	7,426.28	7,406.37	220.85	27.67	48.86	419.17	356.68	7,967.42	7,905.72	61.70	129.128		
16,200.00	7,875.00	7,426.28	7,406.37	223.52	27.67	48.86	419.17	356.68	8,067.03	8,005.27	61.76	130.618		
16,300.00	7,875.00	7,426.28	7,406.37	226.18	27.67	48.86	419.17	356.68	8,166.64	8,104.82	61.82	132.104		
16,400.00	7,875.00	7,426.28	7,406.37	228.85	27.67	48.86	419.17	356.68	8,266.27	8,204.39	61.88	133.586		
16,500.00	7,875.00	7,426.28	7,406.37	231.52	27.67	48.86	419.17	356.68	8,365.90	8,303.96	61.94	135.063		
16,600.00	7,875.00	7,426.28	7,406.37	234.18	27.67	48.86	419.17	356.68	8,465.54	8,403.54	62.00	136.537		
16,700.00	7,875.00	7,426.28	7,406.37	236.85	27.67	48.86	419.17	356.68	8,565.19	8,503.13	62.06	138.006		
16,800.00	7,875.00	7,425.23	7,405.32	239.52	27.67	48.79	419.11	356.63	8,664.85	8,602.72	62.12	139.475		
16,900.00	7,875.00	7,420.15	7,400.26	242.19	27.65	48.47	418.83	356.37	8,764.51	8,702.33	62.18	140.955		
17,000.00	7,875.00	7,415.07	7,395.19	244.86	27.63	48.16	418.54	356.12	8,864.18	8,801.95	62.23	142.431		
17,100.00	7,875.00	7,409.99	7,390.13	247.53	27.61	47.84	418.26	355.86	8,963.85	8,901.56	62.29	143.904		
17,200.00	7,875.00	7,404.91	7,385.07	250.20	27.59	47.53	417.98	355.61	9,063.53	9,001.18	62.35	145.372		
17,300.00	7,875.00	7,400.16	7,380.00	252.87	27.57	47.22	417.69	355.35	9,163.21	9,100.81	62.41	146.833		
17,400.00	7,875.00	7,394.76	7,374.94	255.54	27.55	46.92	417.41	355.09	9,262.90	9,200.43	62.46	148.295		
17,500.00	7,875.00	7,389.68	7,369.87	258.21	27.53	46.61	417.13	354.84	9,362.59	9,300.07	62.52	149.751		
17,600.00	7,875.00	7,384.60	7,364.81	260.89	27.51	46.31	416.84	354.58	9,462.28	9,399.70	62.58	151.202		
17,700.00	7,875.00	7,379.52	7,359.75	263.56	27.50	46.01	416.56	354.32	9,561.98	9,499.34	62.64	152.649		
17,800.00	7,875.00	7,374.45	7,354.68	266.23	27.48	45.72	416.28	354.07	9,661.68	9,598.98	62.70	154.092		
17,900.00	7,875.00	7,369.37	7,349.62	268.91	27.46	45.43	415.99	353.81	9,761.38	9,698.62	62.76	155.530		
18,000.00	7,875.00	7,364.29	7,344.56	271.58	27.44	45.14	415.71	353.56	9,861.09	9,798.26	62.82	156.964		
18,100.00	7,875.00	7,359.21	7,339.49	274.25	27.42	44.85	415.43	353.30	9,960.80	9,897.91	62.89	158.394		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	4.70	-4.70	0.00	0.01	179.35	-24.77	0.28	24.78					
100.00	100.00	104.70	95.30	0.13	0.15	179.35	-24.77	0.28	24.78	24.49	0.29	86.720		
200.00	200.00	204.70	195.30	0.49	0.51	179.35	-24.77	0.28	24.78	23.77	1.00	24.711		
250.00	250.00	245.30	245.30	0.67	0.66	179.35	-24.77	0.28	24.78	23.45	1.33	18.665 CC		
300.00	300.00	294.94	294.94	0.85	0.83	82.94	-25.10	0.42	25.05	23.37	1.67	14.965 ES		
400.00	399.93	394.06	394.00	1.20	1.17	87.33	-28.10	1.71	27.73	25.37	2.36	11.740		
500.00	499.68	492.92	492.63	1.56	1.52	93.72	-34.24	4.33	33.61	30.54	3.07	10.935 SF		
603.98	603.08	595.26	594.42	1.95	1.90	100.00	-43.88	8.45	43.44	39.60	3.84	11.312		
700.00	698.37	690.19	688.57	2.33	2.27	103.77	-55.10	13.25	55.03	50.46	4.57	12.038		
800.00	797.61	789.39	786.93	2.73	2.67	106.23	-66.95	18.32	67.37	62.02	5.35	12.599		
900.00	896.84	888.59	885.29	3.13	3.08	107.92	-78.81	23.40	79.79	73.66	6.13	13.013		
1,000.00	996.08	987.80	983.65	3.54	3.49	109.16	-90.67	28.47	92.26	85.34	6.92	13.330		
1,100.00	1,095.32	1,087.00	1,082.01	3.95	3.90	110.10	-102.52	33.54	104.76	97.05	7.72	13.579		
1,200.00	1,194.56	1,186.20	1,180.37	4.36	4.31	110.84	-114.38	38.61	117.29	108.78	8.51	13.779		
1,300.00	1,293.79	1,285.40	1,278.73	4.77	4.73	111.44	-126.23	43.68	129.83	120.52	9.31	13.943		
1,400.00	1,393.03	1,384.61	1,377.09	5.18	5.14	111.93	-138.09	48.75	142.38	132.27	10.11	14.081		
1,500.00	1,492.27	1,483.81	1,475.45	5.59	5.56	112.35	-149.94	53.82	154.94	144.03	10.91	14.197		
1,600.00	1,591.51	1,583.01	1,573.81	6.00	5.98	112.70	-161.80	58.89	167.51	155.79	11.72	14.297		
1,700.00	1,690.74	1,682.21	1,672.17	6.41	6.39	113.00	-173.65	63.97	180.08	167.56	12.52	14.383		
1,800.00	1,789.98	1,781.42	1,770.53	6.83	6.81	113.26	-185.51	69.04	192.66	179.33	13.32	14.458		
1,900.00	1,889.22	1,880.62	1,868.90	7.24	7.23	113.49	-197.36	74.11	205.24	191.11	14.13	14.525		
2,000.00	1,988.46	1,979.82	1,967.26	7.65	7.65	113.69	-209.22	79.18	217.82	202.89	14.94	14.584		
2,100.00	2,087.69	2,079.02	2,065.62	8.07	8.06	113.88	-221.08	84.25	230.41	214.67	15.74	14.637		
2,200.00	2,186.93	2,178.22	2,163.98	8.48	8.48	114.04	-232.93	89.32	243.00	226.45	16.55	14.685		
2,300.00	2,286.17	2,277.43	2,262.34	8.89	8.90	114.18	-244.79	94.39	255.58	238.23	17.35	14.728		
2,400.00	2,385.41	2,376.63	2,360.70	9.31	9.32	114.32	-256.64	99.46	268.18	250.01	18.16	14.767		
2,500.00	2,484.64	2,475.83	2,459.06	9.72	9.74	114.44	-268.50	104.54	280.77	261.80	18.97	14.802		
2,600.00	2,583.88	2,575.03	2,557.42	10.13	10.16	114.55	-280.35	109.61	293.36	273.59	19.78	14.835		
2,700.00	2,683.12	2,674.24	2,655.78	10.55	10.58	114.65	-292.21	114.68	305.96	285.37	20.58	14.865		
2,800.00	2,782.36	2,773.44	2,754.14	10.96	11.00	114.74	-304.06	119.75	318.55	297.16	21.39	14.893		
2,900.00	2,881.59	2,872.64	2,852.50	11.38	11.42	114.83	-315.92	124.82	331.15	308.95	22.20	14.918		
3,000.00	2,980.83	2,971.84	2,950.86	11.79	11.84	114.91	-327.78	129.89	343.74	320.74	23.01	14.942		
3,100.00	3,080.07	3,071.05	3,049.22	12.21	12.26	114.98	-339.63	134.96	356.34	332.53	23.81	14.964		
3,200.00	3,179.31	3,170.25	3,147.59	12.62	12.67	115.05	-351.49	140.03	368.94	344.32	24.62	14.984		
3,300.00	3,278.55	3,269.45	3,245.95	13.03	13.09	115.12	-363.34	145.11	381.54	356.11	25.43	15.004		
3,400.00	3,377.78	3,368.65	3,344.31	13.45	13.51	115.18	-375.20	150.18	394.14	367.90	26.24	15.022		
3,500.00	3,477.02	3,467.86	3,442.67	13.86	13.93	115.24	-387.05	155.25	406.73	379.69	27.05	15.039		
3,600.00	3,576.26	3,567.06	3,541.03	14.28	14.35	115.29	-398.91	160.32	419.33	391.48	27.85	15.055		
3,700.00	3,675.50	3,666.26	3,639.39	14.69	14.77	115.34	-410.76	165.39	431.93	403.27	28.66	15.069		
3,800.00	3,774.73	3,765.46	3,737.75	15.11	15.19	115.39	-422.62	170.46	444.53	415.06	29.47	15.084		
3,900.00	3,873.97	3,864.66	3,836.11	15.52	15.61	115.43	-434.47	175.53	457.13	426.85	30.28	15.097		
4,000.00	3,973.21	3,963.87	3,934.47	15.93	16.03	115.47	-446.33	180.60	469.73	438.65	31.09	15.110		
4,100.00	4,072.45	4,063.07	4,032.83	16.35	16.45	115.51	-458.19	185.68	482.34	450.44	31.90	15.122		
4,200.00	4,171.68	4,162.27	4,131.19	16.76	16.87	115.55	-470.04	190.75	494.94	462.23	32.71	15.133		
4,300.00	4,270.92	4,261.47	4,229.55	17.18	17.29	115.59	-481.90	195.82	507.54	474.02	33.51	15.144		
4,400.00	4,370.16	4,360.68	4,327.91	17.59	17.71	115.62	-493.75	200.89	520.14	485.82	34.32	15.154		
4,500.00	4,469.40	4,459.88	4,426.27	18.01	18.13	115.66	-505.61	205.96	532.74	497.61	35.13	15.164		
4,600.00	4,568.63	4,559.08	4,524.64	18.42	18.55	115.69	-517.46	211.03	545.34	509.40	35.94	15.173		
4,700.00	4,667.87	4,658.28	4,623.00	18.84	18.97	115.72	-529.32	216.10	557.95	521.20	36.75	15.182		
4,800.00	4,767.11	4,757.49	4,721.36	19.25	19.39	115.75	-541.17	221.17	570.55	532.99	37.56	15.191		
4,900.00	4,866.35	4,856.69	4,819.72	19.66	19.81	115.77	-553.03	226.25	583.15	544.78	38.37	15.199		
5,000.00	4,965.58	4,955.89	4,918.08	20.08	20.23	115.80	-564.89	231.32	595.75	556.58	39.18	15.207		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 2BH - 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	5,064.82	5,055.09	5,016.44	20.49	20.65	115.82	-576.74	236.39	608.36	568.37	39.99	15.214			
5,200.00	5,164.06	5,154.30	5,114.80	20.91	21.07	115.85	-588.60	241.46	620.96	580.16	40.80	15.221			
5,300.00	5,263.30	5,253.50	5,213.16	21.32	21.49	115.87	-600.45	246.53	633.56	591.96	41.60	15.228			
5,400.00	5,362.53	5,352.70	5,311.52	21.74	21.91	115.89	-612.31	251.60	646.16	603.75	42.41	15.235			
5,500.00	5,461.77	5,451.90	5,409.88	22.15	22.33	115.92	-624.16	256.67	658.77	615.54	43.22	15.241			
5,600.00	5,561.01	5,551.10	5,508.24	22.57	22.75	115.94	-636.02	261.74	671.37	627.34	44.03	15.247			
5,700.00	5,660.25	5,650.31	5,606.60	22.98	23.17	115.96	-647.87	266.82	683.97	639.13	44.84	15.253			
5,800.00	5,759.49	5,749.51	5,704.96	23.40	23.59	115.98	-659.73	271.89	696.58	650.93	45.65	15.259			
5,900.00	5,858.72	5,848.71	5,803.33	23.81	24.01	115.99	-671.59	276.96	709.18	662.72	46.46	15.264			
6,000.00	5,957.96	5,947.91	5,901.69	24.23	24.43	116.01	-683.44	282.03	721.78	674.51	47.27	15.269			
6,100.00	6,057.20	6,047.12	6,000.05	24.64	24.85	116.03	-695.30	287.10	734.39	686.31	48.08	15.275			
6,200.00	6,156.44	6,146.32	6,098.41	25.05	25.27	116.05	-707.15	292.17	746.99	698.10	48.89	15.279			
6,300.00	6,255.67	6,245.52	6,196.77	25.47	25.69	116.06	-719.01	297.24	759.59	709.90	49.70	15.284			
6,400.00	6,354.91	6,344.72	6,295.13	25.88	26.11	116.08	-730.86	302.32	772.20	721.69	50.51	15.289			
6,500.00	6,454.15	6,443.93	6,393.49	26.30	26.53	116.09	-742.72	307.39	784.80	733.48	51.32	15.293			
6,600.00	6,553.39	6,543.13	6,491.85	26.71	26.95	116.11	-754.57	312.46	797.40	745.28	52.13	15.297			
6,700.00	6,652.62	6,642.33	6,590.21	27.13	27.37	116.12	-766.43	317.53	810.01	757.07	52.94	15.302			
6,800.00	6,751.86	6,741.53	6,688.57	27.54	27.79	116.13	-778.28	322.60	822.61	768.87	53.75	15.306			
6,900.00	6,851.10	6,840.74	6,786.93	27.96	28.21	116.15	-790.14	327.67	835.22	780.66	54.56	15.310			
7,000.00	6,950.34	6,939.94	6,885.29	28.37	28.63	116.16	-802.00	332.74	847.82	792.45	55.36	15.313			
7,100.00	7,049.57	7,039.14	6,983.65	28.79	29.05	116.17	-813.85	337.81	860.42	804.25	56.17	15.317			
7,200.00	7,148.81	7,138.34	7,082.01	29.20	29.47	116.18	-825.71	342.89	873.03	816.04	56.98	15.320			
7,283.93	7,232.10	7,221.60	7,164.57	29.55	29.83	116.19	-835.66	347.14	883.61	825.94	57.66	15.323			
7,300.00	7,248.07	7,237.56	7,180.39	29.61	29.90	114.17	-837.56	347.96	885.51	827.72	57.79	15.322			
7,350.00	7,297.99	7,287.27	7,229.68	29.79	30.11	58.22	-843.51	350.50	889.83	831.66	58.17	15.298			
7,400.00	7,347.93	7,336.80	7,278.79	29.93	30.32	-44.96	-849.42	353.03	891.75	833.25	58.50	15.244			
7,450.00	7,397.53	7,385.76	7,327.33	30.03	30.52	-51.46	-855.27	355.53	891.32	832.52	58.80	15.159			
7,500.00	7,446.40	7,433.78	7,374.94	30.12	30.73	-54.38	-861.01	357.99	888.68	829.61	59.07	15.045			
7,550.00	7,494.17	7,550.00	7,432.52	30.19	31.22	-57.04	-867.96	361.52	883.80	824.17	59.63	14.821			
7,600.00	7,540.48	7,600.00	7,572.71	30.24	31.47	-63.69	-885.20	392.70	872.97	813.14	59.83	14.591			
7,650.00	7,584.98	7,757.00	7,680.03	30.28	32.26	-71.78	-898.77	444.06	858.50	798.36	60.14	14.274			
7,700.00	7,627.32	7,807.25	7,721.27	30.31	32.53	-76.76	-904.11	472.23	843.47	783.21	60.26	13.997			
7,750.00	7,667.19	7,833.78	7,742.02	30.33	32.67	-80.18	-906.83	488.55	829.57	769.18	60.39	13.737			
7,800.00	7,704.28	7,845.86	7,751.21	30.36	32.74	-82.39	-908.04	496.29	817.61	757.14	60.47	13.520			
7,850.00	7,738.31	7,848.70	7,753.34	30.40	32.76	-83.67	-908.32	498.14	808.06	747.57	60.49	13.360			
7,900.00	7,769.02	7,845.35	7,750.82	30.45	32.74	-84.21	-907.99	495.96	801.12	740.70	60.41	13.260			
7,950.00	7,796.17	7,837.69	7,745.01	30.52	32.70	-84.15	-907.22	491.03	796.86	736.59	60.27	13.222			
8,000.00	7,819.57	7,826.92	7,736.72	30.63	32.64	-83.59	-906.13	484.23	795.27	735.20	60.06	13.240			
8,005.76	7,822.01	7,825.52	7,735.64	30.64	32.63	-83.50	-905.99	483.36	795.25	735.21	60.04	13.245			
8,050.00	7,839.03	7,813.84	7,726.49	30.76	32.56	-82.63	-904.79	476.19	796.23	736.40	59.83	13.308			
8,100.00	7,854.40	7,799.00	7,714.67	30.94	32.48	-81.31	-903.25	467.36	799.57	739.98	59.59	13.418			
8,150.00	7,865.57	7,782.80	7,701.51	31.15	32.39	-79.70	-901.55	458.07	805.09	745.72	59.38	13.559			
8,200.00	7,872.45	7,765.52	7,687.19	31.41	32.30	-77.86	-899.70	448.58	812.54	753.33	59.21	13.723			
8,254.13	7,875.00	7,745.84	7,670.54	31.72	32.20	-75.65	-897.56	438.30	822.46	763.37	59.09	13.918			
8,300.00	7,875.00	7,729.62	7,656.56	32.03	32.11	-74.66	-895.77	430.27	832.58	773.52	59.06	14.097			
8,400.00	7,875.00	7,700.00	7,630.47	32.86	31.96	-72.82	-892.45	416.66	861.42	802.23	59.19	14.553			
8,500.00	7,875.00	7,674.34	7,607.33	33.88	31.83	-71.20	-889.53	405.97	899.16	839.64	59.52	15.106			
8,600.00	7,875.00	7,650.00	7,584.96	35.09	31.71	-69.66	-886.72	396.81	945.07	885.11	59.95	15.763			
8,700.00	7,875.00	7,636.14	7,572.05	36.45	31.64	-68.78	-885.11	392.02	998.19	937.64	60.55	16.486			
8,800.00	7,875.00	7,621.23	7,558.05	37.96	31.57	-67.83	-883.36	387.22	1,057.62	996.51	61.11	17.307			
8,900.00	7,875.00	7,600.00	7,537.89	39.60	31.47	-66.48	-880.86	381.03	1,122.52	1,060.95	61.57	18.233			
9,000.00	7,875.00	7,600.00	7,537.89	41.34	31.47	-66.48	-880.86	381.03	1,191.86	1,129.67	62.19	19.164			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 2BH - OWB - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,875.00	7,600.00	7,537.89	43.19	31.47	-66.48	-880.86	381.03	1,265.31	1,202.57	62.74	20.167			
9,200.00	7,875.00	7,578.74	7,517.50	45.12	31.37	-65.14	-878.34	375.59	1,341.71	1,278.67	63.04	21.284			
9,300.00	7,875.00	7,571.03	7,510.06	47.12	31.33	-64.65	-877.42	373.80	1,421.05	1,357.65	63.40	22.413			
9,400.00	7,875.00	7,550.00	7,489.64	49.19	31.23	-63.33	-874.92	369.44	1,502.97	1,439.36	63.61	23.627			
9,500.00	7,875.00	7,550.00	7,489.64	51.32	31.23	-63.33	-874.92	369.44	1,586.54	1,522.59	63.95	24.810			
9,600.00	7,875.00	7,550.00	7,489.64	53.50	31.23	-63.33	-874.92	369.44	1,671.91	1,607.67	64.24	26.026			
9,700.00	7,875.00	7,550.00	7,489.64	55.72	31.23	-63.33	-874.92	369.44	1,758.82	1,694.33	64.49	27.272			
9,800.00	7,875.00	7,550.00	7,489.64	57.98	31.23	-63.33	-874.92	369.44	1,847.05	1,782.34	64.71	28.543			
9,900.00	7,875.00	7,550.00	7,489.64	60.28	31.23	-63.33	-874.92	369.44	1,936.43	1,871.53	64.91	29.835			
10,000.00	7,875.00	7,550.00	7,489.64	62.61	31.23	-63.33	-874.92	369.44	2,026.81	1,961.73	65.08	31.145			
10,100.00	7,875.00	7,530.67	7,470.74	64.97	31.15	-62.13	-872.60	366.11	2,117.65	2,052.53	65.12	32.518			
10,200.00	7,875.00	7,527.32	7,467.45	67.35	31.13	-61.92	-872.20	365.60	2,209.51	2,144.26	65.24	33.866			
10,300.00	7,875.00	7,524.20	7,464.39	69.75	31.12	-61.73	-871.83	365.14	2,302.02	2,236.66	65.35	35.224			
10,400.00	7,875.00	7,521.30	7,461.54	72.18	31.10	-61.55	-871.48	364.72	2,395.11	2,329.66	65.45	36.593			
10,500.00	7,875.00	7,500.00	7,440.55	74.62	31.01	-60.25	-868.93	362.14	2,489.08	2,423.63	65.45	38.031			
10,600.00	7,875.00	7,500.00	7,440.55	77.08	31.01	-60.25	-868.93	362.14	2,583.07	2,517.52	65.55	39.408			
10,700.00	7,875.00	7,500.00	7,440.55	79.56	31.01	-60.25	-868.93	362.14	2,677.49	2,611.85	65.64	40.793			
10,800.00	7,875.00	7,500.00	7,440.55	82.05	31.01	-60.25	-868.93	362.14	2,772.30	2,706.58	65.72	42.184			
10,900.00	7,875.00	7,500.00	7,440.55	84.55	31.01	-60.25	-868.93	362.14	2,867.47	2,801.67	65.80	43.581			
11,000.00	7,875.00	7,500.00	7,440.55	87.06	31.01	-60.25	-868.93	362.14	2,962.96	2,897.09	65.87	44.983			
11,100.00	7,875.00	7,500.00	7,440.55	89.58	31.01	-60.25	-868.93	362.14	3,058.73	2,992.79	65.94	46.390			
11,200.00	7,875.00	7,500.00	7,440.55	92.11	31.01	-60.25	-868.93	362.14	3,154.76	3,088.77	66.00	47.800			
11,300.00	7,875.00	7,500.00	7,440.55	94.66	31.01	-60.25	-868.93	362.14	3,251.04	3,184.98	66.06	49.214			
11,400.00	7,875.00	7,500.00	7,440.55	97.20	31.01	-60.25	-868.93	362.14	3,347.53	3,281.42	66.12	50.631			
11,500.00	7,875.00	7,500.00	7,440.55	99.76	31.01	-60.25	-868.93	362.14	3,444.23	3,378.06	66.17	52.051			
11,600.00	7,875.00	7,500.00	7,440.55	102.32	31.01	-60.25	-868.93	362.14	3,541.10	3,474.88	66.22	53.472			
11,700.00	7,875.00	7,500.00	7,440.55	104.89	31.01	-60.25	-868.93	362.14	3,638.15	3,571.87	66.27	54.895			
11,800.00	7,875.00	7,500.00	7,440.55	107.47	31.01	-60.25	-868.93	362.14	3,735.35	3,669.03	66.32	56.320			
11,900.00	7,875.00	7,500.00	7,440.55	110.05	31.01	-60.25	-868.93	362.14	3,832.70	3,766.33	66.37	57.746			
12,000.00	7,875.00	7,500.00	7,440.55	112.64	31.01	-60.25	-868.93	362.14	3,930.18	3,863.76	66.42	59.173			
12,100.00	7,875.00	7,500.00	7,440.55	115.23	31.01	-60.25	-868.93	362.14	4,027.78	3,961.31	66.46	60.600			
12,200.00	7,875.00	7,500.00	7,440.55	117.82	31.01	-60.25	-868.93	362.14	4,125.50	4,058.99	66.51	62.028			
12,300.00	7,875.00	7,500.00	7,440.55	120.42	31.01	-60.25	-868.93	362.14	4,223.32	4,156.77	66.55	63.456			
12,400.00	7,875.00	7,500.00	7,440.55	123.03	31.01	-60.25	-868.93	362.14	4,321.24	4,254.65	66.60	64.885			
12,500.00	7,875.00	7,500.00	7,440.55	125.64	31.01	-60.25	-868.93	362.14	4,419.26	4,352.62	66.64	66.313			
12,600.00	7,875.00	7,486.47	7,427.17	128.25	30.95	-59.43	-867.31	360.91	4,517.19	4,450.55	66.63	67.791			
12,700.00	7,875.00	7,485.59	7,426.31	130.86	30.95	-59.38	-867.21	360.84	4,615.35	4,548.68	66.67	69.222			
12,800.00	7,875.00	7,484.75	7,425.47	133.48	30.94	-59.33	-867.11	360.78	4,713.59	4,646.87	66.71	70.653			
12,900.00	7,875.00	7,483.94	7,424.67	136.10	30.94	-59.28	-867.01	360.71	4,811.90	4,745.14	66.75	72.083			
13,000.00	7,875.00	7,470.29	7,411.15	138.72	30.88	-58.46	-865.38	359.85	4,910.43	4,843.69	66.75	73.570			
13,100.00	7,875.00	7,470.29	7,411.15	141.35	30.88	-58.46	-865.38	359.85	5,008.85	4,942.06	66.79	74.995			
13,200.00	7,875.00	7,470.29	7,411.15	143.98	30.88	-58.46	-865.38	359.85	5,107.33	5,040.50	66.83	76.420			
13,300.00	7,875.00	7,470.29	7,411.15	146.61	30.88	-58.46	-865.38	359.85	5,205.87	5,139.00	66.88	77.843			
13,400.00	7,875.00	7,470.29	7,411.15	149.24	30.88	-58.46	-865.38	359.85	5,304.47	5,237.55	66.92	79.265			
13,500.00	7,875.00	7,470.29	7,411.15	151.87	30.88	-58.46	-865.38	359.85	5,403.12	5,336.15	66.96	80.686			
13,600.00	7,875.00	7,470.29	7,411.15	154.51	30.88	-58.46	-865.38	359.85	5,501.81	5,434.80	67.01	82.105			
13,700.00	7,875.00	7,470.29	7,411.15	157.15	30.88	-58.46	-865.38	359.85	5,600.55	5,533.50	67.05	83.523			
13,800.00	7,875.00	7,470.29	7,411.15	159.79	30.88	-58.46	-865.38	359.85	5,699.34	5,632.24	67.10	84.939			
13,900.00	7,875.00	7,470.29	7,411.15	162.43	30.88	-58.46	-865.38	359.85	5,798.17	5,731.02	67.14	86.354			
14,000.00	7,875.00	7,470.29	7,411.15	165.07	30.88	-58.46	-865.38	359.85	5,897.03	5,829.84	67.19	87.767			
14,100.00	7,875.00	7,470.29	7,411.15	167.72	30.88	-58.46	-865.38	359.85	5,995.94	5,928.70	67.24	89.178			
14,200.00	7,875.00	7,470.29	7,411.15	170.36	30.88	-58.46	-865.38	359.85	6,094.88	6,027.59	67.28	90.587			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,875.00	7,470.29	7,411.15	173.01	30.88	-58.46	-865.38	359.85	6,193.85	6,126.52	67.33	91.993		
14,400.00	7,875.00	7,470.29	7,411.15	175.66	30.88	-58.46	-865.38	359.85	6,292.86	6,225.48	67.38	93.398		
14,500.00	7,875.00	7,470.29	7,411.15	178.31	30.88	-58.46	-865.38	359.85	6,391.89	6,324.47	67.42	94.801		
14,600.00	7,875.00	7,470.29	7,411.15	180.96	30.88	-58.46	-865.38	359.85	6,490.96	6,423.49	67.47	96.202		
14,700.00	7,875.00	7,470.29	7,411.15	183.61	30.88	-58.46	-865.38	359.85	6,590.06	6,522.53	67.52	97.600		
14,800.00	7,875.00	7,470.29	7,411.15	186.27	30.88	-58.46	-865.38	359.85	6,689.18	6,621.61	67.57	98.996		
14,900.00	7,875.00	7,470.29	7,411.15	188.92	30.88	-58.46	-865.38	359.85	6,788.33	6,720.71	67.62	100.389		
15,000.00	7,875.00	7,470.29	7,411.15	191.58	30.88	-58.46	-865.38	359.85	6,887.50	6,819.83	67.67	101.781		
15,100.00	7,875.00	7,470.29	7,411.15	194.24	30.88	-58.46	-865.38	359.85	6,986.69	6,918.97	67.72	103.169		
15,200.00	7,875.00	7,470.29	7,411.15	196.89	30.88	-58.46	-865.38	359.85	7,085.91	7,018.14	67.77	104.555		
15,300.00	7,875.00	7,476.26	7,417.06	199.55	30.91	-58.82	-866.09	360.16	7,185.15	7,117.30	67.85	105.905		
15,400.00	7,875.00	7,471.22	7,412.06	202.21	30.88	-58.52	-865.49	359.90	7,284.41	7,216.53	67.88	107.315		
15,500.00	7,875.00	7,466.17	7,407.06	204.87	30.86	-58.22	-864.89	359.64	7,383.69	7,315.78	67.91	108.722		
15,600.00	7,875.00	7,461.13	7,402.06	207.53	30.84	-57.92	-864.28	359.39	7,482.99	7,415.04	67.95	110.128		
15,700.00	7,875.00	7,456.09	7,397.06	210.20	30.82	-57.63	-863.68	359.13	7,582.30	7,514.32	67.98	111.532		
15,800.00	7,875.00	7,451.04	7,392.06	212.86	30.80	-57.33	-863.08	358.87	7,681.63	7,613.61	68.02	112.933		
15,900.00	7,875.00	7,446.00	7,387.06	215.52	30.78	-57.04	-862.47	358.61	7,780.97	7,712.91	68.06	114.332		
16,000.00	7,875.00	7,440.96	7,382.06	218.19	30.76	-56.75	-861.87	358.35	7,880.32	7,812.22	68.09	115.728		
16,100.00	7,875.00	7,435.91	7,377.06	220.85	30.74	-56.46	-861.27	358.10	7,979.68	7,911.55	68.13	117.123		
16,200.00	7,875.00	7,430.87	7,372.06	223.52	30.71	-56.17	-860.67	357.84	8,079.06	8,010.89	68.17	118.515		
16,300.00	7,875.00	7,425.83	7,367.06	226.18	30.69	-55.89	-860.06	357.58	8,178.45	8,110.24	68.21	119.904		
16,400.00	7,875.00	7,420.78	7,362.06	228.85	30.67	-55.60	-859.46	357.32	8,277.85	8,209.61	68.25	121.291		
16,500.00	7,875.00	7,415.74	7,357.06	231.52	30.65	-55.32	-858.86	357.07	8,377.27	8,308.98	68.29	122.676		
16,600.00	7,875.00	7,410.70	7,352.06	234.18	30.63	-55.04	-858.26	356.81	8,476.69	8,408.36	68.33	124.058		
16,700.00	7,875.00	7,405.65	7,347.06	236.85	30.61	-54.75	-857.65	356.55	8,576.13	8,507.76	68.37	125.437		
16,800.00	7,875.00	7,400.61	7,342.06	239.52	30.59	-54.47	-857.05	356.29	8,675.57	8,607.16	68.41	126.814		
16,900.00	7,875.00	7,404.43	7,337.06	242.19	30.60	-54.20	-856.45	356.03	8,775.03	8,706.53	68.49	128.119		
17,000.00	7,875.00	7,390.52	7,332.06	244.86	30.54	-53.92	-855.84	355.78	8,874.49	8,805.99	68.50	129.559		
17,100.00	7,875.00	7,385.48	7,327.06	247.53	30.52	-53.65	-855.24	355.52	8,973.96	8,905.42	68.54	130.928		
17,200.00	7,875.00	7,380.44	7,322.06	250.20	30.50	-53.37	-854.64	355.26	9,073.44	9,004.86	68.59	132.294		
17,300.00	7,875.00	7,375.39	7,317.06	252.87	30.48	-53.10	-854.04	355.00	9,172.93	9,104.30	68.63	133.657		
17,400.00	7,875.00	7,370.35	7,312.05	255.54	30.46	-52.83	-853.43	354.75	9,272.43	9,203.76	68.68	135.017		
17,500.00	7,875.00	7,365.31	7,307.05	258.21	30.44	-52.56	-852.83	354.49	9,371.94	9,303.22	68.72	136.374		
17,600.00	7,875.00	7,360.26	7,302.05	260.89	30.41	-52.29	-852.23	354.23	9,471.45	9,402.68	68.77	137.729		
17,700.00	7,875.00	7,355.22	7,297.05	263.56	30.39	-52.03	-851.63	353.97	9,570.97	9,502.16	68.82	139.080		
17,800.00	7,875.00	7,350.18	7,292.05	266.23	30.37	-51.76	-851.02	353.71	9,670.50	9,601.64	68.86	140.429		
17,900.00	7,875.00	7,345.13	7,287.05	268.91	30.35	-51.50	-850.42	353.46	9,770.04	9,701.13	68.91	141.775		
18,000.00	7,875.00	7,340.09	7,282.05	271.58	30.33	-51.24	-849.82	353.20	9,869.58	9,800.62	68.96	143.117		
18,100.00	7,875.00	7,335.05	7,277.05	274.25	30.31	-50.98	-849.21	352.94	9,969.13	9,900.12	69.01	144.457		

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

### Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	4.40	-4.40	0.00	0.01	179.78	-74.67	0.28	74.68					
100.00	100.00	104.40	95.60	0.13	0.15	179.78	-74.67	0.28	74.68	74.39	0.28	262.363		
200.00	200.00	204.40	195.60	0.49	0.51	179.78	-74.67	0.28	74.68	73.67	1.00	74.558		
250.00	250.00	245.60	245.60	0.67	0.66	179.78	-74.67	0.28	74.68	73.35	1.33	56.210 CC		
300.00	300.00	294.47	294.47	0.85	0.82	82.96	-75.01	0.37	74.96	73.29	1.67	44.832 ES		
400.00	399.93	391.91	391.85	1.20	1.16	84.79	-78.07	1.18	77.72	75.37	2.35	33.011		
500.00	499.68	489.03	488.75	1.56	1.50	88.03	-84.31	2.84	83.60	80.55	3.06	27.348		
603.98	603.08	589.45	588.66	1.95	1.88	92.21	-94.09	5.44	93.37	89.56	3.81	24.512		
700.00	698.37	681.62	679.98	2.33	2.24	95.62	-106.04	8.61	105.80	101.28	4.52	23.400		
800.00	797.61	776.94	773.97	2.73	2.64	97.64	-121.38	12.69	121.85	116.58	5.27	23.119		
900.00	896.84	872.97	868.13	3.13	3.07	98.57	-139.63	17.53	140.57	134.54	6.03	23.296		
1,000.00	996.08	971.09	964.22	3.54	3.53	99.18	-158.82	22.63	159.82	153.00	6.82	23.418		
1,100.00	1,095.32	1,069.21	1,060.31	3.95	4.00	99.66	-178.01	27.73	179.09	171.47	7.62	23.516		
1,200.00	1,194.56	1,167.33	1,156.39	4.36	4.47	100.05	-197.20	32.83	198.36	189.94	8.42	23.555		
1,300.00	1,293.79	1,265.44	1,252.48	4.77	4.94	100.37	-216.39	37.92	217.65	208.42	9.23	23.586		
1,400.00	1,393.03	1,363.56	1,348.57	5.18	5.42	100.64	-235.58	43.02	236.94	226.90	10.04	23.605		
1,500.00	1,492.27	1,461.68	1,444.65	5.59	5.90	100.87	-254.77	48.12	256.23	245.38	10.85	23.616		
1,600.00	1,591.51	1,559.79	1,540.74	6.00	6.38	101.07	-273.96	53.22	275.52	263.86	11.66	23.622		
1,700.00	1,690.74	1,657.91	1,636.83	6.41	6.86	101.24	-293.15	58.31	294.82	282.34	12.48	23.625		
1,800.00	1,789.98	1,756.03	1,732.91	6.83	7.35	101.39	-312.34	63.41	314.12	300.83	13.30	23.625		
1,900.00	1,889.22	1,854.14	1,829.00	7.24	7.83	101.52	-331.53	68.51	333.42	319.31	14.11	23.623		
2,000.00	1,988.46	1,952.26	1,925.09	7.65	8.32	101.63	-350.72	73.60	352.73	337.79	14.93	23.620		
2,100.00	2,087.69	2,050.38	2,021.17	8.07	8.80	101.74	-369.91	78.70	372.03	356.28	15.75	23.617		
2,200.00	2,186.93	2,148.49	2,117.26	8.48	9.29	101.83	-389.10	83.80	391.34	374.77	16.57	23.612		
2,300.00	2,286.17	2,246.61	2,213.35	8.89	9.78	101.92	-408.29	88.90	410.65	393.25	17.39	23.608		
2,400.00	2,385.41	2,344.73	2,309.43	9.31	10.27	102.00	-427.48	93.99	429.95	411.74	18.22	23.603		
2,500.00	2,484.64	2,442.84	2,405.52	9.72	10.75	102.07	-446.67	99.09	449.26	430.23	19.04	23.598		
2,600.00	2,583.88	2,540.96	2,501.61	10.13	11.24	102.14	-465.86	104.19	468.57	448.71	19.86	23.594		
2,700.00	2,683.12	2,639.08	2,597.69	10.55	11.73	102.20	-485.05	109.29	487.88	467.20	20.68	23.589		
2,800.00	2,782.36	2,737.19	2,693.78	10.96	12.22	102.25	-504.24	114.38	507.19	485.69	21.51	23.584		
2,900.00	2,881.59	2,835.31	2,789.87	11.38	12.71	102.30	-523.43	119.48	526.50	504.17	22.33	23.579		
3,000.00	2,980.83	2,933.43	2,885.95	11.79	13.20	102.35	-542.62	124.58	545.81	522.66	23.15	23.575		
3,100.00	3,080.07	3,031.54	2,982.04	12.21	13.68	102.40	-561.81	129.67	565.13	541.15	23.98	23.570		
3,200.00	3,179.31	3,129.66	3,078.13	12.62	14.17	102.44	-581.00	134.77	584.44	559.64	24.80	23.566		
3,300.00	3,278.55	3,227.78	3,174.21	13.03	14.66	102.48	-600.19	139.87	603.75	578.12	25.62	23.561		
3,400.00	3,377.78	3,325.89	3,270.30	13.45	15.15	102.52	-619.38	144.97	623.06	596.61	26.45	23.557		
3,500.00	3,477.02	3,424.01	3,366.39	13.86	15.64	102.55	-638.57	150.06	642.37	615.10	27.27	23.553		
3,600.00	3,576.26	3,522.13	3,462.47	14.28	16.13	102.58	-657.76	155.16	661.69	633.59	28.10	23.549		
3,700.00	3,675.50	3,620.24	3,558.56	14.69	16.62	102.61	-676.95	160.26	681.00	652.08	28.92	23.546		
3,800.00	3,774.73	3,718.36	3,654.65	15.11	17.11	102.64	-696.14	165.36	700.31	670.57	29.75	23.542		
3,900.00	3,873.97	3,816.48	3,750.73	15.52	17.60	102.67	-715.33	170.45	719.63	689.05	30.57	23.538		
4,000.00	3,973.21	3,914.59	3,846.82	15.93	18.09	102.70	-734.52	175.55	738.94	707.54	31.40	23.535		
4,100.00	4,072.45	4,012.71	3,942.91	16.35	18.58	102.72	-753.71	180.65	758.25	726.03	32.22	23.531		
4,200.00	4,171.68	4,110.83	4,038.99	16.76	19.07	102.74	-772.90	185.74	777.57	744.52	33.05	23.528		
4,300.00	4,270.92	4,208.94	4,135.08	17.18	19.56	102.77	-792.09	190.84	796.88	763.01	33.87	23.525		
4,400.00	4,370.16	4,307.06	4,231.17	17.59	20.05	102.79	-811.28	195.94	816.19	781.49	34.70	23.522		
4,500.00	4,469.40	4,405.18	4,327.25	18.01	20.54	102.81	-830.47	201.04	835.51	799.98	35.52	23.519		
4,600.00	4,568.63	4,503.29	4,423.34	18.42	21.03	102.83	-849.66	206.13	854.82	818.47	36.35	23.516		
4,700.00	4,667.87	4,601.41	4,519.43	18.84	21.52	102.85	-868.85	211.23	874.14	836.96	37.18	23.513		
4,800.00	4,767.11	4,699.53	4,615.51	19.25	22.01	102.86	-888.04	216.33	893.45	855.45	38.00	23.510		
4,900.00	4,866.35	4,802.36	4,711.60	19.66	22.52	102.88	-907.23	221.43	912.77	873.92	38.85	23.496		
5,000.00	4,965.58	4,904.24	4,807.69	20.08	23.03	102.90	-926.42	226.52	932.08	892.39	39.69	23.484		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	5,064.82	4,993.88	4,903.77	20.49	23.48	102.91	-945.61	231.62	951.39	910.91	40.48	23.502		
5,200.00	5,164.06	5,108.01	4,999.86	20.91	24.05	102.93	-964.80	236.72	970.71	929.33	41.38	23.461		
5,300.00	5,263.30	5,190.11	5,095.95	21.32	24.46	102.94	-983.99	241.81	990.02	947.89	42.13	23.498		
5,400.00	5,362.53	5,288.23	5,192.03	21.74	24.95	102.95	-1,003.18	246.91	1,009.34	966.38	42.96	23.495		
5,500.00	5,461.77	5,386.34	5,288.12	22.15	25.44	102.97	-1,022.37	252.01	1,028.65	984.87	43.79	23.493		
5,600.00	5,561.01	5,484.46	5,384.21	22.57	25.93	102.98	-1,041.56	257.11	1,047.97	1,003.36	44.61	23.491		
5,700.00	5,660.25	5,582.58	5,480.29	22.98	26.42	102.99	-1,060.75	262.20	1,067.28	1,021.84	45.44	23.488		
5,800.00	5,759.49	5,680.69	5,576.38	23.40	26.91	103.01	-1,079.94	267.30	1,086.60	1,040.33	46.27	23.486		
5,900.00	5,858.72	5,778.81	5,672.47	23.81	27.40	103.02	-1,099.13	272.40	1,105.91	1,058.82	47.09	23.484		
6,000.00	5,957.96	5,876.93	5,768.55	24.23	27.89	103.03	-1,118.32	277.50	1,125.23	1,077.31	47.92	23.482		
6,100.00	6,057.20	5,975.04	5,864.64	24.64	28.39	103.04	-1,137.50	282.59	1,144.54	1,095.80	48.75	23.480		
6,200.00	6,156.44	6,073.16	5,960.73	25.05	28.88	103.05	-1,156.69	287.69	1,163.86	1,114.29	49.57	23.478		
6,300.00	6,255.67	6,171.28	6,056.81	25.47	29.37	103.06	-1,175.88	292.79	1,183.17	1,132.77	50.40	23.476		
6,400.00	6,354.91	6,269.39	6,152.90	25.88	29.86	103.07	-1,195.07	297.88	1,202.49	1,151.26	51.23	23.474		
6,500.00	6,454.15	6,367.51	6,248.99	26.30	30.35	103.08	-1,214.26	302.98	1,221.80	1,169.75	52.05	23.472		
6,600.00	6,553.39	6,465.63	6,345.07	26.71	30.84	103.09	-1,233.45	308.08	1,241.12	1,188.24	52.88	23.470		
6,700.00	6,652.62	6,563.74	6,441.16	27.13	31.33	103.10	-1,252.64	313.18	1,260.43	1,206.73	53.71	23.468		
6,800.00	6,751.86	6,661.86	6,537.25	27.54	31.82	103.10	-1,271.83	318.27	1,279.75	1,225.21	54.53	23.467		
6,900.00	6,851.10	6,759.98	6,633.33	27.96	32.31	103.11	-1,291.02	323.37	1,299.06	1,243.70	55.36	23.465		
7,000.00	6,950.34	6,858.09	6,729.42	28.37	32.80	103.12	-1,310.21	328.47	1,318.38	1,262.19	56.19	23.463		
7,100.00	7,049.57	6,956.21	6,825.51	28.79	33.29	103.13	-1,329.40	333.57	1,337.69	1,280.68	57.02	23.461		
7,200.00	7,148.81	7,054.33	6,921.59	29.20	33.78	103.14	-1,348.59	338.66	1,357.01	1,299.17	57.84	23.460		
7,283.93	7,232.10	7,136.67	7,002.24	29.55	34.19	103.14	-1,364.70	342.94	1,373.22	1,314.68	58.54	23.458		
7,300.00	7,248.07	7,152.46	7,017.69	29.61	34.27	101.25	-1,367.79	343.76	1,376.25	1,317.58	58.67	23.458		
7,350.00	7,297.99	7,201.62	7,065.84	29.79	34.52	45.79	-1,377.40	346.31	1,384.64	1,325.61	59.04	23.454		
7,400.00	7,347.93	7,250.60	7,113.80	29.93	34.76	-56.80	-1,386.98	348.86	1,391.48	1,332.13	59.35	23.454		
7,450.00	7,397.53	7,300.99	7,161.21	30.03	35.02	-62.59	-1,396.45	351.37	1,396.77	1,337.15	59.62	23.426		
7,500.00	7,446.40	7,346.49	7,207.71	30.12	35.24	-64.68	-1,405.74	353.84	1,400.57	1,340.73	59.84	23.406		
7,550.00	7,494.17	7,407.32	7,252.94	30.19	35.55	-66.08	-1,414.77	356.24	1,402.97	1,342.89	60.08	23.351		
7,600.00	7,540.48	7,437.22	7,296.56	30.24	35.70	-67.32	-1,423.48	358.55	1,404.10	1,343.94	60.16	23.341		
7,650.00	7,584.98	7,479.78	7,338.24	30.28	35.91	-68.58	-1,431.80	360.76	1,404.14	1,343.88	60.26	23.303		
7,700.00	7,627.32	7,580.00	7,435.55	30.31	36.43	-71.64	-1,451.33	373.77	1,402.52	1,341.78	60.74	23.090		
7,750.00	7,667.19	7,652.64	7,503.91	30.33	36.82	-74.53	-1,465.17	393.89	1,399.23	1,338.26	60.96	22.951		
7,800.00	7,704.28	7,697.25	7,544.44	30.36	37.07	-76.67	-1,473.43	410.57	1,395.59	1,334.59	61.01	22.876		
7,850.00	7,738.31	7,723.17	7,567.37	30.40	37.21	-78.11	-1,478.12	421.72	1,392.38	1,331.43	60.95	22.844 SF		
7,900.00	7,769.02	7,736.62	7,579.06	30.45	37.29	-78.97	-1,480.52	427.91	1,389.97	1,329.14	60.84	22.848		
7,950.00	7,796.17	7,741.55	7,583.30	30.52	37.32	-79.37	-1,481.39	430.25	1,388.56	1,327.87	60.69	22.879		
7,990.69	7,815.51	7,741.04	7,582.87	30.61	37.31	-79.43	-1,481.30	430.01	1,388.21	1,327.64	60.57	22.919		
8,000.00	7,819.57	7,740.47	7,582.38	30.63	37.31	-79.41	-1,481.20	429.74	1,388.23	1,327.69	60.54	22.930		
8,050.00	7,839.03	7,735.06	7,577.71	30.76	37.28	-79.15	-1,480.24	427.18	1,388.95	1,328.55	60.40	22.995		
8,100.00	7,854.40	7,726.43	7,570.21	30.94	37.23	-78.66	-1,478.70	423.19	1,390.69	1,330.40	60.29	23.065		
8,150.00	7,865.57	7,715.35	7,560.50	31.15	37.17	-77.97	-1,476.71	418.24	1,393.36	1,333.14	60.22	23.136		
8,200.00	7,872.45	7,702.37	7,549.01	31.41	37.10	-77.13	-1,474.36	412.68	1,396.87	1,336.66	60.20	23.202		
8,254.13	7,875.00	7,686.65	7,534.93	31.72	37.01	-76.08	-1,471.49	406.31	1,401.46	1,341.22	60.24	23.263		
8,300.00	7,875.00	7,673.46	7,522.99	32.03	36.94	-75.58	-1,469.05	401.27	1,406.32	1,345.99	60.34	23.308		
8,400.00	7,875.00	7,650.00	7,501.47	32.86	36.81	-74.68	-1,464.67	393.00	1,421.51	1,360.75	60.76	23.395		
8,500.00	7,875.00	7,629.62	7,482.53	33.88	36.70	-73.89	-1,460.83	386.56	1,442.98	1,381.57	61.42	23.495		
8,600.00	7,875.00	7,613.56	7,467.45	35.09	36.61	-73.26	-1,457.77	381.97	1,470.59	1,408.32	62.27	23.615		
8,700.00	7,875.00	7,600.00	7,454.62	36.45	36.54	-72.73	-1,455.18	378.42	1,504.09	1,440.82	63.27	23.774		
8,800.00	7,875.00	7,600.00	7,454.62	37.96	36.54	-72.73	-1,455.18	378.42	1,543.24	1,478.80	64.44	23.948		
8,900.00	7,875.00	7,579.13	7,434.72	39.60	36.42	-71.91	-1,451.16	373.58	1,587.41	1,521.95	65.46	24.251		
9,000.00	7,875.00	7,570.73	7,426.66	41.34	36.38	-71.57	-1,449.54	371.84	1,636.46	1,569.89	66.57	24.581		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 3AH - OWB - PROPOSAL 1	Offset Site Error:	0.00 usft
Survey Program:													0-MWD OWSG	Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,100.00	7,875.00	7,550.00	7,406.68	43.19	36.27	-70.75	-1,445.52	368.06	1,690.07	1,622.52	67.55	25.019			
9,200.00	7,875.00	7,550.00	7,406.68	45.12	36.27	-70.75	-1,445.52	368.06	1,747.45	1,678.79	68.66	25.451			
9,300.00	7,875.00	7,550.00	7,406.68	47.12	36.27	-70.75	-1,445.52	368.06	1,808.54	1,738.83	69.71	25.945			
9,400.00	7,875.00	7,550.00	7,406.68	49.19	36.27	-70.75	-1,445.52	368.06	1,872.98	1,802.30	70.68	26.498			
9,500.00	7,875.00	7,550.00	7,406.68	51.32	36.27	-70.75	-1,445.52	368.06	1,940.44	1,868.85	71.59	27.106			
9,600.00	7,875.00	7,550.00	7,406.68	53.50	36.27	-70.75	-1,445.52	368.06	2,010.61	1,938.18	72.42	27.762			
9,700.00	7,875.00	7,550.00	7,406.68	55.72	36.27	-70.75	-1,445.52	368.06	2,083.21	2,010.02	73.19	28.464			
9,800.00	7,875.00	7,530.07	7,387.36	57.98	36.17	-69.96	-1,441.63	365.13	2,157.65	2,083.92	73.74	29.261			
9,900.00	7,875.00	7,526.92	7,384.29	60.28	36.15	-69.83	-1,441.02	364.73	2,234.30	2,159.94	74.36	30.048			
10,000.00	7,875.00	7,524.03	7,381.47	62.61	36.14	-69.71	-1,440.45	364.38	2,312.71	2,237.78	74.93	30.866			
10,100.00	7,875.00	7,521.36	7,378.88	64.97	36.12	-69.61	-1,439.93	364.06	2,392.72	2,317.27	75.45	31.714			
10,200.00	7,875.00	7,518.89	7,376.47	67.35	36.11	-69.51	-1,439.45	363.79	2,474.17	2,398.25	75.92	32.588			
10,300.00	7,875.00	7,500.00	7,358.03	69.75	36.01	-68.76	-1,435.76	362.01	2,557.19	2,480.95	76.23	33.545			
10,400.00	7,875.00	7,500.00	7,358.03	72.18	36.01	-68.76	-1,435.76	362.01	2,641.07	2,564.42	76.65	34.457			
10,500.00	7,875.00	7,500.00	7,358.03	74.62	36.01	-68.76	-1,435.76	362.01	2,726.04	2,649.01	77.03	35.389			
10,600.00	7,875.00	7,500.00	7,358.03	77.08	36.01	-68.76	-1,435.76	362.01	2,812.00	2,734.61	77.38	36.339			
10,700.00	7,875.00	7,500.00	7,358.03	79.56	36.01	-68.76	-1,435.76	362.01	2,898.85	2,821.15	77.71	37.306			
10,800.00	7,875.00	7,500.00	7,358.03	82.05	36.01	-68.76	-1,435.76	362.01	2,986.54	2,908.53	78.00	38.287			
10,900.00	7,875.00	7,500.00	7,358.03	84.55	36.01	-68.76	-1,435.76	362.01	3,074.97	2,996.69	78.28	39.283			
11,000.00	7,875.00	7,500.00	7,358.03	87.06	36.01	-68.76	-1,435.76	362.01	3,164.09	3,085.56	78.53	40.290			
11,100.00	7,875.00	7,500.00	7,358.03	89.58	36.01	-68.76	-1,435.76	362.01	3,253.85	3,175.08	78.77	41.309			
11,200.00	7,875.00	7,500.00	7,358.03	92.11	36.01	-68.76	-1,435.76	362.01	3,344.18	3,265.19	78.99	42.338			
11,300.00	7,875.00	7,500.00	7,358.03	94.66	36.01	-68.76	-1,435.76	362.01	3,435.05	3,355.86	79.19	43.376			
11,400.00	7,875.00	7,500.00	7,358.03	97.20	36.01	-68.76	-1,435.76	362.01	3,526.42	3,447.04	79.38	44.423			
11,500.00	7,875.00	7,500.00	7,358.03	99.76	36.01	-68.76	-1,435.76	362.01	3,618.24	3,538.68	79.56	45.477			
11,600.00	7,875.00	7,500.00	7,358.03	102.32	36.01	-68.76	-1,435.76	362.01	3,710.49	3,630.76	79.73	46.539			
11,700.00	7,875.00	7,500.00	7,358.03	104.89	36.01	-68.76	-1,435.76	362.01	3,803.12	3,723.24	79.89	47.607			
11,800.00	7,875.00	7,500.00	7,358.03	107.47	36.01	-68.76	-1,435.76	362.01	3,896.12	3,816.09	80.03	48.681			
11,900.00	7,875.00	7,500.00	7,358.03	110.05	36.01	-68.76	-1,435.76	362.01	3,989.46	3,909.29	80.17	49.761			
12,000.00	7,875.00	7,493.41	7,351.59	112.64	35.98	-68.50	-1,434.47	361.53	4,083.08	4,002.82	80.26	50.874			
12,100.00	7,875.00	7,492.59	7,350.79	115.23	35.97	-68.46	-1,434.31	361.48	4,177.02	4,096.64	80.38	51.968			
12,200.00	7,875.00	7,491.80	7,350.02	117.82	35.97	-68.43	-1,434.16	361.43	4,271.23	4,190.74	80.49	53.065			
12,300.00	7,875.00	7,485.17	7,343.52	120.42	35.94	-68.17	-1,432.86	361.04	4,365.73	4,285.17	80.56	54.195			
12,400.00	7,875.00	7,485.17	7,343.52	123.03	35.94	-68.17	-1,432.86	361.04	4,460.43	4,379.77	80.66	55.296			
12,500.00	7,875.00	7,485.17	7,343.52	125.64	35.94	-68.17	-1,432.86	361.04	4,555.36	4,474.59	80.77	56.401			
12,600.00	7,875.00	7,485.17	7,343.52	128.25	35.94	-68.17	-1,432.86	361.04	4,650.50	4,569.63	80.87	57.508			
12,700.00	7,875.00	7,485.17	7,343.52	130.86	35.94	-68.17	-1,432.86	361.04	4,745.84	4,664.88	80.96	58.619			
12,800.00	7,875.00	7,485.17	7,343.52	133.48	35.94	-68.17	-1,432.86	361.04	4,841.37	4,760.32	81.05	59.731			
12,900.00	7,875.00	7,485.17	7,343.52	136.10	35.94	-68.17	-1,432.86	361.04	4,937.07	4,855.93	81.14	60.846			
13,000.00	7,875.00	7,485.17	7,343.52	138.72	35.94	-68.17	-1,432.86	361.04	5,032.95	4,951.72	81.23	61.963			
13,100.00	7,875.00	7,493.09	7,351.28	141.35	35.98	-68.48	-1,434.41	361.46	5,128.97	5,047.61	81.36	63.038			
13,200.00	7,875.00	7,488.01	7,346.30	143.98	35.95	-68.28	-1,433.41	361.19	5,225.16	5,143.75	81.41	64.186			
13,300.00	7,875.00	7,482.93	7,341.32	146.61	35.93	-68.08	-1,432.42	360.93	5,321.48	5,240.03	81.45	65.336			
13,400.00	7,875.00	7,477.84	7,336.35	149.24	35.90	-67.88	-1,431.43	360.66	5,417.92	5,336.44	81.49	66.488			
13,500.00	7,875.00	7,472.76	7,331.37	151.87	35.87	-67.68	-1,430.43	360.40	5,514.49	5,432.97	81.53	67.642			
13,600.00	7,875.00	7,467.68	7,326.39	154.51	35.85	-67.48	-1,429.44	360.14	5,611.18	5,529.62	81.56	68.798			
13,700.00	7,875.00	7,462.60	7,321.41	157.15	35.82	-67.28	-1,428.44	359.87	5,707.98	5,626.38	81.59	69.955			
13,800.00	7,875.00	7,457.51	7,316.44	159.79	35.80	-67.07	-1,427.45	359.61	5,804.88	5,723.25	81.63	71.114			
13,900.00	7,875.00	7,452.43	7,311.46	162.43	35.77	-66.87	-1,426.46	359.34	5,901.88	5,820.22	81.66	72.274			
14,000.00	7,875.00	7,447.35	7,306.48	165.07	35.75	-66.68	-1,425.46	359.08	5,998.97	5,917.28	81.69	73.436			
14,100.00	7,875.00	7,442.26	7,301.51	167.72	35.72	-66.48	-1,424.47	358.82	6,096.15	6,014.43	81.72	74.599			
14,200.00	7,875.00	7,437.18	7,296.53	170.36	35.70	-66.28	-1,423.47	358.55	6,193.42	6,111.67	81.75	75.763			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,875.00	7,432.10	7,291.55	173.01	35.67	-66.08	-1,422.48	358.29	6,290.77	6,209.00	81.77	76.928		
14,400.00	7,875.00	7,427.02	7,286.57	175.66	35.65	-65.88	-1,421.49	358.02	6,388.20	6,306.40	81.80	78.094		
14,500.00	7,875.00	7,421.93	7,281.60	178.31	35.62	-65.68	-1,420.49	357.76	6,485.70	6,403.87	81.83	79.261		
14,600.00	7,875.00	7,416.85	7,276.62	180.96	35.59	-65.48	-1,419.50	357.50	6,583.27	6,501.42	81.85	80.429		
14,700.00	7,875.00	7,411.77	7,271.64	183.61	35.57	-65.28	-1,418.50	357.23	6,680.91	6,599.04	81.88	81.597		
14,800.00	7,875.00	7,406.69	7,266.66	186.27	35.54	-65.09	-1,417.51	356.97	6,778.62	6,696.72	81.90	82.766		
14,900.00	7,875.00	7,401.60	7,261.69	188.92	35.52	-64.89	-1,416.52	356.70	6,876.39	6,794.46	81.93	83.935		
15,000.00	7,875.00	7,403.48	7,256.71	191.58	35.53	-64.69	-1,415.52	356.44	6,974.22	6,892.23	81.98	85.070		
15,100.00	7,875.00	7,391.44	7,251.73	194.24	35.47	-64.50	-1,414.53	356.18	7,072.10	6,990.13	81.97	86.275		
15,200.00	7,875.00	7,386.36	7,246.75	196.89	35.44	-64.30	-1,413.53	355.91	7,170.04	7,088.05	81.99	87.445		
15,300.00	7,875.00	7,381.27	7,241.78	199.55	35.42	-64.11	-1,412.54	355.65	7,268.03	7,186.02	82.02	88.616		
15,400.00	7,875.00	7,376.19	7,236.80	202.21	35.39	-63.91	-1,411.55	355.38	7,366.08	7,284.04	82.04	89.787		
15,500.00	7,875.00	7,371.11	7,231.82	204.87	35.37	-63.72	-1,410.55	355.12	7,464.17	7,382.11	82.06	90.958		
15,600.00	7,875.00	7,366.03	7,226.84	207.53	35.34	-63.52	-1,409.56	354.86	7,562.31	7,480.22	82.08	92.129		
15,700.00	7,875.00	7,360.94	7,221.87	210.20	35.32	-63.33	-1,408.56	354.59	7,660.49	7,578.38	82.11	93.300		
15,800.00	7,875.00	7,355.86	7,216.89	212.86	35.29	-63.13	-1,407.57	354.33	7,758.71	7,676.59	82.13	94.471		
15,900.00	7,875.00	7,350.78	7,211.91	215.52	35.26	-62.94	-1,406.57	354.06	7,856.98	7,774.83	82.15	95.642		
16,000.00	7,875.00	7,345.70	7,206.93	218.19	35.24	-62.75	-1,405.58	353.80	7,955.29	7,873.12	82.17	96.812		
16,100.00	7,875.00	7,340.61	7,201.96	220.85	35.21	-62.55	-1,404.59	353.54	8,053.63	7,971.44	82.19	97.983		
16,200.00	7,875.00	7,335.53	7,196.98	223.52	35.19	-62.36	-1,403.59	353.27	8,152.02	8,069.80	82.22	99.153		
16,300.00	7,875.00	7,330.45	7,192.00	226.18	35.16	-62.17	-1,402.60	353.01	8,250.43	8,168.20	82.24	100.323		
16,400.00	7,875.00	7,325.37	7,187.02	228.85	35.14	-61.98	-1,401.60	352.74	8,348.89	8,266.63	82.26	101.492		
16,500.00	7,875.00	7,320.28	7,182.05	231.52	35.11	-61.79	-1,400.61	352.48	8,447.37	8,365.09	82.28	102.662		
16,600.00	7,875.00	7,315.20	7,177.07	234.18	35.09	-61.60	-1,399.62	352.21	8,545.89	8,463.59	82.31	103.830		
16,700.00	7,875.00	7,310.12	7,172.09	236.85	35.06	-61.40	-1,398.62	351.95	8,644.44	8,562.11	82.33	104.999		
16,800.00	7,875.00	7,305.04	7,167.11	239.52	35.04	-61.21	-1,397.63	351.69	8,743.02	8,660.67	82.35	106.166		
16,900.00	7,875.00	7,299.95	7,162.14	242.19	35.01	-61.03	-1,396.63	351.42	8,841.63	8,759.25	82.38	107.334		
17,000.00	7,875.00	7,305.13	7,157.16	244.86	35.04	-60.84	-1,395.64	351.16	8,940.27	8,857.82	82.45	108.435		
17,100.00	7,875.00	7,289.79	7,152.18	247.53	34.96	-60.65	-1,394.65	350.89	9,038.93	8,956.51	82.42	109.666		
17,200.00	7,875.00	7,284.70	7,147.20	250.20	34.93	-60.46	-1,393.65	350.63	9,137.62	9,055.17	82.45	110.831		
17,300.00	7,875.00	7,279.62	7,142.23	252.87	34.91	-60.27	-1,392.66	350.37	9,236.33	9,153.86	82.47	111.996		
17,400.00	7,875.00	7,274.54	7,137.25	255.54	34.88	-60.08	-1,391.66	350.10	9,335.07	9,252.58	82.49	113.160		
17,500.00	7,875.00	7,269.46	7,132.27	258.21	34.86	-59.90	-1,390.67	349.84	9,433.84	9,351.32	82.52	114.323		
17,600.00	7,875.00	7,264.37	7,127.30	260.89	34.83	-59.71	-1,389.68	349.57	9,532.62	9,450.08	82.54	115.485		
17,700.00	7,875.00	7,259.29	7,122.32	263.56	34.81	-59.52	-1,388.68	349.31	9,631.43	9,548.86	82.57	116.646		
17,800.00	7,875.00	7,254.21	7,117.34	266.23	34.78	-59.34	-1,387.69	349.05	9,730.26	9,647.67	82.60	117.807		
17,900.00	7,875.00	7,249.13	7,112.36	268.91	34.76	-59.15	-1,386.69	348.78	9,829.11	9,746.49	82.62	118.966		
18,000.00	7,875.00	7,244.04	7,107.39	271.58	34.73	-58.97	-1,385.70	348.52	9,927.99	9,845.34	82.65	120.125		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 3BH - 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	4.40	-4.40	0.00	0.01	179.87	-124.94	0.28	124.94						
100.00	100.00	104.40	95.60	0.13	0.15	179.87	-124.94	0.28	124.94	124.66	0.28	438.975			
200.00	200.00	204.40	195.60	0.49	0.51	179.87	-124.94	0.28	124.94	123.94	1.00	124.748			
250.00	250.00	245.60	245.60	0.67	0.66	179.87	-124.94	0.28	124.94	123.62	1.33	94.049 CC			
300.00	300.00	293.72	293.72	0.85	0.82	82.95	-125.27	0.35	125.23	123.56	1.67	75.013 ES			
400.00	399.93	389.50	389.45	1.20	1.15	84.12	-128.28	0.93	127.97	125.63	2.35	54.548			
500.00	499.68	484.95	484.69	1.56	1.49	86.28	-134.39	2.13	133.75	130.71	3.04	43.973			
603.98	603.08	583.61	582.85	1.95	1.85	89.27	-143.99	4.01	143.27	139.49	3.78	37.856			
700.00	698.37	674.11	672.56	2.33	2.21	92.07	-155.70	6.30	155.44	150.95	4.49	34.650			
800.00	797.61	767.70	764.89	2.73	2.60	94.15	-170.73	9.23	171.39	166.16	5.22	32.821			
900.00	896.84	860.42	855.81	3.13	3.02	95.48	-188.53	12.72	190.44	184.48	5.96	31.948			
1,000.00	996.08	952.10	945.09	3.54	3.46	96.22	-208.96	16.71	212.43	205.72	6.70	31.700			
1,100.00	1,095.32	1,043.75	1,033.64	3.95	3.93	96.51	-232.12	21.24	237.18	229.74	7.45	31.847			
1,200.00	1,194.56	1,140.39	1,126.75	4.36	4.45	96.66	-257.53	26.21	262.88	254.64	8.24	31.901			
1,300.00	1,293.79	1,237.03	1,219.86	4.77	4.98	96.79	-282.93	31.18	288.58	279.53	9.04	31.907			
1,400.00	1,393.03	1,333.67	1,312.97	5.18	5.52	96.89	-308.33	36.14	314.27	304.42	9.85	31.897			
1,500.00	1,492.27	1,430.31	1,406.08	5.59	6.06	96.98	-333.73	41.11	339.97	329.31	10.67	31.877			
1,600.00	1,591.51	1,526.95	1,499.19	6.00	6.61	97.05	-359.13	46.08	365.67	354.19	11.48	31.852			
1,700.00	1,690.74	1,623.59	1,592.30	6.41	7.15	97.12	-384.53	51.05	391.37	379.08	12.30	31.824			
1,800.00	1,789.98	1,720.23	1,685.41	6.83	7.71	97.18	-409.93	56.01	417.07	403.96	13.12	31.794			
1,900.00	1,889.22	1,816.87	1,778.52	7.24	8.26	97.23	-435.33	60.98	442.78	428.84	13.94	31.763			
2,000.00	1,988.46	1,913.51	1,871.63	7.65	8.81	97.27	-460.73	65.95	468.48	453.71	14.76	31.734			
2,100.00	2,087.69	2,010.15	1,964.74	8.07	9.37	97.31	-486.13	70.92	494.18	478.59	15.59	31.705			
2,200.00	2,186.93	2,106.79	2,057.85	8.48	9.92	97.35	-511.53	75.88	519.88	503.47	16.41	31.676			
2,300.00	2,286.17	2,203.43	2,150.96	8.89	10.48	97.38	-536.93	80.85	545.58	528.34	17.24	31.649			
2,400.00	2,385.41	2,300.07	2,244.07	9.31	11.04	97.41	-562.33	85.82	571.28	553.22	18.07	31.623			
2,500.00	2,484.64	2,403.29	2,337.18	9.72	11.64	97.44	-587.73	90.78	596.99	578.06	18.92	31.550			
2,600.00	2,583.88	2,493.35	2,430.29	10.13	12.16	97.46	-613.13	95.75	622.69	602.97	19.72	31.575			
2,700.00	2,683.12	2,589.99	2,523.40	10.55	12.72	97.49	-638.53	100.72	648.39	627.84	20.55	31.553			
2,800.00	2,782.36	2,686.63	2,616.51	10.96	13.28	97.51	-663.93	105.69	674.09	652.72	21.38	31.531			
2,900.00	2,881.59	2,783.27	2,709.62	11.38	13.84	97.53	-689.33	110.65	699.80	677.59	22.21	31.511			
3,000.00	2,980.83	2,879.91	2,802.73	11.79	14.40	97.55	-714.73	115.62	725.50	702.46	23.04	31.491			
3,100.00	3,080.07	2,976.55	2,895.84	12.21	14.96	97.56	-740.13	120.59	751.20	727.33	23.87	31.473			
3,200.00	3,179.31	3,073.19	2,988.95	12.62	15.52	97.58	-765.54	125.56	776.91	752.21	24.70	31.455			
3,300.00	3,278.55	3,169.83	3,082.06	13.03	16.08	97.60	-790.94	130.52	802.61	777.08	25.53	31.438			
3,400.00	3,377.78	3,266.47	3,175.17	13.45	16.64	97.61	-816.34	135.49	828.31	801.95	26.36	31.422			
3,500.00	3,477.02	3,363.11	3,268.28	13.86	17.20	97.62	-841.74	140.46	854.01	826.82	27.19	31.407			
3,600.00	3,576.26	3,459.75	3,361.39	14.28	17.76	97.64	-867.14	145.42	879.72	851.69	28.02	31.392			
3,700.00	3,675.50	3,556.39	3,454.50	14.69	18.33	97.65	-892.54	150.39	905.42	876.56	28.86	31.378			
3,800.00	3,774.73	3,653.03	3,547.61	15.11	18.89	97.66	-917.94	155.36	931.12	901.44	29.69	31.364			
3,900.00	3,873.97	3,749.67	3,640.72	15.52	19.45	97.67	-943.34	160.33	956.83	926.31	30.52	31.351			
4,000.00	3,973.21	3,846.31	3,733.83	15.93	20.01	97.68	-968.74	165.29	982.53	951.18	31.35	31.339			
4,100.00	4,072.45	3,942.95	3,826.94	16.35	20.58	97.69	-994.14	170.26	1,008.23	976.05	32.18	31.327			
4,200.00	4,171.68	4,039.59	3,920.05	16.76	21.14	97.70	-1,019.54	175.23	1,033.94	1,000.92	33.02	31.315			
4,300.00	4,270.92	4,136.23	4,013.16	17.18	21.70	97.71	-1,044.94	180.20	1,059.64	1,025.79	33.85	31.304			
4,400.00	4,370.16	4,232.87	4,106.27	17.59	22.26	97.71	-1,070.34	185.16	1,085.34	1,050.66	34.68	31.293			
4,500.00	4,469.40	4,329.51	4,199.38	18.01	22.83	97.72	-1,095.74	190.13	1,111.05	1,075.53	35.52	31.283			
4,600.00	4,568.63	4,426.15	4,292.49	18.42	23.39	97.73	-1,121.14	195.10	1,136.75	1,100.40	36.35	31.273			
4,700.00	4,667.87	4,522.79	4,385.60	18.84	23.95	97.74	-1,146.54	200.07	1,162.45	1,125.27	37.18	31.263			
4,800.00	4,767.11	4,619.43	4,478.71	19.25	24.52	97.74	-1,171.94	205.03	1,188.16	1,150.14	38.02	31.254			
4,900.00	4,866.35	4,716.07	4,571.82	19.66	25.08	97.75	-1,197.34	210.00	1,213.86	1,175.01	38.85	31.245			
5,000.00	4,965.58	4,812.71	4,664.93	20.08	25.64	97.76	-1,222.74	214.97	1,239.56	1,199.88	39.68	31.236			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 3BH - 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	5,064.82	4,909.35	4,758.04	20.49	26.20	97.76	-1,248.14	219.93	1,265.27	1,224.75	40.52	31.228			
5,200.00	5,164.06	5,005.99	4,851.15	20.91	26.77	97.77	-1,273.55	224.90	1,290.97	1,249.62	41.35	31.219			
5,300.00	5,263.30	5,102.63	4,944.26	21.32	27.33	97.77	-1,298.95	229.87	1,316.67	1,274.49	42.19	31.211			
5,400.00	5,362.53	5,200.73	5,037.37	21.74	27.90	97.78	-1,324.35	234.84	1,342.38	1,299.35	43.03	31.199			
5,500.00	5,461.77	5,304.09	5,130.48	22.15	28.51	97.78	-1,349.75	239.80	1,368.08	1,324.19	43.89	31.170			
5,600.00	5,561.01	5,407.45	5,223.59	22.57	29.11	97.79	-1,375.15	244.77	1,393.78	1,349.03	44.75	31.143			
5,700.00	5,660.25	5,489.19	5,316.70	22.98	29.58	97.79	-1,400.55	249.74	1,419.49	1,373.96	45.52	31.182			
5,800.00	5,759.49	5,585.83	5,409.81	23.40	30.15	97.80	-1,425.95	254.71	1,445.19	1,398.83	46.36	31.175			
5,900.00	5,858.72	5,682.47	5,502.92	23.81	30.71	97.80	-1,451.35	259.67	1,470.89	1,423.70	47.19	31.168			
6,000.00	5,957.96	5,779.11	5,596.03	24.23	31.28	97.81	-1,476.75	264.64	1,496.60	1,448.57	48.03	31.161			
6,100.00	6,057.20	5,875.75	5,689.14	24.64	31.84	97.81	-1,502.15	269.61	1,522.30	1,473.44	48.86	31.155			
6,200.00	6,156.44	5,972.39	5,782.25	25.05	32.40	97.82	-1,527.55	274.58	1,548.00	1,498.31	49.70	31.149			
6,300.00	6,255.67	6,069.03	5,875.36	25.47	32.97	97.82	-1,552.95	279.54	1,573.71	1,523.18	50.53	31.143			
6,400.00	6,354.91	6,165.67	5,968.47	25.88	33.53	97.82	-1,578.35	284.51	1,599.41	1,548.04	51.37	31.137			
6,500.00	6,454.15	6,262.31	6,061.58	26.30	34.09	97.83	-1,603.75	289.48	1,625.11	1,572.91	52.20	31.131			
6,600.00	6,553.39	6,358.95	6,154.69	26.71	34.66	97.83	-1,629.15	294.44	1,650.82	1,597.78	53.04	31.125			
6,700.00	6,652.62	6,455.59	6,247.80	27.13	35.22	97.83	-1,654.55	299.41	1,676.52	1,622.65	53.87	31.119			
6,800.00	6,751.86	6,552.23	6,340.91	27.54	35.78	97.84	-1,679.95	304.38	1,702.23	1,647.52	54.71	31.114			
6,900.00	6,851.10	6,648.87	6,434.02	27.96	36.35	97.84	-1,705.35	309.35	1,727.93	1,672.38	55.55	31.109			
7,000.00	6,950.34	6,745.51	6,527.13	28.37	36.91	97.84	-1,730.75	314.31	1,753.63	1,697.25	56.38	31.103			
7,100.00	7,049.57	6,842.15	6,620.24	28.79	37.47	97.85	-1,756.15	319.28	1,779.34	1,722.12	57.22	31.098			
7,200.00	7,148.81	6,938.79	6,713.35	29.20	38.04	97.85	-1,781.56	324.25	1,805.04	1,746.99	58.05	31.093			
7,283.93	7,232.10	7,019.90	6,791.49	29.55	38.51	97.85	-1,802.87	328.42	1,826.61	1,767.86	58.75	31.089			
7,300.00	7,248.07	7,035.45	6,806.47	29.61	38.60	96.08	-1,806.96	329.22	1,830.69	1,771.80	58.89	31.089			
7,350.00	7,297.99	7,083.88	6,853.13	29.79	38.88	41.02	-1,819.69	331.71	1,842.59	1,783.33	59.26	31.095			
7,400.00	7,347.93	7,132.11	6,899.61	29.93	39.17	-61.09	-1,832.37	334.19	1,853.29	1,793.72	59.57	31.112			
7,450.00	7,397.53	7,179.80	6,945.55	30.03	39.44	-66.36	-1,844.90	336.64	1,862.75	1,802.91	59.83	31.134			
7,500.00	7,446.40	7,226.57	6,990.61	30.12	39.72	-67.88	-1,857.19	339.04	1,870.97	1,810.92	60.05	31.158			
7,550.00	7,494.17	7,272.06	7,034.44	30.19	39.98	-68.66	-1,869.15	341.38	1,877.99	1,817.77	60.22	31.184			
7,600.00	7,540.48	7,315.94	7,076.72	30.24	40.24	-69.26	-1,880.68	343.63	1,883.88	1,823.52	60.35	31.214			
7,650.00	7,584.98	7,357.86	7,117.11	30.28	40.48	-69.83	-1,891.70	345.79	1,888.72	1,828.27	60.45	31.245			
7,700.00	7,627.32	7,402.49	7,155.31	30.31	40.74	-70.43	-1,902.12	347.83	1,892.63	1,832.10	60.53	31.268			
7,750.00	7,667.19	7,434.59	7,191.03	30.33	40.93	-71.06	-1,911.87	349.73	1,895.73	1,835.20	60.54	31.315			
7,800.00	7,704.28	7,468.81	7,224.00	30.36	41.13	-71.72	-1,920.86	351.49	1,898.17	1,837.63	60.55	31.351			
7,850.00	7,738.31	7,500.09	7,253.97	30.40	41.31	-72.37	-1,929.04	353.09	1,900.09	1,839.54	60.54	31.385			
7,900.00	7,769.02	7,527.66	7,280.70	30.45	41.47	-73.00	-1,936.33	354.52	1,901.63	1,841.09	60.53	31.415			
7,950.00	7,796.17	7,551.85	7,304.00	30.52	41.62	-73.57	-1,942.69	355.76	1,902.93	1,842.40	60.53	31.438			
8,000.00	7,819.57	7,572.28	7,323.69	30.63	41.73	-74.06	-1,948.06	356.81	1,904.12	1,843.58	60.54	31.451			
8,050.00	7,839.03	7,588.81	7,339.62	30.76	41.83	-74.45	-1,952.40	357.66	1,905.33	1,844.75	60.58	31.453			
8,100.00	7,854.40	7,601.32	7,351.67	30.94	41.90	-74.72	-1,955.69	358.30	1,906.63	1,845.99	60.64	31.440			
8,150.00	7,865.57	7,609.69	7,359.74	31.15	41.95	-74.84	-1,957.89	358.73	1,908.11	1,847.37	60.74	31.414			
8,200.00	7,872.45	7,613.88	7,363.77	31.41	41.98	-74.81	-1,958.99	358.95	1,909.80	1,848.92	60.88	31.372			
8,254.13	7,875.00	7,613.66	7,363.56	31.72	41.98	-74.61	-1,958.93	358.94	1,911.88	1,850.82	61.06	31.312			
8,300.00	7,875.00	7,611.37	7,361.35	32.03	41.96	-74.54	-1,958.33	358.82	1,914.31	1,853.05	61.26	31.249			
8,400.00	7,875.00	7,606.38	7,356.55	32.86	41.93	-74.39	-1,957.02	358.56	1,923.37	1,861.48	61.89	31.079			
8,500.00	7,875.00	7,601.39	7,351.74	33.88	41.90	-74.24	-1,955.71	358.31	1,937.54	1,874.80	62.75	30.879			
8,600.00	7,875.00	7,603.60	7,346.93	35.09	41.92	-74.09	-1,954.40	358.05	1,956.72	1,892.89	63.83	30.656			
8,700.00	7,875.00	7,591.41	7,342.13	36.45	41.85	-73.94	-1,953.09	357.79	1,980.75	1,915.74	65.01	30.469			
8,800.00	7,875.00	7,586.42	7,337.32	37.96	41.82	-73.79	-1,951.78	357.54	2,009.47	1,943.13	66.33	30.293			
8,900.00	7,875.00	7,581.43	7,332.51	39.60	41.79	-73.64	-1,950.46	357.28	2,042.67	1,974.93	67.74	30.155			
9,000.00	7,875.00	7,576.45	7,327.71	41.34	41.76	-73.49	-1,949.15	357.02	2,080.14	2,010.95	69.19	30.066			
9,100.00	7,875.00	7,571.46	7,322.90	43.19	41.73	-73.34	-1,947.84	356.77	2,121.65	2,051.00	70.65	30.030 SF			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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		
9,200.00	7,875.00	7,566.47	7,318.09	45.12	41.70	-73.19	-1,946.53	356.51	2,166.97	2,094.86	72.11	30.052		
9,300.00	7,875.00	7,561.48	7,313.29	47.12	41.67	-73.05	-1,945.22	356.26	2,215.87	2,142.34	73.54	30.132		
9,400.00	7,875.00	7,556.49	7,308.48	49.19	41.64	-72.90	-1,943.91	356.00	2,268.12	2,193.20	74.93	30.272		
9,500.00	7,875.00	7,551.50	7,303.67	51.32	41.61	-72.75	-1,942.60	355.74	2,323.49	2,247.23	76.26	30.468		
9,600.00	7,875.00	7,546.51	7,298.87	53.50	41.58	-72.60	-1,941.29	355.49	2,381.76	2,304.22	77.54	30.718		
9,700.00	7,875.00	7,541.52	7,294.06	55.72	41.55	-72.45	-1,939.97	355.23	2,442.73	2,363.98	78.75	31.020		
9,800.00	7,875.00	7,536.54	7,289.25	57.98	41.53	-72.30	-1,938.66	354.97	2,506.19	2,426.30	79.89	31.371		
9,900.00	7,875.00	7,531.55	7,284.45	60.28	41.50	-72.15	-1,937.35	354.72	2,571.97	2,491.00	80.96	31.767		
10,000.00	7,875.00	7,526.56	7,279.64	62.61	41.47	-72.00	-1,936.04	354.46	2,639.89	2,557.91	81.97	32.204		
10,100.00	7,875.00	7,521.57	7,274.83	64.97	41.44	-71.85	-1,934.73	354.20	2,709.78	2,626.87	82.92	32.681		
10,200.00	7,875.00	7,516.58	7,270.03	67.35	41.41	-71.70	-1,933.42	353.95	2,781.51	2,697.71	83.80	33.194		
10,300.00	7,875.00	7,511.59	7,265.22	69.75	41.38	-71.55	-1,932.11	353.69	2,854.93	2,770.31	84.62	33.739		
10,400.00	7,875.00	7,506.60	7,260.41	72.18	41.35	-71.40	-1,930.80	353.43	2,929.92	2,844.54	85.38	34.316		
10,500.00	7,875.00	7,501.61	7,255.61	74.62	41.32	-71.26	-1,929.48	353.18	3,006.35	2,920.26	86.09	34.920		
10,600.00	7,875.00	7,503.38	7,250.80	77.08	41.33	-71.11	-1,928.17	352.92	3,084.13	2,997.34	86.79	35.538		
10,700.00	7,875.00	7,508.36	7,245.99	79.56	41.36	-70.96	-1,926.86	352.67	3,163.14	3,075.69	87.45	36.172		
10,800.00	7,875.00	7,486.65	7,241.19	82.05	41.23	-70.81	-1,925.55	352.41	3,243.31	3,155.37	87.94	36.883		
10,900.00	7,875.00	7,481.66	7,236.38	84.55	41.21	-70.66	-1,924.24	352.15	3,324.54	3,236.08	88.46	37.580		
11,000.00	7,875.00	7,476.67	7,231.57	87.06	41.18	-70.51	-1,922.93	351.90	3,406.77	3,317.81	88.96	38.297		
11,100.00	7,875.00	7,471.68	7,226.77	89.58	41.15	-70.36	-1,921.62	351.64	3,489.91	3,400.50	89.41	39.031		
11,200.00	7,875.00	7,466.69	7,221.96	92.11	41.12	-70.21	-1,920.31	351.38	3,573.91	3,484.08	89.84	39.782		
11,300.00	7,875.00	7,461.70	7,217.15	94.66	41.09	-70.07	-1,918.99	351.13	3,658.72	3,568.48	90.23	40.547		
11,400.00	7,875.00	7,456.71	7,212.35	97.20	41.06	-69.92	-1,917.68	350.87	3,744.26	3,653.66	90.60	41.327		
11,500.00	7,875.00	7,451.72	7,207.54	99.76	41.03	-69.77	-1,916.37	350.61	3,830.50	3,739.56	90.94	42.120		
11,600.00	7,875.00	7,446.74	7,202.73	102.32	41.00	-69.62	-1,915.06	350.36	3,917.38	3,826.12	91.26	42.925		
11,700.00	7,875.00	7,441.75	7,197.93	104.89	40.97	-69.47	-1,913.75	350.10	4,004.88	3,913.32	91.56	43.742		
11,800.00	7,875.00	7,436.76	7,193.12	107.47	40.94	-69.32	-1,912.44	349.84	4,092.93	4,001.10	91.83	44.569		
11,900.00	7,875.00	7,431.77	7,188.31	110.05	40.91	-69.18	-1,911.13	349.59	4,181.52	4,089.43	92.09	45.406		
12,000.00	7,875.00	7,426.78	7,183.51	112.64	40.89	-69.03	-1,909.82	349.33	4,270.61	4,178.28	92.33	46.252		
12,100.00	7,875.00	7,421.79	7,178.70	115.23	40.86	-68.88	-1,908.50	349.08	4,360.17	4,267.61	92.56	47.108		
12,200.00	7,875.00	7,416.80	7,173.89	117.82	40.83	-68.73	-1,907.19	348.82	4,450.16	4,357.40	92.77	47.971		
12,300.00	7,875.00	7,411.81	7,169.09	120.42	40.80	-68.58	-1,905.88	348.56	4,540.57	4,447.61	92.96	48.842		
12,400.00	7,875.00	7,406.82	7,164.28	123.03	40.77	-68.44	-1,904.57	348.31	4,631.37	4,538.22	93.15	49.721		
12,500.00	7,875.00	7,401.84	7,159.47	125.64	40.74	-68.29	-1,903.26	348.05	4,722.53	4,629.21	93.32	50.606		
12,600.00	7,875.00	7,403.15	7,154.67	128.25	40.75	-68.14	-1,901.95	347.79	4,814.04	4,720.53	93.51	51.479		
12,700.00	7,875.00	7,408.14	7,149.86	130.86	40.78	-67.99	-1,900.64	347.54	4,905.88	4,812.16	93.72	52.346		
12,800.00	7,875.00	7,386.87	7,145.05	133.48	40.65	-67.85	-1,899.33	347.28	4,998.02	4,904.25	93.77	53.299		
12,900.00	7,875.00	7,381.88	7,140.25	136.10	40.62	-67.70	-1,898.01	347.02	5,090.46	4,996.55	93.91	54.208		
13,000.00	7,875.00	7,376.89	7,135.44	138.72	40.59	-67.55	-1,896.70	346.77	5,183.17	5,089.14	94.03	55.122		
13,100.00	7,875.00	7,371.90	7,130.63	141.35	40.57	-67.41	-1,895.39	346.51	5,276.14	5,181.99	94.15	56.041		
13,200.00	7,875.00	7,366.91	7,125.83	143.98	40.54	-67.26	-1,894.08	346.25	5,369.36	5,275.10	94.26	56.964		
13,300.00	7,875.00	7,361.93	7,121.02	146.61	40.51	-67.11	-1,892.77	346.00	5,462.82	5,368.46	94.36	57.892		
13,400.00	7,875.00	7,356.94	7,116.21	149.24	40.48	-66.97	-1,891.46	345.74	5,556.50	5,462.04	94.46	58.824		
13,500.00	7,875.00	7,351.95	7,111.41	151.87	40.45	-66.82	-1,890.15	345.49	5,650.39	5,555.84	94.55	59.760		
13,600.00	7,875.00	7,346.96	7,106.60	154.51	40.42	-66.67	-1,888.84	345.23	5,744.49	5,649.85	94.64	60.699		
13,700.00	7,875.00	7,341.97	7,101.80	157.15	40.39	-66.53	-1,887.52	344.97	5,838.77	5,744.05	94.72	61.642		
13,800.00	7,875.00	7,336.98	7,096.99	159.79	40.36	-66.38	-1,886.21	344.72	5,933.24	5,838.44	94.80	62.589		
13,900.00	7,875.00	7,331.99	7,092.18	162.43	40.33	-66.23	-1,884.90	344.46	6,027.88	5,933.01	94.87	63.538		
14,000.00	7,875.00	7,327.00	7,087.38	165.07	40.30	-66.09	-1,883.59	344.20	6,122.69	6,027.75	94.94	64.491		
14,100.00	7,875.00	7,322.01	7,082.57	167.72	40.27	-65.94	-1,882.28	343.95	6,217.66	6,122.66	95.00	65.446		
14,200.00	7,875.00	7,317.03	7,077.76	170.36	40.25	-65.79	-1,880.97	343.69	6,312.78	6,217.71	95.07	66.404		
14,300.00	7,875.00	7,312.04	7,072.96	173.01	40.22	-65.65	-1,879.66	343.43	6,408.04	6,312.92	95.12	67.365		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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			
14,400.00	7,875.00	7,307.05	7,068.15	175.66	40.19	-65.50	-1,878.35	343.18	6,503.45	6,408.27	95.18	68.329			
14,500.00	7,875.00	7,302.06	7,063.34	178.31	40.16	-65.36	-1,877.03	342.92	6,598.98	6,503.75	95.23	69.294			
14,600.00	7,875.00	7,297.07	7,058.54	180.96	40.13	-65.21	-1,875.72	342.66	6,694.64	6,599.36	95.28	70.262			
14,700.00	7,875.00	7,307.92	7,053.73	183.61	40.19	-65.07	-1,874.41	342.41	6,790.43	6,695.01	95.42	71.167			
14,800.00	7,875.00	7,287.09	7,048.92	186.27	40.07	-64.92	-1,873.10	342.15	6,886.33	6,790.95	95.37	72.204			
14,900.00	7,875.00	7,282.10	7,044.12	188.92	40.04	-64.78	-1,871.79	341.90	6,982.34	6,886.92	95.42	73.178			
15,000.00	7,875.00	7,277.11	7,039.31	191.58	40.01	-64.63	-1,870.48	341.64	7,078.45	6,983.00	95.46	74.154			
15,100.00	7,875.00	7,272.13	7,034.50	194.24	39.98	-64.49	-1,869.17	341.38	7,174.67	7,079.18	95.49	75.132			
15,200.00	7,875.00	7,267.14	7,029.70	196.89	39.95	-64.34	-1,867.86	341.13	7,270.99	7,175.46	95.53	76.111			
15,300.00	7,875.00	7,262.15	7,024.89	199.55	39.92	-64.20	-1,866.54	340.87	7,367.41	7,271.84	95.57	77.092			
15,400.00	7,875.00	7,257.16	7,020.08	202.21	39.90	-64.05	-1,865.23	340.61	7,463.91	7,368.31	95.60	78.074			
15,500.00	7,875.00	7,252.17	7,015.28	204.87	39.87	-63.91	-1,863.92	340.36	7,560.50	7,464.87	95.63	79.058			
15,600.00	7,875.00	7,247.18	7,010.47	207.53	39.84	-63.77	-1,862.61	340.10	7,657.18	7,561.52	95.66	80.043			
15,700.00	7,875.00	7,242.19	7,005.66	210.20	39.81	-63.62	-1,861.30	339.84	7,753.94	7,658.25	95.69	81.030			
15,800.00	7,875.00	7,237.20	7,000.86	212.86	39.78	-63.48	-1,859.99	339.59	7,850.77	7,755.05	95.72	82.017			
15,900.00	7,875.00	7,232.21	6,996.05	215.52	39.75	-63.33	-1,858.68	339.33	7,947.68	7,851.94	95.75	83.006			
16,000.00	7,875.00	7,227.23	6,991.24	218.19	39.72	-63.19	-1,857.37	339.07	8,044.67	7,948.89	95.77	83.996			
16,100.00	7,875.00	7,222.24	6,986.44	220.85	39.69	-63.05	-1,856.05	338.82	8,141.72	8,045.92	95.80	84.987			
16,200.00	7,875.00	7,217.25	6,981.63	223.52	39.66	-62.90	-1,854.74	338.56	8,238.84	8,143.02	95.82	85.979			
16,300.00	7,875.00	7,212.26	6,976.82	226.18	39.63	-62.76	-1,853.43	338.31	8,336.03	8,240.18	95.85	86.972			
16,400.00	7,875.00	7,207.27	6,972.02	228.85	39.60	-62.62	-1,852.12	338.05	8,433.28	8,337.41	95.87	87.966			
16,500.00	7,875.00	7,202.28	6,967.21	231.52	39.58	-62.47	-1,850.81	337.79	8,530.59	8,434.69	95.89	88.960			
16,600.00	7,875.00	7,202.71	6,962.40	234.18	39.58	-62.33	-1,849.50	337.54	8,627.95	8,532.01	95.94	89.927			
16,700.00	7,875.00	7,207.70	6,957.60	236.85	39.61	-62.19	-1,848.19	337.28	8,725.38	8,629.36	96.02	90.870			
16,800.00	7,875.00	7,187.31	6,952.79	239.52	39.49	-62.05	-1,846.88	337.02	8,822.86	8,726.90	95.95	91.948			
16,900.00	7,875.00	7,182.33	6,947.98	242.19	39.46	-61.90	-1,845.56	336.77	8,920.39	8,824.42	95.97	92.946			
17,000.00	7,875.00	7,177.34	6,943.18	244.86	39.43	-61.76	-1,844.25	336.51	9,017.97	8,921.98	95.99	93.944			
17,100.00	7,875.00	7,172.35	6,938.37	247.53	39.40	-61.62	-1,842.94	336.25	9,115.61	9,019.60	96.01	94.942			
17,200.00	7,875.00	7,167.36	6,933.56	250.20	39.37	-61.48	-1,841.63	336.00	9,213.29	9,117.26	96.03	95.941			
17,300.00	7,875.00	7,162.37	6,928.76	252.87	39.34	-61.34	-1,840.32	335.74	9,311.02	9,214.97	96.05	96.941			
17,400.00	7,875.00	7,157.38	6,923.95	255.54	39.31	-61.20	-1,839.01	335.48	9,408.79	9,312.72	96.07	97.941			
17,500.00	7,875.00	7,152.39	6,919.14	258.21	39.28	-61.06	-1,837.70	335.23	9,506.61	9,410.52	96.08	98.941			
17,600.00	7,875.00	7,147.40	6,914.34	260.89	39.26	-60.91	-1,836.39	334.97	9,604.47	9,508.37	96.10	99.941			
17,700.00	7,875.00	7,142.42	6,909.53	263.56	39.23	-60.77	-1,835.07	334.72	9,702.37	9,606.25	96.12	100.942			
17,800.00	7,875.00	7,137.43	6,904.72	266.23	39.20	-60.63	-1,833.76	334.46	9,800.31	9,704.17	96.13	101.943			
17,900.00	7,875.00	7,132.44	6,899.92	268.91	39.17	-60.49	-1,832.45	334.20	9,898.29	9,802.14	96.15	102.945			
18,000.00	7,875.00	7,127.45	6,895.11	271.58	39.14	-60.35	-1,831.14	333.95	9,996.30	9,900.14	96.17	103.946			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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	4.50	-4.50	0.00	0.01	179.82	-174.85	0.56	174.85					
100.00	100.00	104.50	95.50	0.13	0.15	179.82	-174.85	0.56	174.85	174.57	0.28	613.554		
200.00	200.00	204.50	195.50	0.49	0.51	179.82	-174.85	0.56	174.85	173.85	1.00	174.517		
250.00	250.00	245.50	245.50	0.67	0.66	179.82	-174.85	0.56	174.85	173.53	1.33	131.653 CC		
300.00	300.00	292.91	292.91	0.85	0.82	82.85	-175.17	0.61	175.14	173.47	1.67	105.083 ES		
400.00	399.93	387.10	387.05	1.20	1.14	83.71	-178.09	1.06	177.83	175.49	2.34	76.069		
500.00	499.68	480.95	480.70	1.56	1.47	85.31	-184.05	1.99	183.49	180.46	3.03	60.614		
603.98	603.08	577.95	577.23	1.95	1.83	87.62	-193.38	3.43	192.75	188.99	3.76	51.225		
700.00	698.37	666.91	665.44	2.33	2.18	89.93	-204.78	5.20	204.59	200.13	4.46	45.914		
800.00	797.61	758.91	756.23	2.73	2.57	91.83	-219.40	7.47	220.23	215.05	5.18	42.496		
900.00	896.84	850.05	845.68	3.13	2.97	93.23	-236.73	10.15	239.05	233.14	5.91	40.447		
1,000.00	996.08	940.19	933.53	3.54	3.40	94.19	-256.62	13.23	260.90	254.26	6.64	39.302		
1,100.00	1,095.32	1,029.14	1,019.57	3.95	3.86	94.79	-278.91	16.69	285.63	278.26	7.36	38.785		
1,200.00	1,194.56	1,116.78	1,103.61	4.36	4.34	95.10	-303.45	20.49	313.14	305.06	8.08	38.748		
1,300.00	1,293.79	1,202.96	1,185.49	4.77	4.84	95.18	-330.05	24.61	343.35	334.55	8.80	39.032		
1,400.00	1,393.03	1,306.12	1,271.14	5.18	5.48	95.12	-360.18	29.28	375.69	366.07	9.62	39.072		
1,500.00	1,492.27	1,388.44	1,360.15	5.59	6.01	95.06	-391.70	34.16	408.23	397.86	10.37	39.378		
1,600.00	1,591.51	1,483.00	1,449.17	6.00	6.62	95.00	-423.23	39.05	440.76	429.58	11.18	39.433		
1,700.00	1,690.74	1,577.56	1,538.18	6.41	7.23	94.95	-454.75	43.93	473.30	461.31	11.99	39.466		
1,800.00	1,789.98	1,672.11	1,627.20	6.83	7.85	94.91	-486.27	48.82	505.84	493.03	12.81	39.485		
1,900.00	1,889.22	1,766.67	1,716.21	7.24	8.48	94.87	-517.80	53.70	538.37	524.74	13.63	39.494		
2,000.00	1,988.46	1,861.23	1,805.23	7.65	9.10	94.84	-549.32	58.59	570.91	556.46	14.46	39.495		
2,100.00	2,087.69	1,955.79	1,894.24	8.07	9.73	94.81	-580.84	63.47	603.45	588.17	15.28	39.492		
2,200.00	2,186.93	2,050.35	1,983.26	8.48	10.37	94.78	-612.37	68.36	635.99	619.88	16.11	39.485		
2,300.00	2,286.17	2,144.90	2,072.27	8.89	11.00	94.76	-643.89	73.24	668.52	651.59	16.94	39.476		
2,400.00	2,385.41	2,239.46	2,161.29	9.31	11.63	94.74	-675.41	78.13	701.06	683.30	17.76	39.465		
2,500.00	2,484.64	2,334.02	2,250.30	9.72	12.27	94.72	-706.93	83.01	733.60	715.01	18.59	39.453		
2,600.00	2,583.88	2,428.58	2,339.31	10.13	12.90	94.70	-738.46	87.90	766.14	746.71	19.43	39.440		
2,700.00	2,683.12	2,523.14	2,428.33	10.55	13.54	94.69	-769.98	92.78	798.68	778.42	20.26	39.426		
2,800.00	2,782.36	2,617.69	2,517.34	10.96	14.18	94.67	-801.50	97.67	831.22	810.13	21.09	39.413		
2,900.00	2,881.59	2,712.25	2,606.36	11.38	14.82	94.66	-833.03	102.55	863.75	841.83	21.92	39.399		
3,000.00	2,980.83	2,806.81	2,695.37	11.79	15.46	94.64	-864.55	107.44	896.29	873.54	22.76	39.385		
3,100.00	3,080.07	2,901.37	2,784.39	12.21	16.10	94.63	-896.07	112.32	928.83	905.24	23.59	39.372		
3,200.00	3,179.31	3,004.07	2,873.40	12.62	16.79	94.62	-927.60	117.20	961.37	936.91	24.46	39.297		
3,300.00	3,278.55	3,090.48	2,962.42	13.03	17.38	94.61	-959.12	122.09	993.91	968.65	25.26	39.345		
3,400.00	3,377.78	3,185.04	3,051.43	13.45	18.02	94.60	-990.64	126.97	1,026.45	1,000.35	26.10	39.332		
3,500.00	3,477.02	3,279.60	3,140.45	13.86	18.66	94.59	-1,022.17	131.86	1,058.98	1,032.05	26.93	39.320		
3,600.00	3,576.26	3,374.16	3,229.46	14.28	19.30	94.58	-1,053.69	136.74	1,091.52	1,063.75	27.77	39.308		
3,700.00	3,675.50	3,468.72	3,318.48	14.69	19.94	94.57	-1,085.21	141.63	1,124.06	1,095.46	28.61	39.296		
3,800.00	3,774.73	3,563.27	3,407.49	15.11	20.58	94.57	-1,116.74	146.51	1,156.60	1,127.16	29.44	39.284		
3,900.00	3,873.97	3,657.83	3,496.51	15.52	21.22	94.56	-1,148.26	151.40	1,189.14	1,158.86	30.28	39.272		
4,000.00	3,973.21	3,752.39	3,585.52	15.93	21.87	94.55	-1,179.78	156.28	1,221.68	1,190.56	31.12	39.261		
4,100.00	4,072.45	3,846.95	3,674.54	16.35	22.51	94.55	-1,211.31	161.17	1,254.22	1,222.26	31.95	39.251		
4,200.00	4,171.68	3,941.51	3,763.55	16.76	23.15	94.54	-1,242.83	166.05	1,286.76	1,253.96	32.79	39.240		
4,300.00	4,270.92	4,036.06	3,852.57	17.18	23.79	94.53	-1,274.35	170.94	1,319.29	1,285.66	33.63	39.230		
4,400.00	4,370.16	4,130.62	3,941.58	17.59	24.44	94.53	-1,305.88	175.82	1,351.83	1,317.36	34.47	39.220		
4,500.00	4,469.40	4,225.18	4,030.60	18.01	25.08	94.52	-1,337.40	180.71	1,384.37	1,349.06	35.31	39.210		
4,600.00	4,568.63	4,319.74	4,119.61	18.42	25.72	94.52	-1,368.92	185.59	1,416.91	1,380.76	36.15	39.200		
4,700.00	4,667.87	4,414.30	4,208.63	18.84	26.36	94.51	-1,400.45	190.48	1,449.45	1,412.46	36.98	39.191		
4,800.00	4,767.11	4,508.85	4,297.64	19.25	27.01	94.51	-1,431.97	195.36	1,481.99	1,444.16	37.82	39.182		
4,900.00	4,866.35	4,603.41	4,386.66	19.66	27.65	94.50	-1,463.49	200.24	1,514.53	1,475.86	38.66	39.173		
5,000.00	4,965.58	4,702.03	4,475.67	20.08	28.32	94.50	-1,495.01	205.13	1,547.06	1,507.54	39.52	39.145		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 4AH - 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	5,064.82	4,792.53	4,564.69	20.49	28.94	94.50	-1,526.54	210.01	1,579.60	1,539.26	40.34	39.156			
5,200.00	5,164.06	4,887.09	4,653.70	20.91	29.58	94.49	-1,558.06	214.90	1,612.14	1,570.96	41.18	39.147			
5,300.00	5,263.30	4,981.64	4,742.72	21.32	30.22	94.49	-1,589.58	219.78	1,644.68	1,602.66	42.02	39.139			
5,400.00	5,362.53	5,076.20	4,831.73	21.74	30.87	94.48	-1,621.11	224.67	1,677.22	1,634.36	42.86	39.131			
5,500.00	5,461.77	5,170.76	4,920.75	22.15	31.51	94.48	-1,652.63	229.55	1,709.76	1,666.06	43.70	39.123			
5,600.00	5,561.01	5,265.32	5,009.76	22.57	32.16	94.48	-1,684.15	234.44	1,742.30	1,697.76	44.54	39.116			
5,700.00	5,660.25	5,359.88	5,098.78	22.98	32.80	94.47	-1,715.68	239.32	1,774.84	1,729.45	45.38	39.108			
5,800.00	5,759.49	5,454.43	5,187.79	23.40	33.44	94.47	-1,747.20	244.21	1,807.37	1,761.15	46.22	39.101			
5,900.00	5,858.72	5,548.99	5,276.81	23.81	34.09	94.47	-1,778.72	249.09	1,839.91	1,792.85	47.06	39.094			
6,000.00	5,957.96	5,643.55	5,365.82	24.23	34.73	94.47	-1,810.25	253.98	1,872.45	1,824.55	47.91	39.087			
6,100.00	6,057.20	5,738.11	5,454.84	24.64	35.37	94.46	-1,841.77	258.86	1,904.99	1,856.24	48.75	39.080			
6,200.00	6,156.44	5,832.67	5,543.85	25.05	36.02	94.46	-1,873.29	263.75	1,937.53	1,887.94	49.59	39.073			
6,300.00	6,255.67	5,927.22	5,632.86	25.47	36.66	94.46	-1,904.82	268.63	1,970.07	1,919.64	50.43	39.066			
6,400.00	6,354.91	6,021.78	5,721.88	25.88	37.31	94.45	-1,936.34	273.52	2,002.61	1,951.34	51.27	39.059			
6,500.00	6,454.15	6,116.34	5,810.89	26.30	37.95	94.45	-1,967.86	278.40	2,035.15	1,983.03	52.11	39.053			
6,600.00	6,553.39	6,210.90	5,899.91	26.71	38.60	94.45	-1,999.39	283.28	2,067.69	2,014.73	52.95	39.046			
6,700.00	6,652.62	6,305.46	5,988.92	27.13	39.24	94.45	-2,030.91	288.17	2,100.22	2,046.43	53.80	39.040			
6,800.00	6,751.86	6,400.01	6,077.94	27.54	39.88	94.45	-2,062.43	293.05	2,132.76	2,078.12	54.64	39.033			
6,900.00	6,851.10	6,505.43	6,166.95	27.96	40.60	94.44	-2,093.96	297.94	2,165.30	2,109.77	55.53	38.991			
7,000.00	6,950.34	6,589.13	6,255.97	28.37	41.17	94.44	-2,125.48	302.82	2,197.84	2,141.52	56.32	39.021			
7,100.00	7,049.57	6,683.69	6,344.98	28.79	41.82	94.44	-2,157.00	307.71	2,230.38	2,173.21	57.17	39.015			
7,200.00	7,148.81	6,778.25	6,434.00	29.20	42.46	94.44	-2,188.53	312.59	2,262.92	2,204.91	58.01	39.009			
7,283.93	7,232.10	6,857.61	6,508.71	29.55	43.00	94.44	-2,214.98	316.69	2,290.23	2,231.51	58.72	39.004			
7,300.00	7,248.07	6,872.82	6,523.03	29.61	43.10	92.80	-2,220.05	317.48	2,295.41	2,236.56	58.85	39.004			
7,350.00	7,297.99	6,920.20	6,567.63	29.79	43.43	38.17	-2,235.85	319.93	2,310.94	2,251.72	59.22	39.020			
7,400.00	7,347.93	6,967.39	6,612.05	29.93	43.75	-63.48	-2,251.58	322.36	2,325.48	2,265.94	59.54	39.057			
7,450.00	7,397.53	7,014.04	6,655.97	30.03	44.07	-68.26	-2,267.13	324.77	2,338.97	2,279.17	59.81	39.109			
7,500.00	7,446.40	7,059.78	6,699.03	30.12	44.38	-69.26	-2,282.38	327.14	2,351.37	2,291.34	60.03	39.171			
7,550.00	7,494.17	7,104.28	6,740.92	30.19	44.68	-69.51	-2,297.22	329.44	2,362.65	2,302.44	60.21	39.241			
7,600.00	7,540.48	7,147.19	6,781.31	30.24	44.97	-69.56	-2,311.52	331.65	2,372.84	2,312.49	60.35	39.320			
7,650.00	7,584.98	7,188.18	6,819.90	30.28	45.25	-69.58	-2,325.19	333.77	2,381.95	2,321.51	60.45	39.405			
7,700.00	7,627.32	7,226.95	6,856.39	30.31	45.52	-69.63	-2,338.11	335.77	2,390.05	2,329.54	60.52	39.495			
7,750.00	7,667.19	7,263.19	6,890.51	30.33	45.76	-69.72	-2,350.19	337.64	2,397.20	2,336.64	60.56	39.586			
7,800.00	7,704.28	7,303.36	6,922.00	30.36	46.04	-69.85	-2,361.34	339.37	2,403.47	2,342.86	60.61	39.655			
7,850.00	7,738.31	7,327.03	6,950.61	30.40	46.20	-70.00	-2,371.48	340.94	2,408.94	2,348.35	60.59	39.759			
7,900.00	7,769.02	7,354.14	6,976.14	30.45	46.38	-70.17	-2,380.51	342.34	2,413.69	2,353.09	60.60	39.832			
7,950.00	7,796.17	7,377.77	6,998.37	30.52	46.55	-70.34	-2,388.39	343.56	2,417.81	2,357.20	60.61	39.891			
8,000.00	7,819.57	7,402.28	7,017.16	30.63	46.71	-70.48	-2,395.04	344.59	2,421.37	2,360.71	60.66	39.918			
8,050.00	7,839.03	7,413.85	7,032.34	30.76	46.79	-70.59	-2,400.42	345.43	2,424.44	2,363.75	60.69	39.948			
8,100.00	7,854.40	7,426.04	7,043.81	30.94	46.87	-70.64	-2,404.48	346.06	2,427.08	2,366.30	60.77	39.938			
8,150.00	7,865.57	7,434.19	7,051.49	31.15	46.93	-70.64	-2,407.20	346.48	2,429.32	2,368.44	60.88	39.901			
8,200.00	7,872.45	7,438.24	7,055.30	31.41	46.96	-70.57	-2,408.55	346.69	2,431.20	2,370.17	61.03	39.836			
8,254.13	7,875.00	7,437.97	7,055.05	31.72	46.96	-70.41	-2,408.46	346.67	2,432.82	2,371.60	61.22	39.736			
8,300.00	7,875.00	7,435.69	7,052.90	32.03	46.94	-70.36	-2,407.70	346.55	2,434.45	2,373.02	61.43	39.628			
8,400.00	7,875.00	7,430.71	7,048.22	32.86	46.91	-70.24	-2,406.04	346.30	2,440.97	2,378.90	62.08	39.323			
8,500.00	7,875.00	7,425.74	7,043.53	33.88	46.87	-70.12	-2,404.38	346.04	2,451.55	2,388.60	62.95	38.943			
8,600.00	7,875.00	7,420.76	7,038.85	35.09	46.84	-70.00	-2,402.72	345.78	2,466.13	2,402.10	64.03	38.512			
8,700.00	7,875.00	7,415.79	7,034.17	36.45	46.80	-69.89	-2,401.07	345.53	2,484.65	2,419.36	65.29	38.055			
8,800.00	7,875.00	7,410.82	7,029.49	37.96	46.77	-69.77	-2,399.41	345.27	2,507.01	2,440.32	66.69	37.594			
8,900.00	7,875.00	7,405.84	7,024.80	39.60	46.74	-69.65	-2,397.75	345.01	2,533.11	2,464.92	68.19	37.147			
9,000.00	7,875.00	7,400.87	7,020.12	41.34	46.70	-69.54	-2,396.09	344.76	2,562.84	2,493.06	69.78	36.729			
9,100.00	7,875.00	7,404.11	7,015.44	43.19	46.73	-69.42	-2,394.43	344.50	2,596.08	2,524.62	71.45	36.333			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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		
9,200.00	7,875.00	7,409.08	7,010.76	45.12	46.76	-69.30	-2,392.77	344.24	2,632.68	2,559.52	73.16	35.983		
9,300.00	7,875.00	7,385.94	7,006.07	47.12	46.60	-69.19	-2,391.12	343.99	2,672.52	2,597.77	74.76	35.749		
9,400.00	7,875.00	7,380.97	7,001.39	49.19	46.57	-69.07	-2,389.46	343.73	2,715.45	2,639.03	76.42	35.532		
9,500.00	7,875.00	7,376.00	6,996.71	51.32	46.53	-68.95	-2,387.80	343.47	2,761.33	2,683.27	78.07	35.372		
9,600.00	7,875.00	7,371.02	6,992.03	53.50	46.50	-68.83	-2,386.14	343.21	2,810.01	2,730.34	79.67	35.269		
9,700.00	7,875.00	7,366.05	6,987.34	55.72	46.47	-68.72	-2,384.48	342.96	2,861.35	2,780.11	81.24	35.222 SF		
9,800.00	7,875.00	7,361.07	6,982.66	57.98	46.43	-68.60	-2,382.82	342.70	2,915.21	2,832.46	82.75	35.230		
9,900.00	7,875.00	7,356.10	6,977.98	60.28	46.40	-68.48	-2,381.17	342.44	2,971.45	2,887.24	84.20	35.289		
10,000.00	7,875.00	7,351.13	6,973.30	62.61	46.36	-68.37	-2,379.51	342.19	3,029.94	2,944.34	85.60	35.397		
10,100.00	7,875.00	7,346.15	6,968.61	64.97	46.33	-68.25	-2,377.85	341.93	3,090.55	3,003.61	86.93	35.551		
10,200.00	7,875.00	7,341.18	6,963.93	67.35	46.30	-68.13	-2,376.19	341.67	3,153.16	3,064.95	88.20	35.748		
10,300.00	7,875.00	7,336.20	6,959.25	69.75	46.26	-68.02	-2,374.53	341.42	3,217.65	3,128.24	89.41	35.986		
10,400.00	7,875.00	7,331.23	6,954.56	72.18	46.23	-67.90	-2,372.88	341.16	3,283.91	3,193.35	90.56	36.262		
10,500.00	7,875.00	7,326.26	6,949.88	74.62	46.19	-67.78	-2,371.22	340.90	3,351.84	3,260.20	91.65	36.574		
10,600.00	7,875.00	7,321.28	6,945.20	77.08	46.16	-67.67	-2,369.56	340.65	3,421.34	3,328.67	92.67	36.918		
10,700.00	7,875.00	7,316.31	6,940.52	79.56	46.13	-67.55	-2,367.90	340.39	3,492.31	3,398.67	93.64	37.293		
10,800.00	7,875.00	7,311.33	6,935.83	82.05	46.09	-67.43	-2,366.24	340.13	3,564.67	3,470.11	94.56	37.697		
10,900.00	7,875.00	7,306.36	6,931.15	84.55	46.06	-67.32	-2,364.58	339.87	3,638.33	3,542.90	95.42	38.128		
11,000.00	7,875.00	7,301.39	6,926.47	87.06	46.03	-67.20	-2,362.93	339.62	3,713.21	3,616.97	96.24	38.583		
11,100.00	7,875.00	7,296.41	6,921.79	89.58	45.99	-67.08	-2,361.27	339.36	3,789.25	3,692.24	97.01	39.062		
11,200.00	7,875.00	7,291.43	6,917.10	92.11	46.07	-66.97	-2,359.61	339.10	3,866.37	3,768.55	97.83	39.523		
11,300.00	7,875.00	7,286.46	6,912.42	94.66	45.92	-66.85	-2,357.95	338.85	3,944.52	3,846.11	98.41	40.083		
11,400.00	7,875.00	7,281.49	6,907.74	97.20	45.89	-66.73	-2,356.29	338.59	4,023.62	3,924.57	99.05	40.622		
11,500.00	7,875.00	7,276.51	6,903.06	99.76	45.86	-66.62	-2,354.63	338.33	4,103.63	4,003.98	99.65	41.179		
11,600.00	7,875.00	7,271.54	6,898.37	102.32	45.82	-66.50	-2,352.98	338.08	4,184.50	4,084.28	100.22	41.753		
11,700.00	7,875.00	7,266.57	6,893.69	104.89	45.79	-66.38	-2,351.32	337.82	4,266.17	4,165.41	100.75	42.342		
11,800.00	7,875.00	7,261.59	6,889.01	107.47	45.75	-66.27	-2,349.66	337.56	4,348.60	4,247.34	101.26	42.946		
11,900.00	7,875.00	7,256.62	6,884.33	110.05	45.72	-66.15	-2,348.00	337.30	4,431.75	4,330.02	101.73	43.563		
12,000.00	7,875.00	7,251.64	6,879.64	112.64	45.69	-66.03	-2,346.34	337.05	4,515.58	4,413.40	102.18	44.193		
12,100.00	7,875.00	7,246.67	6,874.96	115.23	45.65	-65.92	-2,344.69	336.79	4,600.04	4,497.45	102.60	44.836		
12,200.00	7,875.00	7,241.70	6,870.28	117.82	45.62	-65.80	-2,343.03	336.53	4,685.52	4,582.12	102.99	45.489		
12,300.00	7,875.00	7,236.72	6,865.60	120.42	45.58	-65.68	-2,341.37	336.28	4,770.77	4,667.40	103.37	46.154		
12,400.00	7,875.00	7,231.75	6,860.91	123.03	45.55	-65.57	-2,339.71	336.02	4,856.96	4,753.24	103.72	46.828		
12,500.00	7,875.00	7,226.77	6,856.23	125.64	45.52	-65.45	-2,338.05	335.76	4,943.66	4,839.61	104.05	47.512		
12,600.00	7,875.00	7,221.80	6,851.55	128.25	45.48	-65.34	-2,336.39	335.51	5,030.86	4,926.50	104.36	48.206		
12,700.00	7,875.00	7,216.83	6,846.87	130.86	45.45	-65.22	-2,334.74	335.25	5,118.52	5,013.86	104.66	48.907		
12,800.00	7,875.00	7,211.85	6,842.18	133.48	45.42	-65.10	-2,333.08	334.99	5,206.62	5,101.68	104.94	49.617		
12,900.00	7,875.00	7,206.88	6,837.50	136.10	45.38	-64.99	-2,331.42	334.74	5,295.13	5,189.93	105.20	50.335		
13,000.00	7,875.00	7,201.90	6,832.82	138.72	45.35	-64.87	-2,329.76	334.48	5,384.05	5,278.60	105.45	51.060		
13,100.00	7,875.00	7,203.07	6,828.14	141.35	45.36	-64.76	-2,328.10	334.22	5,473.34	5,367.62	105.72	51.773		
13,200.00	7,875.00	7,208.05	6,823.45	143.98	45.39	-64.64	-2,326.44	333.96	5,562.99	5,456.99	106.00	52.481		
13,300.00	7,875.00	7,186.98	6,818.77	146.61	45.25	-64.52	-2,324.79	333.71	5,652.99	5,546.88	106.11	53.274		
13,400.00	7,875.00	7,182.01	6,814.09	149.24	45.21	-64.41	-2,323.13	333.45	5,743.31	5,637.00	106.31	54.025		
13,500.00	7,875.00	7,177.03	6,809.41	151.87	45.18	-64.29	-2,321.47	333.19	5,833.94	5,727.45	106.50	54.781		
13,600.00	7,875.00	7,172.06	6,804.72	154.51	45.14	-64.18	-2,319.81	332.94	5,924.87	5,818.20	106.67	55.543		
13,700.00	7,875.00	7,167.08	6,800.04	157.15	45.11	-64.06	-2,318.15	332.68	6,016.09	5,909.25	106.84	56.310		
13,800.00	7,875.00	7,162.11	6,795.36	159.79	45.08	-63.95	-2,316.50	332.42	6,107.57	6,000.57	107.00	57.082		
13,900.00	7,875.00	7,157.14	6,790.68	162.43	45.04	-63.83	-2,314.84	332.17	6,199.31	6,092.17	107.15	57.858		
14,000.00	7,875.00	7,152.16	6,785.99	165.07	45.01	-63.72	-2,313.18	331.91	6,291.31	6,184.02	107.29	58.639		
14,100.00	7,875.00	7,147.19	6,781.31	167.72	44.97	-63.60	-2,311.52	331.65	6,383.54	6,276.11	107.42	59.424		
14,200.00	7,875.00	7,142.21	6,776.63	170.36	44.94	-63.48	-2,309.86	331.39	6,475.99	6,368.44	107.55	60.214		
14,300.00	7,875.00	7,137.24	6,771.95	173.01	44.91	-63.37	-2,308.20	331.14	6,568.66	6,460.99	107.67	61.007		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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		
14,400.00	7,875.00	7,132.27	6,767.26	175.66	44.87	-63.25	-2,306.55	330.88	6,661.55	6,553.76	107.78	61.805		
14,500.00	7,875.00	7,127.29	6,762.58	178.31	44.84	-63.14	-2,304.89	330.62	6,754.63	6,646.73	107.89	62.606		
14,600.00	7,875.00	7,122.32	6,757.90	180.96	44.80	-63.02	-2,303.23	330.37	6,847.90	6,739.90	107.99	63.410		
14,700.00	7,875.00	7,117.34	6,753.22	183.61	44.77	-62.91	-2,301.57	330.11	6,941.35	6,833.26	108.09	64.218		
14,800.00	7,875.00	7,112.37	6,748.53	186.27	44.74	-62.79	-2,299.91	329.85	7,034.99	6,926.80	108.18	65.029		
14,900.00	7,875.00	7,107.39	6,743.85	188.92	44.70	-62.68	-2,298.25	329.60	7,128.79	7,020.52	108.27	65.843		
15,000.00	7,875.00	7,102.42	6,739.17	191.58	44.67	-62.56	-2,296.60	329.34	7,222.75	7,114.40	108.35	66.660		
15,100.00	7,875.00	7,097.45	6,734.49	194.24	44.64	-62.45	-2,294.94	329.08	7,316.88	7,208.44	108.43	67.480		
15,200.00	7,875.00	7,107.53	6,729.80	196.89	44.70	-62.33	-2,293.28	328.83	7,411.15	7,302.55	108.60	68.242		
15,300.00	7,875.00	7,087.50	6,725.12	199.55	44.57	-62.22	-2,291.62	328.57	7,505.56	7,396.99	108.58	69.128		
15,400.00	7,875.00	7,082.52	6,720.44	202.21	44.53	-62.11	-2,289.96	328.31	7,600.12	7,491.48	108.64	69.955		
15,500.00	7,875.00	7,077.55	6,715.76	204.87	44.50	-61.99	-2,288.31	328.05	7,694.81	7,586.11	108.71	70.786		
15,600.00	7,875.00	7,072.58	6,711.07	207.53	44.47	-61.88	-2,286.65	327.80	7,789.63	7,680.87	108.77	71.618		
15,700.00	7,875.00	7,067.60	6,706.39	210.20	44.43	-61.76	-2,284.99	327.54	7,884.58	7,775.76	108.82	72.453		
15,800.00	7,875.00	7,062.63	6,701.71	212.86	44.40	-61.65	-2,283.33	327.28	7,979.64	7,870.77	108.88	73.290		
15,900.00	7,875.00	7,057.65	6,697.03	215.52	44.36	-61.53	-2,281.67	327.03	8,074.83	7,965.90	108.93	74.130		
16,000.00	7,875.00	7,052.68	6,692.34	218.19	44.33	-61.42	-2,280.01	326.77	8,170.12	8,061.14	108.98	74.971		
16,100.00	7,875.00	7,047.71	6,687.66	220.85	44.30	-61.31	-2,278.36	326.51	8,265.52	8,156.50	109.02	75.814		
16,200.00	7,875.00	7,042.73	6,682.98	223.52	44.26	-61.19	-2,276.70	326.26	8,361.03	8,251.96	109.07	76.659		
16,300.00	7,875.00	7,037.76	6,678.30	226.18	44.23	-61.08	-2,275.04	326.00	8,456.64	8,347.53	109.11	77.506		
16,400.00	7,875.00	7,032.78	6,673.61	228.85	44.19	-60.96	-2,273.38	325.74	8,552.34	8,443.19	109.15	78.355		
16,500.00	7,875.00	7,027.81	6,668.93	231.52	44.16	-60.85	-2,271.72	325.48	8,648.14	8,538.95	109.19	79.205		
16,600.00	7,875.00	7,022.84	6,664.25	234.18	44.13	-60.74	-2,270.06	325.23	8,744.03	8,634.81	109.22	80.057		
16,700.00	7,875.00	7,017.86	6,659.57	236.85	44.09	-60.62	-2,268.41	324.97	8,840.01	8,730.75	109.26	80.911		
16,800.00	7,875.00	7,012.89	6,654.88	239.52	44.06	-60.51	-2,266.75	324.71	8,936.08	8,826.79	109.29	81.766		
16,900.00	7,875.00	7,007.91	6,650.20	242.19	44.03	-60.40	-2,265.09	324.46	9,032.22	8,922.90	109.32	82.622		
17,000.00	7,875.00	7,002.94	6,645.52	244.86	43.99	-60.28	-2,263.43	324.20	9,128.45	9,019.10	109.35	83.480		
17,100.00	7,875.00	7,002.04	6,640.84	247.53	43.99	-60.17	-2,261.77	323.94	9,224.75	9,115.35	109.40	84.319		
17,200.00	7,875.00	6,992.99	6,636.15	250.20	43.92	-60.06	-2,260.12	323.69	9,321.13	9,211.73	109.40	85.200		
17,300.00	7,875.00	6,988.02	6,631.47	252.87	43.89	-59.94	-2,258.46	323.43	9,417.59	9,308.16	109.43	86.062		
17,400.00	7,875.00	6,983.04	6,626.79	255.54	43.86	-59.83	-2,256.80	323.17	9,514.11	9,404.66	109.45	86.925		
17,500.00	7,875.00	6,978.07	6,622.11	258.21	43.82	-59.72	-2,255.14	322.92	9,610.70	9,501.23	109.47	87.790		
17,600.00	7,875.00	6,973.09	6,617.42	260.89	43.79	-59.60	-2,253.48	322.66	9,707.36	9,597.87	109.50	88.655		
17,700.00	7,875.00	6,968.12	6,612.74	263.56	43.75	-59.49	-2,251.82	322.40	9,804.08	9,694.57	109.52	89.522		
17,800.00	7,875.00	6,963.15	6,608.06	266.23	43.72	-59.38	-2,250.17	322.14	9,900.87	9,791.33	109.54	90.389		
17,900.00	7,875.00	6,958.17	6,603.38	268.91	43.69	-59.27	-2,248.51	321.89	9,997.72	9,888.16	109.55	91.258		

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 4BH - 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	4.50	-4.50	0.00	0.01	179.86	-224.75	0.56	224.75						
100.00	100.00	104.50	95.50	0.13	0.15	179.86	-224.75	0.56	224.75	224.47	0.28	788.651			
200.00	200.00	204.50	195.50	0.49	0.51	179.86	-224.75	0.56	224.75	223.75	1.00	224.321			
250.00	250.00	245.50	245.50	0.67	0.66	179.86	-224.75	0.56	224.75	223.43	1.33	169.225 CC			
300.00	300.00	292.21	292.21	0.85	0.82	82.87	-225.06	0.60	225.03	223.37	1.66	135.216 ES			
400.00	399.93	384.87	384.82	1.20	1.13	83.53	-227.90	0.97	227.68	225.35	2.33	97.713			
500.00	499.68	477.20	476.96	1.56	1.46	84.80	-233.68	1.71	233.23	230.22	3.01	77.389			
603.98	603.08	572.60	571.92	1.95	1.81	86.64	-242.75	2.87	242.27	238.52	3.74	64.729			
700.00	698.37	660.11	658.71	2.33	2.15	88.60	-253.82	4.29	253.81	249.38	4.43	57.303			
800.00	797.61	750.60	748.05	2.73	2.53	90.28	-268.02	6.11	269.12	263.97	5.15	52.275			
900.00	896.84	840.27	836.10	3.13	2.93	91.62	-284.86	8.27	287.62	281.75	5.87	49.020			
1,000.00	996.08	928.95	922.61	3.54	3.35	92.64	-304.18	10.75	309.17	302.59	6.59	46.947			
1,100.00	1,095.32	1,016.51	1,007.39	3.95	3.79	93.36	-325.86	13.53	333.65	326.35	7.30	45.696			
1,200.00	1,194.56	1,102.79	1,090.25	4.36	4.26	93.84	-349.72	16.59	360.94	352.93	8.01	45.065			
1,300.00	1,293.79	1,187.67	1,171.02	4.77	4.75	94.13	-375.61	19.91	390.95	382.23	8.71	44.867			
1,400.00	1,393.03	1,271.05	1,249.57	5.18	5.27	94.25	-403.33	23.46	423.58	414.17	9.41	45.006			
1,500.00	1,492.27	1,352.82	1,325.78	5.59	5.81	94.24	-432.71	27.23	458.77	448.67	10.10	45.419			
1,600.00	1,591.51	1,434.77	1,401.30	6.00	6.37	94.14	-464.28	31.28	496.40	485.61	10.80	45.980			
1,700.00	1,690.74	1,527.04	1,485.96	6.41	7.04	94.00	-500.67	35.95	534.93	523.33	11.60	46.114			
1,800.00	1,789.98	1,619.32	1,570.63	6.83	7.71	93.88	-537.06	40.61	573.46	561.05	12.41	46.209			
1,900.00	1,889.22	1,711.59	1,655.30	7.24	8.39	93.78	-573.45	45.28	611.99	598.77	13.22	46.278			
2,000.00	1,988.46	1,803.86	1,739.96	7.65	9.07	93.69	-609.84	49.95	650.52	636.48	14.04	46.328			
2,100.00	2,087.69	1,903.86	1,824.63	8.07	9.82	93.61	-646.23	54.61	689.06	674.16	14.90	46.247			
2,200.00	2,186.93	1,988.41	1,909.29	8.48	10.45	93.54	-682.62	59.28	727.59	711.90	15.69	46.386			
2,300.00	2,286.17	2,080.68	1,993.96	8.89	11.15	93.47	-719.01	63.95	766.13	749.61	16.51	46.402			
2,400.00	2,385.41	2,172.96	2,078.63	9.31	11.84	93.41	-755.40	68.61	804.66	787.32	17.34	46.411			
2,500.00	2,484.64	2,265.23	2,163.29	9.72	12.54	93.36	-791.79	73.28	843.20	825.03	18.17	46.416			
2,600.00	2,583.88	2,357.50	2,247.96	10.13	13.24	93.31	-828.18	77.95	881.74	862.74	19.00	46.417			
2,700.00	2,683.12	2,449.78	2,332.63	10.55	13.94	93.26	-864.57	82.61	920.27	900.45	19.83	46.415			
2,800.00	2,782.36	2,542.05	2,417.29	10.96	14.64	93.22	-900.96	87.28	958.81	938.15	20.66	46.412			
2,900.00	2,881.59	2,634.32	2,501.96	11.38	15.35	93.19	-937.35	91.95	997.35	975.86	21.49	46.406			
3,000.00	2,980.83	2,726.60	2,586.63	11.79	16.05	93.15	-973.74	96.61	1,035.89	1,013.57	22.33	46.400			
3,100.00	3,080.07	2,818.87	2,671.29	12.21	16.76	93.12	-1,010.13	101.28	1,074.43	1,051.27	23.16	46.392			
3,200.00	3,179.31	2,911.15	2,755.96	12.62	17.46	93.09	-1,046.52	105.95	1,112.97	1,088.98	23.99	46.384			
3,300.00	3,278.55	3,003.42	2,840.62	13.03	18.17	93.06	-1,082.91	110.61	1,151.51	1,126.68	24.83	46.375			
3,400.00	3,377.78	3,104.31	2,925.29	13.45	18.94	93.03	-1,119.30	115.28	1,190.05	1,164.34	25.71	46.289			
3,500.00	3,477.02	3,187.97	3,009.96	13.86	19.58	93.01	-1,155.69	119.95	1,228.59	1,202.09	26.50	46.356			
3,600.00	3,576.26	3,280.24	3,094.62	14.28	20.29	92.98	-1,192.08	124.61	1,267.13	1,239.79	27.34	46.346			
3,700.00	3,675.50	3,372.51	3,179.29	14.69	21.00	92.96	-1,228.47	129.28	1,305.67	1,277.49	28.18	46.336			
3,800.00	3,774.73	3,464.79	3,263.96	15.11	21.71	92.94	-1,264.86	133.95	1,344.21	1,315.20	29.02	46.326			
3,900.00	3,873.97	3,557.06	3,348.62	15.52	22.41	92.92	-1,301.25	138.61	1,382.75	1,352.90	29.85	46.316			
4,000.00	3,973.21	3,649.33	3,433.29	15.93	23.12	92.90	-1,337.64	143.28	1,421.30	1,390.60	30.69	46.306			
4,100.00	4,072.45	3,741.61	3,517.95	16.35	23.83	92.89	-1,374.03	147.95	1,459.84	1,428.30	31.53	46.296			
4,200.00	4,171.68	3,833.88	3,602.62	16.76	24.54	92.87	-1,410.42	152.62	1,498.38	1,466.01	32.37	46.286			
4,300.00	4,270.92	3,926.15	3,687.29	17.18	25.25	92.85	-1,446.81	157.28	1,536.92	1,503.71	33.21	46.277			
4,400.00	4,370.16	4,018.43	3,771.95	17.59	25.96	92.84	-1,483.20	161.95	1,575.46	1,541.41	34.05	46.267			
4,500.00	4,469.40	4,110.70	3,856.62	18.01	26.67	92.82	-1,519.59	166.62	1,614.00	1,579.11	34.89	46.257			
4,600.00	4,568.63	4,202.97	3,941.29	18.42	27.38	92.81	-1,555.98	171.28	1,652.54	1,616.81	35.73	46.247			
4,700.00	4,667.87	4,304.75	4,025.95	18.84	28.16	92.80	-1,592.37	175.95	1,691.09	1,654.47	36.62	46.179			
4,800.00	4,767.11	4,387.52	4,110.62	19.25	28.80	92.79	-1,628.76	180.62	1,729.63	1,692.21	37.41	46.228			
4,900.00	4,866.35	4,479.80	4,195.29	19.66	29.51	92.77	-1,665.15	185.28	1,768.17	1,729.91	38.26	46.219			
5,000.00	4,965.58	4,572.07	4,279.95	20.08	30.22	92.76	-1,701.54	189.95	1,806.71	1,767.61	39.10	46.210			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 15-T4S-R65W - PROSPER FARMS 4-65 14-13 4BH - 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	5,064.82	4,664.34	4,364.62	20.49	30.93	92.75	-1,737.93	194.62	1,845.25	1,805.31	39.94	46.201			
5,200.00	5,164.06	4,756.62	4,449.28	20.91	31.64	92.74	-1,774.32	199.28	1,883.80	1,843.01	40.78	46.192			
5,300.00	5,263.30	4,848.89	4,533.95	21.32	32.35	92.73	-1,810.71	203.95	1,922.34	1,880.71	41.62	46.183			
5,400.00	5,362.53	4,941.16	4,618.62	21.74	33.07	92.72	-1,847.10	208.62	1,960.88	1,918.41	42.47	46.174			
5,500.00	5,461.77	5,033.44	4,703.28	22.15	33.78	92.71	-1,883.49	213.28	1,999.42	1,956.11	43.31	46.166			
5,600.00	5,561.01	5,125.71	4,787.95	22.57	34.49	92.70	-1,919.88	217.95	2,037.97	1,993.81	44.15	46.157			
5,700.00	5,660.25	5,217.98	4,872.62	22.98	35.20	92.69	-1,956.27	222.62	2,076.51	2,031.51	45.00	46.148			
5,800.00	5,759.49	5,310.26	4,957.28	23.40	35.91	92.69	-1,992.66	227.28	2,115.05	2,069.21	45.84	46.140			
5,900.00	5,858.72	5,402.53	5,041.95	23.81	36.62	92.68	-2,029.05	231.95	2,153.59	2,106.91	46.68	46.132			
6,000.00	5,957.96	5,505.20	5,126.61	24.23	37.41	92.67	-2,065.44	236.62	2,192.14	2,144.56	47.58	46.074			
6,100.00	6,057.20	5,587.08	5,211.28	24.64	38.04	92.66	-2,101.83	241.28	2,230.68	2,182.31	48.37	46.115			
6,200.00	6,156.44	5,679.35	5,295.95	25.05	38.76	92.66	-2,138.22	245.95	2,269.22	2,220.00	49.22	46.107			
6,300.00	6,255.67	5,771.62	5,380.61	25.47	39.47	92.65	-2,174.61	250.62	2,307.76	2,257.70	50.06	46.099			
6,400.00	6,354.91	5,863.90	5,465.28	25.88	40.18	92.64	-2,211.00	255.28	2,346.31	2,295.40	50.91	46.091			
6,500.00	6,454.15	5,956.17	5,549.95	26.30	40.89	92.64	-2,247.39	259.95	2,384.85	2,333.10	51.75	46.083			
6,600.00	6,553.39	6,048.45	5,634.61	26.71	41.60	92.63	-2,283.78	264.62	2,423.39	2,370.80	52.60	46.075			
6,700.00	6,652.62	6,140.72	5,719.28	27.13	42.31	92.62	-2,320.17	269.28	2,461.93	2,408.49	53.44	46.068			
6,800.00	6,751.86	6,232.99	5,803.95	27.54	43.03	92.62	-2,356.56	273.95	2,500.48	2,446.19	54.29	46.060			
6,900.00	6,851.10	6,325.27	5,888.61	27.96	43.74	92.61	-2,392.95	278.62	2,539.02	2,483.89	55.13	46.052			
7,000.00	6,950.34	6,417.54	5,973.28	28.37	44.45	92.61	-2,429.34	283.28	2,577.56	2,521.58	55.98	46.045			
7,100.00	7,049.57	6,509.81	6,057.94	28.79	45.16	92.60	-2,465.73	287.95	2,616.11	2,559.28	56.83	46.037			
7,200.00	7,148.81	6,602.09	6,142.61	29.20	45.87	92.60	-2,502.12	292.62	2,654.65	2,596.98	57.67	46.030			
7,283.93	7,232.10	6,679.53	6,213.67	29.55	46.47	92.59	-2,532.66	296.53	2,687.00	2,628.61	58.38	46.023			
7,300.00	7,248.07	6,705.63	6,227.29	29.61	46.67	91.07	-2,538.52	297.28	2,693.15	2,634.58	58.57	45.980			
7,350.00	7,297.99	6,740.61	6,269.71	29.79	46.94	36.83	-2,556.75	299.62	2,711.80	2,652.90	58.89	46.045			
7,400.00	7,347.93	6,786.66	6,311.97	29.93	47.30	-64.42	-2,574.92	301.95	2,729.57	2,670.35	59.22	46.096			
7,450.00	7,397.53	6,832.19	6,353.74	30.03	47.65	-68.78	-2,592.87	304.25	2,746.37	2,686.88	59.49	46.167			
7,500.00	7,446.40	6,876.83	6,394.70	30.12	47.99	-69.37	-2,610.47	306.51	2,762.12	2,702.41	59.72	46.253			
7,550.00	7,494.17	6,920.26	6,434.55	30.19	48.33	-69.21	-2,627.60	308.71	2,776.78	2,716.88	59.91	46.353			
7,600.00	7,540.48	6,962.13	6,472.97	30.24	48.65	-68.84	-2,644.12	310.83	2,790.32	2,730.27	60.05	46.463			
7,650.00	7,584.98	7,002.14	6,509.68	30.28	48.96	-68.46	-2,659.89	312.85	2,802.72	2,742.56	60.17	46.582			
7,700.00	7,627.32	7,039.98	6,544.40	30.31	49.25	-68.11	-2,674.82	314.76	2,814.00	2,753.75	60.25	46.707			
7,750.00	7,667.19	7,075.36	6,576.86	30.33	49.53	-67.82	-2,688.77	316.55	2,824.17	2,763.86	60.30	46.832			
7,800.00	7,704.28	7,108.00	6,606.82	30.36	49.78	-67.59	-2,701.64	318.20	2,833.26	2,772.92	60.34	46.954			
7,850.00	7,738.31	7,137.67	6,634.04	30.40	50.01	-67.42	-2,713.34	319.70	2,841.32	2,780.96	60.37	47.068			
7,900.00	7,769.02	7,164.14	6,658.33	30.45	50.21	-67.28	-2,723.78	321.04	2,848.39	2,788.01	60.39	47.167			
7,950.00	7,796.17	7,187.20	6,679.49	30.52	50.39	-67.19	-2,732.88	322.21	2,854.52	2,794.10	60.42	47.246			
8,000.00	7,819.57	7,206.68	6,697.36	30.63	50.54	-67.11	-2,740.56	323.19	2,859.74	2,799.28	60.46	47.298			
8,050.00	7,839.03	7,222.44	6,711.82	30.76	50.66	-67.04	-2,746.77	323.99	2,864.11	2,803.58	60.53	47.319			
8,100.00	7,854.40	7,234.34	6,722.74	30.94	50.75	-66.97	-2,751.47	324.59	2,867.64	2,807.02	60.62	47.306			
8,150.00	7,865.57	7,242.30	6,730.05	31.15	50.81	-66.89	-2,754.61	325.00	2,870.37	2,809.63	60.74	47.255			
8,200.00	7,872.45	7,246.27	6,733.69	31.41	50.84	-66.80	-2,756.17	325.20	2,872.31	2,811.42	60.90	47.168			
8,254.13	7,875.00	7,246.02	6,733.46	31.72	50.84	-66.69	-2,756.07	325.18	2,873.53	2,812.43	61.10	47.032			
8,300.00	7,875.00	7,243.80	6,731.42	32.03	50.83	-66.64	-2,755.20	325.07	2,874.53	2,813.22	61.31	46.887			
8,400.00	7,875.00	7,238.97	6,726.99	32.86	50.79	-66.55	-2,753.29	324.83	2,879.24	2,817.29	61.95	46.474			
8,500.00	7,875.00	7,234.14	6,722.56	33.88	50.75	-66.45	-2,751.39	324.58	2,887.40	2,824.57	62.83	45.956			
8,600.00	7,875.00	7,229.31	6,718.13	35.09	50.71	-66.36	-2,749.48	324.34	2,898.99	2,835.07	63.91	45.360			
8,700.00	7,875.00	7,224.48	6,713.69	36.45	50.68	-66.26	-2,747.58	324.09	2,913.95	2,848.78	65.17	44.712			
8,800.00	7,875.00	7,219.65	6,709.26	37.96	50.64	-66.16	-2,745.67	323.85	2,932.24	2,865.66	66.58	44.040			
8,900.00	7,875.00	7,214.82	6,704.83	39.60	50.60	-66.07	-2,743.77	323.61	2,953.79	2,885.68	68.11	43.366			
9,000.00	7,875.00	7,209.99	6,700.40	41.34	50.56	-65.97	-2,741.86	323.36	2,978.54	2,908.80	69.74	42.708			
9,100.00	7,875.00	7,205.16	6,695.96	43.19	50.53	-65.87	-2,739.96	323.12	3,006.41	2,934.97	71.44	42.081			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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			
9,200.00	7,875.00	7,200.33	6,691.53	45.12	50.49	-65.78	-2,738.05	322.87	3,037.31	2,964.11	73.20	41.495			
9,300.00	7,875.00	7,204.50	6,687.10	47.12	50.52	-65.68	-2,736.15	322.63	3,071.15	2,996.12	75.02	40.937			
9,400.00	7,875.00	7,209.34	6,682.67	49.19	50.56	-65.59	-2,734.24	322.38	3,107.83	3,030.96	76.87	40.432			
9,500.00	7,875.00	7,185.83	6,678.23	51.32	50.38	-65.49	-2,732.34	322.14	3,147.25	3,068.68	78.57	40.057			
9,600.00	7,875.00	7,181.00	6,673.80	53.50	50.34	-65.39	-2,730.43	321.90	3,189.32	3,108.97	80.35	39.693			
9,700.00	7,875.00	7,176.17	6,669.37	55.72	50.30	-65.30	-2,728.53	321.65	3,233.92	3,151.82	82.10	39.389			
9,800.00	7,875.00	7,171.34	6,664.94	57.98	50.27	-65.20	-2,726.62	321.41	3,280.96	3,197.14	83.82	39.141			
9,900.00	7,875.00	7,166.51	6,660.50	60.28	50.23	-65.11	-2,724.72	321.16	3,330.33	3,244.83	85.50	38.950			
10,000.00	7,875.00	7,161.68	6,656.07	62.61	50.19	-65.01	-2,722.81	320.92	3,381.93	3,294.80	87.13	38.813			
10,100.00	7,875.00	7,156.85	6,651.64	64.97	50.15	-64.91	-2,720.91	320.67	3,435.67	3,346.95	88.72	38.727			
10,200.00	7,875.00	7,152.02	6,647.21	67.35	50.12	-64.82	-2,719.00	320.43	3,491.43	3,401.19	90.24	38.689 SF			
10,300.00	7,875.00	7,147.19	6,642.77	69.75	50.08	-64.72	-2,717.10	320.19	3,549.13	3,457.41	91.71	38.698			
10,400.00	7,875.00	7,142.36	6,638.34	72.18	50.04	-64.62	-2,715.19	319.94	3,608.67	3,515.54	93.13	38.750			
10,500.00	7,875.00	7,137.53	6,633.91	74.62	50.00	-64.53	-2,713.29	319.70	3,669.96	3,575.48	94.48	38.844			
10,600.00	7,875.00	7,132.70	6,629.48	77.08	49.97	-64.43	-2,711.38	319.45	3,732.92	3,637.14	95.78	38.975			
10,700.00	7,875.00	7,127.87	6,625.04	79.56	49.93	-64.34	-2,709.48	319.21	3,797.46	3,700.45	97.02	39.143			
10,800.00	7,875.00	7,123.03	6,620.61	82.05	49.89	-64.24	-2,707.57	318.96	3,863.51	3,765.31	98.20	39.344			
10,900.00	7,875.00	7,118.20	6,616.18	84.55	49.86	-64.14	-2,705.67	318.72	3,930.99	3,831.66	99.33	39.577			
11,000.00	7,875.00	7,113.37	6,611.75	87.06	49.82	-64.05	-2,703.76	318.48	3,999.82	3,899.42	100.40	39.839			
11,100.00	7,875.00	7,108.54	6,607.31	89.58	49.78	-63.95	-2,701.86	318.23	4,069.94	3,968.52	101.42	40.129			
11,200.00	7,875.00	7,103.71	6,602.88	92.11	49.74	-63.86	-2,699.95	317.99	4,141.28	4,038.89	102.39	40.445			
11,300.00	7,875.00	7,098.88	6,598.45	94.66	49.71	-63.76	-2,698.05	317.74	4,213.78	4,110.47	103.32	40.786			
11,400.00	7,875.00	7,105.95	6,594.02	97.20	49.76	-63.66	-2,696.14	317.50	4,287.39	4,183.12	104.27	41.120			
11,500.00	7,875.00	7,089.22	6,589.58	99.76	49.63	-63.57	-2,694.24	317.25	4,362.04	4,257.01	105.02	41.534			
11,600.00	7,875.00	7,084.39	6,585.15	102.32	49.59	-63.47	-2,692.33	317.01	4,437.68	4,331.86	105.81	41.938			
11,700.00	7,875.00	7,079.56	6,580.72	104.89	49.56	-63.38	-2,690.43	316.77	4,514.26	4,407.70	106.56	42.362			
11,800.00	7,875.00	7,074.73	6,576.29	107.47	49.52	-63.28	-2,688.52	316.52	4,591.74	4,484.46	107.28	42.803			
11,900.00	7,875.00	7,069.90	6,571.85	110.05	49.48	-63.18	-2,686.61	316.28	4,670.07	4,562.12	107.95	43.261			
12,000.00	7,875.00	7,065.07	6,567.42	112.64	49.45	-63.09	-2,684.71	316.03	4,749.21	4,640.62	108.59	43.735			
12,100.00	7,875.00	7,060.24	6,562.99	115.23	49.41	-62.99	-2,682.80	315.79	4,829.12	4,719.92	109.20	44.223			
12,200.00	7,875.00	7,055.40	6,558.56	117.82	49.37	-62.90	-2,680.90	315.54	4,909.76	4,799.98	109.77	44.726			
12,300.00	7,875.00	7,050.57	6,554.12	120.42	49.33	-62.80	-2,679.00	315.30	4,991.09	4,880.77	110.32	45.242			
12,400.00	7,875.00	7,045.74	6,549.69	123.03	49.30	-62.71	-2,677.09	315.06	5,073.09	4,962.25	110.84	45.770			
12,500.00	7,875.00	7,040.91	6,545.26	125.64	49.26	-62.61	-2,675.18	314.81	5,155.72	5,044.39	111.33	46.310			
12,600.00	7,875.00	7,036.08	6,540.83	128.25	49.22	-62.51	-2,673.28	314.57	5,238.95	5,127.15	111.80	46.862			
12,700.00	7,875.00	7,031.25	6,536.39	130.86	49.18	-62.42	-2,671.37	314.32	5,322.75	5,210.51	112.24	47.424			
12,800.00	7,875.00	7,026.42	6,531.96	133.48	49.15	-62.32	-2,669.47	314.08	5,407.10	5,294.44	112.66	47.996			
12,900.00	7,875.00	7,021.59	6,527.53	136.10	49.11	-62.23	-2,667.56	313.83	5,491.97	5,378.92	113.06	48.577			
13,000.00	7,875.00	7,016.76	6,523.10	138.72	49.07	-62.13	-2,665.66	313.59	5,577.34	5,463.91	113.43	49.168			
13,100.00	7,875.00	7,011.93	6,518.66	141.35	49.04	-62.04	-2,663.75	313.35	5,663.18	5,549.39	113.79	49.767			
13,200.00	7,875.00	7,007.10	6,514.23	143.98	49.00	-61.94	-2,661.85	313.10	5,749.48	5,635.35	114.13	50.375			
13,300.00	7,875.00	7,002.27	6,509.80	146.61	48.96	-61.85	-2,659.94	312.86	5,836.21	5,721.75	114.46	50.990			
13,400.00	7,875.00	7,002.56	6,505.37	149.24	48.96	-61.75	-2,658.04	312.61	5,923.35	5,808.55	114.80	51.597			
13,500.00	7,875.00	7,007.39	6,500.93	151.87	49.00	-61.65	-2,656.13	312.37	6,010.90	5,895.74	115.16	52.197			
13,600.00	7,875.00	6,987.77	6,496.50	154.51	48.85	-61.56	-2,654.23	312.12	6,098.82	5,983.48	115.33	52.879			
13,700.00	7,875.00	6,982.94	6,492.07	157.15	48.81	-61.46	-2,652.32	311.88	6,187.10	6,071.50	115.60	53.523			
13,800.00	7,875.00	6,978.11	6,487.64	159.79	48.77	-61.37	-2,650.42	311.63	6,275.73	6,159.88	115.85	54.172			
13,900.00	7,875.00	6,973.28	6,483.20	162.43	48.74	-61.27	-2,648.51	311.39	6,364.69	6,248.61	116.09	54.828			
14,000.00	7,875.00	6,968.45	6,478.77	165.07	48.70	-61.18	-2,646.61	311.15	6,453.98	6,337.67	116.31	55.489			
14,100.00	7,875.00	6,963.62	6,474.34	167.72	48.66	-61.08	-2,644.70	310.90	6,543.57	6,427.04	116.53	56.155			
14,200.00	7,875.00	6,958.79	6,469.91	170.36	48.63	-60.99	-2,642.80	310.66	6,633.45	6,516.72	116.73	56.827			
14,300.00	7,875.00	6,953.96	6,465.47	173.01	48.59	-60.89	-2,640.89	310.41	6,723.62	6,606.69	116.93	57.504			

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

## Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													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			
14,400.00	7,875.00	6,949.13	6,461.04	175.66	48.55	-60.80	-2,638.99	310.17	6,814.06	6,696.95	117.11	58.185			
14,500.00	7,875.00	6,944.30	6,456.61	178.31	48.51	-60.70	-2,637.08	309.92	6,904.75	6,787.47	117.29	58.871			
14,600.00	7,875.00	6,939.47	6,452.18	180.96	48.48	-60.61	-2,635.18	309.68	6,995.70	6,878.25	117.45	59.562			
14,700.00	7,875.00	6,934.64	6,447.75	183.61	48.44	-60.51	-2,633.27	309.44	7,086.89	6,969.28	117.61	60.257			
14,800.00	7,875.00	6,929.81	6,443.31	186.27	48.40	-60.42	-2,631.37	309.19	7,178.31	7,060.55	117.76	60.956			
14,900.00	7,875.00	6,924.98	6,438.88	188.92	48.36	-60.32	-2,629.46	308.95	7,269.95	7,152.05	117.91	61.659			
15,000.00	7,875.00	6,920.14	6,434.45	191.58	48.33	-60.23	-2,627.56	308.70	7,361.81	7,243.77	118.04	62.366			
15,100.00	7,875.00	6,915.31	6,430.02	194.24	48.29	-60.13	-2,625.65	308.46	7,453.87	7,335.70	118.17	63.076			
15,200.00	7,875.00	6,910.48	6,425.58	196.89	48.25	-60.04	-2,623.75	308.21	7,546.14	7,427.84	118.30	63.790			
15,300.00	7,875.00	6,905.65	6,421.15	199.55	48.22	-59.94	-2,621.84	307.97	7,638.59	7,520.18	118.41	64.507			
15,400.00	7,875.00	6,900.82	6,416.72	202.21	48.18	-59.85	-2,619.94	307.73	7,731.23	7,612.70	118.53	65.228			
15,500.00	7,875.00	6,904.01	6,412.29	204.87	48.20	-59.75	-2,618.03	307.48	7,824.05	7,705.36	118.69	65.920			
15,600.00	7,875.00	6,908.84	6,407.85	207.53	48.24	-59.66	-2,616.13	307.24	7,917.04	7,798.17	118.86	66.608			
15,700.00	7,875.00	6,886.33	6,403.42	210.20	48.07	-59.56	-2,614.22	306.99	8,010.19	7,891.36	118.83	67.409			
15,800.00	7,875.00	6,881.50	6,398.99	212.86	48.03	-59.47	-2,612.32	306.75	8,103.51	7,984.58	118.92	68.141			
15,900.00	7,875.00	6,876.67	6,394.56	215.52	47.99	-59.37	-2,610.41	306.50	8,196.98	8,077.97	119.01	68.877			
16,000.00	7,875.00	6,871.84	6,390.12	218.19	47.95	-59.28	-2,608.51	306.26	8,290.60	8,171.50	119.09	69.615			
16,100.00	7,875.00	6,867.01	6,385.69	220.85	47.92	-59.18	-2,606.60	306.02	8,384.36	8,265.19	119.17	70.356			
16,200.00	7,875.00	6,862.18	6,381.26	223.52	47.88	-59.09	-2,604.70	305.77	8,478.26	8,359.02	119.25	71.099			
16,300.00	7,875.00	6,857.35	6,376.83	226.18	47.84	-58.99	-2,602.79	305.53	8,572.30	8,452.99	119.32	71.845			
16,400.00	7,875.00	6,852.51	6,372.39	228.85	47.81	-58.90	-2,600.89	305.28	8,666.47	8,547.09	119.38	72.593			
16,500.00	7,875.00	6,847.68	6,367.96	231.52	47.77	-58.81	-2,598.98	305.04	8,760.77	8,641.32	119.45	73.343			
16,600.00	7,875.00	6,842.85	6,363.53	234.18	47.73	-58.71	-2,597.08	304.79	8,855.19	8,735.68	119.51	74.096			
16,700.00	7,875.00	6,838.02	6,359.10	236.85	47.69	-58.62	-2,595.17	304.55	8,949.73	8,830.16	119.57	74.851			
16,800.00	7,875.00	6,833.19	6,354.66	239.52	47.66	-58.52	-2,593.26	304.31	9,044.38	8,924.76	119.62	75.607			
16,900.00	7,875.00	6,828.36	6,350.23	242.19	47.62	-58.43	-2,591.36	304.06	9,139.15	9,019.47	119.68	76.366			
17,000.00	7,875.00	6,823.53	6,345.80	244.86	47.58	-58.33	-2,589.45	303.82	9,234.02	9,114.29	119.73	77.127			
17,100.00	7,875.00	6,818.70	6,341.37	247.53	47.54	-58.24	-2,587.55	303.57	9,328.99	9,209.22	119.77	77.889			
17,200.00	7,875.00	6,813.87	6,336.93	250.20	47.51	-58.15	-2,585.64	303.33	9,424.07	9,304.25	119.82	78.654			
17,300.00	7,875.00	6,809.04	6,332.50	252.87	47.47	-58.05	-2,583.74	303.08	9,519.25	9,399.39	119.86	79.420			
17,400.00	7,875.00	6,804.21	6,328.07	255.54	47.43	-57.96	-2,581.83	302.84	9,614.52	9,494.62	119.90	80.188			
17,500.00	7,875.00	6,800.62	6,323.64	258.21	47.41	-57.86	-2,579.93	302.60	9,709.88	9,589.94	119.95	80.951			
17,600.00	7,875.00	6,805.45	6,319.20	260.89	47.44	-57.77	-2,578.02	302.35	9,805.34	9,685.29	120.05	81.675			
17,700.00	7,875.00	6,789.71	6,314.77	263.56	47.32	-57.68	-2,576.12	302.11	9,900.88	9,780.87	120.01	82.502			
17,800.00	7,875.00	6,784.88	6,310.34	266.23	47.28	-57.58	-2,574.21	301.86	9,996.51	9,876.47	120.04	83.276			

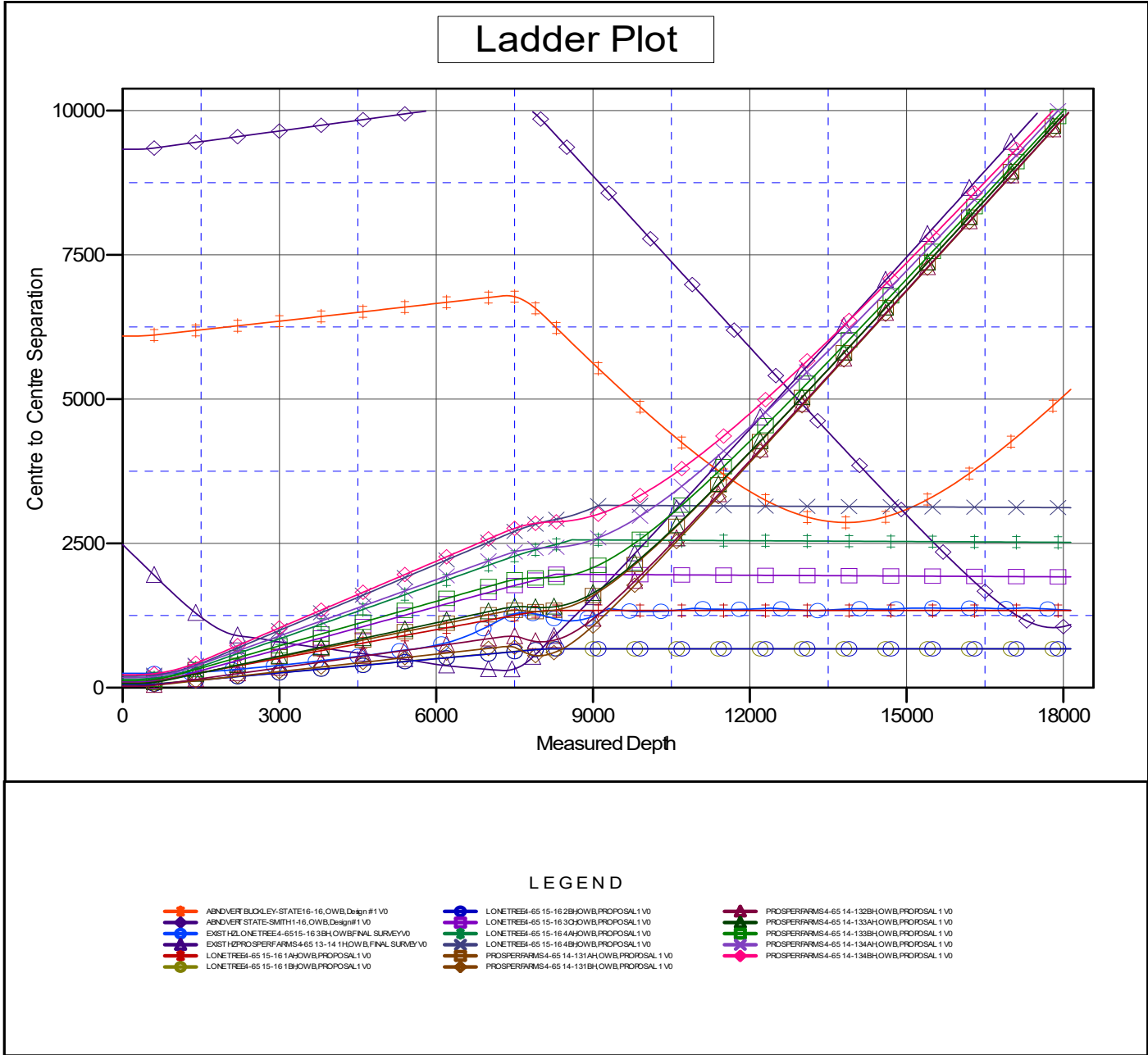
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b> CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b> Well LONE TREE 4-65 15-16 2AH
<b>Project:</b> ARAPAHOE COUNTY	<b>TVD Reference:</b> KB 25' @ 5722.80usft
<b>Reference Site:</b> SEC 15-T4S-R65W	<b>MD Reference:</b> KB 25' @ 5722.80usft
<b>Site Error:</b> 0.00 usft	<b>North Reference:</b> True
<b>Reference Well:</b> LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Well Error:</b> 0.00 usft	<b>Output errors are at:</b> 2.00 sigma
<b>Reference Wellbore:</b> OWB	<b>Database:</b> EDT_32Bit_ODBC
<b>Reference Design:</b> PROPOSAL 1	<b>Offset TVD Reference:</b> Offset Datum

Reference Depths are relative to KB 25' @ 5722.80usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: LONE TREE 4-65 15-16 2AH  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: 0.54°



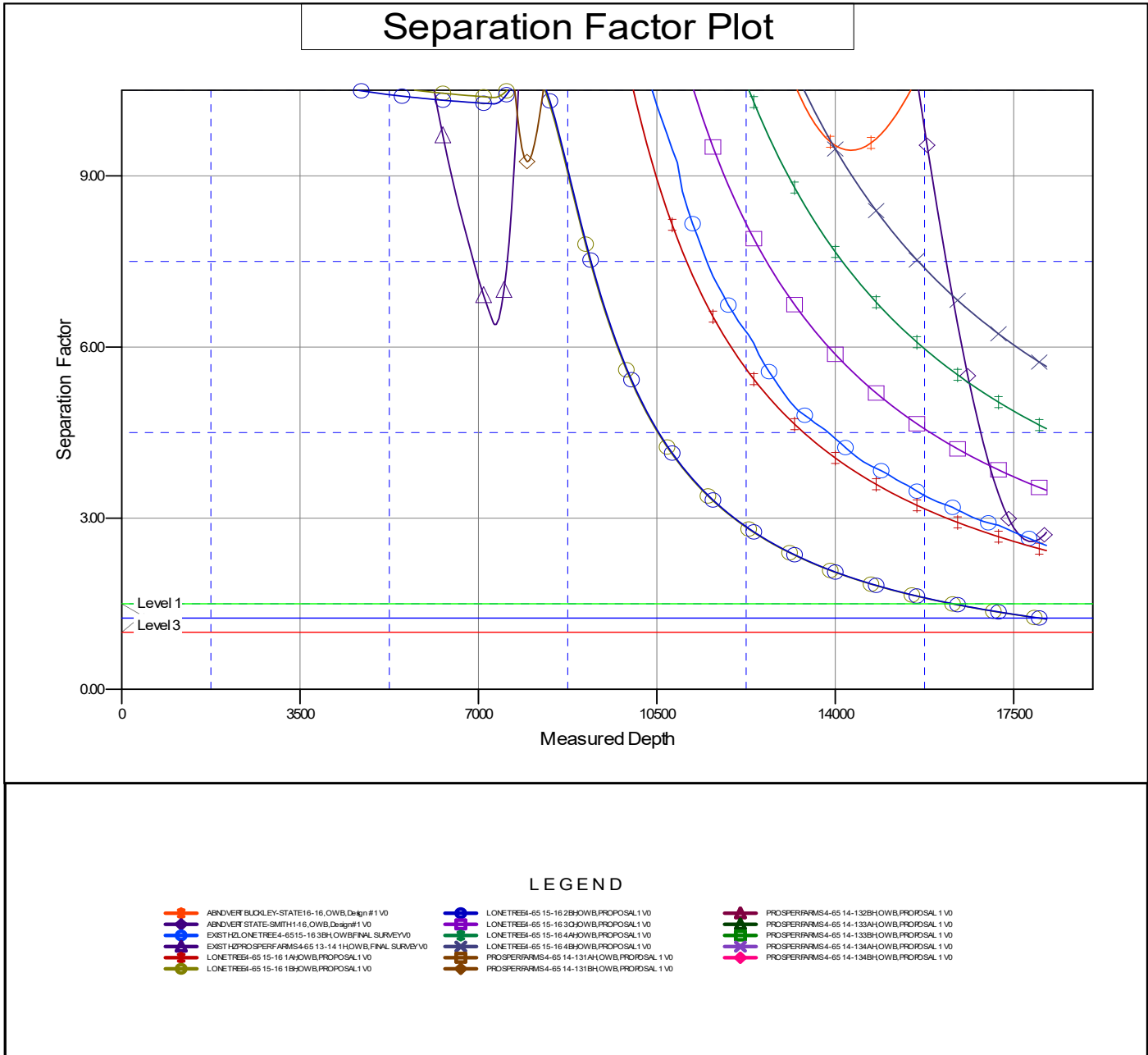
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# Anticollision Report

<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>Local Co-ordinate Reference:</b>	Well LONE TREE 4-65 15-16 2AH
<b>Project:</b>	ARAPAHOE COUNTY	<b>TVD Reference:</b>	KB 25' @ 5722.80usft
<b>Reference Site:</b>	SEC 15-T4S-R65W	<b>MD Reference:</b>	KB 25' @ 5722.80usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	LONE TREE 4-65 15-16 2AH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 5722.80usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: LONE TREE 4-65 15-16 2AH  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: 0.54°



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