

CRESTONE PEAK RESOURCES

ADAMS COUNTY

SEC 34-T3S-R65W

BLUE 3-65 33-32-31-36 4AH

OWB

Plan: PROPOSAL 1

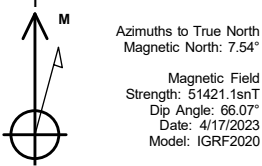
Standard Planning Report

17 April, 2023

PROJECT DETAILS: ADAMS COUNTY

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

Project: ADAMS COUNTY
Site: SEC 34-T3S-R65W
Well: BLUE 3-65 33-32-31-36 4AH
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: BLUE 3-65 33-32-31-36 4AH

				5592.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1151529.16	3236946.88	39.746223°N	104.657348°W		

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	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	850.81	11.02	196.01	847.42	-50.74	-14.56	2.00	196.01	17.36	
4	7283.79	11.02	196.01	7161.86	-1232.36	-353.49	0.00	0.00	421.58	
5	8154.26	90.00	270.37	7696.00	-1328.83	-926.31	10.00	74.64	998.89	LP-BLUE 3-65 4AH
6	28697.14	90.00	270.37	7696.00	-1197.58	-21468.77	0.00	0.00	21502.15	PBHL-BLUE 3-65 4AH

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	Start Build 2.00
850.81	11.02	196.01	847.42	-50.74	-14.56	17.36	52.79	Start 6432.98 hold at 850.81 MD
7283.79	11.02	196.01	7161.86	-1232.36	-353.49	421.58	1282.05	Start DLS 10.00 TFO 74.64
8154.26	90.00	270.37	7696.00	-1328.83	-926.31	998.89	1875.03	Start 20542.88 hold at 8154.26 MD
28697.14	90.00	270.37	7696.00	-1197.58	-21468.77	21502.15	22417.90	TD at 28697.14

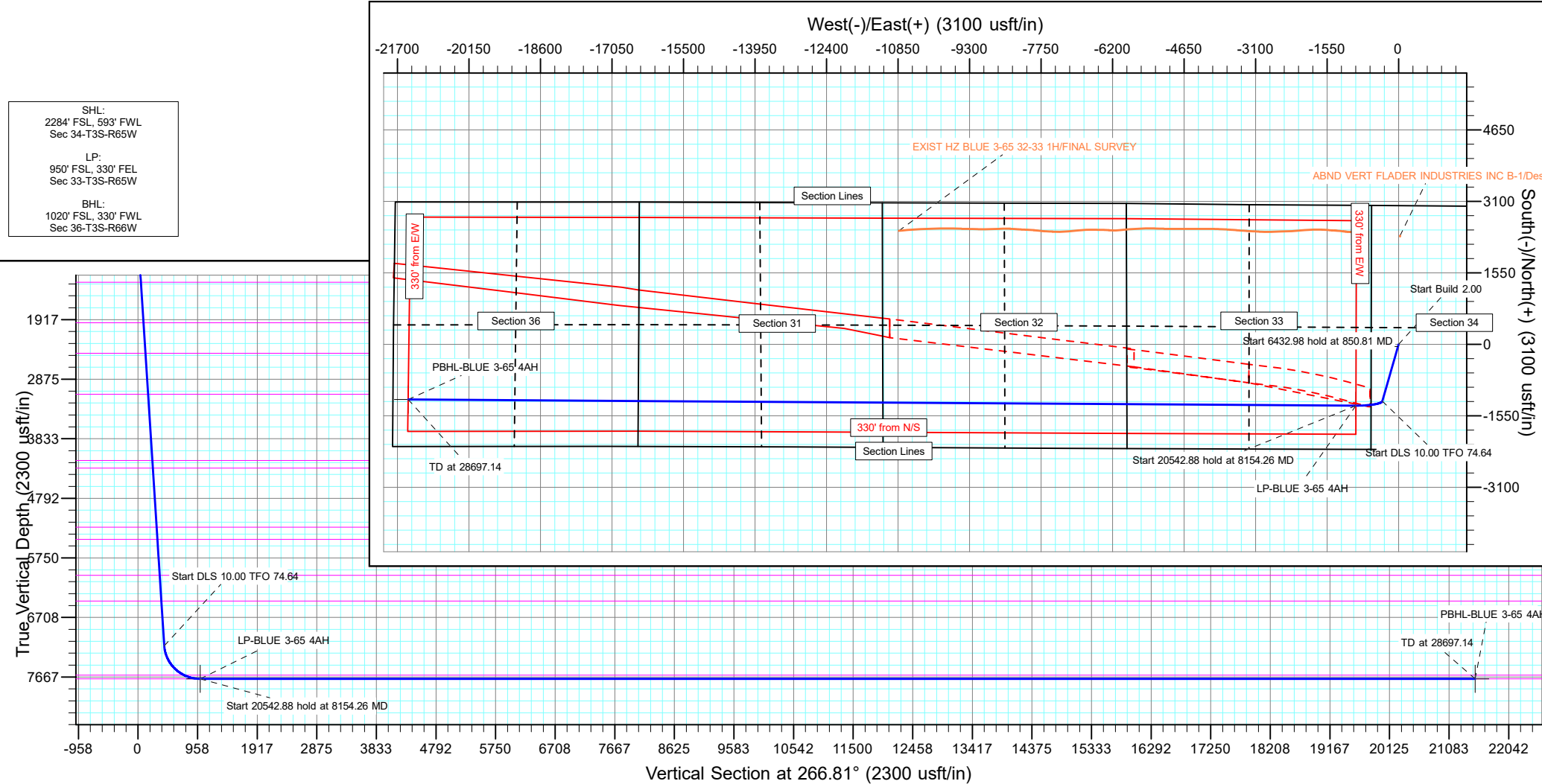
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-BLUE 3-65 4AH	7696.00	-1328.83	-926.31	1150191.59	3236033.24	39.742575°N	104.660642°W	Point
PBHL-BLUE 3-65 4AH	7696.00	-1197.58	-21468.77	1150127.63	3215490.56	39.742910°N	104.733692°W	Point

SHL:
2284' FSL, 593' FWL
Sec 34-T3S-R65W

LP:
950' FSL, 330' FEL
Sec 33-T3S-R65W

BHL:
1020' FSL, 330' FWL
Sec 36-T3S-R66W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Project	ADAMS COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		SEC 34-T3S-R65W			
Site Position:		Northing:	1,149,243.63 usft	Latitude:	39.739964°N
From:	Lat/Long	Easting:	3,236,370.14 usft	Longitude:	104.659476°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.54 °

Well	BLUE 3-65 33-32-31-36 4AH					
Well Position	+N/-S	2,279.96 usft	Northing:	1,151,529.15 usft	Latitude:	39.746223°N
	+E/-W	598.39 usft	Easting:	3,236,946.88 usft	Longitude:	104.657348°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,592.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/17/2023	7.54	66.07	51,421.09048188

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	266.81

Plan Survey Tool Program	Date	4/17/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	28,697.14	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

Plan Sections										
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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.81	11.02	196.01	847.42	-50.74	-14.56	2.00	2.00	0.00	196.01	
7,283.79	11.02	196.01	7,161.86	-1,232.36	-353.49	0.00	0.00	0.00	0.00	
8,154.26	90.00	270.37	7,696.00	-1,328.83	-926.31	10.00	9.07	8.54	74.64	LP-BLUE 3-65 4AH
28,697.14	90.00	270.37	7,696.00	-1,197.58	-21,468.77	0.00	0.00	0.00	0.00	PBHL-BLUE 3-65 4AH

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
Denver									
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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	196.01	399.98	-1.68	-0.48	0.57	2.00	2.00	0.00
500.00	4.00	196.01	499.84	-6.71	-1.92	2.29	2.00	2.00	0.00
600.00	6.00	196.01	599.45	-15.09	-4.33	5.16	2.00	2.00	0.00
700.00	8.00	196.01	698.70	-26.80	-7.69	9.17	2.00	2.00	0.00
717.48	8.35	196.01	716.00	-29.19	-8.37	9.98	2.00	2.00	0.00
Arapahoe									
800.00	10.00	196.01	797.47	-41.84	-12.00	14.31	2.00	2.00	0.00
850.81	11.02	196.01	847.42	-50.74	-14.56	17.36	2.00	2.00	0.00
Start 6432.98 hold at 850.81 MD									
900.00	11.02	196.01	895.71	-59.78	-17.15	20.45	0.00	0.00	0.00
1,000.00	11.02	196.01	993.86	-78.15	-22.42	26.73	0.00	0.00	0.00
1,100.00	11.02	196.01	1,092.02	-96.51	-27.68	33.02	0.00	0.00	0.00
1,200.00	11.02	196.01	1,190.18	-114.88	-32.95	39.30	0.00	0.00	0.00
1,300.00	11.02	196.01	1,288.34	-133.25	-38.22	45.58	0.00	0.00	0.00
1,328.18	11.02	196.01	1,316.00	-138.43	-39.71	47.35	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,400.00	11.02	196.01	1,386.49	-151.62	-43.49	51.87	0.00	0.00	0.00
1,500.00	11.02	196.01	1,484.65	-169.99	-48.76	58.15	0.00	0.00	0.00
1,600.00	11.02	196.01	1,582.81	-188.35	-54.03	64.43	0.00	0.00	0.00
1,700.00	11.02	196.01	1,680.96	-206.72	-59.30	70.72	0.00	0.00	0.00
1,800.00	11.02	196.01	1,779.12	-225.09	-64.57	77.00	0.00	0.00	0.00
1,900.00	11.02	196.01	1,877.28	-243.46	-69.83	83.28	0.00	0.00	0.00
1,990.39	11.02	196.01	1,966.00	-260.06	-74.60	88.96	0.00	0.00	0.00
Pierre Formation									
2,000.00	11.02	196.01	1,975.44	-261.83	-75.10	89.57	0.00	0.00	0.00
2,100.00	11.02	196.01	2,073.59	-280.19	-80.37	95.85	0.00	0.00	0.00
2,200.00	11.02	196.01	2,171.75	-298.56	-85.64	102.14	0.00	0.00	0.00
2,300.00	11.02	196.01	2,269.91	-316.93	-90.91	108.42	0.00	0.00	0.00
2,400.00	11.02	196.01	2,368.07	-335.30	-96.18	114.70	0.00	0.00	0.00
2,489.59	11.02	196.01	2,456.00	-351.75	-100.90	120.33	0.00	0.00	0.00
Upper Pierre aquifer									
2,500.00	11.02	196.01	2,466.22	-353.67	-101.45	120.99	0.00	0.00	0.00
2,600.00	11.02	196.01	2,564.38	-372.03	-106.71	127.27	0.00	0.00	0.00
2,700.00	11.02	196.01	2,662.54	-390.40	-111.98	133.55	0.00	0.00	0.00
2,800.00	11.02	196.01	2,760.69	-408.77	-117.25	139.84	0.00	0.00	0.00
2,900.00	11.02	196.01	2,858.85	-427.14	-122.52	146.12	0.00	0.00	0.00
3,000.00	11.02	196.01	2,957.01	-445.51	-127.79	152.40	0.00	0.00	0.00
3,100.00	11.02	196.01	3,055.17	-463.88	-133.06	158.69	0.00	0.00	0.00
3,161.98	11.02	196.01	3,116.00	-475.26	-136.32	162.58	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	11.02	196.01	3,153.32	-482.24	-138.33	164.97	0.00	0.00	0.00
3,300.00	11.02	196.01	3,251.48	-500.61	-143.60	171.25	0.00	0.00	0.00
3,400.00	11.02	196.01	3,349.64	-518.98	-148.86	177.54	0.00	0.00	0.00
3,500.00	11.02	196.01	3,447.80	-537.35	-154.13	183.82	0.00	0.00	0.00
3,600.00	11.02	196.01	3,545.95	-555.72	-159.40	190.11	0.00	0.00	0.00
3,700.00	11.02	196.01	3,644.11	-574.08	-164.67	196.39	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)	
3,800.00	11.02	196.01	3,742.27	-592.45	-169.94	202.67	0.00	0.00	0.00	
3,900.00	11.02	196.01	3,840.43	-610.82	-175.21	208.96	0.00	0.00	0.00	
4,000.00	11.02	196.01	3,938.58	-629.19	-180.48	215.24	0.00	0.00	0.00	
4,100.00	11.02	196.01	4,036.74	-647.56	-185.75	221.52	0.00	0.00	0.00	
4,200.00	11.02	196.01	4,134.90	-665.92	-191.01	227.81	0.00	0.00	0.00	
4,246.97	11.02	196.01	4,181.00	-674.55	-193.49	230.76	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,300.00	11.02	196.01	4,233.05	-684.29	-196.28	234.09	0.00	0.00	0.00	
4,374.32	11.02	196.01	4,306.00	-697.94	-200.20	238.76	0.00	0.00	0.00	
Pierre Formation										
4,400.00	11.02	196.01	4,331.21	-702.66	-201.55	240.37	0.00	0.00	0.00	
4,500.00	11.02	196.01	4,429.37	-721.03	-206.82	246.66	0.00	0.00	0.00	
4,600.00	11.02	196.01	4,527.53	-739.40	-212.09	252.94	0.00	0.00	0.00	
4,700.00	11.02	196.01	4,625.68	-757.76	-217.36	259.22	0.00	0.00	0.00	
4,800.00	11.02	196.01	4,723.84	-776.13	-222.63	265.51	0.00	0.00	0.00	
4,900.00	11.02	196.01	4,822.00	-794.50	-227.89	271.79	0.00	0.00	0.00	
5,000.00	11.02	196.01	4,920.16	-812.87	-233.16	278.07	0.00	0.00	0.00	
5,100.00	11.02	196.01	5,018.31	-831.24	-238.43	284.36	0.00	0.00	0.00	
5,200.00	11.02	196.01	5,116.47	-849.60	-243.70	290.64	0.00	0.00	0.00	
5,300.00	11.02	196.01	5,214.63	-867.97	-248.97	296.93	0.00	0.00	0.00	
5,342.15	11.02	196.01	5,256.00	-875.71	-251.19	299.57	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
5,400.00	11.02	196.01	5,312.78	-886.34	-254.24	303.21	0.00	0.00	0.00	
5,500.00	11.02	196.01	5,410.94	-904.71	-259.51	309.49	0.00	0.00	0.00	
5,540.81	11.02	196.01	5,451.00	-912.20	-261.66	312.06	0.00	0.00	0.00	
Pierre Formation										
5,600.00	11.02	196.01	5,509.10	-923.08	-264.78	315.78	0.00	0.00	0.00	
5,700.00	11.02	196.01	5,607.26	-941.44	-270.04	322.06	0.00	0.00	0.00	
5,800.00	11.02	196.01	5,705.41	-959.81	-275.31	328.34	0.00	0.00	0.00	
5,900.00	11.02	196.01	5,803.57	-978.18	-280.58	334.63	0.00	0.00	0.00	
6,000.00	11.02	196.01	5,901.73	-996.55	-285.85	340.91	0.00	0.00	0.00	
6,100.00	11.02	196.01	5,999.89	-1,014.92	-291.12	347.19	0.00	0.00	38.00	
6,131.70	11.02	196.01	6,031.00	-1,020.74	-292.79	349.19	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
6,200.00	11.02	196.01	6,098.04	-1,033.28	-296.39	353.48	0.00	0.00	0.00	
6,300.00	11.02	196.01	6,196.20	-1,051.65	-301.66	359.76	0.00	0.00	0.00	
6,400.00	11.02	196.01	6,294.36	-1,070.02	-306.93	366.04	0.00	0.00	0.00	
6,500.00	11.02	196.01	6,392.52	-1,088.39	-312.19	372.33	0.00	0.00	0.00	
6,554.49	11.02	196.01	6,446.00	-1,098.40	-315.06	375.75	0.00	0.00	0.00	
Pierre Formation										
6,600.00	11.02	196.01	6,490.67	-1,106.76	-317.46	378.61	0.00	0.00	0.00	
6,700.00	11.02	196.01	6,588.83	-1,125.13	-322.73	384.90	0.00	0.00	0.00	
6,800.00	11.02	196.01	6,686.99	-1,143.49	-328.00	391.18	0.00	0.00	0.00	
6,900.00	11.02	196.01	6,785.14	-1,161.86	-333.27	397.46	0.00	0.00	0.00	
7,000.00	11.02	196.01	6,883.30	-1,180.23	-338.54	403.75	0.00	0.00	0.00	
7,100.00	11.02	196.01	6,981.46	-1,198.60	-343.81	410.03	0.00	0.00	0.00	
7,200.00	11.02	196.01	7,079.62	-1,216.97	-349.07	416.31	0.00	0.00	0.00	
7,283.79	11.02	196.01	7,161.86	-1,232.36	-353.49	421.58	0.00	0.00	0.00	
Start DLS 10.00 TFO 74.64										
7,300.00	11.55	203.83	7,177.76	-1,235.33	-354.57	422.82	10.00	3.30	48.30	
7,350.00	14.26	222.84	7,226.51	-1,244.43	-360.79	429.54	10.00	5.42	38.00	
7,400.00	17.96	235.04	7,274.56	-1,253.37	-371.30	440.53	10.00	7.41	24.41	
7,450.00	22.17	242.97	7,321.52	-1,262.08	-386.03	455.72	10.00	8.41	15.86	

Planning Report

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Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
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Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)
7,500.00	26.64	248.42	7,367.05	-1,270.49	-404.87	475.00	10.00	8.94	10.89
7,550.00	31.26	252.38	7,410.79	-1,278.55	-427.67	498.22	10.00	9.24	7.92
7,600.00	35.97	255.40	7,452.42	-1,286.18	-454.26	525.19	10.00	9.43	6.04
7,650.00	40.75	257.80	7,491.62	-1,293.34	-484.44	555.72	10.00	9.55	4.80
7,700.00	45.56	259.77	7,528.09	-1,299.96	-517.98	589.57	10.00	9.63	3.95
7,750.00	50.40	261.45	7,561.54	-1,306.00	-554.62	626.49	10.00	9.69	3.35
7,800.00	55.27	262.90	7,591.74	-1,311.41	-594.08	666.20	10.00	9.73	2.91
7,850.00	60.15	264.19	7,618.44	-1,316.15	-636.07	708.38	10.00	9.76	2.58
7,887.37	63.80	265.07	7,636.00	-1,319.23	-668.90	741.34	10.00	9.78	2.37
Sharon Springs Member									
7,900.00	65.04	265.36	7,641.45	-1,320.18	-680.26	752.73	10.00	9.79	2.26
7,950.00	69.94	266.44	7,660.59	-1,323.47	-726.31	798.90	10.00	9.80	2.16
8,000.00	74.84	267.46	7,675.71	-1,326.00	-773.89	846.54	10.00	9.81	2.03
8,050.00	79.75	268.42	7,686.70	-1,327.75	-822.62	895.29	10.00	9.82	1.94
8,100.00	84.67	269.36	7,693.48	-1,328.70	-872.13	944.78	10.00	9.83	1.88
8,154.26	90.00	270.37	7,696.00	-1,328.83	-926.31	998.89	10.00	9.83	1.85
Start 20542.88 hold at 8154.26 MD - Niobrara Formation									
8,200.00	90.00	270.37	7,696.00	-1,328.54	-972.05	1,044.54	0.00	0.00	0.00
8,300.00	90.00	270.37	7,696.00	-1,327.90	-1,072.05	1,144.34	0.00	0.00	0.00
8,400.00	90.00	270.37	7,696.00	-1,327.26	-1,172.05	1,244.15	0.00	0.00	0.00
8,500.00	90.00	270.37	7,696.00	-1,326.62	-1,272.05	1,343.96	0.00	0.00	0.00
8,600.00	90.00	270.37	7,696.00	-1,325.98	-1,372.04	1,443.77	0.00	0.00	0.00
8,700.00	90.00	270.37	7,696.00	-1,325.34	-1,472.04	1,543.57	0.00	0.00	0.00
8,800.00	90.00	270.37	7,696.00	-1,324.71	-1,572.04	1,643.38	0.00	0.00	0.00
8,900.00	90.00	270.37	7,696.00	-1,324.07	-1,672.04	1,743.19	0.00	0.00	0.00
9,000.00	90.00	270.37	7,696.00	-1,323.43	-1,772.04	1,842.99	0.00	0.00	0.00
9,100.00	90.00	270.37	7,696.00	-1,322.79	-1,872.03	1,942.80	0.00	0.00	0.00
9,200.00	90.00	270.37	7,696.00	-1,322.15	-1,972.03	2,042.61	0.00	0.00	0.00
9,300.00	90.00	270.37	7,696.00	-1,321.51	-2,072.03	2,142.42	0.00	0.00	0.00
9,400.00	90.00	270.37	7,696.00	-1,320.87	-2,172.03	2,242.22	0.00	0.00	0.00
9,500.00	90.00	270.37	7,696.00	-1,320.23	-2,272.02	2,342.03	0.00	0.00	0.00
9,600.00	90.00	270.37	7,696.00	-1,319.59	-2,372.02	2,441.84	0.00	0.00	0.00
9,700.00	90.00	270.37	7,696.00	-1,318.96	-2,472.02	2,541.64	0.00	0.00	0.00
9,800.00	90.00	270.37	7,696.00	-1,318.32	-2,572.02	2,641.45	0.00	0.00	0.00
9,900.00	90.00	270.37	7,696.00	-1,317.68	-2,672.02	2,741.26	0.00	0.00	0.00
10,000.00	90.00	270.37	7,696.00	-1,317.04	-2,772.01	2,841.07	0.00	0.00	0.00
10,100.00	90.00	270.37	7,696.00	-1,316.40	-2,872.01	2,940.87	0.00	0.00	0.00
10,200.00	90.00	270.37	7,696.00	-1,315.76	-2,972.01	3,040.68	0.00	0.00	0.00
10,300.00	90.00	270.37	7,696.00	-1,315.12	-3,072.01	3,140.49	0.00	0.00	0.00
10,400.00	90.00	270.37	7,696.00	-1,314.48	-3,172.01	3,240.29	0.00	0.00	0.00
10,500.00	90.00	270.37	7,696.00	-1,313.84	-3,272.00	3,340.10	0.00	0.00	0.00
10,600.00	90.00	270.37	7,696.00	-1,313.21	-3,372.00	3,439.91	0.00	0.00	0.00
10,700.00	90.00	270.37	7,696.00	-1,312.57	-3,472.00	3,539.72	0.00	0.00	0.00
10,800.00	90.00	270.37	7,696.00	-1,311.93	-3,572.00	3,639.52	0.00	0.00	0.00
10,900.00	90.00	270.37	7,696.00	-1,311.29	-3,672.00	3,739.33	0.00	0.00	0.00
11,000.00	90.00	270.37	7,696.00	-1,310.65	-3,771.99	3,839.14	0.00	0.00	0.00
11,100.00	90.00	270.37	7,696.00	-1,310.01	-3,871.99	3,938.94	0.00	0.00	0.00
11,200.00	90.00	270.37	7,696.00	-1,309.37	-3,971.99	4,038.75	0.00	0.00	0.00
11,300.00	90.00	270.37	7,696.00	-1,308.73	-4,071.99	4,138.56	0.00	0.00	0.00
11,400.00	90.00	270.37	7,696.00	-1,308.09	-4,171.99	4,238.37	0.00	0.00	0.00
11,500.00	90.00	270.37	7,696.00	-1,307.45	-4,271.98	4,338.17	0.00	0.00	0.00
11,600.00	90.00	270.37	7,696.00	-1,306.82	-4,371.98	4,437.98	0.00	0.00	0.00
11,700.00	90.00	270.37	7,696.00	-1,306.18	-4,471.98	4,537.79	0.00	0.00	0.00
11,800.00	90.00	270.37	7,696.00	-1,305.54	-4,571.98	4,637.59	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)	
11,900.00	90.00	270.37	7,696.00	-1,304.90	-4,671.98	4,737.40	0.00	0.00	0.00	
12,000.00	90.00	270.37	7,696.00	-1,304.26	-4,771.97	4,837.21	0.00	0.00	0.00	
12,100.00	90.00	270.37	7,696.00	-1,303.62	-4,871.97	4,937.02	0.00	0.00	0.00	
12,200.00	90.00	270.37	7,696.00	-1,302.98	-4,971.97	5,036.82	0.00	0.00	0.00	
12,300.00	90.00	270.37	7,696.00	-1,302.34	-5,071.97	5,136.63	0.00	0.00	0.00	
12,400.00	90.00	270.37	7,696.00	-1,301.70	-5,171.97	5,236.44	0.00	0.00	0.00	
12,500.00	90.00	270.37	7,696.00	-1,301.07	-5,271.96	5,336.24	0.00	0.00	0.00	
12,600.00	90.00	270.37	7,696.00	-1,300.43	-5,371.96	5,436.05	0.00	0.00	0.00	
12,700.00	90.00	270.37	7,696.00	-1,299.79	-5,471.96	5,535.86	0.00	0.00	0.00	
12,800.00	90.00	270.37	7,696.00	-1,299.15	-5,571.96	5,635.67	0.00	0.00	0.00	
12,900.00	90.00	270.37	7,696.00	-1,298.51	-5,671.96	5,735.47	0.00	0.00	0.00	
13,000.00	90.00	270.37	7,696.00	-1,297.87	-5,771.95	5,835.28	0.00	0.00	0.00	
13,100.00	90.00	270.37	7,696.00	-1,297.23	-5,871.95	5,935.09	0.00	0.00	0.00	
13,200.00	90.00	270.37	7,696.00	-1,296.59	-5,971.95	6,034.89	0.00	0.00	0.00	
13,300.00	90.00	270.37	7,696.00	-1,295.95	-6,071.95	6,134.70	0.00	0.00	0.00	
13,400.00	90.00	270.37	7,696.00	-1,295.31	-6,171.95	6,234.51	0.00	0.00	0.00	
13,500.00	90.00	270.37	7,696.00	-1,294.68	-6,271.94	6,334.32	0.00	0.00	0.00	
13,600.00	90.00	270.37	7,696.00	-1,294.04	-6,371.94	6,434.12	0.00	0.00	0.00	
13,700.00	90.00	270.37	7,696.00	-1,293.40	-6,471.94	6,533.93	0.00	0.00	0.00	
13,800.00	90.00	270.37	7,696.00	-1,292.76	-6,571.94	6,633.74	0.00	0.00	0.00	
13,900.00	90.00	270.37	7,696.00	-1,292.12	-6,671.94	6,733.54	0.00	0.00	0.00	
14,000.00	90.00	270.37	7,696.00	-1,291.48	-6,771.93	6,833.35	0.00	0.00	0.00	
14,100.00	90.00	270.37	7,696.00	-1,290.84	-6,871.93	6,933.16	0.00	0.00	0.00	
14,200.00	90.00	270.37	7,696.00	-1,290.20	-6,971.93	7,032.97	0.00	0.00	0.00	
14,300.00	90.00	270.37	7,696.00	-1,289.56	-7,071.93	7,132.77	0.00	0.00	0.00	
14,400.00	90.00	270.37	7,696.00	-1,288.93	-7,171.92	7,232.58	0.00	0.00	0.00	
14,500.00	90.00	270.37	7,696.00	-1,288.29	-7,271.92	7,332.39	0.00	0.00	0.00	
14,600.00	90.00	270.37	7,696.00	-1,287.65	-7,371.92	7,432.19	0.00	0.00	0.00	
14,700.00	90.00	270.37	7,696.00	-1,287.01	-7,471.92	7,532.00	0.00	0.00	0.00	
14,800.00	90.00	270.37	7,696.00	-1,286.37	-7,571.92	7,631.81	0.00	0.00	0.00	
14,900.00	90.00	270.37	7,696.00	-1,285.73	-7,671.91	7,731.62	0.00	0.00	0.00	
15,000.00	90.00	270.37	7,696.00	-1,285.09	-7,771.91	7,831.42	0.00	0.00	0.00	
15,100.00	90.00	270.37	7,696.00	-1,284.45	-7,871.91	7,931.23	0.00	0.00	0.00	
15,200.00	90.00	270.37	7,696.00	-1,283.81	-7,971.91	8,031.04	0.00	0.00	0.00	
15,300.00	90.00	270.37	7,696.00	-1,283.18	-8,071.91	8,130.84	0.00	0.00	0.00	
15,400.00	90.00	270.37	7,696.00	-1,282.54	-8,171.90	8,230.65	0.00	0.00	0.00	
15,500.00	90.00	270.37	7,696.00	-1,281.90	-8,271.90	8,330.46	0.00	0.00	0.00	
15,600.00	90.00	270.37	7,696.00	-1,281.26	-8,371.90	8,430.27	0.00	0.00	0.00	
15,700.00	90.00	270.37	7,696.00	-1,280.62	-8,471.90	8,530.07	0.00	0.00	0.00	
15,800.00	90.00	270.37	7,696.00	-1,279.98	-8,571.90	8,629.88	0.00	0.00	0.00	
15,900.00	90.00	270.37	7,696.00	-1,279.34	-8,671.89	8,729.69	0.00	0.00	0.00	
16,000.00	90.00	270.37	7,696.00	-1,278.70	-8,771.89	8,829.49	0.00	0.00	0.00	
16,100.00	90.00	270.37	7,696.00	-1,278.06	-8,871.89	8,929.30	0.00	0.00	0.00	
16,200.00	90.00	270.37	7,696.00	-1,277.42	-8,971.89	9,029.11	0.00	0.00	0.00	
16,300.00	90.00	270.37	7,696.00	-1,276.79	-9,071.89	9,128.92	0.00	0.00	0.00	
16,400.00	90.00	270.37	7,696.00	-1,276.15	-9,171.88	9,228.72	0.00	0.00	0.00	
16,500.00	90.00	270.37	7,696.00	-1,275.51	-9,271.88	9,328.53	0.00	0.00	0.00	
16,600.00	90.00	270.37	7,696.00	-1,274.87	-9,371.88	9,428.34	0.00	0.00	0.00	
16,700.00	90.00	270.37	7,696.00	-1,274.23	-9,471.88	9,528.14	0.00	0.00	0.00	
16,800.00	90.00	270.37	7,696.00	-1,273.59	-9,571.88	9,627.95	0.00	0.00	0.00	
16,900.00	90.00	270.37	7,696.00	-1,272.95	-9,671.87	9,727.76	0.00	0.00	0.00	
17,000.00	90.00	270.37	7,696.00	-1,272.31	-9,771.87	9,827.57	0.00	0.00	0.00	
17,100.00	90.00	270.37	7,696.00	-1,271.67	-9,871.87	9,927.37	0.00	0.00	0.00	
17,200.00	90.00	270.37	7,696.00	-1,271.04	-9,971.87	10,027.18	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)	
17,300.00	90.00	270.37	7,696.00	-1,270.40	-10,071.87	10,126.99	0.00	0.00	0.00	
17,400.00	90.00	270.37	7,696.00	-1,269.76	-10,171.86	10,226.79	0.00	0.00	0.00	
17,500.00	90.00	270.37	7,696.00	-1,269.12	-10,271.86	10,326.60	0.00	0.00	0.00	
17,600.00	90.00	270.37	7,696.00	-1,268.48	-10,371.86	10,426.41	0.00	0.00	0.00	
17,700.00	90.00	270.37	7,696.00	-1,267.84	-10,471.86	10,526.22	0.00	0.00	0.00	
17,800.00	90.00	270.37	7,696.00	-1,267.20	-10,571.86	10,626.02	0.00	0.00	0.00	
17,900.00	90.00	270.37	7,696.00	-1,266.56	-10,671.85	10,725.83	0.00	0.00	0.00	
18,000.00	90.00	270.37	7,696.00	-1,265.92	-10,771.85	10,825.64	0.00	0.00	0.00	
18,100.00	90.00	270.37	7,696.00	-1,265.29	-10,871.85	10,925.45	0.00	0.00	0.00	
18,200.00	90.00	270.37	7,696.00	-1,264.65	-10,971.85	11,025.25	0.00	0.00	0.00	
18,300.00	90.00	270.37	7,696.00	-1,264.01	-11,071.85	11,125.06	0.00	0.00	0.00	
18,400.00	90.00	270.37	7,696.00	-1,263.37	-11,171.84	11,224.87	0.00	0.00	0.00	
18,500.00	90.00	270.37	7,696.00	-1,262.73	-11,271.84	11,324.67	0.00	0.00	0.00	
18,600.00	90.00	270.37	7,696.00	-1,262.09	-11,371.84	11,424.48	0.00	0.00	0.00	
18,700.00	90.00	270.37	7,696.00	-1,261.45	-11,471.84	11,524.29	0.00	0.00	0.00	
18,800.00	90.00	270.37	7,696.00	-1,260.81	-11,571.84	11,624.10	0.00	0.00	0.00	
18,900.00	90.00	270.37	7,696.00	-1,260.17	-11,671.83	11,723.90	0.00	0.00	0.00	
19,000.00	90.00	270.37	7,696.00	-1,259.53	-11,771.83	11,823.71	0.00	0.00	0.00	
19,100.00	90.00	270.37	7,696.00	-1,258.90	-11,871.83	11,923.52	0.00	0.00	0.00	
19,200.00	90.00	270.37	7,696.00	-1,258.26	-11,971.83	12,023.32	0.00	0.00	0.00	
19,300.00	90.00	270.37	7,696.00	-1,257.62	-12,071.83	12,123.13	0.00	0.00	0.00	
19,400.00	90.00	270.37	7,696.00	-1,256.98	-12,171.82	12,222.94	0.00	0.00	0.00	
19,500.00	90.00	270.37	7,696.00	-1,256.34	-12,271.82	12,322.75	0.00	0.00	0.00	
19,600.00	90.00	270.37	7,696.00	-1,255.70	-12,371.82	12,422.55	0.00	0.00	0.00	
19,700.00	90.00	270.37	7,696.00	-1,255.06	-12,471.82	12,522.36	0.00	0.00	0.00	
19,800.00	90.00	270.37	7,696.00	-1,254.42	-12,571.81	12,622.17	0.00	0.00	0.00	
19,900.00	90.00	270.37	7,696.00	-1,253.78	-12,671.81	12,721.97	0.00	0.00	0.00	
20,000.00	90.00	270.37	7,696.00	-1,253.15	-12,771.81	12,821.78	0.00	0.00	0.00	
20,100.00	90.00	270.37	7,696.00	-1,252.51	-12,871.81	12,921.59	0.00	0.00	0.00	
20,200.00	90.00	270.37	7,696.00	-1,251.87	-12,971.81	13,021.40	0.00	0.00	0.00	
20,300.00	90.00	270.37	7,696.00	-1,251.23	-13,071.80	13,121.20	0.00	0.00	0.00	
20,400.00	90.00	270.37	7,696.00	-1,250.59	-13,171.80	13,221.01	0.00	0.00	0.00	
20,500.00	90.00	270.37	7,696.00	-1,249.95	-13,271.80	13,320.82	0.00	0.00	0.00	
20,600.00	90.00	270.37	7,696.00	-1,249.31	-13,371.80	13,420.62	0.00	0.00	0.00	
20,700.00	90.00	270.37	7,696.00	-1,248.67	-13,471.80	13,520.43	0.00	0.00	0.00	
20,800.00	90.00	270.37	7,696.00	-1,248.03	-13,571.79	13,620.24	0.00	0.00	0.00	
20,900.00	90.00	270.37	7,696.00	-1,247.40	-13,671.79	13,720.05	0.00	0.00	0.00	
21,000.00	90.00	270.37	7,696.00	-1,246.76	-13,771.79	13,819.85	0.00	0.00	0.00	
21,100.00	90.00	270.37	7,696.00	-1,246.12	-13,871.79	13,919.66	0.00	0.00	0.00	
21,200.00	90.00	270.37	7,696.00	-1,245.48	-13,971.79	14,019.47	0.00	0.00	0.00	
21,300.00	90.00	270.37	7,696.00	-1,244.84	-14,071.78	14,119.27	0.00	0.00	0.00	
21,400.00	90.00	270.37	7,696.00	-1,244.20	-14,171.78	14,219.08	0.00	0.00	0.00	
21,500.00	90.00	270.37	7,696.00	-1,243.56	-14,271.78	14,318.89	0.00	0.00	0.00	
21,600.00	90.00	270.37	7,696.00	-1,242.92	-14,371.78	14,418.70	0.00	0.00	0.00	
21,700.00	90.00	270.37	7,696.00	-1,242.28	-14,471.78	14,518.50	0.00	0.00	0.00	
21,800.00	90.00	270.37	7,696.00	-1,241.64	-14,571.77	14,618.31	0.00	0.00	0.00	
21,900.00	90.00	270.37	7,696.00	-1,241.01	-14,671.77	14,718.12	0.00	0.00	0.00	
22,000.00	90.00	270.37	7,696.00	-1,240.37	-14,771.77	14,817.92	0.00	0.00	0.00	
22,100.00	90.00	270.37	7,696.00	-1,239.73	-14,871.77	14,917.73	0.00	0.00	0.00	
22,200.00	90.00	270.37	7,696.00	-1,239.09	-14,971.77	15,017.54	0.00	0.00	0.00	
22,300.00	90.00	270.37	7,696.00	-1,238.45	-15,071.76	15,117.35	0.00	0.00	0.00	
22,400.00	90.00	270.37	7,696.00	-1,237.81	-15,171.76	15,217.15	0.00	0.00	0.00	
22,500.00	90.00	270.37	7,696.00	-1,237.17	-15,271.76	15,316.96	0.00	0.00	0.00	
22,600.00	90.00	270.37	7,696.00	-1,236.53	-15,371.76	15,416.77	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)	
22,700.00	90.00	270.37	7,696.00	-1,235.89	-15,471.76	15,516.57	0.00	0.00	0.00	
22,800.00	90.00	270.37	7,696.00	-1,235.26	-15,571.75	15,616.38	0.00	0.00	0.00	
22,900.00	90.00	270.37	7,696.00	-1,234.62	-15,671.75	15,716.19	0.00	0.00	0.00	
23,000.00	90.00	270.37	7,696.00	-1,233.98	-15,771.75	15,816.00	0.00	0.00	0.00	
23,100.00	90.00	270.37	7,696.00	-1,233.34	-15,871.75	15,915.80	0.00	0.00	0.00	
23,200.00	90.00	270.37	7,696.00	-1,232.70	-15,971.75	16,015.61	0.00	0.00	0.00	
23,300.00	90.00	270.37	7,696.00	-1,232.06	-16,071.74	16,115.42	0.00	0.00	0.00	
23,400.00	90.00	270.37	7,696.00	-1,231.42	-16,171.74	16,215.22	0.00	0.00	0.00	
23,500.00	90.00	270.37	7,696.00	-1,230.78	-16,271.74	16,315.03	0.00	0.00	0.00	
23,600.00	90.00	270.37	7,696.00	-1,230.14	-16,371.74	16,414.84	0.00	0.00	0.00	
23,700.00	90.00	270.37	7,696.00	-1,229.50	-16,471.74	16,514.65	0.00	0.00	0.00	
23,800.00	90.00	270.37	7,696.00	-1,228.87	-16,571.73	16,614.45	0.00	0.00	0.00	
23,900.00	90.00	270.37	7,696.00	-1,228.23	-16,671.73	16,714.26	0.00	0.00	0.00	
24,000.00	90.00	270.37	7,696.00	-1,227.59	-16,771.73	16,814.07	0.00	0.00	0.00	
24,100.00	90.00	270.37	7,696.00	-1,226.95	-16,871.73	16,913.87	0.00	0.00	0.00	
24,200.00	90.00	270.37	7,696.00	-1,226.31	-16,971.73	17,013.68	0.00	0.00	0.00	
24,300.00	90.00	270.37	7,696.00	-1,225.67	-17,071.72	17,113.49	0.00	0.00	0.00	
24,400.00	90.00	270.37	7,696.00	-1,225.03	-17,171.72	17,213.30	0.00	0.00	0.00	
24,500.00	90.00	270.37	7,696.00	-1,224.39	-17,271.72	17,313.10	0.00	0.00	0.00	
24,600.00	90.00	270.37	7,696.00	-1,223.75	-17,371.72	17,412.91	0.00	0.00	0.00	
24,700.00	90.00	270.37	7,696.00	-1,223.12	-17,471.71	17,512.72	0.00	0.00	0.00	
24,800.00	90.00	270.37	7,696.00	-1,222.48	-17,571.71	17,612.52	0.00	0.00	0.00	
24,900.00	90.00	270.37	7,696.00	-1,221.84	-17,671.71	17,712.33	0.00	0.00	0.00	
25,000.00	90.00	270.37	7,696.00	-1,221.20	-17,771.71	17,812.14	0.00	0.00	0.00	
25,100.00	90.00	270.37	7,696.00	-1,220.56	-17,871.71	17,911.95	0.00	0.00	0.00	
25,200.00	90.00	270.37	7,696.00	-1,219.92	-17,971.70	18,011.75	0.00	0.00	0.00	
25,300.00	90.00	270.37	7,696.00	-1,219.28	-18,071.70	18,111.56	0.00	0.00	0.00	
25,400.00	90.00	270.37	7,696.00	-1,218.64	-18,171.70	18,211.37	0.00	0.00	0.00	
25,500.00	90.00	270.37	7,696.00	-1,218.00	-18,271.70	18,311.17	0.00	0.00	0.00	
25,600.00	90.00	270.37	7,696.00	-1,217.37	-18,371.70	18,410.98	0.00	0.00	0.00	
25,700.00	90.00	270.37	7,696.00	-1,216.73	-18,471.69	18,510.79	0.00	0.00	0.00	
25,800.00	90.00	270.37	7,696.00	-1,216.09	-18,571.69	18,610.60	0.00	0.00	0.00	
25,900.00	90.00	270.37	7,696.00	-1,215.45	-18,671.69	18,710.40	0.00	0.00	0.00	
26,000.00	90.00	270.37	7,696.00	-1,214.81	-18,771.69	18,810.21	0.00	0.00	0.00	
26,100.00	90.00	270.37	7,696.00	-1,214.17	-18,871.69	18,910.02	0.00	0.00	0.00	
26,200.00	90.00	270.37	7,696.00	-1,213.53	-18,971.68	19,009.82	0.00	0.00	0.00	
26,300.00	90.00	270.37	7,696.00	-1,212.89	-19,071.68	19,109.63	0.00	0.00	0.00	
26,400.00	90.00	270.37	7,696.00	-1,212.25	-19,171.68	19,209.44	0.00	0.00	0.00	
26,500.00	90.00	270.37	7,696.00	-1,211.61	-19,271.68	19,309.25	0.00	0.00	0.00	
26,600.00	90.00	270.37	7,696.00	-1,210.98	-19,371.68	19,409.05	0.00	0.00	0.00	
26,700.00	90.00	270.37	7,696.00	-1,210.34	-19,471.67	19,508.86	0.00	0.00	0.00	
26,800.00	90.00	270.37	7,696.00	-1,209.70	-19,571.67	19,608.67	0.00	0.00	0.00	
26,900.00	90.00	270.37	7,696.00	-1,209.06	-19,671.67	19,708.47	0.00	0.00	0.00	
27,000.00	90.00	270.37	7,696.00	-1,208.42	-19,771.67	19,808.28	0.00	0.00	0.00	
27,100.00	90.00	270.37	7,696.00	-1,207.78	-19,871.67	19,908.09	0.00	0.00	0.00	
27,200.00	90.00	270.37	7,696.00	-1,207.14	-19,971.66	20,007.90	0.00	0.00	0.00	
27,300.00	90.00	270.37	7,696.00	-1,206.50	-20,071.66	20,107.70	0.00	0.00	0.00	
27,400.00	90.00	270.37	7,696.00	-1,205.86	-20,171.66	20,207.51	0.00	0.00	0.00	
27,500.00	90.00	270.37	7,696.00	-1,205.23	-20,271.66	20,307.32	0.00	0.00	0.00	
27,600.00	90.00	270.37	7,696.00	-1,204.59	-20,371.66	20,407.13	0.00	0.00	0.00	
27,700.00	90.00	270.37	7,696.00	-1,203.95	-20,471.65	20,506.93	0.00	0.00	0.00	
27,800.00	90.00	270.37	7,696.00	-1,203.31	-20,571.65	20,606.74	0.00	0.00	0.00	
27,900.00	90.00	270.37	7,696.00	-1,202.67	-20,671.65	20,706.55	0.00	0.00	0.00	
28,000.00	90.00	270.37	7,696.00	-1,202.03	-20,771.65	20,806.35	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	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)	
28,100.00	90.00	270.37	7,696.00	-1,201.39	-20,871.65	20,906.16	0.00	0.00	0.00	
28,200.00	90.00	270.37	7,696.00	-1,200.75	-20,971.64	21,005.97	0.00	0.00	0.00	
28,300.00	90.00	270.37	7,696.00	-1,200.11	-21,071.64	21,105.78	0.00	0.00	0.00	
28,400.00	90.00	270.37	7,696.00	-1,199.48	-21,171.64	21,205.58	0.00	0.00	0.00	
28,500.00	90.00	270.37	7,696.00	-1,198.84	-21,271.64	21,305.39	0.00	0.00	0.00	
28,600.00	90.00	270.37	7,696.00	-1,198.20	-21,371.64	21,405.20	0.00	0.00	0.00	
28,697.14	90.00	270.37	7,696.00	-1,197.58	-21,468.77	21,502.15	0.00	0.00	0.00	
TD at 28697.14										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LP-BLUE 3-65 4AH	0.00	0.00	7,696.00	-1,328.83	-926.31	1,150,191.59	3,236,033.24	39.742575°N	104.660642°W
- plan hits target center									
- Point									
PBHL-BLUE 3-65 4AH	0.00	0.00	7,696.00	-1,197.58	-21,468.77	1,150,127.63	3,215,490.56	39.742910°N	104.733692°W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
717.48	716.00	Arapahoe				
1,328.18	1,316.00	Laramie-Fox Hills Formation				
1,990.39	1,966.00	Pierre Formation				
2,489.59	2,456.00	Upper Pierre aquifer				
3,161.98	3,116.00	Base of Upper Pierre aquifer				
4,246.97	4,181.00	Larimer ("Parkman") sandstone				
4,374.32	4,306.00	Pierre Formation				
5,342.15	5,256.00	Terry ("Sussex") sandstone				
5,540.81	5,451.00	Pierre Formation				
6,131.70	6,031.00	Hygiene ("Shannon") sandstone				
6,554.49	6,446.00	Pierre Formation				
7,887.37	7,636.00	Sharon Springs Member				
8,154.26	7,696.00	Niobrara Formation				

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5617.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5617.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Start Build 2.00
850.81	847.42	-50.74	-14.56	Start 6432.98 hold at 850.81 MD
7,283.79	7,161.86	-1,232.36	-353.49	Start DLS 10.00 TFO 74.64
8,154.26	7,696.00	-1,328.83	-926.31	Start 20542.88 hold at 8154.26 MD
28,697.14	7,696.00	-1,197.58	-21,468.77	TD at 28697.14