

CRESTONE PEAK RESOURCES

ADAMS COUNTY

SEC 34-T3S-R65W

BLUE 3-65 33-32-31-36 2AH

OWB

Plan: PROPOSAL 1

Standard Planning Report

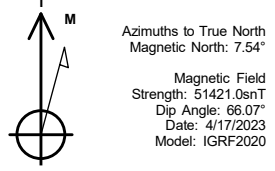
17 April, 2023

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 2AH
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: BLUE 3-65 33-32-31-36 2AH

5594.00										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.00	0.00	1151528.03	3236866.75	39.746222° N	104.657633° 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	786.50	9.73	346.31	784.17	40.04	-9.75	2.00	346.31	13.09	
4	7249.20	9.73	346.31	7153.90	1101.27	-268.18	0.00	0.00	360.12	
5	8125.79	90.00	270.30	7696.00	1194.46	-840.18	10.00	-76.21	937.95	LP-BLUE 3-64 2AH
6	18398.99	90.00	270.30	7696.00	1248.18	-11113.24	0.00	0.00	11178.92	WP 1-BLUE 3-64 2AH
7	18541.41	90.00	273.15	7696.00	1252.46	-11255.58	2.00	90.00	11321.12	PBHL-BLUE 3-64 2AH
8	28656.21	90.00	273.15	7696.00	1807.92	-21355.12	0.00	0.00	21431.51	PBHL-BLUE 3-64 2AH

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
786.50	9.73	346.31	784.17	40.04	-9.75	13.09	41.21	Start 6462.70 hold at 786.50 MD
7249.20	9.73	346.31	7153.90	1101.27	-268.18	360.12	1133.45	Start DLS 10.00 TFO -76.21
8125.79	90.00	270.30	7696.00	1194.46	-840.18	937.95	1723.75	Start 10273.20 hold at 8125.79 MD
18398.99	90.00	270.30	7696.00	1248.18	-11113.24	11178.92	11996.95	Start DLS 2.00 TFO 90.00
18541.41	90.00	273.15	7696.00	1252.46	-11255.58	11321.12	12139.37	Start 10114.80 hold at 18541.41 MD
28656.21	90.00	273.15	7696.00	1807.92	-21355.12	21431.51	22254.17	TD at 28656.21

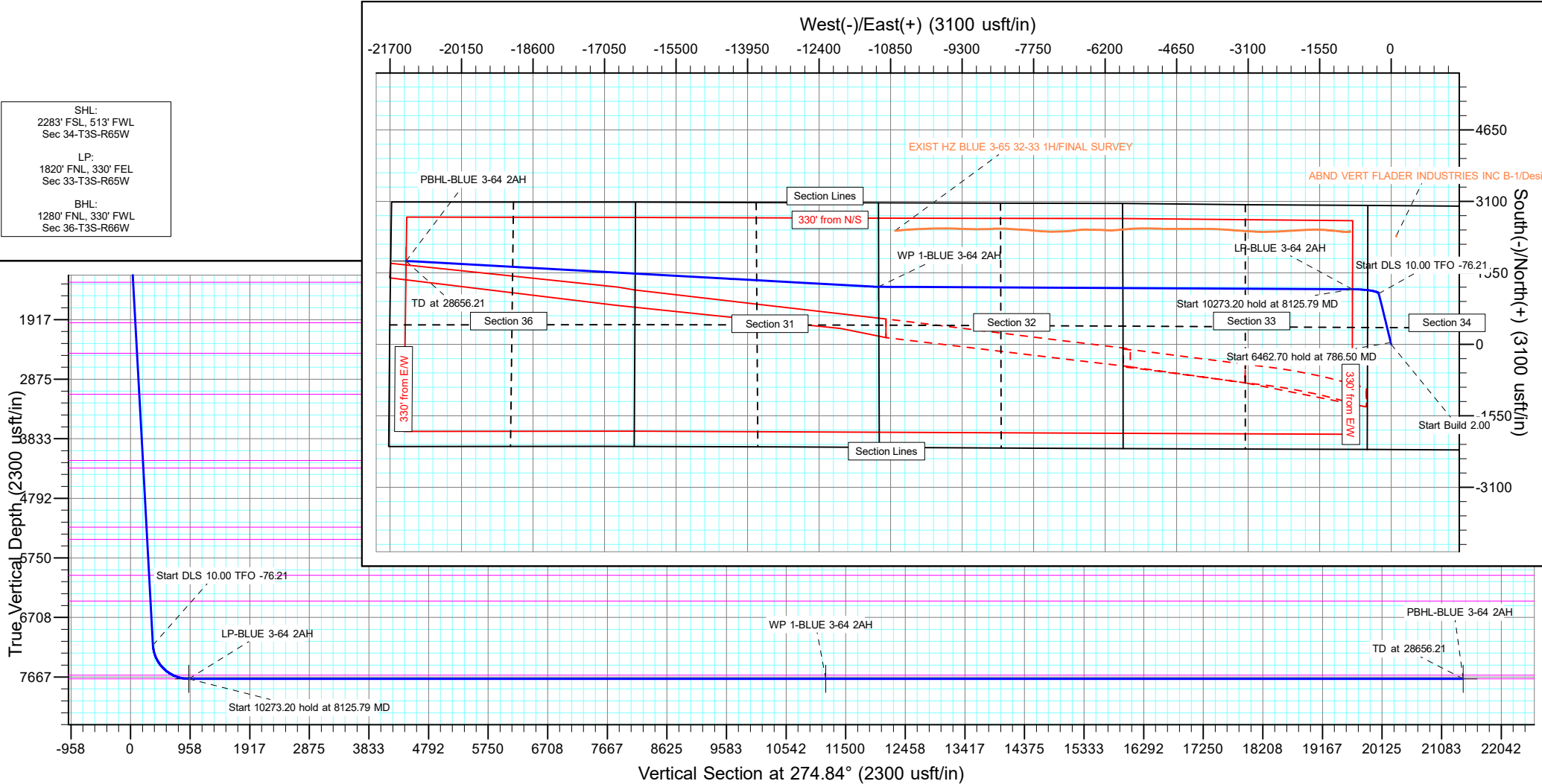
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-BLUE 3-64 2AH	7696.00	1194.46	-840.18	1152714.46	3236015.27	39.749501°N	104.660621°W	Point
PBHL-BLUE 3-64 2AH	7696.00	1807.92	-21355.12	1153133.00	3215495.52	39.751160°N	104.733582°W	Point
WP 1-BLUE 3-64 2AH	7696.00	1248.18	-11113.24	1152670.58	3225742.20	39.749642°N	104.697156°W	Point

SHL:
2283' FSL, 513' FWL
Sec 34-T3S-R65W

LP:
1820' FNL, 330' FEL
Sec 33-T3S-R65W

BHL:
1280' FNL, 330' FWL
Sec 36-T3S-R66W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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 2AH					
Well Position	+N/-S	2,279.60 usft	Northing:	1,151,528.03 usft	Latitude:	39.746222°N
	+E/-W	518.25 usft	Easting:	3,236,866.75 usft	Longitude:	104.657633°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,594.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/17/2023	7.54	66.07	51,421.04465927

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	274.84

Plan Survey Tool Program	Date	4/17/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	28,656.21	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	
786.50	9.73	346.31	784.17	40.04	-9.75	2.00	2.00	0.00	346.31	
7,249.20	9.73	346.31	7,153.90	1,101.27	-268.18	0.00	0.00	0.00	0.00	
8,125.79	90.00	270.30	7,696.00	1,194.46	-840.18	10.00	9.16	-8.67	-76.21	LP-BLUE 3-64 2AH
18,398.99	90.00	270.30	7,696.00	1,248.18	-11,113.24	0.00	0.00	0.00	0.00	WP 1-BLUE 3-64 2AH
18,541.41	90.00	273.15	7,696.00	1,252.46	-11,255.58	2.00	0.00	2.00	90.00	PBHL-BLUE 3-64 2AH
28,656.21	90.00	273.15	7,696.00	1,807.92	-21,355.12	0.00	0.00	0.00	0.00	PBHL-BLUE 3-64 2AH

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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	346.31	399.98	1.70	-0.41	0.55	2.00	2.00	0.00
500.00	4.00	346.31	499.84	6.78	-1.65	2.22	2.00	2.00	0.00
600.00	6.00	346.31	599.45	15.25	-3.71	4.99	2.00	2.00	0.00
700.00	8.00	346.31	698.70	27.09	-6.60	8.86	2.00	2.00	0.00
717.48	8.35	346.31	716.00	29.50	-7.18	9.65	2.00	2.00	0.00
Arapahoe									
786.50	9.73	346.31	784.17	40.04	-9.75	13.09	2.00	2.00	0.00
Start 6462.70 hold at 786.50 MD									
800.00	9.73	346.31	797.47	42.26	-10.29	13.82	0.00	0.00	0.00
900.00	9.73	346.31	896.03	58.68	-14.29	19.19	0.00	0.00	0.00
1,000.00	9.73	346.31	994.59	75.10	-18.29	24.56	0.00	0.00	0.00
1,100.00	9.73	346.31	1,093.16	91.52	-22.29	29.93	0.00	0.00	0.00
1,200.00	9.73	346.31	1,191.72	107.94	-26.29	35.30	0.00	0.00	0.00
1,300.00	9.73	346.31	1,290.28	124.36	-30.28	40.67	0.00	0.00	0.00
1,326.10	9.73	346.31	1,316.00	128.65	-31.33	42.07	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,400.00	9.73	346.31	1,388.84	140.78	-34.28	46.04	0.00	0.00	0.00
1,500.00	9.73	346.31	1,487.40	157.20	-38.28	51.41	0.00	0.00	0.00
1,600.00	9.73	346.31	1,585.96	173.62	-42.28	56.78	0.00	0.00	0.00
1,700.00	9.73	346.31	1,684.52	190.04	-46.28	62.15	0.00	0.00	0.00
1,800.00	9.73	346.31	1,783.09	206.47	-50.28	67.52	0.00	0.00	0.00
1,900.00	9.73	346.31	1,881.65	222.89	-54.28	72.89	0.00	0.00	0.00
1,985.58	9.73	346.31	1,966.00	236.94	-57.70	77.48	0.00	0.00	0.00
Pierre Formation									
2,000.00	9.73	346.31	1,980.21	239.31	-58.28	78.26	0.00	0.00	0.00
2,100.00	9.73	346.31	2,078.77	255.73	-62.27	83.62	0.00	0.00	0.00
2,200.00	9.73	346.31	2,177.33	272.15	-66.27	88.99	0.00	0.00	0.00
2,300.00	9.73	346.31	2,275.89	288.57	-70.27	94.36	0.00	0.00	0.00
2,400.00	9.73	346.31	2,374.45	304.99	-74.27	99.73	0.00	0.00	0.00
2,482.74	9.73	346.31	2,456.00	318.58	-77.58	104.18	0.00	0.00	0.00
Upper Pierre aquifer									
2,500.00	9.73	346.31	2,473.02	321.41	-78.27	105.10	0.00	0.00	0.00
2,600.00	9.73	346.31	2,571.58	337.83	-82.27	110.47	0.00	0.00	0.00
2,700.00	9.73	346.31	2,670.14	354.25	-86.27	115.84	0.00	0.00	0.00
2,800.00	9.73	346.31	2,768.70	370.67	-90.27	121.21	0.00	0.00	0.00
2,900.00	9.73	346.31	2,867.26	387.09	-94.26	126.58	0.00	0.00	0.00
3,000.00	9.73	346.31	2,965.82	403.52	-98.26	131.95	0.00	0.00	0.00
3,100.00	9.73	346.31	3,064.38	419.94	-102.26	137.32	0.00	0.00	0.00
3,152.37	9.73	346.31	3,116.00	428.54	-104.36	140.13	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	9.73	346.31	3,162.95	436.36	-106.26	142.69	0.00	0.00	0.00
3,300.00	9.73	346.31	3,261.51	452.78	-110.26	148.06	0.00	0.00	0.00
3,400.00	9.73	346.31	3,360.07	469.20	-114.26	153.43	0.00	0.00	0.00
3,500.00	9.73	346.31	3,458.63	485.62	-118.26	158.80	0.00	0.00	0.00
3,600.00	9.73	346.31	3,557.19	502.04	-122.26	164.17	0.00	0.00	0.00
3,700.00	9.73	346.31	3,655.75	518.46	-126.25	169.54	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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	9.73	346.31	3,754.32	534.88	-130.25	174.91	0.00	0.00	0.00
3,900.00	9.73	346.31	3,852.88	551.30	-134.25	180.28	0.00	0.00	0.00
4,000.00	9.73	346.31	3,951.44	567.72	-138.25	185.65	0.00	0.00	0.00
4,100.00	9.73	346.31	4,050.00	584.15	-142.25	191.02	0.00	0.00	0.00
4,200.00	9.73	346.31	4,148.56	600.57	-146.25	196.39	0.00	0.00	0.00
4,232.91	9.73	346.31	4,181.00	605.97	-147.56	198.16	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
4,300.00	9.73	346.31	4,247.12	616.99	-150.25	201.76	0.00	0.00	0.00
4,359.74	9.73	346.31	4,306.00	626.80	-152.64	204.97	0.00	0.00	0.00
Pierre Formation									
4,400.00	9.73	346.31	4,345.68	633.41	-154.25	207.13	0.00	0.00	0.00
4,500.00	9.73	346.31	4,444.25	649.83	-158.24	212.50	0.00	0.00	0.00
4,600.00	9.73	346.31	4,542.81	666.25	-162.24	217.87	0.00	0.00	0.00
4,700.00	9.73	346.31	4,641.37	682.67	-166.24	223.24	0.00	0.00	0.00
4,800.00	9.73	346.31	4,739.93	699.09	-170.24	228.61	0.00	0.00	0.00
4,900.00	9.73	346.31	4,838.49	715.51	-174.24	233.98	0.00	0.00	0.00
5,000.00	9.73	346.31	4,937.05	731.93	-178.24	239.35	0.00	0.00	0.00
5,100.00	9.73	346.31	5,035.61	748.35	-182.24	244.72	0.00	0.00	0.00
5,200.00	9.73	346.31	5,134.18	764.77	-186.24	250.09	0.00	0.00	0.00
5,300.00	9.73	346.31	5,232.74	781.20	-190.23	255.46	0.00	0.00	0.00
5,323.60	9.73	346.31	5,256.00	785.07	-191.18	256.72	0.00	0.00	0.00
Terry ("Sussex") sandstone									
5,400.00	9.73	346.31	5,331.30	797.62	-194.23	260.83	0.00	0.00	0.00
5,500.00	9.73	346.31	5,429.86	814.04	-198.23	266.20	0.00	0.00	0.00
5,521.45	9.73	346.31	5,451.00	817.56	-199.09	267.35	0.00	0.00	0.00
Pierre Formation									
5,600.00	9.73	346.31	5,528.42	830.46	-202.23	271.57	0.00	0.00	0.00
5,700.00	9.73	346.31	5,626.98	846.88	-206.23	276.94	0.00	0.00	0.00
5,800.00	9.73	346.31	5,725.54	863.30	-210.23	282.31	0.00	0.00	0.00
5,900.00	9.73	346.31	5,824.11	879.72	-214.23	287.68	0.00	0.00	0.00
6,000.00	9.73	346.31	5,922.67	896.14	-218.23	293.04	0.00	0.00	0.00
6,100.00	9.73	346.31	6,021.23	912.56	-222.22	298.41	0.00	0.00	0.00
6,109.91	9.73	346.31	6,031.00	914.19	-222.62	298.95	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
6,200.00	9.73	346.31	6,119.79	928.98	-226.22	303.78	0.00	0.00	0.00
6,300.00	9.73	346.31	6,218.35	945.40	-230.22	309.15	0.00	0.00	0.00
6,400.00	9.73	346.31	6,316.91	961.83	-234.22	314.52	0.00	0.00	0.00
6,500.00	9.73	346.31	6,415.48	978.25	-238.22	319.89	0.00	0.00	0.00
6,530.97	9.73	346.31	6,446.00	983.33	-239.46	321.56	0.00	0.00	0.00
Pierre Formation									
6,600.00	9.73	346.31	6,514.04	994.67	-242.22	325.26	0.00	0.00	0.00
6,700.00	9.73	346.31	6,612.60	1,011.09	-246.22	330.63	0.00	0.00	0.00
6,800.00	9.73	346.31	6,711.16	1,027.51	-250.22	336.00	0.00	0.00	0.00
6,900.00	9.73	346.31	6,809.72	1,043.93	-254.21	341.37	0.00	0.00	0.00
7,000.00	9.73	346.31	6,908.28	1,060.35	-258.21	346.74	0.00	0.00	0.00
7,100.00	9.73	346.31	7,006.84	1,076.77	-262.21	352.11	0.00	0.00	0.00
7,200.00	9.73	346.31	7,105.41	1,093.19	-266.21	357.48	0.00	0.00	0.00
7,249.20	9.73	346.31	7,153.90	1,101.27	-268.18	360.12	0.00	0.00	0.00
Start DLS 10.00 TFO -76.21									
7,300.00	11.99	321.87	7,203.81	1,109.60	-272.46	365.09	10.00	4.45	-48.13
7,350.00	15.56	306.99	7,252.38	1,117.73	-281.02	374.31	10.00	7.14	-29.74
7,400.00	19.75	297.91	7,300.02	1,125.72	-293.85	387.77	10.00	8.37	-18.16
7,450.00	24.23	291.99	7,346.38	1,133.52	-310.84	405.36	10.00	8.97	-11.84

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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	28.88	287.86	7,391.09	1,141.07	-331.87	426.94	10.00	9.30	-8.28
7,550.00	33.62	284.79	7,433.83	1,148.31	-356.76	452.36	10.00	9.48	-6.13
7,600.00	38.42	282.41	7,474.26	1,155.19	-385.34	481.41	10.00	9.60	-4.76
7,650.00	43.26	280.48	7,512.07	1,161.65	-417.38	513.89	10.00	9.68	-3.85
7,700.00	48.13	278.88	7,546.99	1,167.64	-452.65	549.53	10.00	9.73	-3.21
7,750.00	53.02	277.50	7,578.73	1,173.13	-490.86	588.08	10.00	9.77	-2.76
7,800.00	57.92	276.29	7,607.07	1,178.05	-531.74	629.23	10.00	9.80	-2.42
7,850.00	62.83	275.20	7,631.78	1,182.39	-574.97	672.67	10.00	9.82	-2.17
7,859.39	63.75	275.01	7,636.00	1,183.14	-583.33	681.06	10.00	9.83	-2.06
Sharon Springs Member									
7,900.00	67.74	274.20	7,652.68	1,186.11	-620.23	718.07	10.00	9.84	-1.98
7,950.00	72.67	273.28	7,669.61	1,189.17	-667.16	765.10	10.00	9.85	-1.86
8,000.00	77.59	272.40	7,682.43	1,191.55	-715.41	813.38	10.00	9.85	-1.76
8,050.00	82.52	271.55	7,691.06	1,193.25	-764.61	862.55	10.00	9.86	-1.69
8,100.00	87.46	270.72	7,695.43	1,194.23	-814.40	912.24	10.00	9.86	-1.66
8,125.79	90.00	270.30	7,696.00	1,194.46	-840.18	937.95	10.00	9.86	-1.64
Start 10273.20 hold at 8125.79 MD - Niobrara Formation									
8,200.00	90.00	270.30	7,696.00	1,194.85	-914.39	1,011.92	0.00	0.00	0.00
8,300.00	90.00	270.30	7,696.00	1,195.38	-1,014.38	1,111.61	0.00	0.00	0.00
8,400.00	90.00	270.30	7,696.00	1,195.90	-1,114.38	1,211.29	0.00	0.00	0.00
8,500.00	90.00	270.30	7,696.00	1,196.42	-1,214.38	1,310.98	0.00	0.00	0.00
8,600.00	90.00	270.30	7,696.00	1,196.94	-1,314.38	1,410.67	0.00	0.00	0.00
8,700.00	90.00	270.30	7,696.00	1,197.47	-1,414.38	1,510.35	0.00	0.00	0.00
8,800.00	90.00	270.30	7,696.00	1,197.99	-1,514.38	1,610.04	0.00	0.00	0.00
8,900.00	90.00	270.30	7,696.00	1,198.51	-1,614.38	1,709.73	0.00	0.00	0.00
9,000.00	90.00	270.30	7,696.00	1,199.04	-1,714.38	1,809.41	0.00	0.00	0.00
9,100.00	90.00	270.30	7,696.00	1,199.56	-1,814.37	1,909.10	0.00	0.00	0.00
9,200.00	90.00	270.30	7,696.00	1,200.08	-1,914.37	2,008.79	0.00	0.00	0.00
9,300.00	90.00	270.30	7,696.00	1,200.60	-2,014.37	2,108.47	0.00	0.00	0.00
9,400.00	90.00	270.30	7,696.00	1,201.13	-2,114.37	2,208.16	0.00	0.00	0.00
9,500.00	90.00	270.30	7,696.00	1,201.65	-2,214.37	2,307.84	0.00	0.00	0.00
9,600.00	90.00	270.30	7,696.00	1,202.17	-2,314.37	2,407.53	0.00	0.00	0.00
9,700.00	90.00	270.30	7,696.00	1,202.70	-2,414.37	2,507.22	0.00	0.00	0.00
9,800.00	90.00	270.30	7,696.00	1,203.22	-2,514.36	2,606.90	0.00	0.00	0.00
9,900.00	90.00	270.30	7,696.00	1,203.74	-2,614.36	2,706.59	0.00	0.00	0.00
10,000.00	90.00	270.30	7,696.00	1,204.26	-2,714.36	2,806.28	0.00	0.00	0.00
10,100.00	90.00	270.30	7,696.00	1,204.79	-2,814.36	2,905.96	0.00	0.00	0.00
10,200.00	90.00	270.30	7,696.00	1,205.31	-2,914.36	3,005.65	0.00	0.00	0.00
10,300.00	90.00	270.30	7,696.00	1,205.83	-3,014.36	3,105.33	0.00	0.00	0.00
10,400.00	90.00	270.30	7,696.00	1,206.36	-3,114.36	3,205.02	0.00	0.00	0.00
10,500.00	90.00	270.30	7,696.00	1,206.88	-3,214.35	3,304.71	0.00	0.00	0.00
10,600.00	90.00	270.30	7,696.00	1,207.40	-3,314.35	3,404.39	0.00	0.00	0.00
10,700.00	90.00	270.30	7,696.00	1,207.92	-3,414.35	3,504.08	0.00	0.00	0.00
10,800.00	90.00	270.30	7,696.00	1,208.45	-3,514.35	3,603.77	0.00	0.00	0.00
10,900.00	90.00	270.30	7,696.00	1,208.97	-3,614.35	3,703.45	0.00	0.00	0.00
11,000.00	90.00	270.30	7,696.00	1,209.49	-3,714.35	3,803.14	0.00	0.00	0.00
11,100.00	90.00	270.30	7,696.00	1,210.02	-3,814.35	3,902.82	0.00	0.00	0.00
11,200.00	90.00	270.30	7,696.00	1,210.54	-3,914.35	4,002.51	0.00	0.00	0.00
11,300.00	90.00	270.30	7,696.00	1,211.06	-4,014.34	4,102.20	0.00	0.00	0.00
11,400.00	90.00	270.30	7,696.00	1,211.58	-4,114.34	4,201.88	0.00	0.00	0.00
11,500.00	90.00	270.30	7,696.00	1,212.11	-4,214.34	4,301.57	0.00	0.00	0.00
11,600.00	90.00	270.30	7,696.00	1,212.63	-4,314.34	4,401.26	0.00	0.00	0.00
11,700.00	90.00	270.30	7,696.00	1,213.15	-4,414.34	4,500.94	0.00	0.00	0.00
11,800.00	90.00	270.30	7,696.00	1,213.68	-4,514.34	4,600.63	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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	270.30	7,696.00	1,214.20	-4,614.34	4,700.32	0.00	0.00	0.00
12,000.00	90.00	270.30	7,696.00	1,214.72	-4,714.33	4,800.00	0.00	0.00	0.00
12,100.00	90.00	270.30	7,696.00	1,215.24	-4,814.33	4,899.69	0.00	0.00	0.00
12,200.00	90.00	270.30	7,696.00	1,215.77	-4,914.33	4,999.37	0.00	0.00	0.00
12,300.00	90.00	270.30	7,696.00	1,216.29	-5,014.33	5,099.06	0.00	0.00	0.00
12,400.00	90.00	270.30	7,696.00	1,216.81	-5,114.33	5,198.75	0.00	0.00	0.00
12,500.00	90.00	270.30	7,696.00	1,217.34	-5,214.33	5,298.43	0.00	0.00	0.00
12,600.00	90.00	270.30	7,696.00	1,217.86	-5,314.33	5,398.12	0.00	0.00	0.00
12,700.00	90.00	270.30	7,696.00	1,218.38	-5,414.32	5,497.81	0.00	0.00	0.00
12,800.00	90.00	270.30	7,696.00	1,218.90	-5,514.32	5,597.49	0.00	0.00	0.00
12,900.00	90.00	270.30	7,696.00	1,219.43	-5,614.32	5,697.18	0.00	0.00	0.00
13,000.00	90.00	270.30	7,696.00	1,219.95	-5,714.32	5,796.86	0.00	0.00	0.00
13,100.00	90.00	270.30	7,696.00	1,220.47	-5,814.32	5,896.55	0.00	0.00	0.00
13,200.00	90.00	270.30	7,696.00	1,221.00	-5,914.32	5,996.24	0.00	0.00	0.00
13,300.00	90.00	270.30	7,696.00	1,221.52	-6,014.32	6,095.92	0.00	0.00	0.00
13,400.00	90.00	270.30	7,696.00	1,222.04	-6,114.32	6,195.61	0.00	0.00	0.00
13,500.00	90.00	270.30	7,696.00	1,222.56	-6,214.31	6,295.30	0.00	0.00	0.00
13,600.00	90.00	270.30	7,696.00	1,223.09	-6,314.31	6,394.98	0.00	0.00	0.00
13,700.00	90.00	270.30	7,696.00	1,223.61	-6,414.31	6,494.67	0.00	0.00	0.00
13,800.00	90.00	270.30	7,696.00	1,224.13	-6,514.31	6,594.35	0.00	0.00	0.00
13,900.00	90.00	270.30	7,696.00	1,224.66	-6,614.31	6,694.04	0.00	0.00	0.00
14,000.00	90.00	270.30	7,696.00	1,225.18	-6,714.31	6,793.73	0.00	0.00	0.00
14,100.00	90.00	270.30	7,696.00	1,225.70	-6,814.31	6,893.41	0.00	0.00	0.00
14,200.00	90.00	270.30	7,696.00	1,226.22	-6,914.30	6,993.10	0.00	0.00	0.00
14,300.00	90.00	270.30	7,696.00	1,226.75	-7,014.30	7,092.79	0.00	0.00	0.00
14,400.00	90.00	270.30	7,696.00	1,227.27	-7,114.30	7,192.47	0.00	0.00	0.00
14,500.00	90.00	270.30	7,696.00	1,227.79	-7,214.30	7,292.16	0.00	0.00	0.00
14,600.00	90.00	270.30	7,696.00	1,228.32	-7,314.30	7,391.85	0.00	0.00	0.00
14,700.00	90.00	270.30	7,696.00	1,228.84	-7,414.30	7,491.53	0.00	0.00	0.00
14,800.00	90.00	270.30	7,696.00	1,229.36	-7,514.30	7,591.22	0.00	0.00	0.00
14,900.00	90.00	270.30	7,696.00	1,229.88	-7,614.29	7,690.90	0.00	0.00	0.00
15,000.00	90.00	270.30	7,696.00	1,230.41	-7,714.29	7,790.59	0.00	0.00	0.00
15,100.00	90.00	270.30	7,696.00	1,230.93	-7,814.29	7,890.28	0.00	0.00	0.00
15,200.00	90.00	270.30	7,696.00	1,231.45	-7,914.29	7,989.96	0.00	0.00	0.00
15,300.00	90.00	270.30	7,696.00	1,231.98	-8,014.29	8,089.65	0.00	0.00	0.00
15,400.00	90.00	270.30	7,696.00	1,232.50	-8,114.29	8,189.34	0.00	0.00	0.00
15,500.00	90.00	270.30	7,696.00	1,233.02	-8,214.29	8,289.02	0.00	0.00	0.00
15,600.00	90.00	270.30	7,696.00	1,233.54	-8,314.29	8,388.71	0.00	0.00	0.00
15,700.00	90.00	270.30	7,696.00	1,234.07	-8,414.28	8,488.39	0.00	0.00	0.00
15,800.00	90.00	270.30	7,696.00	1,234.59	-8,514.28	8,588.08	0.00	0.00	0.00
15,900.00	90.00	270.30	7,696.00	1,235.11	-8,614.28	8,687.77	0.00	0.00	0.00
16,000.00	90.00	270.30	7,696.00	1,235.64	-8,714.28	8,787.45	0.00	0.00	0.00
16,100.00	90.00	270.30	7,696.00	1,236.16	-8,814.28	8,887.14	0.00	0.00	0.00
16,200.00	90.00	270.30	7,696.00	1,236.68	-8,914.28	8,986.83	0.00	0.00	0.00
16,300.00	90.00	270.30	7,696.00	1,237.21	-9,014.28	9,086.51	0.00	0.00	0.00
16,400.00	90.00	270.30	7,696.00	1,237.73	-9,114.27	9,186.20	0.00	0.00	0.00
16,500.00	90.00	270.30	7,696.00	1,238.25	-9,214.27	9,285.88	0.00	0.00	0.00
16,600.00	90.00	270.30	7,696.00	1,238.77	-9,314.27	9,385.57	0.00	0.00	0.00
16,700.00	90.00	270.30	7,696.00	1,239.30	-9,414.27	9,485.26	0.00	0.00	0.00
16,800.00	90.00	270.30	7,696.00	1,239.82	-9,514.27	9,584.94	0.00	0.00	0.00
16,900.00	90.00	270.30	7,696.00	1,240.34	-9,614.27	9,684.63	0.00	0.00	0.00
17,000.00	90.00	270.30	7,696.00	1,240.87	-9,714.27	9,784.32	0.00	0.00	0.00
17,100.00	90.00	270.30	7,696.00	1,241.39	-9,814.26	9,884.00	0.00	0.00	0.00
17,200.00	90.00	270.30	7,696.00	1,241.91	-9,914.26	9,983.69	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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	270.30	7,696.00	1,242.43	-10,014.26	10,083.38	0.00	0.00	0.00
17,400.00	90.00	270.30	7,696.00	1,242.96	-10,114.26	10,183.06	0.00	0.00	0.00
17,500.00	90.00	270.30	7,696.00	1,243.48	-10,214.26	10,282.75	0.00	0.00	0.00
17,600.00	90.00	270.30	7,696.00	1,244.00	-10,314.26	10,382.43	0.00	0.00	0.00
17,700.00	90.00	270.30	7,696.00	1,244.53	-10,414.26	10,482.12	0.00	0.00	0.00
17,800.00	90.00	270.30	7,696.00	1,245.05	-10,514.26	10,581.81	0.00	0.00	0.00
17,900.00	90.00	270.30	7,696.00	1,245.57	-10,614.25	10,681.49	0.00	0.00	0.00
18,000.00	90.00	270.30	7,696.00	1,246.09	-10,714.25	10,781.18	0.00	0.00	0.00
18,100.00	90.00	270.30	7,696.00	1,246.62	-10,814.25	10,880.87	0.00	0.00	0.00
18,200.00	90.00	270.30	7,696.00	1,247.14	-10,914.25	10,980.55	0.00	0.00	0.00
18,300.00	90.00	270.30	7,696.00	1,247.66	-11,014.25	11,080.24	0.00	0.00	0.00
18,398.99	90.00	270.30	7,696.00	1,248.18	-11,113.24	11,178.92	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00									
18,400.00	90.00	270.32	7,696.00	1,248.19	-11,114.25	11,179.92	2.00	0.00	2.00
18,500.00	90.00	272.32	7,696.00	1,250.49	-11,214.22	11,279.73	2.00	0.00	2.00
18,541.41	90.00	273.15	7,696.00	1,252.46	-11,255.58	11,321.12	2.00	0.00	2.00
Start 10114.80 hold at 18541.41 MD									
18,600.00	90.00	273.15	7,696.00	1,255.68	-11,314.08	11,379.68	0.00	0.00	0.00
18,700.00	90.00	273.15	7,696.00	1,261.17	-11,413.93	11,479.63	0.00	0.00	0.00
18,800.00	90.00	273.15	7,696.00	1,266.66	-11,513.78	11,579.59	0.00	0.00	0.00
18,900.00	90.00	273.15	7,696.00	1,272.16	-11,613.63	11,679.55	0.00	0.00	0.00
19,000.00	90.00	273.15	7,696.00	1,277.65	-11,713.48	11,779.50	0.00	0.00	0.00
19,100.00	90.00	273.15	7,696.00	1,283.14	-11,813.32	11,879.46	0.00	0.00	0.00
19,200.00	90.00	273.15	7,696.00	1,288.63	-11,913.17	11,979.42	0.00	0.00	0.00
19,300.00	90.00	273.15	7,696.00	1,294.12	-12,013.02	12,079.37	0.00	0.00	0.00
19,400.00	90.00	273.15	7,696.00	1,299.61	-12,112.87	12,179.33	0.00	0.00	0.00
19,500.00	90.00	273.15	7,696.00	1,305.10	-12,212.72	12,279.29	0.00	0.00	0.00
19,600.00	90.00	273.15	7,696.00	1,310.60	-12,312.57	12,379.24	0.00	0.00	0.00
19,700.00	90.00	273.15	7,696.00	1,316.09	-12,412.42	12,479.20	0.00	0.00	0.00
19,800.00	90.00	273.15	7,696.00	1,321.58	-12,512.27	12,579.15	0.00	0.00	0.00
19,900.00	90.00	273.15	7,696.00	1,327.07	-12,612.12	12,679.11	0.00	0.00	0.00
20,000.00	90.00	273.15	7,696.00	1,332.56	-12,711.97	12,779.07	0.00	0.00	0.00
20,100.00	90.00	273.15	7,696.00	1,338.05	-12,811.82	12,879.02	0.00	0.00	0.00
20,200.00	90.00	273.15	7,696.00	1,343.55	-12,911.67	12,978.98	0.00	0.00	0.00
20,300.00	90.00	273.15	7,696.00	1,349.04	-13,011.51	13,078.94	0.00	0.00	0.00
20,400.00	90.00	273.15	7,696.00	1,354.53	-13,111.36	13,178.89	0.00	0.00	0.00
20,500.00	90.00	273.15	7,696.00	1,360.02	-13,211.21	13,278.85	0.00	0.00	0.00
20,600.00	90.00	273.15	7,696.00	1,365.51	-13,311.06	13,378.81	0.00	0.00	0.00
20,700.00	90.00	273.15	7,696.00	1,371.00	-13,410.91	13,478.76	0.00	0.00	0.00
20,800.00	90.00	273.15	7,696.00	1,376.49	-13,510.76	13,578.72	0.00	0.00	0.00
20,900.00	90.00	273.15	7,696.00	1,381.99	-13,610.61	13,678.68	0.00	0.00	0.00
21,000.00	90.00	273.15	7,696.00	1,387.48	-13,710.46	13,778.63	0.00	0.00	0.00
21,100.00	90.00	273.15	7,696.00	1,392.97	-13,810.31	13,878.59	0.00	0.00	0.00
21,200.00	90.00	273.15	7,696.00	1,398.46	-13,910.16	13,978.54	0.00	0.00	0.00
21,300.00	90.00	273.15	7,696.00	1,403.95	-14,010.01	14,078.50	0.00	0.00	0.00
21,400.00	90.00	273.15	7,696.00	1,409.44	-14,109.85	14,178.46	0.00	0.00	0.00
21,500.00	90.00	273.15	7,696.00	1,414.94	-14,209.70	14,278.41	0.00	0.00	0.00
21,600.00	90.00	273.15	7,696.00	1,420.43	-14,309.55	14,378.37	0.00	0.00	0.00
21,700.00	90.00	273.15	7,696.00	1,425.92	-14,409.40	14,478.33	0.00	0.00	0.00
21,800.00	90.00	273.15	7,696.00	1,431.41	-14,509.25	14,578.28	0.00	0.00	0.00
21,900.00	90.00	273.15	7,696.00	1,436.90	-14,609.10	14,678.24	0.00	0.00	0.00
22,000.00	90.00	273.15	7,696.00	1,442.39	-14,708.95	14,778.20	0.00	0.00	0.00
22,100.00	90.00	273.15	7,696.00	1,447.88	-14,808.80	14,878.15	0.00	0.00	0.00
22,200.00	90.00	273.15	7,696.00	1,453.38	-14,908.65	14,978.11	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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)
22,300.00	90.00	273.15	7,696.00	1,458.87	-15,008.50	15,078.07	0.00	0.00	0.00
22,400.00	90.00	273.15	7,696.00	1,464.36	-15,108.35	15,178.02	0.00	0.00	0.00
22,500.00	90.00	273.15	7,696.00	1,469.85	-15,208.19	15,277.98	0.00	0.00	0.00
22,600.00	90.00	273.15	7,696.00	1,475.34	-15,308.04	15,377.94	0.00	0.00	0.00
22,700.00	90.00	273.15	7,696.00	1,480.83	-15,407.89	15,477.89	0.00	0.00	0.00
22,800.00	90.00	273.15	7,696.00	1,486.32	-15,507.74	15,577.85	0.00	0.00	0.00
22,900.00	90.00	273.15	7,696.00	1,491.82	-15,607.59	15,677.80	0.00	0.00	0.00
23,000.00	90.00	273.15	7,696.00	1,497.31	-15,707.44	15,777.76	0.00	0.00	0.00
23,100.00	90.00	273.15	7,696.00	1,502.80	-15,807.29	15,877.72	0.00	0.00	0.00
23,200.00	90.00	273.15	7,696.00	1,508.29	-15,907.14	15,977.67	0.00	0.00	0.00
23,300.00	90.00	273.15	7,696.00	1,513.78	-16,006.99	16,077.63	0.00	0.00	0.00
23,400.00	90.00	273.15	7,696.00	1,519.27	-16,106.84	16,177.59	0.00	0.00	0.00
23,500.00	90.00	273.15	7,696.00	1,524.77	-16,206.69	16,277.54	0.00	0.00	0.00
23,600.00	90.00	273.15	7,696.00	1,530.26	-16,306.53	16,377.50	0.00	0.00	0.00
23,700.00	90.00	273.15	7,696.00	1,535.75	-16,406.38	16,477.46	0.00	0.00	0.00
23,800.00	90.00	273.15	7,696.00	1,541.24	-16,506.23	16,577.41	0.00	0.00	0.00
23,900.00	90.00	273.15	7,696.00	1,546.73	-16,606.08	16,677.37	0.00	0.00	0.00
24,000.00	90.00	273.15	7,696.00	1,552.22	-16,705.93	16,777.33	0.00	0.00	0.00
24,100.00	90.00	273.15	7,696.00	1,557.71	-16,805.78	16,877.28	0.00	0.00	0.00
24,200.00	90.00	273.15	7,696.00	1,563.21	-16,905.63	16,977.24	0.00	0.00	0.00
24,300.00	90.00	273.15	7,696.00	1,568.70	-17,005.48	17,077.19	0.00	0.00	0.00
24,400.00	90.00	273.15	7,696.00	1,574.19	-17,105.33	17,177.15	0.00	0.00	0.00
24,500.00	90.00	273.15	7,696.00	1,579.68	-17,205.18	17,277.11	0.00	0.00	0.00
24,600.00	90.00	273.15	7,696.00	1,585.17	-17,305.03	17,377.06	0.00	0.00	0.00
24,700.00	90.00	273.15	7,696.00	1,590.66	-17,404.87	17,477.02	0.00	0.00	0.00
24,800.00	90.00	273.15	7,696.00	1,596.16	-17,504.72	17,576.98	0.00	0.00	0.00
24,900.00	90.00	273.15	7,696.00	1,601.65	-17,604.57	17,676.93	0.00	0.00	0.00
25,000.00	90.00	273.15	7,696.00	1,607.14	-17,704.42	17,776.89	0.00	0.00	0.00
25,100.00	90.00	273.15	7,696.00	1,612.63	-17,804.27	17,876.85	0.00	0.00	0.00
25,200.00	90.00	273.15	7,696.00	1,618.12	-17,904.12	17,976.80	0.00	0.00	0.00
25,300.00	90.00	273.15	7,696.00	1,623.61	-18,003.97	18,076.76	0.00	0.00	0.00
25,400.00	90.00	273.15	7,696.00	1,629.10	-18,103.82	18,176.72	0.00	0.00	0.00
25,500.00	90.00	273.15	7,696.00	1,634.60	-18,203.67	18,276.67	0.00	0.00	0.00
25,600.00	90.00	273.15	7,696.00	1,640.09	-18,303.52	18,376.63	0.00	0.00	0.00
25,700.00	90.00	273.15	7,696.00	1,645.58	-18,403.37	18,476.58	0.00	0.00	0.00
25,800.00	90.00	273.15	7,696.00	1,651.07	-18,503.21	18,576.54	0.00	0.00	0.00
25,900.00	90.00	273.15	7,696.00	1,656.56	-18,603.06	18,676.50	0.00	0.00	0.00
26,000.00	90.00	273.15	7,696.00	1,662.05	-18,702.91	18,776.45	0.00	0.00	0.00
26,100.00	90.00	273.15	7,696.00	1,667.54	-18,802.76	18,876.41	0.00	0.00	0.00
26,200.00	90.00	273.15	7,696.00	1,673.04	-18,902.61	18,976.37	0.00	0.00	0.00
26,300.00	90.00	273.15	7,696.00	1,678.53	-19,002.46	19,076.32	0.00	0.00	0.00
26,400.00	90.00	273.15	7,696.00	1,684.02	-19,102.31	19,176.28	0.00	0.00	0.00
26,500.00	90.00	273.15	7,696.00	1,689.51	-19,202.16	19,276.24	0.00	0.00	0.00
26,600.00	90.00	273.15	7,696.00	1,695.00	-19,302.01	19,376.19	0.00	0.00	0.00
26,700.00	90.00	273.15	7,696.00	1,700.49	-19,401.86	19,476.15	0.00	0.00	0.00
26,800.00	90.00	273.15	7,696.00	1,705.99	-19,501.71	19,576.11	0.00	0.00	0.00
26,900.00	90.00	273.15	7,696.00	1,711.48	-19,601.56	19,676.06	0.00	0.00	0.00
27,000.00	90.00	273.15	7,696.00	1,716.97	-19,701.40	19,776.02	0.00	0.00	0.00
27,100.00	90.00	273.15	7,696.00	1,722.46	-19,801.25	19,875.98	0.00	0.00	0.00
27,200.00	90.00	273.15	7,696.00	1,727.95	-19,901.10	19,975.93	0.00	0.00	0.00
27,300.00	90.00	273.15	7,696.00	1,733.44	-20,000.95	20,075.89	0.00	0.00	0.00
27,400.00	90.00	273.15	7,696.00	1,738.93	-20,100.80	20,175.84	0.00	0.00	0.00
27,500.00	90.00	273.15	7,696.00	1,744.43	-20,200.65	20,275.80	0.00	0.00	0.00
27,600.00	90.00	273.15	7,696.00	1,749.92	-20,300.50	20,375.76	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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)	
27,700.00	90.00	273.15	7,696.00	1,755.41	-20,400.35	20,475.71	0.00	0.00	0.00	
27,800.00	90.00	273.15	7,696.00	1,760.90	-20,500.20	20,575.67	0.00	0.00	0.00	
27,900.00	90.00	273.15	7,696.00	1,766.39	-20,600.05	20,675.63	0.00	0.00	0.00	
28,000.00	90.00	273.15	7,696.00	1,771.88	-20,699.90	20,775.58	0.00	0.00	0.00	
28,100.00	90.00	273.15	7,696.00	1,777.38	-20,799.74	20,875.54	0.00	0.00	0.00	
28,200.00	90.00	273.15	7,696.00	1,782.87	-20,899.59	20,975.50	0.00	0.00	0.00	
28,300.00	90.00	273.15	7,696.00	1,788.36	-20,999.44	21,075.45	0.00	0.00	0.00	
28,400.00	90.00	273.15	7,696.00	1,793.85	-21,099.29	21,175.41	0.00	0.00	0.00	
28,500.00	90.00	273.15	7,696.00	1,799.34	-21,199.14	21,275.37	0.00	0.00	0.00	
28,600.00	90.00	273.15	7,696.00	1,804.83	-21,298.99	21,375.32	0.00	0.00	0.00	
28,656.21	90.00	273.15	7,696.00	1,807.92	-21,355.12	21,431.51	0.00	0.00	0.00	
TD at 28656.21										

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	
LP-BLUE 3-64 2AH - plan hits target center - Point	0.00	0.00	7,696.00	1,194.46	-840.18	1,152,714.45	3,236,015.27	39.749501°N	104.660621°W	
WP 1-BLUE 3-64 2AH - plan hits target center - Point	0.00	0.00	7,696.00	1,248.18	-11,113.24	1,152,670.58	3,225,742.21	39.749642°N	104.697156°W	
PBHL-BLUE 3-64 2AH - plan hits target center - Point	0.00	0.00	7,696.00	1,807.92	-21,355.12	1,153,133.00	3,215,495.52	39.751160°N	104.733582°W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
717.48	716.00	Arapahoe				
1,326.10	1,316.00	Laramie-Fox Hills Formation				
1,985.58	1,966.00	Pierre Formation				
2,482.74	2,456.00	Upper Pierre aquifer				
3,152.37	3,116.00	Base of Upper Pierre aquifer				
4,232.91	4,181.00	Larimer ("Parkman") sandstone				
4,359.74	4,306.00	Pierre Formation				
5,323.60	5,256.00	Terry ("Sussex") sandstone				
5,521.45	5,451.00	Pierre Formation				
6,109.91	6,031.00	Hygiene ("Shannon") sandstone				
6,530.97	6,446.00	Pierre Formation				
7,859.39	7,636.00	Sharon Springs Member				
8,125.79	7,696.00	Niobrara Formation				

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well BLUE 3-65 33-32-31-36 2AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5619.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5619.00usft
Site:	SEC 34-T3S-R65W	North Reference:	True
Well:	BLUE 3-65 33-32-31-36 2AH	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
786.50	784.17	40.04	-9.75	Start 6462.70 hold at 786.50 MD
7,249.20	7,153.90	1,101.27	-268.18	Start DLS 10.00 TFO -76.21
8,125.79	7,696.00	1,194.46	-840.18	Start 10273.20 hold at 8125.79 MD
18,398.99	7,696.00	1,248.18	-11,113.24	Start DLS 2.00 TFO 90.00
18,541.41	7,696.00	1,252.46	-11,255.58	Start 10114.80 hold at 18541.41 MD
28,656.21	7,696.00	1,807.92	-21,355.12	TD at 28656.21