

CRESTONE PEAK RESOURCES

ADAMS COUNTY

SEC 28-T3S-R65W

BEAR 3-65 22-23 4BH

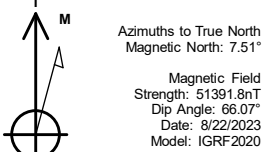
OWB

Plan: PROPOSAL 1

Standard Planning Report

24 August, 2023

Project: ADAMS COUNTY
Site: SEC 28-T3S-R65W
Well: BEAR 3-65 22-23 4BH
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: BEAR 3-65 22-23 4BH						
				5585.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1156451.40	3235874.18	39.759763°N	104.660997°W	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1546.15	28.92	2.99	1485.51	356.84	18.65	133.65	357.33	Start 6527.49 hold at 1546.15 MD	
8073.65	28.92	2.99	7198.83	3509.46	183.38	1314.43	3514.25	Start DLS 10.00 TFO 87.84	
8961.73	90.00	90.53	7690.00	3775.33	758.69	1944.91	4196.60	Start 9956.17 hold at 8961.73 MD	
18917.90	90.00	90.53	7690.00	3683.63	10714.44	11329.98	14152.77	TD at 18917.90	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
3	1546.15	28.92	2.99	1485.51	356.84	18.65	2.00	2.99	133.65	
4	8073.65	28.92	2.99	7198.83	3509.46	183.38	0.00	0.00	1314.43	
5	8961.73	90.00	90.53	7690.00	3775.33	758.69	10.00	87.84	1944.91	LP-BEAR 3-65 22-23 4BH
6	18917.90	90.00	90.53	7690.00	3683.63	10714.44	0.00	0.00	11329.98	PBHL-BEAR 3-65 22-23 4BH

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
LP-BEAR 3-65 22-23 4BH - plan hits target center	7690.00	3775.33	758.69	1160233.71	3236597.11	39.770127°N	104.658298°W	Point	
PBHL-BEAR 3-65 22-23 4BH - plan hits target center	7690.00	3683.63	10714.44	1160236.22	3246553.21	39.769869°N	104.622881°W	Point	

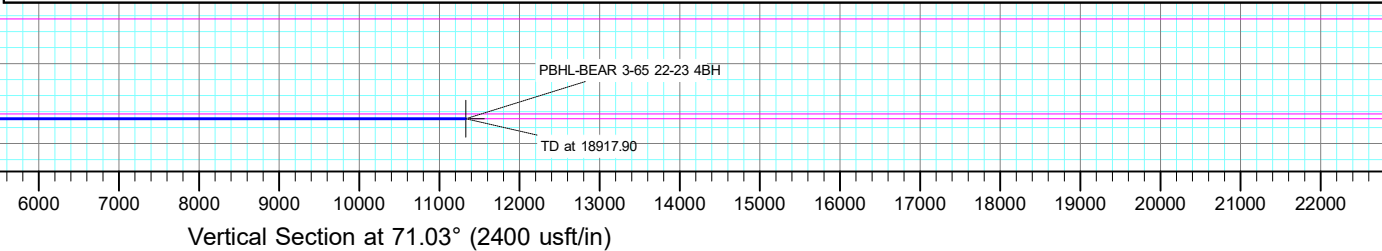
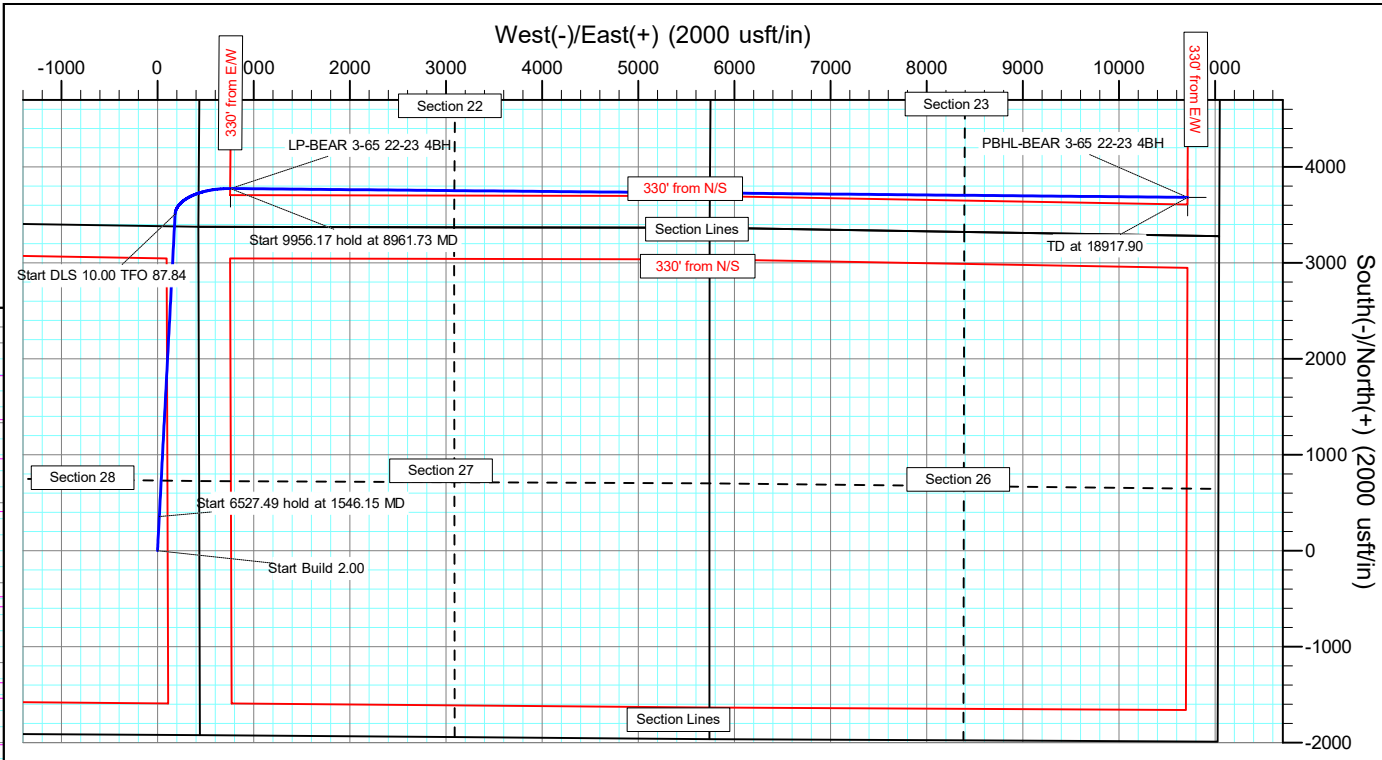
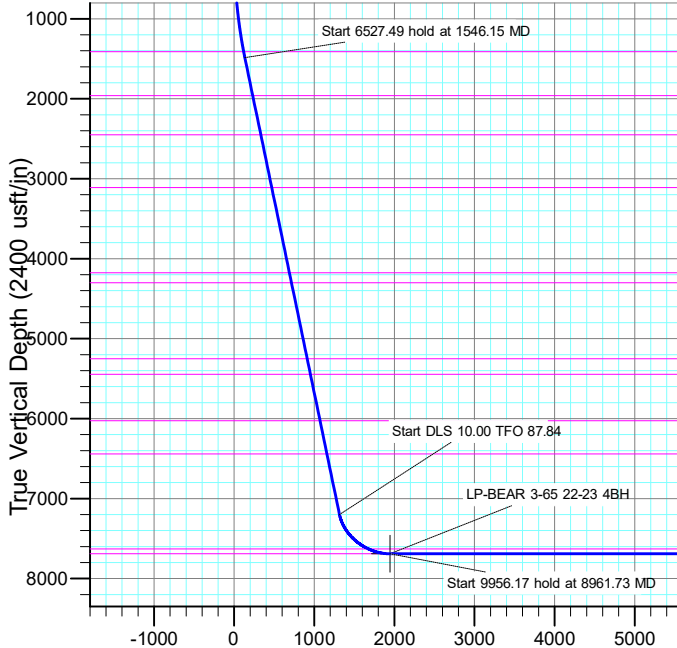
PROJECT DETAILS: ADAMS COUNTY

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

SHL:
1918' FSL, 435' FEL
Sec 28-T3S-R65W

LP:
400' FSL, 330' FWL
Sec 22-T3S-R65W

BHL:
400' FSL, 330' FEL
Sec 23-T3S-R65W



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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 28-T3S-R65W		
Site Position:		Northing:	1,154,535.24 usft
From:	Lat/Long	Easting:	3,236,332.63 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.754491°N
		Longitude:	104.659431°W
		Grid Convergence:	0.54 °

Well	BEAR 3-65 22-23 4BH					
Well Position	+N/-S	1,920.43 usft	Northing:	1,156,451.40 usft	Latitude:	39.759763°N
	+E/-W	-440.27 usft	Easting:	3,235,874.18 usft	Longitude:	104.660997°W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	5,585.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/22/2023	7.51	66.07	51,391.82699644

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	71.03

Plan Survey Tool Program	Date	8/24/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,917.90	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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,546.15	28.92	2.99	1,485.51	356.84	18.65	2.00	2.00	0.00	2.99	
8,073.65	28.92	2.99	7,198.83	3,509.46	183.38	0.00	0.00	0.00	0.00	
8,961.73	90.00	90.53	7,690.00	3,775.33	758.69	10.00	6.88	9.86	87.84	LP-BEAR 3-65 22-23
18,917.91	90.00	90.53	7,690.00	3,683.63	10,714.44	0.00	0.00	0.00	0.00	PBHL-BEAR 3-65 22-

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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
Start Build 2.00									
200.00	2.00	2.99	199.98	1.74	0.09	0.65	2.00	2.00	0.00
300.00	4.00	2.99	299.84	6.97	0.36	2.61	2.00	2.00	0.00
400.00	6.00	2.99	399.45	15.67	0.82	5.87	2.00	2.00	0.00
500.00	8.00	2.99	498.70	27.84	1.45	10.43	2.00	2.00	0.00
600.00	10.00	2.99	597.47	43.46	2.27	16.28	2.00	2.00	0.00
700.00	12.00	2.99	695.62	62.52	3.27	23.42	2.00	2.00	0.00
765.98	13.32	2.99	760.00	76.96	4.02	28.82	2.00	2.00	0.00
Arapahoe									
800.00	14.00	2.99	793.06	84.98	4.44	31.83	2.00	2.00	0.00
900.00	16.00	2.99	889.64	110.83	5.79	41.51	2.00	2.00	0.00
1,000.00	18.00	2.99	985.27	140.02	7.32	52.44	2.00	2.00	0.00
1,100.00	20.00	2.99	1,079.82	172.53	9.02	64.62	2.00	2.00	0.00
1,200.00	22.00	2.99	1,173.17	208.32	10.89	78.02	2.00	2.00	0.00
1,300.00	24.00	2.99	1,265.21	247.34	12.92	92.64	2.00	2.00	0.00
1,400.00	26.00	2.99	1,355.84	289.54	15.13	108.44	2.00	2.00	0.00
1,460.57	27.21	2.99	1,410.00	316.63	16.55	118.59	2.00	2.00	0.00
Laramie-Fox Hills Formation									
1,500.00	28.00	2.99	1,444.94	334.87	17.50	125.42	2.00	2.00	0.00
1,546.15	28.92	2.99	1,485.51	356.84	18.65	133.65	2.00	2.00	0.00
Start 6527.49 hold at 1546.15 MD									
1,600.00	28.92	2.99	1,532.64	382.85	20.01	143.39	0.00	0.00	0.00
1,700.00	28.92	2.99	1,620.17	431.14	22.53	161.48	0.00	0.00	0.00
1,800.00	28.92	2.99	1,707.70	479.44	25.05	179.57	0.00	0.00	0.00
1,900.00	28.92	2.99	1,795.22	527.74	27.58	197.66	0.00	0.00	0.00
2,000.00	28.92	2.99	1,882.75	576.04	30.10	215.75	0.00	0.00	0.00
2,088.26	28.92	2.99	1,960.00	618.66	32.33	231.71	0.00	0.00	0.00
Pierre Formation									
2,100.00	28.92	2.99	1,970.28	624.33	32.62	233.84	0.00	0.00	0.00
2,200.00	28.92	2.99	2,057.80	672.63	35.15	251.93	0.00	0.00	0.00
2,300.00	28.92	2.99	2,145.33	720.93	37.67	270.02	0.00	0.00	0.00
2,400.00	28.92	2.99	2,232.86	769.23	40.19	288.10	0.00	0.00	0.00
2,500.00	28.92	2.99	2,320.38	817.52	42.72	306.19	0.00	0.00	0.00
2,600.00	28.92	2.99	2,407.91	865.82	45.24	324.28	0.00	0.00	0.00
2,648.09	28.92	2.99	2,450.00	889.05	46.46	332.98	0.00	0.00	0.00
Upper Pierre aquifer									
2,700.00	28.92	2.99	2,495.44	914.12	47.77	342.37	0.00	0.00	0.00
2,800.00	28.92	2.99	2,582.97	962.42	50.29	360.46	0.00	0.00	0.00
2,900.00	28.92	2.99	2,670.49	1,010.72	52.81	378.55	0.00	0.00	0.00
3,000.00	28.92	2.99	2,758.02	1,059.01	55.34	396.64	0.00	0.00	0.00
3,100.00	28.92	2.99	2,845.55	1,107.31	57.86	414.73	0.00	0.00	0.00
3,200.00	28.92	2.99	2,933.07	1,155.61	60.38	432.82	0.00	0.00	0.00
3,300.00	28.92	2.99	3,020.60	1,203.91	62.91	450.91	0.00	0.00	0.00
3,400.00	28.92	2.99	3,108.13	1,252.20	65.43	469.00	0.00	0.00	0.00
3,402.14	28.92	2.99	3,110.00	1,253.24	65.49	469.38	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,500.00	28.92	2.99	3,195.65	1,300.50	67.96	487.09	0.00	0.00	0.00
3,600.00	28.92	2.99	3,283.18	1,348.80	70.48	505.18	0.00	0.00	0.00
3,700.00	28.92	2.99	3,370.71	1,397.10	73.00	523.27	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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	28.92	2.99	3,458.24	1,445.39	75.53	541.35	0.00	0.00	0.00
3,900.00	28.92	2.99	3,545.76	1,493.69	78.05	559.44	0.00	0.00	0.00
4,000.00	28.92	2.99	3,633.29	1,541.99	80.57	577.53	0.00	0.00	0.00
4,100.00	28.92	2.99	3,720.82	1,590.29	83.10	595.62	0.00	0.00	0.00
4,200.00	28.92	2.99	3,808.34	1,638.58	85.62	613.71	0.00	0.00	0.00
4,300.00	28.92	2.99	3,895.87	1,686.88	88.15	631.80	0.00	0.00	0.00
4,400.00	28.92	2.99	3,983.40	1,735.18	90.67	649.89	0.00	0.00	0.00
4,500.00	28.92	2.99	4,070.92	1,783.48	93.19	667.98	0.00	0.00	0.00
4,600.00	28.92	2.99	4,158.45	1,831.77	95.72	686.07	0.00	0.00	0.00
4,618.91	28.92	2.99	4,175.00	1,840.91	96.19	689.49	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
4,700.00	28.92	2.99	4,245.98	1,880.07	98.24	704.16	0.00	0.00	0.00
4,761.72	28.92	2.99	4,300.00	1,909.88	99.80	715.32	0.00	0.00	0.00
Pierre Formation									
4,800.00	28.92	2.99	4,333.50	1,928.37	100.76	722.25	0.00	0.00	0.00
4,900.00	28.92	2.99	4,421.03	1,976.67	103.29	740.34	0.00	0.00	0.00
5,000.00	28.92	2.99	4,508.56	2,024.97	105.81	758.43	0.00	0.00	0.00
5,100.00	28.92	2.99	4,596.09	2,073.26	108.34	776.52	0.00	0.00	0.00
5,200.00	28.92	2.99	4,683.61	2,121.56	110.86	794.60	0.00	0.00	0.00
5,300.00	28.92	2.99	4,771.14	2,169.86	113.38	812.69	0.00	0.00	0.00
5,400.00	28.92	2.99	4,858.67	2,218.16	115.91	830.78	0.00	0.00	0.00
5,500.00	28.92	2.99	4,946.19	2,266.45	118.43	848.87	0.00	0.00	0.00
5,600.00	28.92	2.99	5,033.72	2,314.75	120.95	866.96	0.00	0.00	0.00
5,700.00	28.92	2.99	5,121.25	2,363.05	123.48	885.05	0.00	0.00	0.00
5,800.00	28.92	2.99	5,208.77	2,411.35	126.00	903.14	0.00	0.00	0.00
5,847.10	28.92	2.99	5,250.00	2,434.09	127.19	911.66	0.00	0.00	0.00
Terry ("Sussex") sandstone									
5,900.00	28.92	2.99	5,296.30	2,459.64	128.53	921.23	0.00	0.00	0.00
6,000.00	28.92	2.99	5,383.83	2,507.94	131.05	939.32	0.00	0.00	0.00
6,069.89	28.92	2.99	5,445.00	2,541.70	132.81	951.96	0.00	0.00	0.00
Pierre Formation									
6,100.00	28.92	2.99	5,471.36	2,556.24	133.57	957.41	0.00	0.00	0.00
6,200.00	28.92	2.99	5,558.88	2,604.54	136.10	975.50	0.00	0.00	0.00
6,300.00	28.92	2.99	5,646.41	2,652.83	138.62	993.59	0.00	0.00	0.00
6,400.00	28.92	2.99	5,733.94	2,701.13	141.14	1,011.68	0.00	0.00	0.00
6,500.00	28.92	2.99	5,821.46	2,749.43	143.67	1,029.77	0.00	0.00	0.00
6,600.00	28.92	2.99	5,908.99	2,797.73	146.19	1,047.85	0.00	0.00	0.00
6,700.00	28.92	2.99	5,996.52	2,846.02	148.72	1,065.94	0.00	0.00	0.00
6,732.54	28.92	2.99	6,025.00	2,861.74	149.54	1,071.83	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
6,800.00	28.92	2.99	6,084.04	2,894.32	151.24	1,084.03	0.00	0.00	0.00
6,900.00	28.92	2.99	6,171.57	2,942.62	153.76	1,102.12	0.00	0.00	0.00
7,000.00	28.92	2.99	6,259.10	2,990.92	156.29	1,120.21	0.00	0.00	0.00
7,100.00	28.92	2.99	6,346.63	3,039.22	158.81	1,138.30	0.00	0.00	0.00
7,200.00	28.92	2.99	6,434.15	3,087.51	161.33	1,156.39	0.00	0.00	0.00
7,206.68	28.92	2.99	6,440.00	3,090.74	161.50	1,157.60	0.00	0.00	0.00
Pierre Formation									
7,300.00	28.92	2.99	6,521.68	3,135.81	163.86	1,174.48	0.00	0.00	0.00
7,400.00	28.92	2.99	6,609.21	3,184.11	166.38	1,192.57	0.00	0.00	0.00
7,500.00	28.92	2.99	6,696.73	3,232.41	168.91	1,210.66	0.00	0.00	0.00
7,600.00	28.92	2.99	6,784.26	3,280.70	171.43	1,228.75	0.00	0.00	0.00
7,700.00	28.92	2.99	6,871.79	3,329.00	173.95	1,246.84	0.00	0.00	0.00
7,800.00	28.92	2.99	6,959.31	3,377.30	176.48	1,264.93	0.00	0.00	0.00

Civitas Resources

Planning Report

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Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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)
7,900.00	28.92	2.99	7,046.84	3,425.60	179.00	1,283.02	0.00	0.00	0.00
8,000.00	28.92	2.99	7,134.37	3,473.89	181.52	1,301.10	0.00	0.00	0.00
8,073.65	28.92	2.99	7,198.83	3,509.46	183.38	1,314.43	0.00	0.00	0.00
Start DLS 10.00 TFO 87.84									
8,100.00	29.13	8.41	7,221.88	3,522.18	184.65	1,319.76	10.00	0.79	20.55
8,150.00	30.11	18.34	7,265.37	3,546.13	190.38	1,332.97	10.00	1.95	19.87
8,200.00	31.78	27.52	7,308.28	3,569.73	200.42	1,350.13	10.00	3.34	18.35
8,250.00	34.04	35.73	7,350.27	3,592.78	214.68	1,371.11	10.00	4.53	16.43
8,300.00	36.79	42.95	7,391.03	3,615.12	233.07	1,395.76	10.00	5.49	14.44
8,350.00	39.92	49.24	7,430.25	3,636.56	255.43	1,423.88	10.00	6.26	12.59
8,400.00	43.34	54.73	7,467.63	3,656.96	281.61	1,455.27	10.00	6.85	10.98
8,450.00	47.00	59.54	7,502.89	3,676.15	311.40	1,489.68	10.00	7.31	9.63
8,500.00	50.83	63.80	7,535.75	3,693.98	344.57	1,526.85	10.00	7.67	8.52
8,550.00	54.81	67.61	7,565.97	3,710.33	380.87	1,566.49	10.00	7.95	7.62
8,600.00	58.89	71.07	7,593.31	3,725.06	420.04	1,608.32	10.00	8.16	6.90
8,650.00	63.05	74.23	7,617.57	3,738.07	461.75	1,652.00	10.00	8.33	6.33
8,678.62	65.47	75.93	7,630.00	3,744.71	486.66	1,677.71	10.00	8.44	5.96
Sharon Springs Member									
8,700.00	67.28	77.17	7,638.57	3,749.26	505.71	1,697.21	10.00	8.50	5.76
8,750.00	71.57	79.92	7,656.14	3,758.54	551.58	1,743.60	10.00	8.56	5.52
8,800.00	75.89	82.55	7,670.15	3,765.84	599.00	1,790.82	10.00	8.64	5.25
8,850.00	80.23	85.07	7,680.49	3,771.10	647.62	1,838.51	10.00	8.69	5.05
8,900.00	84.60	87.54	7,687.09	3,774.29	697.06	1,886.30	10.00	8.73	4.92
8,950.00	88.97	89.96	7,689.90	3,775.38	746.96	1,933.84	10.00	8.75	4.85
8,961.73	90.00	90.53	7,690.00	3,775.33	758.69	1,944.91	10.00	8.75	4.83
Start 9956.17 hold at 8961.73 MD - Niobrara Formation									
9,000.00	90.00	90.53	7,690.00	3,774.97	796.95	1,980.99	0.00	0.00	0.00
9,100.00	90.00	90.53	7,690.00	3,774.05	896.95	2,075.25	0.00	0.00	0.00
9,200.00	90.00	90.53	7,690.00	3,773.13	996.95	2,169.52	0.00	0.00	0.00
9,300.00	90.00	90.53	7,690.00	3,772.21	1,096.94	2,263.78	0.00	0.00	0.00
9,400.00	90.00	90.53	7,690.00	3,771.29	1,196.94	2,358.04	0.00	0.00	0.00
9,500.00	90.00	90.53	7,690.00	3,770.37	1,296.93	2,452.31	0.00	0.00	0.00
9,600.00	90.00	90.53	7,690.00	3,769.45	1,396.93	2,546.57	0.00	0.00	0.00
9,700.00	90.00	90.53	7,690.00	3,768.53	1,496.92	2,640.83	0.00	0.00	0.00
9,800.00	90.00	90.53	7,690.00	3,767.61	1,596.92	2,735.10	0.00	0.00	0.00
9,900.00	90.00	90.53	7,690.00	3,766.68	1,696.92	2,829.36	0.00	0.00	0.00
10,000.00	90.00	90.53	7,690.00	3,765.76	1,796.91	2,923.63	0.00	0.00	0.00
10,100.00	90.00	90.53	7,690.00	3,764.84	1,896.91	3,017.89	0.00	0.00	0.00
10,200.00	90.00	90.53	7,690.00	3,763.92	1,996.90	3,112.15	0.00	0.00	0.00
10,300.00	90.00	90.53	7,690.00	3,763.00	2,096.90	3,206.42	0.00	0.00	0.00
10,400.00	90.00	90.53	7,690.00	3,762.08	2,196.90	3,300.68	0.00	0.00	0.00
10,500.00	90.00	90.53	7,690.00	3,761.16	2,296.89	3,394.94	0.00	0.00	0.00
10,600.00	90.00	90.53	7,690.00	3,760.24	2,396.89	3,489.21	0.00	0.00	0.00
10,700.00	90.00	90.53	7,690.00	3,759.32	2,496.88	3,583.47	0.00	0.00	0.00
10,800.00	90.00	90.53	7,690.00	3,758.40	2,596.88	3,677.74	0.00	0.00	0.00
10,900.00	90.00	90.53	7,690.00	3,757.47	2,696.87	3,772.00	0.00	0.00	0.00
11,000.00	90.00	90.53	7,690.00	3,756.55	2,796.87	3,866.26	0.00	0.00	0.00
11,100.00	90.00	90.53	7,690.00	3,755.63	2,896.87	3,960.53	0.00	0.00	0.00
11,200.00	90.00	90.53	7,690.00	3,754.71	2,996.86	4,054.79	0.00	0.00	0.00
11,300.00	90.00	90.53	7,690.00	3,753.79	3,096.86	4,149.05	0.00	0.00	0.00
11,400.00	90.00	90.53	7,690.00	3,752.87	3,196.85	4,243.32	0.00	0.00	0.00
11,500.00	90.00	90.53	7,690.00	3,751.95	3,296.85	4,337.58	0.00	0.00	0.00
11,600.00	90.00	90.53	7,690.00	3,751.03	3,396.84	4,431.85	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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)	
11,700.00	90.00	90.53	7,690.00	3,750.11	3,496.84	4,526.11	0.00	0.00	0.00	
11,800.00	90.00	90.53	7,690.00	3,749.19	3,596.84	4,620.37	0.00	0.00	0.00	
11,900.00	90.00	90.53	7,690.00	3,748.27	3,696.83	4,714.64	0.00	0.00	0.00	
12,000.00	90.00	90.53	7,690.00	3,747.34	3,796.83	4,808.90	0.00	0.00	0.00	
12,100.00	90.00	90.53	7,690.00	3,746.42	3,896.82	4,903.16	0.00	0.00	0.00	
12,200.00	90.00	90.53	7,690.00	3,745.50	3,996.82	4,997.43	0.00	0.00	0.00	
12,300.00	90.00	90.53	7,690.00	3,744.58	4,096.81	5,091.69	0.00	0.00	0.00	
12,400.00	90.00	90.53	7,690.00	3,743.66	4,196.81	5,185.96	0.00	0.00	0.00	
12,500.00	90.00	90.53	7,690.00	3,742.74	4,296.81	5,280.22	0.00	0.00	0.00	
12,600.00	90.00	90.53	7,690.00	3,741.82	4,396.80	5,374.48	0.00	0.00	0.00	
12,700.00	90.00	90.53	7,690.00	3,740.90	4,496.80	5,468.75	0.00	0.00	0.00	
12,800.00	90.00	90.53	7,690.00	3,739.98	4,596.79	5,563.01	0.00	0.00	0.00	
12,900.00	90.00	90.53	7,690.00	3,739.06	4,696.79	5,657.27	0.00	0.00	0.00	
13,000.00	90.00	90.53	7,690.00	3,738.14	4,796.79	5,751.54	0.00	0.00	0.00	
13,100.00	90.00	90.53	7,690.00	3,737.21	4,896.78	5,845.80	0.00	0.00	0.00	
13,200.00	90.00	90.53	7,690.00	3,736.29	4,996.78	5,940.07	0.00	0.00	0.00	
13,300.00	90.00	90.53	7,690.00	3,735.37	5,096.77	6,034.33	0.00	0.00	0.00	
13,400.00	90.00	90.53	7,690.00	3,734.45	5,196.77	6,128.59	0.00	0.00	0.00	
13,500.00	90.00	90.53	7,690.00	3,733.53	5,296.76	6,222.86	0.00	0.00	0.00	
13,600.00	90.00	90.53	7,690.00	3,732.61	5,396.76	6,317.12	0.00	0.00	0.00	
13,700.00	90.00	90.53	7,690.00	3,731.69	5,496.76	6,411.38	0.00	0.00	0.00	
13,800.00	90.00	90.53	7,690.00	3,730.77	5,596.75	6,505.65	0.00	0.00	0.00	
13,900.00	90.00	90.53	7,690.00	3,729.85	5,696.75	6,599.91	0.00	0.00	0.00	
14,000.00	90.00	90.53	7,690.00	3,728.93	5,796.74	6,694.18	0.00	0.00	0.00	
14,100.00	90.00	90.53	7,690.00	3,728.00	5,896.74	6,788.44	0.00	0.00	0.00	
14,200.00	90.00	90.53	7,690.00	3,727.08	5,996.73	6,882.70	0.00	0.00	0.00	
14,300.00	90.00	90.53	7,690.00	3,726.16	6,096.73	6,976.97	0.00	0.00	0.00	
14,400.00	90.00	90.53	7,690.00	3,725.24	6,196.73	7,071.23	0.00	0.00	0.00	
14,500.00	90.00	90.53	7,690.00	3,724.32	6,296.72	7,165.49	0.00	0.00	0.00	
14,600.00	90.00	90.53	7,690.00	3,723.40	6,396.72	7,259.76	0.00	0.00	0.00	
14,700.00	90.00	90.53	7,690.00	3,722.48	6,496.71	7,354.02	0.00	0.00	0.00	
14,800.00	90.00	90.53	7,690.00	3,721.56	6,596.71	7,448.29	0.00	0.00	0.00	
14,900.00	90.00	90.53	7,690.00	3,720.64	6,696.70	7,542.55	0.00	0.00	0.00	
15,000.00	90.00	90.53	7,690.00	3,719.72	6,796.70	7,636.81	0.00	0.00	0.00	
15,100.00	90.00	90.53	7,690.00	3,718.80	6,896.70	7,731.08	0.00	0.00	0.00	
15,200.00	90.00	90.53	7,690.00	3,717.87	6,996.69	7,825.34	0.00	0.00	0.00	
15,300.00	90.00	90.53	7,690.00	3,716.95	7,096.69	7,919.60	0.00	0.00	0.00	
15,400.00	90.00	90.53	7,690.00	3,716.03	7,196.68	8,013.87	0.00	0.00	0.00	
15,500.00	90.00	90.53	7,690.00	3,715.11	7,296.68	8,108.13	0.00	0.00	0.00	
15,600.00	90.00	90.53	7,690.00	3,714.19	7,396.67	8,202.40	0.00	0.00	0.00	
15,700.00	90.00	90.53	7,690.00	3,713.27	7,496.67	8,296.66	0.00	0.00	0.00	
15,800.00	90.00	90.53	7,690.00	3,712.35	7,596.67	8,390.92	0.00	0.00	0.00	
15,900.00	90.00	90.53	7,690.00	3,711.43	7,696.66	8,485.19	0.00	0.00	0.00	
16,000.00	90.00	90.53	7,690.00	3,710.51	7,796.66	8,579.45	0.00	0.00	0.00	
16,100.00	90.00	90.53	7,690.00	3,709.59	7,896.65	8,673.71	0.00	0.00	0.00	
16,200.00	90.00	90.53	7,690.00	3,708.66	7,996.65	8,767.98	0.00	0.00	0.00	
16,300.00	90.00	90.53	7,690.00	3,707.74	8,096.65	8,862.24	0.00	0.00	0.00	
16,400.00	90.00	90.53	7,690.00	3,706.82	8,196.64	8,956.51	0.00	0.00	0.00	
16,500.00	90.00	90.53	7,690.00	3,705.90	8,296.64	9,050.77	0.00	0.00	0.00	
16,600.00	90.00	90.53	7,690.00	3,704.98	8,396.63	9,145.03	0.00	0.00	0.00	
16,700.00	90.00	90.53	7,690.00	3,704.06	8,496.63	9,239.30	0.00	0.00	0.00	
16,800.00	90.00	90.53	7,690.00	3,703.14	8,596.62	9,333.56	0.00	0.00	0.00	
16,900.00	90.00	90.53	7,690.00	3,702.22	8,696.62	9,427.82	0.00	0.00	0.00	
17,000.00	90.00	90.53	7,690.00	3,701.30	8,796.62	9,522.09	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	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)	
17,100.00	90.00	90.53	7,690.00	3,700.38	8,896.61	9,616.35	0.00	0.00	0.00	
17,200.00	90.00	90.53	7,690.00	3,699.46	8,996.61	9,710.62	0.00	0.00	0.00	
17,300.00	90.00	90.53	7,690.00	3,698.53	9,096.60	9,804.88	0.00	0.00	0.00	
17,400.00	90.00	90.53	7,690.00	3,697.61	9,196.60	9,899.14	0.00	0.00	0.00	
17,500.00	90.00	90.53	7,690.00	3,696.69	9,296.59	9,993.41	0.00	0.00	0.00	
17,600.00	90.00	90.53	7,690.00	3,695.77	9,396.59	10,087.67	0.00	0.00	0.00	
17,700.00	90.00	90.53	7,690.00	3,694.85	9,496.59	10,181.93	0.00	0.00	0.00	
17,800.00	90.00	90.53	7,690.00	3,693.93	9,596.58	10,276.20	0.00	0.00	0.00	
17,900.00	90.00	90.53	7,690.00	3,693.01	9,696.58	10,370.46	0.00	0.00	0.00	
18,000.00	90.00	90.53	7,690.00	3,692.09	9,796.57	10,464.73	0.00	0.00	0.00	
18,100.00	90.00	90.53	7,690.00	3,691.17	9,896.57	10,558.99	0.00	0.00	0.00	
18,200.00	90.00	90.53	7,690.00	3,690.25	9,996.56	10,653.25	0.00	0.00	0.00	
18,300.00	90.00	90.53	7,690.00	3,689.32	10,096.56	10,747.52	0.00	0.00	0.00	
18,400.00	90.00	90.53	7,690.00	3,688.40	10,196.56	10,841.78	0.00	0.00	0.00	
18,500.00	90.00	90.53	7,690.00	3,687.48	10,296.55	10,936.04	0.00	0.00	0.00	
18,600.00	90.00	90.53	7,690.00	3,686.56	10,396.55	11,030.31	0.00	0.00	0.00	
18,700.00	90.00	90.53	7,690.00	3,685.64	10,496.54	11,124.57	0.00	0.00	0.00	
18,800.00	90.00	90.53	7,690.00	3,684.72	10,596.54	11,218.84	0.00	0.00	0.00	
18,900.00	90.00	90.53	7,690.00	3,683.80	10,696.54	11,313.10	0.00	0.00	0.00	
18,917.91	90.00	90.53	7,690.00	3,683.63	10,714.44	11,329.98	0.00	0.00	0.00	
TD at 18917.90										

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-BEAR 3-65 22-23 4B	0.00	0.00	7,690.00	3,775.33	758.69	1,160,233.71	3,236,597.11	39.770127°N	104.658298°W	
- plan hits target center										
- Point										
PBHL-BEAR 3-65 22-23	0.00	0.00	7,690.00	3,683.63	10,714.44	1,160,236.22	3,246,553.22	39.769869°N	104.622881°W	
- plan hits target center										
- Point										

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well BEAR 3-65 22-23 4BH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5610.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5610.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	BEAR 3-65 22-23 4BH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
765.98	760.00	Arapahoe				
1,460.57	1,410.00	Laramie-Fox Hills Formation				
2,088.26	1,960.00	Pierre Formation				
2,648.09	2,450.00	Upper Pierre aquifer				
3,402.14	3,110.00	Base of Upper Pierre aquifer				
4,618.91	4,175.00	Larimer ("Parkman") sandstone				
4,761.72	4,300.00	Pierre Formation				
5,847.10	5,250.00	Terry ("Sussex") sandstone				
6,069.89	5,445.00	Pierre Formation				
6,732.54	6,025.00	Hygiene ("Shannon") sandstone				
7,206.68	6,440.00	Pierre Formation				
8,678.62	7,630.00	Sharon Springs Member				
8,961.73	7,690.00	Niobrara Formation				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
100.00	100.00	0.00	0.00	Start Build 2.00	
1,546.15	1,485.51	356.84	18.65	Start 6527.49 hold at 1546.15 MD	
8,073.65	7,198.83	3,509.46	183.38	Start DLS 10.00 TFO 87.84	
8,961.73	7,690.00	3,775.33	758.69	Start 9956.17 hold at 8961.73 MD	
18,917.91	7,690.00	3,683.63	10,714.44	TD at 18917.90	