

# **CRESTONE PEAK RESOURCES**

**ADAMS COUNTY**

**SEC 21-T3S-R65W**

**BIJOU 3-65 21-22-23 2BH**

**OWB**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

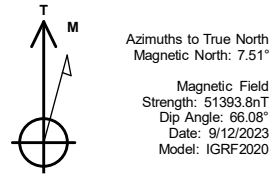
**19 September, 2023**

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 21-T3S-R65W  
Well: BIJOU 3-65 21-22-23 2BH  
Wellbore: OWB  
Design: PROPOSAL 1



WELL DETAILS: BIJOU 3-65 21-22-23 2BH

				5593.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1162642.69	3233386.76	39.776823°N	104.669638°W		

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	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	1678.73	25.57	275.82	1636.69	28.47	-279.23	2.00	275.82	-278.85	
4	7501.04	25.57	275.82	6888.55	283.39	-2779.69	0.00	0.00	-2775.85	
5	8655.62	90.00	90.55	7707.00	314.48	-2262.05	10.00	174.15	-2257.85	LP-BIJOU 3-65 21-22-23 2BH
6	24072.77	90.00	90.55	7707.00	167.77	13154.41	0.00	0.00	13155.48	PBHL-BIJOU 3-65 21-22-23 2BH

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	Start Build 2.00
1678.73	25.57	275.82	1636.69	28.47	-279.23	-278.85	280.68	Start 5822.31 hold at 1678.73 MD
7501.04	25.57	275.82	6888.55	283.39	-2779.69	-2775.85	2794.09	Start DLS 10.00 TFO 174.15
8655.62	90.00	90.55	7707.00	314.48	-2262.05	-2257.85	3427.50	Start 15417.15 hold at 8655.62 MD
24072.77	90.00	90.55	7707.00	167.77	13154.41	13155.48	18844.65	TD at 24072.77

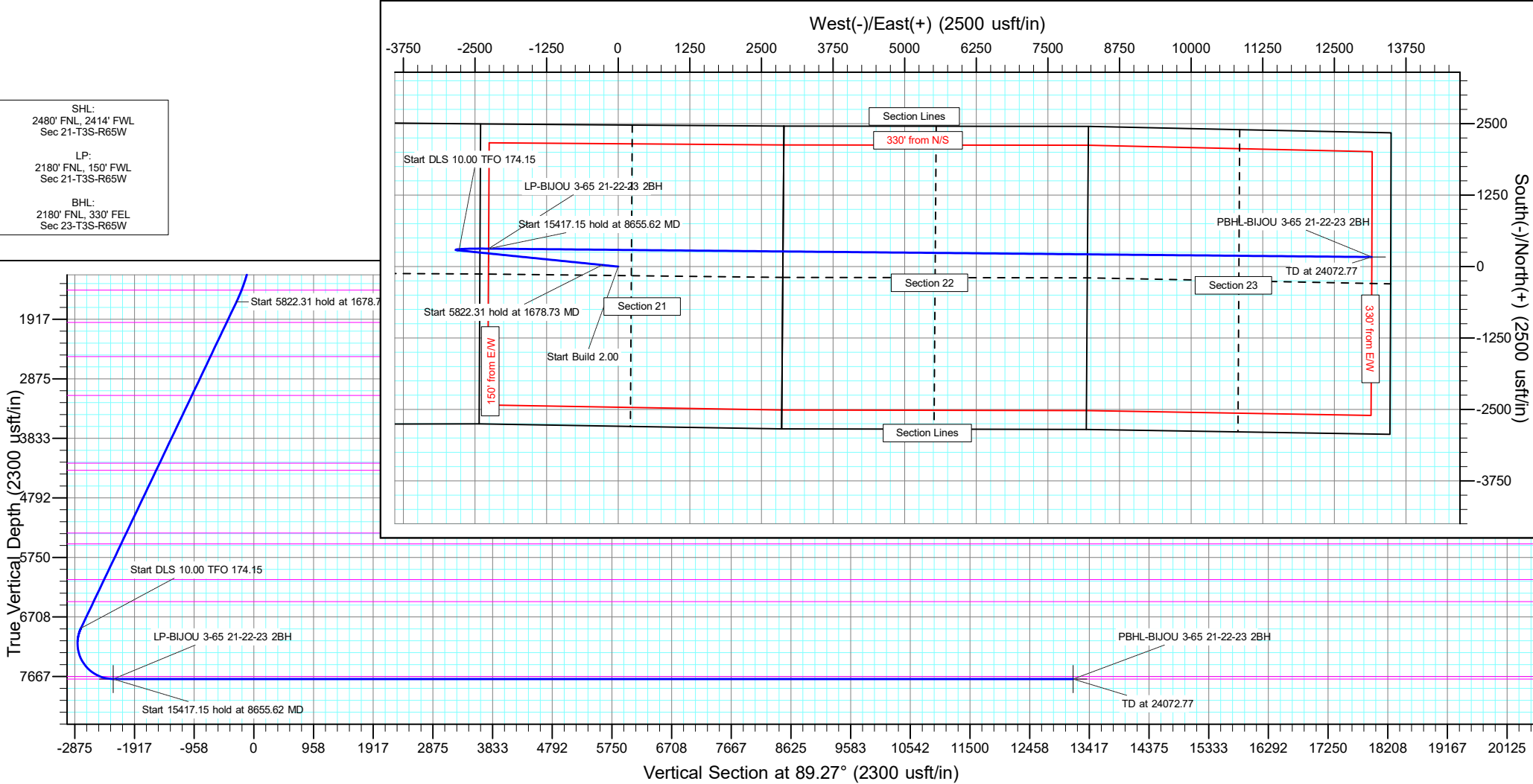
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-BIJOU 3-65 21-22-23 2BH	7707.00	314.48	-2262.05	1162935.97	3231121.89	39.777686°N	104.677686°W	Point
- plan hits target center								
PBHL-BIJOU 3-65 21-22-23 2BH	7707.00	167.77	13154.41	1162933.62	3246538.90	39.777274°N	104.622837°W	Point
- plan hits target center								

SHL:  
2480' FNL, 2414' FWL  
Sec 21-T3S-R65W

LP:  
2180' FNL, 150' FWL  
Sec 21-T3S-R65W

BHL:  
2180' FNL, 330' FEL  
Sec 23-T3S-R65W



# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

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

Site		SEC 21-T3S-R65W			
Site Position:		Northing:	1,165,129.40 usft	Latitude:	39.783575°N
From:	Lat/Long	Easting:	3,236,258.06 usft	Longitude:	104.659339°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.54 °

Well	BIJOU 3-65 21-22-23 2BH					
Well Position	+N/-S	-2,459.41 usft	Northing:	1,162,642.68 usft	Latitude:	39.776823°N
	+E/-W	-2,894.77 usft	Easting:	3,233,386.76 usft	Longitude:	104.669638°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,593.00 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	9/12/2023	7.51	66.08	51,393.83489097

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	89.27

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/19/2023			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	24,072.77	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,678.73	25.57	275.82	1,636.69	28.47	-279.23	2.00	2.00	0.00	275.82	
7,501.04	25.57	275.82	6,888.55	283.39	-2,779.69	0.00	0.00	0.00	0.00	
8,655.62	90.00	90.55	7,707.00	314.48	-2,262.05	10.00	5.58	15.13	174.15	LP-BIJOU 3-65 21-22
24,072.77	90.00	90.55	7,707.00	167.77	13,154.41	0.00	0.00	0.00	0.00	PBHL-BIJOU 3-65 21

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Denver</b>									
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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
500.00	2.00	275.82	499.98	0.18	-1.74	-1.73	2.00	2.00	0.00
600.00	4.00	275.82	599.84	0.71	-6.94	-6.93	2.00	2.00	0.00
700.00	6.00	275.82	699.45	1.59	-15.61	-15.59	2.00	2.00	0.00
800.00	8.00	275.82	798.70	2.83	-27.74	-27.70	2.00	2.00	0.00
818.49	8.37	275.82	817.00	3.09	-30.35	-30.31	2.00	2.00	0.00
<b>Arapahoe</b>									
900.00	10.00	275.82	897.47	4.41	-43.30	-43.24	2.00	2.00	0.00
1,000.00	12.00	275.82	995.62	6.35	-62.28	-62.19	2.00	2.00	0.00
1,100.00	14.00	275.82	1,093.06	8.63	-84.66	-84.54	2.00	2.00	0.00
1,200.00	16.00	275.82	1,189.64	11.26	-110.41	-110.25	2.00	2.00	0.00
1,300.00	18.00	275.82	1,285.27	14.22	-139.49	-139.30	2.00	2.00	0.00
1,400.00	20.00	275.82	1,379.82	17.52	-171.88	-171.64	2.00	2.00	0.00
1,471.83	21.44	275.82	1,447.00	20.10	-197.16	-196.89	2.00	2.00	0.00
<b>Laramie-Fox Hills Formation</b>									
1,500.00	22.00	275.82	1,473.17	21.16	-207.53	-207.24	2.00	2.00	0.00
1,600.00	24.00	275.82	1,565.21	25.12	-246.40	-246.06	2.00	2.00	0.00
1,678.73	25.57	275.82	1,636.69	28.47	-279.23	-278.85	2.00	2.00	0.00
<b>Start 5822.31 hold at 1678.73 MD</b>									
1,700.00	25.57	275.82	1,655.87	29.40	-288.37	-287.97	0.00	0.00	0.00
1,800.00	25.57	275.82	1,746.08	33.78	-331.31	-330.86	0.00	0.00	0.00
1,900.00	25.57	275.82	1,836.28	38.16	-374.26	-373.74	0.00	0.00	0.00
2,000.00	25.57	275.82	1,926.48	42.53	-417.21	-416.63	0.00	0.00	0.00
2,044.92	25.57	275.82	1,967.00	44.50	-436.50	-435.89	0.00	0.00	0.00
<b>Pierre Formation</b>									
2,100.00	25.57	275.82	2,016.68	46.91	-460.15	-459.52	0.00	0.00	0.00
2,200.00	25.57	275.82	2,106.89	51.29	-503.10	-502.40	0.00	0.00	0.00
2,300.00	25.57	275.82	2,197.09	55.67	-546.04	-545.29	0.00	0.00	0.00
2,400.00	25.57	275.82	2,287.29	60.05	-588.99	-588.18	0.00	0.00	0.00
2,500.00	25.57	275.82	2,377.49	64.43	-631.94	-631.06	0.00	0.00	0.00
2,600.00	25.57	275.82	2,467.70	68.80	-674.88	-673.95	0.00	0.00	0.00
2,654.66	25.57	275.82	2,517.00	71.20	-698.36	-697.39	0.00	0.00	0.00
<b>Upper Pierre aquifer</b>									
2,700.00	25.57	275.82	2,557.90	73.18	-717.83	-716.84	0.00	0.00	0.00
2,800.00	25.57	275.82	2,648.10	77.56	-760.78	-759.72	0.00	0.00	0.00
2,900.00	25.57	275.82	2,738.30	81.94	-803.72	-802.61	0.00	0.00	0.00
3,000.00	25.57	275.82	2,828.51	86.32	-846.67	-845.50	0.00	0.00	0.00
3,100.00	25.57	275.82	2,918.71	90.70	-889.61	-888.38	0.00	0.00	0.00
3,200.00	25.57	275.82	3,008.91	95.07	-932.56	-931.27	0.00	0.00	0.00
3,300.00	25.57	275.82	3,099.11	99.45	-975.51	-974.16	0.00	0.00	0.00
3,347.55	25.57	275.82	3,142.00	101.53	-995.93	-994.55	0.00	0.00	0.00
<b>Base of Upper Pierre aquifer</b>									
3,400.00	25.57	275.82	3,189.31	103.83	-1,018.45	-1,017.05	0.00	0.00	0.00
3,500.00	25.57	275.82	3,279.52	108.21	-1,061.40	-1,059.93	0.00	0.00	0.00
3,600.00	25.57	275.82	3,369.72	112.59	-1,104.34	-1,102.82	0.00	0.00	0.00
3,700.00	25.57	275.82	3,459.92	116.96	-1,147.29	-1,145.71	0.00	0.00	0.00

# Civitas Resources

## Planning Report

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<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	25.57	275.82	3,550.12	121.34	-1,190.24	-1,188.59	0.00	0.00	0.00
3,900.00	25.57	275.82	3,640.33	125.72	-1,233.18	-1,231.48	0.00	0.00	0.00
4,000.00	25.57	275.82	3,730.53	130.10	-1,276.13	-1,274.37	0.00	0.00	0.00
4,100.00	25.57	275.82	3,820.73	134.48	-1,319.07	-1,317.25	0.00	0.00	0.00
4,200.00	25.57	275.82	3,910.93	138.86	-1,362.02	-1,360.14	0.00	0.00	0.00
4,300.00	25.57	275.82	4,001.14	143.23	-1,404.97	-1,403.03	0.00	0.00	0.00
4,400.00	25.57	275.82	4,091.34	147.61	-1,447.91	-1,445.91	0.00	0.00	0.00
4,500.00	25.57	275.82	4,181.54	151.99	-1,490.86	-1,488.80	0.00	0.00	0.00
4,555.94	25.57	275.82	4,232.00	154.44	-1,514.88	-1,512.79	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
4,600.00	25.57	275.82	4,271.74	156.37	-1,533.81	-1,531.69	0.00	0.00	0.00
4,683.43	25.57	275.82	4,347.00	160.02	-1,569.64	-1,567.47	0.00	0.00	0.00
Pierre Formation									
4,700.00	25.57	275.82	4,361.95	160.75	-1,576.75	-1,574.57	0.00	0.00	0.00
4,800.00	25.57	275.82	4,452.15	165.13	-1,619.70	-1,617.46	0.00	0.00	0.00
4,900.00	25.57	275.82	4,542.35	169.50	-1,662.64	-1,660.35	0.00	0.00	0.00
5,000.00	25.57	275.82	4,632.55	173.88	-1,705.59	-1,703.23	0.00	0.00	0.00
5,100.00	25.57	275.82	4,722.75	178.26	-1,748.54	-1,746.12	0.00	0.00	0.00
5,200.00	25.57	275.82	4,812.96	182.64	-1,791.48	-1,789.01	0.00	0.00	0.00
5,300.00	25.57	275.82	4,903.16	187.02	-1,834.43	-1,831.89	0.00	0.00	0.00
5,400.00	25.57	275.82	4,993.36	191.40	-1,877.37	-1,874.78	0.00	0.00	0.00
5,500.00	25.57	275.82	5,083.56	195.77	-1,920.32	-1,917.67	0.00	0.00	0.00
5,600.00	25.57	275.82	5,173.77	200.15	-1,963.27	-1,960.55	0.00	0.00	0.00
5,700.00	25.57	275.82	5,263.97	204.53	-2,006.21	-2,003.44	0.00	0.00	0.00
5,800.00	25.57	275.82	5,354.17	208.91	-2,049.16	-2,046.33	0.00	0.00	0.00
5,803.14	25.57	275.82	5,357.00	209.05	-2,050.51	-2,047.67	0.00	0.00	0.00
Terry ("Sussex") sandstone									
5,900.00	25.57	275.82	5,444.37	213.29	-2,092.10	-2,089.21	0.00	0.00	0.00
5,997.14	25.57	275.82	5,532.00	217.54	-2,133.82	-2,130.88	0.00	0.00	0.00
Pierre Formation									
6,000.00	25.57	275.82	5,534.58	217.67	-2,135.05	-2,132.10	0.00	0.00	0.00
6,100.00	25.57	275.82	5,624.78	222.04	-2,178.00	-2,174.99	0.00	0.00	0.00
6,200.00	25.57	275.82	5,714.98	226.42	-2,220.94	-2,217.87	0.00	0.00	0.00
6,300.00	25.57	275.82	5,805.18	230.80	-2,263.89	-2,260.76	0.00	0.00	0.00
6,400.00	25.57	275.82	5,895.39	235.18	-2,306.83	-2,303.65	0.00	0.00	0.00
6,500.00	25.57	275.82	5,985.59	239.56	-2,349.78	-2,346.53	0.00	0.00	0.00
6,600.00	25.57	275.82	6,075.79	243.94	-2,392.73	-2,389.42	0.00	0.00	0.00
6,634.60	25.57	275.82	6,107.00	245.45	-2,407.59	-2,404.26	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
6,700.00	25.57	275.82	6,165.99	248.31	-2,435.67	-2,432.31	0.00	0.00	0.00
6,800.00	25.57	275.82	6,256.19	252.69	-2,478.62	-2,475.20	0.00	0.00	0.00
6,900.00	25.57	275.82	6,346.40	257.07	-2,521.57	-2,518.08	0.00	0.00	0.00
7,000.00	25.57	275.82	6,436.60	261.45	-2,564.51	-2,560.97	0.00	0.00	0.00
7,028.16	25.57	275.82	6,462.00	262.68	-2,576.60	-2,573.05	0.00	0.00	0.00
Pierre Formation									
7,100.00	25.57	275.82	6,526.80	265.83	-2,607.46	-2,603.86	0.00	0.00	0.00
7,200.00	25.57	275.82	6,617.00	270.21	-2,650.40	-2,646.74	0.00	0.00	0.00
7,300.00	25.57	275.82	6,707.21	274.58	-2,693.35	-2,689.63	0.00	0.00	0.00
7,400.00	25.57	275.82	6,797.41	278.96	-2,736.30	-2,732.52	0.00	0.00	0.00
7,501.04	25.57	275.82	6,888.55	283.39	-2,779.69	-2,775.85	0.00	0.00	0.00
Start DLS 10.00 TFO 174.15									
7,550.00	20.71	277.23	6,933.56	285.55	-2,798.80	-2,794.93	10.00	-9.94	2.88
7,600.00	15.76	279.52	6,981.03	287.79	-2,814.28	-2,810.38	10.00	-9.90	4.57

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,650.00	10.86	283.81	7,029.68	290.03	-2,825.55	-2,821.63	10.00	-9.81	8.59	
7,700.00	6.10	294.84	7,079.12	292.28	-2,832.54	-2,828.59	10.00	-9.50	22.06	
7,750.00	2.58	347.97	7,128.98	294.50	-2,835.19	-2,831.21	10.00	-7.05	106.25	
7,800.00	5.10	61.02	7,178.89	296.68	-2,833.48	-2,829.47	10.00	5.04	146.10	
7,850.00	9.77	75.73	7,228.46	298.80	-2,827.42	-2,823.38	10.00	9.33	29.43	
7,900.00	14.65	80.86	7,277.32	300.85	-2,817.06	-2,813.00	10.00	9.77	10.25	
7,950.00	19.59	83.44	7,325.09	302.81	-2,802.48	-2,798.39	10.00	9.89	5.18	
8,000.00	24.56	85.02	7,371.40	304.67	-2,783.79	-2,779.68	10.00	9.93	3.15	
8,050.00	29.54	86.09	7,415.92	306.42	-2,761.13	-2,757.00	10.00	9.95	2.14	
8,100.00	34.52	86.88	7,458.30	308.03	-2,734.67	-2,730.52	10.00	9.97	1.57	
8,150.00	39.51	87.49	7,498.21	309.50	-2,704.62	-2,700.45	10.00	9.97	1.22	
8,200.00	44.49	87.98	7,535.36	310.82	-2,671.20	-2,667.02	10.00	9.98	0.98	
8,250.00	49.49	88.39	7,569.45	311.97	-2,634.66	-2,630.47	10.00	9.98	0.82	
8,300.00	54.48	88.75	7,600.24	312.95	-2,595.30	-2,591.10	10.00	9.98	0.71	
8,350.00	59.47	89.06	7,627.48	313.75	-2,553.40	-2,549.19	10.00	9.99	0.63	
8,400.00	64.46	89.34	7,650.97	314.37	-2,509.28	-2,505.07	10.00	9.99	0.56	
8,440.15	68.48	89.55	7,667.00	314.72	-2,472.48	-2,468.26	10.00	9.99	0.52	
Sharon Springs Member										
8,450.00	69.46	89.60	7,670.53	314.79	-2,463.29	-2,459.07	10.00	9.99	0.50	
8,500.00	74.45	89.84	7,686.02	315.02	-2,415.76	-2,411.55	10.00	9.99	0.49	
8,550.00	79.45	90.08	7,697.30	315.05	-2,367.07	-2,362.86	10.00	9.99	0.46	
8,600.00	84.44	90.30	7,704.31	314.89	-2,317.58	-2,313.37	10.00	9.99	0.45	
8,650.00	89.44	90.52	7,706.97	314.53	-2,267.67	-2,263.47	10.00	9.99	0.44	
8,655.62	90.00	90.55	7,707.00	314.48	-2,262.05	-2,257.85	10.00	9.99	0.44	
Start 15417.15 hold at 8655.62 MD - Niobrara Formation										
8,700.00	90.00	90.55	7,707.00	314.06	-2,217.67	-2,213.48	0.00	0.00	0.00	
8,800.00	90.00	90.55	7,707.00	313.10	-2,117.67	-2,113.51	0.00	0.00	0.00	
8,900.00	90.00	90.55	7,707.00	312.15	-2,017.68	-2,013.53	0.00	0.00	0.00	
9,000.00	90.00	90.55	7,707.00	311.20	-1,917.68	-1,913.56	0.00	0.00	0.00	
9,100.00	90.00	90.55	7,707.00	310.25	-1,817.69	-1,813.58	0.00	0.00	0.00	
9,200.00	90.00	90.55	7,707.00	309.30	-1,717.69	-1,713.61	0.00	0.00	0.00	
9,300.00	90.00	90.55	7,707.00	308.35	-1,617.69	-1,613.63	0.00	0.00	0.00	
9,400.00	90.00	90.55	7,707.00	307.39	-1,517.70	-1,513.66	0.00	0.00	0.00	
9,500.00	90.00	90.55	7,707.00	306.44	-1,417.70	-1,413.68	0.00	0.00	0.00	
9,600.00	90.00	90.55	7,707.00	305.49	-1,317.71	-1,313.71	0.00	0.00	0.00	
9,700.00	90.00	90.55	7,707.00	304.54	-1,217.71	-1,213.73	0.00	0.00	0.00	
9,800.00	90.00	90.55	7,707.00	303.59	-1,117.72	-1,113.76	0.00	0.00	0.00	
9,900.00	90.00	90.55	7,707.00	302.64	-1,017.72	-1,013.78	0.00	0.00	0.00	
10,000.00	90.00	90.55	7,707.00	301.68	-917.73	-913.80	0.00	0.00	0.00	
10,100.00	90.00	90.55	7,707.00	300.73	-817.73	-813.83	0.00	0.00	0.00	
10,200.00	90.00	90.55	7,707.00	299.78	-717.74	-713.85	0.00	0.00	0.00	
10,300.00	90.00	90.55	7,707.00	298.83	-617.74	-613.88	0.00	0.00	0.00	
10,400.00	90.00	90.55	7,707.00	297.88	-517.74	-513.90	0.00	0.00	0.00	
10,500.00	90.00	90.55	7,707.00	296.93	-417.75	-413.93	0.00	0.00	0.00	
10,600.00	90.00	90.55	7,707.00	295.98	-317.75	-313.95	0.00	0.00	0.00	
10,700.00	90.00	90.55	7,707.00	295.02	-217.76	-213.98	0.00	0.00	0.00	
10,800.00	90.00	90.55	7,707.00	294.07	-117.76	-114.00	0.00	0.00	0.00	
10,900.00	90.00	90.55	7,707.00	293.12	-17.77	-14.03	0.00	0.00	0.00	
11,000.00	90.00	90.55	7,707.00	292.17	82.23	85.95	0.00	0.00	0.00	
11,100.00	90.00	90.55	7,707.00	291.22	182.22	185.92	0.00	0.00	0.00	
11,200.00	90.00	90.55	7,707.00	290.27	282.22	285.90	0.00	0.00	0.00	
11,300.00	90.00	90.55	7,707.00	289.31	382.21	385.87	0.00	0.00	0.00	
11,400.00	90.00	90.55	7,707.00	288.36	482.21	485.85	0.00	0.00	0.00	
11,500.00	90.00	90.55	7,707.00	287.41	582.21	585.82	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
11,600.00	90.00	90.55	7,707.00	286.46	682.20	685.80	0.00	0.00	0.00	
11,700.00	90.00	90.55	7,707.00	285.51	782.20	785.77	0.00	0.00	0.00	
11,800.00	90.00	90.55	7,707.00	284.56	882.19	885.75	0.00	0.00	0.00	
11,900.00	90.00	90.55	7,707.00	283.60	982.19	985.72	0.00	0.00	0.00	
12,000.00	90.00	90.55	7,707.00	282.65	1,082.18	1,085.70	0.00	0.00	0.00	
12,100.00	90.00	90.55	7,707.00	281.70	1,182.18	1,185.67	0.00	0.00	0.00	
12,200.00	90.00	90.55	7,707.00	280.75	1,282.17	1,285.65	0.00	0.00	0.00	
12,300.00	90.00	90.55	7,707.00	279.80	1,382.17	1,385.63	0.00	0.00	0.00	
12,400.00	90.00	90.55	7,707.00	278.85	1,482.16	1,485.60	0.00	0.00	0.00	
12,500.00	90.00	90.55	7,707.00	277.89	1,582.16	1,585.58	0.00	0.00	0.00	
12,600.00	90.00	90.55	7,707.00	276.94	1,682.16	1,685.55	0.00	0.00	0.00	
12,700.00	90.00	90.55	7,707.00	275.99	1,782.15	1,785.53	0.00	0.00	0.00	
12,800.00	90.00	90.55	7,707.00	275.04	1,882.15	1,885.50	0.00	0.00	0.00	
12,900.00	90.00	90.55	7,707.00	274.09	1,982.14	1,985.48	0.00	0.00	0.00	
13,000.00	90.00	90.55	7,707.00	273.14	2,082.14	2,085.45	0.00	0.00	0.00	
13,100.00	90.00	90.55	7,707.00	272.18	2,182.13	2,185.43	0.00	0.00	0.00	
13,200.00	90.00	90.55	7,707.00	271.23	2,282.13	2,285.40	0.00	0.00	0.00	
13,300.00	90.00	90.55	7,707.00	270.28	2,382.12	2,385.38	0.00	0.00	0.00	
13,400.00	90.00	90.55	7,707.00	269.33	2,482.12	2,485.35	0.00	0.00	0.00	
13,500.00	90.00	90.55	7,707.00	268.38	2,582.11	2,585.33	0.00	0.00	0.00	
13,600.00	90.00	90.55	7,707.00	267.43	2,682.11	2,685.30	0.00	0.00	0.00	
13,700.00	90.00	90.55	7,707.00	266.48	2,782.11	2,785.28	0.00	0.00	0.00	
13,800.00	90.00	90.55	7,707.00	265.52	2,882.10	2,885.25	0.00	0.00	0.00	
13,900.00	90.00	90.55	7,707.00	264.57	2,982.10	2,985.23	0.00	0.00	0.00	
14,000.00	90.00	90.55	7,707.00	263.62	3,082.09	3,085.20	0.00	0.00	0.00	
14,100.00	90.00	90.55	7,707.00	262.67	3,182.09	3,185.18	0.00	0.00	0.00	
14,200.00	90.00	90.55	7,707.00	261.72	3,282.08	3,285.15	0.00	0.00	0.00	
14,300.00	90.00	90.55	7,707.00	260.77	3,382.08	3,385.13	0.00	0.00	0.00	
14,400.00	90.00	90.55	7,707.00	259.81	3,482.07	3,485.10	0.00	0.00	0.00	
14,500.00	90.00	90.55	7,707.00	258.86	3,582.07	3,585.08	0.00	0.00	0.00	
14,600.00	90.00	90.55	7,707.00	257.91	3,682.07	3,685.05	0.00	0.00	0.00	
14,700.00	90.00	90.55	7,707.00	256.96	3,782.06	3,785.03	0.00	0.00	0.00	
14,800.00	90.00	90.55	7,707.00	256.01	3,882.06	3,885.01	0.00	0.00	0.00	
14,900.00	90.00	90.55	7,707.00	255.06	3,982.05	3,984.98	0.00	0.00	0.00	
15,000.00	90.00	90.55	7,707.00	254.10	4,082.05	4,084.96	0.00	0.00	0.00	
15,100.00	90.00	90.55	7,707.00	253.15	4,182.04	4,184.93	0.00	0.00	0.00	
15,200.00	90.00	90.55	7,707.00	252.20	4,282.04	4,284.91	0.00	0.00	0.00	
15,300.00	90.00	90.55	7,707.00	251.25	4,382.03	4,384.88	0.00	0.00	0.00	
15,400.00	90.00	90.55	7,707.00	250.30	4,482.03	4,484.86	0.00	0.00	0.00	
15,500.00	90.00	90.55	7,707.00	249.35	4,582.02	4,584.83	0.00	0.00	0.00	
15,600.00	90.00	90.55	7,707.00	248.39	4,682.02	4,684.81	0.00	0.00	0.00	
15,700.00	90.00	90.55	7,707.00	247.44	4,782.02	4,784.78	0.00	0.00	0.00	
15,800.00	90.00	90.55	7,707.00	246.49	4,882.01	4,884.76	0.00	0.00	0.00	
15,900.00	90.00	90.55	7,707.00	245.54	4,982.01	4,984.73	0.00	0.00	0.00	
16,000.00	90.00	90.55	7,707.00	244.59	5,082.00	5,084.71	0.00	0.00	0.00	
16,100.00	90.00	90.55	7,707.00	243.64	5,182.00	5,184.68	0.00	0.00	0.00	
16,200.00	90.00	90.55	7,707.00	242.68	5,281.99	5,284.66	0.00	0.00	0.00	
16,300.00	90.00	90.55	7,707.00	241.73	5,381.99	5,384.63	0.00	0.00	0.00	
16,400.00	90.00	90.55	7,707.00	240.78	5,481.98	5,484.61	0.00	0.00	0.00	
16,500.00	90.00	90.55	7,707.00	239.83	5,581.98	5,584.58	0.00	0.00	0.00	
16,600.00	90.00	90.55	7,707.00	238.88	5,681.97	5,684.56	0.00	0.00	0.00	
16,700.00	90.00	90.55	7,707.00	237.93	5,781.97	5,784.53	0.00	0.00	0.00	
16,800.00	90.00	90.55	7,707.00	236.98	5,881.97	5,884.51	0.00	0.00	0.00	
16,900.00	90.00	90.55	7,707.00	236.02	5,981.96	5,984.48	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
17,000.00	90.00	90.55	7,707.00	235.07	6,081.96	6,084.46	0.00	0.00	0.00	
17,100.00	90.00	90.55	7,707.00	234.12	6,181.95	6,184.43	0.00	0.00	0.00	
17,200.00	90.00	90.55	7,707.00	233.17	6,281.95	6,284.41	0.00	0.00	0.00	
17,300.00	90.00	90.55	7,707.00	232.22	6,381.94	6,384.39	0.00	0.00	0.00	
17,400.00	90.00	90.55	7,707.00	231.27	6,481.94	6,484.36	0.00	0.00	0.00	
17,500.00	90.00	90.55	7,707.00	230.31	6,581.93	6,584.34	0.00	0.00	0.00	
17,600.00	90.00	90.55	7,707.00	229.36	6,681.93	6,684.31	0.00	0.00	0.00	
17,700.00	90.00	90.55	7,707.00	228.41	6,781.92	6,784.29	0.00	0.00	0.00	
17,800.00	90.00	90.55	7,707.00	227.46	6,881.92	6,884.26	0.00	0.00	0.00	
17,900.00	90.00	90.55	7,707.00	226.51	6,981.92	6,984.24	0.00	0.00	0.00	
18,000.00	90.00	90.55	7,707.00	225.56	7,081.91	7,084.21	0.00	0.00	0.00	
18,100.00	90.00	90.55	7,707.00	224.60	7,181.91	7,184.19	0.00	0.00	0.00	
18,200.00	90.00	90.55	7,707.00	223.65	7,281.90	7,284.16	0.00	0.00	0.00	
18,300.00	90.00	90.55	7,707.00	222.70	7,381.90	7,384.14	0.00	0.00	0.00	
18,400.00	90.00	90.55	7,707.00	221.75	7,481.89	7,484.11	0.00	0.00	0.00	
18,500.00	90.00	90.55	7,707.00	220.80	7,581.89	7,584.09	0.00	0.00	0.00	
18,600.00	90.00	90.55	7,707.00	219.85	7,681.88	7,684.06	0.00	0.00	0.00	
18,700.00	90.00	90.55	7,707.00	218.89	7,781.88	7,784.04	0.00	0.00	0.00	
18,800.00	90.00	90.55	7,707.00	217.94	7,881.88	7,884.01	0.00	0.00	0.00	
18,900.00	90.00	90.55	7,707.00	216.99	7,981.87	7,983.99	0.00	0.00	0.00	
19,000.00	90.00	90.55	7,707.00	216.04	8,081.87	8,083.96	0.00	0.00	0.00	
19,100.00	90.00	90.55	7,707.00	215.09	8,181.86	8,183.94	0.00	0.00	0.00	
19,200.00	90.00	90.55	7,707.00	214.14	8,281.86	8,283.91	0.00	0.00	0.00	
19,300.00	90.00	90.55	7,707.00	213.18	8,381.85	8,383.89	0.00	0.00	0.00	
19,400.00	90.00	90.55	7,707.00	212.23	8,481.85	8,483.86	0.00	0.00	0.00	
19,500.00	90.00	90.55	7,707.00	211.28	8,581.84	8,583.84	0.00	0.00	0.00	
19,600.00	90.00	90.55	7,707.00	210.33	8,681.84	8,683.82	0.00	0.00	0.00	
19,700.00	90.00	90.55	7,707.00	209.38	8,781.83	8,783.79	0.00	0.00	0.00	
19,800.00	90.00	90.55	7,707.00	208.43	8,881.83	8,883.77	0.00	0.00	0.00	
19,900.00	90.00	90.55	7,707.00	207.48	8,981.83	8,983.74	0.00	0.00	0.00	
20,000.00	90.00	90.55	7,707.00	206.52	9,081.82	9,083.72	0.00	0.00	0.00	
20,100.00	90.00	90.55	7,707.00	205.57	9,181.82	9,183.69	0.00	0.00	0.00	
20,200.00	90.00	90.55	7,707.00	204.62	9,281.81	9,283.67	0.00	0.00	0.00	
20,300.00	90.00	90.55	7,707.00	203.67	9,381.81	9,383.64	0.00	0.00	0.00	
20,400.00	90.00	90.55	7,707.00	202.72	9,481.80	9,483.62	0.00	0.00	0.00	
20,500.00	90.00	90.55	7,707.00	201.77	9,581.80	9,583.59	0.00	0.00	0.00	
20,600.00	90.00	90.55	7,707.00	200.81	9,681.79	9,683.57	0.00	0.00	0.00	
20,700.00	90.00	90.55	7,707.00	199.86	9,781.79	9,783.54	0.00	0.00	0.00	
20,800.00	90.00	90.55	7,707.00	198.91	9,881.78	9,883.52	0.00	0.00	0.00	
20,900.00	90.00	90.55	7,707.00	197.96	9,981.78	9,983.49	0.00	0.00	0.00	
21,000.00	90.00	90.55	7,707.00	197.01	10,081.78	10,083.47	0.00	0.00	0.00	
21,100.00	90.00	90.55	7,707.00	196.06	10,181.77	10,183.44	0.00	0.00	0.00	
21,200.00	90.00	90.55	7,707.00	195.10	10,281.77	10,283.42	0.00	0.00	0.00	
21,300.00	90.00	90.55	7,707.00	194.15	10,381.76	10,383.39	0.00	0.00	0.00	
21,400.00	90.00	90.55	7,707.00	193.20	10,481.76	10,483.37	0.00	0.00	0.00	
21,500.00	90.00	90.55	7,707.00	192.25	10,581.75	10,583.34	0.00	0.00	0.00	
21,600.00	90.00	90.55	7,707.00	191.30	10,681.75	10,683.32	0.00	0.00	0.00	
21,700.00	90.00	90.55	7,707.00	190.35	10,781.74	10,783.29	0.00	0.00	0.00	
21,800.00	90.00	90.55	7,707.00	189.39	10,881.74	10,883.27	0.00	0.00	0.00	
21,900.00	90.00	90.55	7,707.00	188.44	10,981.73	10,983.24	0.00	0.00	0.00	
22,000.00	90.00	90.55	7,707.00	187.49	11,081.73	11,083.22	0.00	0.00	0.00	
22,100.00	90.00	90.55	7,707.00	186.54	11,181.73	11,183.20	0.00	0.00	0.00	
22,200.00	90.00	90.55	7,707.00	185.59	11,281.72	11,283.17	0.00	0.00	0.00	
22,300.00	90.00	90.55	7,707.00	184.64	11,381.72	11,383.15	0.00	0.00	0.00	



# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
22,400.00	90.00	90.55	7,707.00	183.68	11,481.71	11,483.12	0.00	0.00	0.00	
22,500.00	90.00	90.55	7,707.00	182.73	11,581.71	11,583.10	0.00	0.00	0.00	
22,600.00	90.00	90.55	7,707.00	181.78	11,681.70	11,683.07	0.00	0.00	0.00	
22,700.00	90.00	90.55	7,707.00	180.83	11,781.70	11,783.05	0.00	0.00	0.00	
22,800.00	90.00	90.55	7,707.00	179.88	11,881.69	11,883.02	0.00	0.00	0.00	
22,900.00	90.00	90.55	7,707.00	178.93	11,981.69	11,983.00	0.00	0.00	0.00	
23,000.00	90.00	90.55	7,707.00	177.98	12,081.69	12,082.97	0.00	0.00	0.00	
23,100.00	90.00	90.55	7,707.00	177.02	12,181.68	12,182.95	0.00	0.00	0.00	
23,200.00	90.00	90.55	7,707.00	176.07	12,281.68	12,282.92	0.00	0.00	0.00	
23,300.00	90.00	90.55	7,707.00	175.12	12,381.67	12,382.90	0.00	0.00	0.00	
23,400.00	90.00	90.55	7,707.00	174.17	12,481.67	12,482.87	0.00	0.00	0.00	
23,500.00	90.00	90.55	7,707.00	173.22	12,581.66	12,582.85	0.00	0.00	0.00	
23,600.00	90.00	90.55	7,707.00	172.27	12,681.66	12,682.82	0.00	0.00	0.00	
23,700.00	90.00	90.55	7,707.00	171.31	12,781.65	12,782.80	0.00	0.00	0.00	
23,800.00	90.00	90.55	7,707.00	170.36	12,881.65	12,882.77	0.00	0.00	0.00	
23,900.00	90.00	90.55	7,707.00	169.41	12,981.64	12,982.75	0.00	0.00	0.00	
24,000.00	90.00	90.55	7,707.00	168.46	13,081.64	13,082.72	0.00	0.00	0.00	
24,072.77	90.00	90.55	7,707.00	167.77	13,154.41	13,155.48	0.00	0.00	0.00	
TD at 24072.77										

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-BIJOU 3-65 21-22-23 2BH	0.00	0.00	7,707.00	314.48	-2,262.05	1,162,935.96	3,231,121.89	39.777686°N	104.677686°W	
- plan hits target center										
- Point										
PBHL-BIJOU 3-65 21-22-23 2BH	0.00	0.00	7,707.00	167.77	13,154.41	1,162,933.62	3,246,538.90	39.777274°N	104.622837°W	
- plan hits target center										
- Point										

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well BIJOU 3-65 21-22-23 2BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5618.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5618.00usft
<b>Site:</b>	SEC 21-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	BIJOU 3-65 21-22-23 2BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
818.49	817.00	Arapahoe				
1,471.83	1,447.00	Laramie-Fox Hills Formation				
2,044.92	1,967.00	Pierre Formation				
2,654.66	2,517.00	Upper Pierre aquifer				
3,347.55	3,142.00	Base of Upper Pierre aquifer				
4,555.94	4,232.00	Larimer ("Parkman") sandstone				
4,683.43	4,347.00	Pierre Formation				
5,803.14	5,357.00	Terry ("Sussex") sandstone				
5,997.14	5,532.00	Pierre Formation				
6,634.60	6,107.00	Hygiene ("Shannon") sandstone				
7,028.16	6,462.00	Pierre Formation				
8,440.15	7,667.00	Sharon Springs Member				
8,655.62	7,707.00	Niobrara Formation				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
400.00	400.00	0.00	0.00	Start Build 2.00	
1,678.73	1,636.69	28.47	-279.23	Start 5822.31 hold at 1678.73 MD	
7,501.04	6,888.55	283.39	-2,779.69	Start DLS 10.00 TFO 174.15	
8,655.62	7,707.00	314.48	-2,262.05	Start 15417.15 hold at 8655.62 MD	
24,072.77	7,707.00	167.77	13,154.41	TD at 24072.77	