

Project: Garfield County, CO  
 Site: BJU M23A 496 Pad  
 Well: BJU M23A FED 24D-22 496  
 Wellbore: Wellbore #1  
 Design: Design #3  
 Latitude: 39.684169  
 Longitude: -108.140181  
 Ground Level: 8104.0  
 RKB @ 8134.0usft (30')

PROJECT DETAILS: Garfield County, CO

Geodetic System: Universal Transverse Mercator (US Survey Feet)  
 Datum: NAD 1927 - Western US  
 Ellipsoid: Clarke 1866  
 Zone: Zone 12N (114 W to 108 W)  
 System Datum: Mean Sea Level

REFERENCE INFORMATION

Vertical (TVD) Reference: RKB @ 8134.0usft (30')  
 Section (VS) Reference: Slot - 24D-22(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8134.0usft (30')  
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3342.0	3473.8	Wasatch
5742.0	5988.5	Wasatch G
6042.0	6302.8	Fort Union
8042.0	8380.0	Ohio Creek
8444.0	8732.1	Williams Fork
11206.0	11544.9	Cameo
11706.0	12045.1	Rollins

SECTION DETAILS

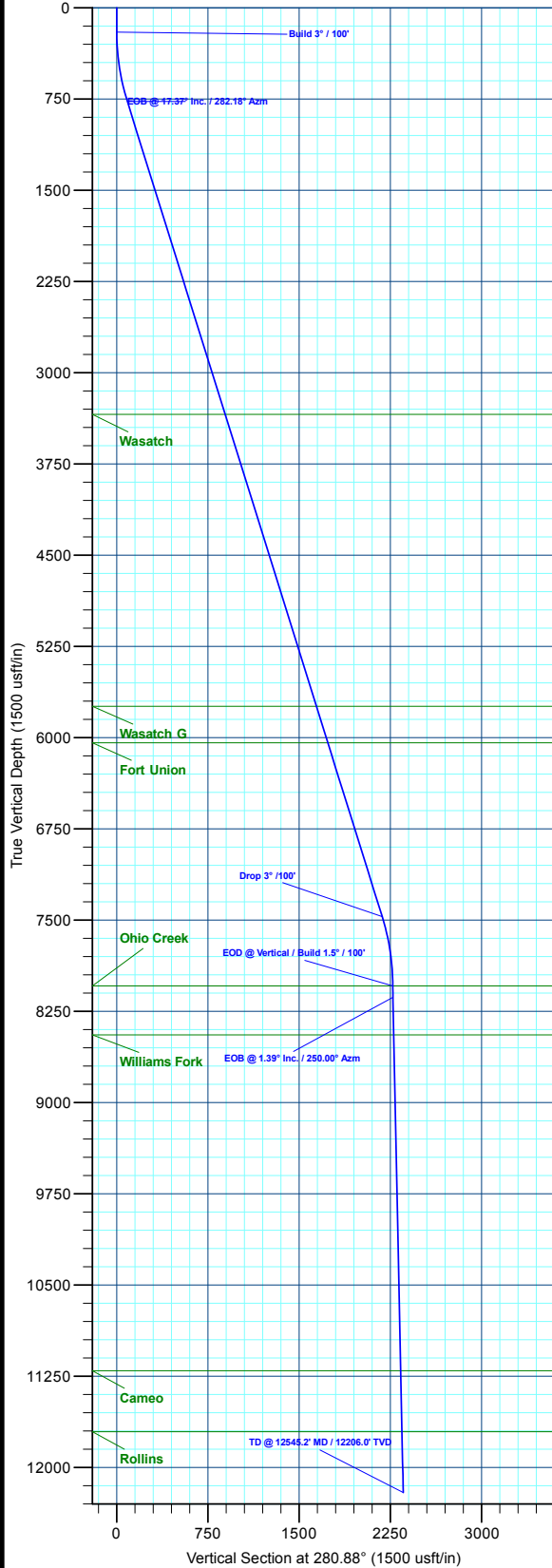
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
779.1	17.37	282.18	770.3	18.4	-85.2	3.00	282.18	87.1	EOB @ 17.37° Inc. / 282.18° Azm
7800.9	17.37	282.18	7471.7	460.6	-2134.7	0.00	0.00	2183.2	Drop 3° / 100'
8380.0	0.00	0.00	8042.0	479.0	-2219.8	3.00	180.00	2270.3	EOD @ Vertical / Build 1.5° / 100'
8472.7	1.39	250.00	8134.7	478.6	-2220.9	1.50	250.00	2271.3	EOB @ 1.39° Inc. / 250.00° Azm
12545.2	1.39	250.00	12206.0	444.8	-2313.8	0.00	0.00	2356.2	TD @ 12545.2' MD / 12206.0' TVD

DESIGN TARGET DETAILS

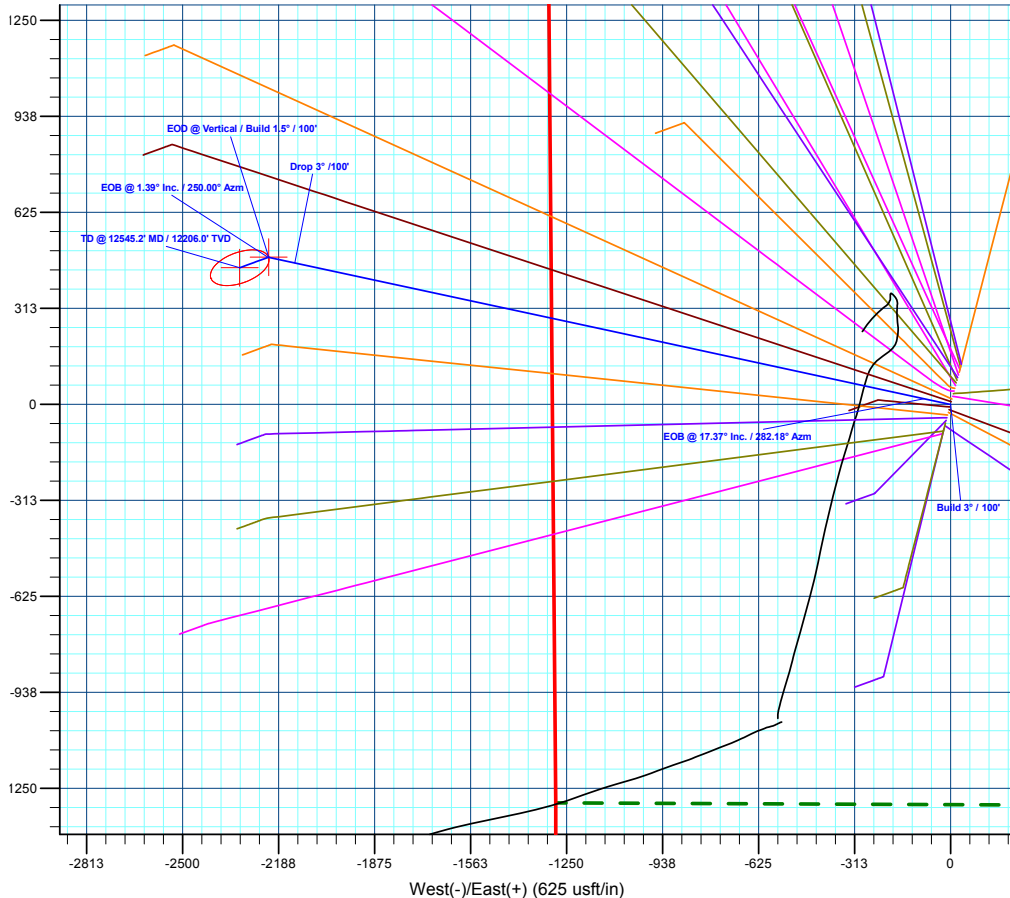
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 24D-22	8042.0	479.0	-2219.8	14424279.78	2442838.63	39.685483	-108.148065
PBHL - 24D-22	12206.0	444.8	-2313.8	14424242.60	2442745.80	39.685389	-108.148399

WELL DETAILS: BJU M23A FED 24D-22 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	24D-22
0.0	0.0		14423871.80	2445072.60	39.684169	-108.140181	24D-22



T M  
 Azimuths to True North  
 Magnetic North: 9.43°  
 Magnetic Field  
 Strength: 51187.3nT  
 Dip Angle: 65.82°  
 Date: 6/3/2020  
 Model: HDGM2020



Plan: Design #3 (BJU M23A FED 24D-22 496/Wellbore #1)

Created By: Will Jircik Date: 4:57, January 05 2023



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 24D-22 496 - Slot 24D-22**

**Wellbore #1**

**Plan: Design #3**

## **KLX Well Planning Report**

**05 January, 2023**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24D-22 496 - Slot 24D-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8134.0usft (30')
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8134.0usft (30')
<b>Site:</b>	BJU M23A 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M23A FED 24D-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

<b>Project</b>	Garfield County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	BJU M23A 496 Pad				
<b>Site Position:</b>		<b>Northing:</b>	14,424,028.50 usft	<b>Latitude:</b>	39.684596
<b>From:</b>	Map	<b>Easting:</b>	2,445,109.60 usft	<b>Longitude:</b>	-108.140032
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.83 °

<b>Well</b>	BJU M23A FED 24D-22 496 - Slot 24D-22					
<b>Well Position</b>	<b>+N/-S</b>	-155.4 usft	<b>Northing:</b>	14,423,871.80 usft	<b>Latitude:</b>	39.684169
	<b>+E/-W</b>	-42.0 usft	<b>Easting:</b>	2,445,072.60 usft	<b>Longitude:</b>	-108.140181
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	8,104.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2020	6/3/2020	9.43	65.82	51,187.30000000

<b>Design</b>	Design #3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	280.88

<b>Plan Sections</b>											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00		
779.1	17.37	282.18	770.3	18.4	-85.2	3.00	3.00	0.00	282.18		
7,800.9	17.37	282.18	7,471.7	460.6	-2,134.7	0.00	0.00	0.00	0.00		
8,380.0	0.00	0.00	8,042.0	479.0	-2,219.8	3.00	-3.00	0.00	180.00	OHCR - 24D-22	
8,472.7	1.39	250.00	8,134.7	478.6	-2,220.9	1.50	1.50	-118.60	250.00		
12,545.2	1.39	250.00	12,206.0	444.8	-2,313.8	0.00	0.00	0.00	0.00	PBHL - 24D-22	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24D-22 496 - Slot 24D-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8134.0usft (30')
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8134.0usft (30')
<b>Site:</b>	BJU M23A 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M23A FED 24D-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	282.18	300.0	0.6	-2.6	2.6	3.00	3.00	0.00
400.0	6.00	282.18	399.6	2.2	-10.2	10.5	3.00	3.00	0.00
500.0	9.00	282.18	498.8	5.0	-23.0	23.5	3.00	3.00	0.00
600.0	12.00	282.18	597.1	8.8	-40.8	41.7	3.00	3.00	0.00
700.0	15.00	282.18	694.3	13.7	-63.6	65.1	3.00	3.00	0.00
<b>EOB @ 17.37° Inc. / 282.18° Azm</b>									
779.1	17.37	282.18	770.3	18.4	-85.2	87.1	3.00	3.00	0.00
800.0	17.37	282.18	790.2	19.7	-91.3	93.3	0.00	0.00	0.00
900.0	17.37	282.18	885.7	26.0	-120.5	123.2	0.00	0.00	0.00
1,000.0	17.37	282.18	981.1	32.3	-149.6	153.0	0.00	0.00	0.00
1,100.0	17.37	282.18	1,076.5	38.6	-178.8	182.9	0.00	0.00	0.00
1,200.0	17.37	282.18	1,172.0	44.9	-208.0	212.7	0.00	0.00	0.00
1,300.0	17.37	282.18	1,267.4	51.2	-237.2	242.6	0.00	0.00	0.00
1,400.0	17.37	282.18	1,362.8	57.5	-266.4	272.5	0.00	0.00	0.00
1,500.0	17.37	282.18	1,458.3	63.8	-295.6	302.3	0.00	0.00	0.00
1,600.0	17.37	282.18	1,553.7	70.1	-324.8	332.2	0.00	0.00	0.00
1,700.0	17.37	282.18	1,649.2	76.4	-354.0	362.0	0.00	0.00	0.00
1,800.0	17.37	282.18	1,744.6	82.7	-383.1	391.9	0.00	0.00	0.00
1,900.0	17.37	282.18	1,840.0	89.0	-412.3	421.7	0.00	0.00	0.00
2,000.0	17.37	282.18	1,935.5	95.3	-441.5	451.6	0.00	0.00	0.00
2,100.0	17.37	282.18	2,030.9	101.6	-470.7	481.4	0.00	0.00	0.00
2,200.0	17.37	282.18	2,126.3	107.9	-499.9	511.3	0.00	0.00	0.00
2,300.0	17.37	282.18	2,221.8	114.2	-529.1	541.1	0.00	0.00	0.00
2,400.0	17.37	282.18	2,317.2	120.5	-558.3	571.0	0.00	0.00	0.00
2,500.0	17.37	282.18	2,412.7	126.8	-587.5	600.8	0.00	0.00	0.00
2,600.0	17.37	282.18	2,508.1	133.1	-616.6	630.7	0.00	0.00	0.00
2,700.0	17.37	282.18	2,603.5	139.4	-645.8	660.5	0.00	0.00	0.00
2,800.0	17.37	282.18	2,699.0	145.7	-675.0	690.4	0.00	0.00	0.00
2,900.0	17.37	282.18	2,794.4	152.0	-704.2	720.2	0.00	0.00	0.00
3,000.0	17.37	282.18	2,889.8	158.3	-733.4	750.1	0.00	0.00	0.00
3,100.0	17.37	282.18	2,985.3	164.6	-762.6	779.9	0.00	0.00	0.00
3,200.0	17.37	282.18	3,080.7	170.9	-791.8	809.8	0.00	0.00	0.00
3,300.0	17.37	282.18	3,176.2	177.1	-821.0	839.6	0.00	0.00	0.00
3,400.0	17.37	282.18	3,271.6	183.4	-850.1	869.5	0.00	0.00	0.00
<b>Wasatch</b>									
3,473.8	17.37	282.18	3,342.0	188.1	-871.7	891.5	0.00	0.00	0.00
3,500.0	17.37	282.18	3,367.0	189.7	-879.3	899.3	0.00	0.00	0.00
3,600.0	17.37	282.18	3,462.5	196.0	-908.5	929.2	0.00	0.00	0.00
3,700.0	17.37	282.18	3,557.9	202.3	-937.7	959.0	0.00	0.00	0.00
3,800.0	17.37	282.18	3,653.4	208.6	-966.9	988.9	0.00	0.00	0.00
3,900.0	17.37	282.18	3,748.8	214.9	-996.1	1,018.7	0.00	0.00	0.00
4,000.0	17.37	282.18	3,844.2	221.2	-1,025.3	1,048.6	0.00	0.00	0.00
4,100.0	17.37	282.18	3,939.7	227.5	-1,054.5	1,078.5	0.00	0.00	0.00
4,200.0	17.37	282.18	4,035.1	233.8	-1,083.6	1,108.3	0.00	0.00	0.00
4,300.0	17.37	282.18	4,130.5	240.1	-1,112.8	1,138.2	0.00	0.00	0.00
4,400.0	17.37	282.18	4,226.0	246.4	-1,142.0	1,168.0	0.00	0.00	0.00
4,500.0	17.37	282.18	4,321.4	252.7	-1,171.2	1,197.9	0.00	0.00	0.00
4,600.0	17.37	282.18	4,416.9	259.0	-1,200.4	1,227.7	0.00	0.00	0.00
4,700.0	17.37	282.18	4,512.3	265.3	-1,229.6	1,257.6	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24D-22 496 - Slot 24D-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8134.0usft (30')
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8134.0usft (30')
<b>Site:</b>	BJU M23A 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M23A FED 24D-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	17.37	282.18	4,607.7	271.6	-1,258.8	1,287.4	0.00	0.00	0.00
4,900.0	17.37	282.18	4,703.2	277.9	-1,288.0	1,317.3	0.00	0.00	0.00
5,000.0	17.37	282.18	4,798.6	284.2	-1,317.1	1,347.1	0.00	0.00	0.00
5,100.0	17.37	282.18	4,894.0	290.5	-1,346.3	1,377.0	0.00	0.00	0.00
5,200.0	17.37	282.18	4,989.5	296.8	-1,375.5	1,406.8	0.00	0.00	0.00
5,300.0	17.37	282.18	5,084.9	303.1	-1,404.7	1,436.7	0.00	0.00	0.00
5,400.0	17.37	282.18	5,180.4	309.4	-1,433.9	1,466.5	0.00	0.00	0.00
5,500.0	17.37	282.18	5,275.8	315.7	-1,463.1	1,496.4	0.00	0.00	0.00
5,600.0	17.37	282.18	5,371.2	322.0	-1,492.3	1,526.2	0.00	0.00	0.00
5,700.0	17.37	282.18	5,466.7	328.3	-1,521.5	1,556.1	0.00	0.00	0.00
5,800.0	17.37	282.18	5,562.1	334.6	-1,550.6	1,585.9	0.00	0.00	0.00
5,900.0	17.37	282.18	5,657.6	340.9	-1,579.8	1,615.8	0.00	0.00	0.00
<b>Wasatch G</b>									
5,988.5	17.37	282.18	5,742.0	346.5	-1,605.7	1,642.2	0.00	0.00	0.00
6,000.0	17.37	282.18	5,753.0	347.2	-1,609.0	1,645.6	0.00	0.00	0.00
6,100.0	17.37	282.18	5,848.4	353.5	-1,638.2	1,675.5	0.00	0.00	0.00
6,200.0	17.37	282.18	5,943.9	359.8	-1,667.4	1,705.3	0.00	0.00	0.00
6,300.0	17.37	282.18	6,039.3	366.1	-1,696.6	1,735.2	0.00	0.00	0.00
<b>Fort Union</b>									
6,302.8	17.37	282.18	6,042.0	366.3	-1,697.4	1,736.0	0.00	0.00	0.00
6,400.0	17.37	282.18	6,134.7	372.4	-1,725.8	1,765.0	0.00	0.00	0.00
6,500.0	17.37	282.18	6,230.2	378.7	-1,755.0	1,794.9	0.00	0.00	0.00
6,600.0	17.37	282.18	6,325.6	385.0	-1,784.1	1,824.7	0.00	0.00	0.00
6,700.0	17.37	282.18	6,421.1	391.3	-1,813.3	1,854.6	0.00	0.00	0.00
6,800.0	17.37	282.18	6,516.5	397.6	-1,842.5	1,884.4	0.00	0.00	0.00
6,900.0	17.37	282.18	6,611.9	403.9	-1,871.7	1,914.3	0.00	0.00	0.00
7,000.0	17.37	282.18	6,707.4	410.2	-1,900.9	1,944.2	0.00	0.00	0.00
7,100.0	17.37	282.18	6,802.8	416.5	-1,930.1	1,974.0	0.00	0.00	0.00
7,200.0	17.37	282.18	6,898.2	422.8	-1,959.3	2,003.9	0.00	0.00	0.00
7,300.0	17.37	282.18	6,993.7	429.1	-1,988.5	2,033.7	0.00	0.00	0.00
7,400.0	17.37	282.18	7,089.1	435.4	-2,017.6	2,063.6	0.00	0.00	0.00
7,500.0	17.37	282.18	7,184.6	441.7	-2,046.8	2,093.4	0.00	0.00	0.00
7,600.0	17.37	282.18	7,280.0	448.0	-2,076.0	2,123.3	0.00	0.00	0.00
7,700.0	17.37	282.18	7,375.4	454.3	-2,105.2	2,153.1	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
7,800.9	17.37	282.18	7,471.7	460.6	-2,134.7	2,183.2	0.00	0.00	0.00
7,900.0	14.40	282.18	7,567.0	466.3	-2,161.2	2,210.4	3.00	-3.00	0.00
8,000.0	11.40	282.18	7,664.5	471.1	-2,183.0	2,232.7	3.00	-3.00	0.00
8,100.0	8.40	282.18	7,763.0	474.7	-2,199.8	2,249.9	3.00	-3.00	0.00
8,200.0	5.40	282.18	7,862.3	477.2	-2,211.5	2,261.9	3.00	-3.00	0.00
8,300.0	2.40	282.18	7,962.0	478.6	-2,218.2	2,268.7	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b>									
8,380.0	0.00	0.00	8,042.0	479.0	-2,219.8	2,270.3	3.00	-3.00	0.00
8,400.0	0.30	250.00	8,062.0	479.0	-2,219.9	2,270.4	1.50	1.50	0.00
<b>EOB @ 1.39° Inc. / 250.00° Azm</b>									
8,472.7	1.39	250.00	8,134.7	478.6	-2,220.9	2,271.3	1.50	1.50	0.00
8,500.0	1.39	250.00	8,162.0	478.4	-2,221.5	2,271.9	0.00	0.00	0.00
8,600.0	1.39	250.00	8,262.0	477.6	-2,223.8	2,274.0	0.00	0.00	0.00
8,700.0	1.39	250.00	8,361.9	476.7	-2,226.1	2,276.0	0.00	0.00	0.00
<b>Williams Fork</b>									
8,782.1	1.39	250.00	8,444.0	476.0	-2,227.9	2,277.8	0.00	0.00	0.00
8,800.0	1.39	250.00	8,461.9	475.9	-2,228.3	2,278.1	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24D-22 496 - Slot 24D-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8134.0usft (30')
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8134.0usft (30')
<b>Site:</b>	BJU M23A 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M23A FED 24D-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.0	1.39	250.00	8,561.9	475.1	-2,230.6	2,280.2	0.00	0.00	0.00
9,000.0	1.39	250.00	8,661.8	474.2	-2,232.9	2,282.3	0.00	0.00	0.00
9,100.0	1.39	250.00	8,761.8	473.4	-2,235.2	2,284.4	0.00	0.00	0.00
9,200.0	1.39	250.00	8,861.8	472.6	-2,237.5	2,286.5	0.00	0.00	0.00
9,300.0	1.39	250.00	8,961.7	471.7	-2,239.8	2,288.5	0.00	0.00	0.00
9,400.0	1.39	250.00	9,061.7	470.9	-2,242.0	2,290.6	0.00	0.00	0.00
9,500.0	1.39	250.00	9,161.7	470.1	-2,244.3	2,292.7	0.00	0.00	0.00
9,600.0	1.39	250.00	9,261.7	469.3	-2,246.6	2,294.8	0.00	0.00	0.00
9,700.0	1.39	250.00	9,361.6	468.4	-2,248.9	2,296.9	0.00	0.00	0.00
9,800.0	1.39	250.00	9,461.6	467.6	-2,251.2	2,299.0	0.00	0.00	0.00
9,900.0	1.39	250.00	9,561.6	466.8	-2,253.4	2,301.0	0.00	0.00	0.00
10,000.0	1.39	250.00	9,661.5	465.9	-2,255.7	2,303.1	0.00	0.00	0.00
10,100.0	1.39	250.00	9,761.5	465.1	-2,258.0	2,305.2	0.00	0.00	0.00
10,200.0	1.39	250.00	9,861.5	464.3	-2,260.3	2,307.3	0.00	0.00	0.00
10,300.0	1.39	250.00	9,961.5	463.4	-2,262.6	2,309.4	0.00	0.00	0.00
10,400.0	1.39	250.00	10,061.4	462.6	-2,264.9	2,311.5	0.00	0.00	0.00
10,500.0	1.39	250.00	10,161.4	461.8	-2,267.1	2,313.5	0.00	0.00	0.00
10,600.0	1.39	250.00	10,261.4	461.0	-2,269.4	2,315.6	0.00	0.00	0.00
10,700.0	1.39	250.00	10,361.3	460.1	-2,271.7	2,317.7	0.00	0.00	0.00
10,800.0	1.39	250.00	10,461.3	459.3	-2,274.0	2,319.8	0.00	0.00	0.00
10,900.0	1.39	250.00	10,561.3	458.5	-2,276.3	2,321.9	0.00	0.00	0.00
11,000.0	1.39	250.00	10,661.2	457.6	-2,278.5	2,324.0	0.00	0.00	0.00
11,100.0	1.39	250.00	10,761.2	456.8	-2,280.8	2,326.0	0.00	0.00	0.00
11,200.0	1.39	250.00	10,861.2	456.0	-2,283.1	2,328.1	0.00	0.00	0.00
11,300.0	1.39	250.00	10,961.2	455.1	-2,285.4	2,330.2	0.00	0.00	0.00
11,400.0	1.39	250.00	11,061.1	454.3	-2,287.7	2,332.3	0.00	0.00	0.00
11,500.0	1.39	250.00	11,161.1	453.5	-2,289.9	2,334.4	0.00	0.00	0.00
<b>Cameo</b>									
11,544.9	1.39	250.00	11,206.0	453.1	-2,291.0	2,335.3	0.00	0.00	0.00
11,600.0	1.39	250.00	11,261.1	452.6	-2,292.2	2,336.5	0.00	0.00	0.00
11,700.0	1.39	250.00	11,361.0	451.8	-2,294.5	2,338.5	0.00	0.00	0.00
11,800.0	1.39	250.00	11,461.0	451.0	-2,296.8	2,340.6	0.00	0.00	0.00
11,900.0	1.39	250.00	11,561.0	450.2	-2,299.1	2,342.7	0.00	0.00	0.00
12,000.0	1.39	250.00	11,661.0	449.3	-2,301.4	2,344.8	0.00	0.00	0.00
<b>Rollins</b>									
12,045.1	1.39	250.00	11,706.0	449.0	-2,302.4	2,345.7	0.00	0.00	0.00
12,100.0	1.39	250.00	11,760.9	448.5	-2,303.6	2,346.9	0.00	0.00	0.00
12,200.0	1.39	250.00	11,860.9	447.7	-2,305.9	2,349.0	0.00	0.00	0.00
12,300.0	1.39	250.00	11,960.9	446.8	-2,308.2	2,351.1	0.00	0.00	0.00
12,400.0	1.39	250.00	12,060.8	446.0	-2,310.5	2,353.1	0.00	0.00	0.00
12,500.0	1.39	250.00	12,160.8	445.2	-2,312.8	2,355.2	0.00	0.00	0.00
<b>TD @ 12545.2' MD / 12206.0' TVD</b>									
12,545.2	1.39	250.00	12,206.0	444.8	-2,313.8	2,356.2	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24D-22 496 - Slot 24D-22
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 8134.0usft (30')
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	RKB @ 8134.0usft (30')
<b>Site:</b>	BJU M23A 496 Pad	<b>North Reference:</b>	True
<b>Well:</b>	BJU M23A FED 24D-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

**Design Targets**

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
OHCR - 24D-22 - hit/miss target - Shape - Point	0.00	0.00	8,042.0	479.0	-2,219.8	14,424,279.78	2,442,838.63	39.685483	-108.148066
PBHL - 24D-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,206.0	444.8	-2,313.8	14,424,242.60	2,442,745.80	39.685390	-108.148399

**Formations**

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,473.8	3,342.0	Wasatch			
5,988.5	5,742.0	Wasatch G			
6,302.8	6,042.0	Fort Union			
8,380.0	8,042.0	Ohio Creek			
8,782.1	8,444.0	Williams Fork			
11,544.9	11,206.0	Cameo			
12,045.1	11,706.0	Rollins			

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Build 3° / 100'
779.1	770.3	18.4	-85.2	EOB @ 17.37° Inc. / 282.18° Azm
7,800.9	7,471.7	460.6	-2,134.7	Drop 3° /100'
8,380.0	8,042.0	479.0	-2,219.8	EOD @ Vertical / Build 1.5° / 100'
8,472.7	8,134.7	478.6	-2,220.9	EOB @ 1.39° Inc. / 250.00° Azm
12,545.2	12,206.0	444.8	-2,313.8	TD @ 12545.2' MD / 12206.0' TVD