

Project: Garfield County, CO  
 Site: BJU M23A 496 Pad  
 Well: BJU M23A FED 24C-22 496  
 Wellbore: Wellbore #1  
 Design: Design #2  
 Latitude: 39.684074  
 Longitude: -108.140214  
 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 - 24C-22(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8134.0usft (30')  
 Calculation Method: Minimum Curvature

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3324.0	3486.4	Wasatch
5724.0	6051.1	Wasatch G
6024.0	6371.7	Fort Union
8008.0	8460.5	Ohio Creek
8008.0	8460.5	TOG
8413.0	8865.6	William Fork
11161.0	11614.4	Cameo
11661.0	12114.5	Rollins

## SECTION DETAILS

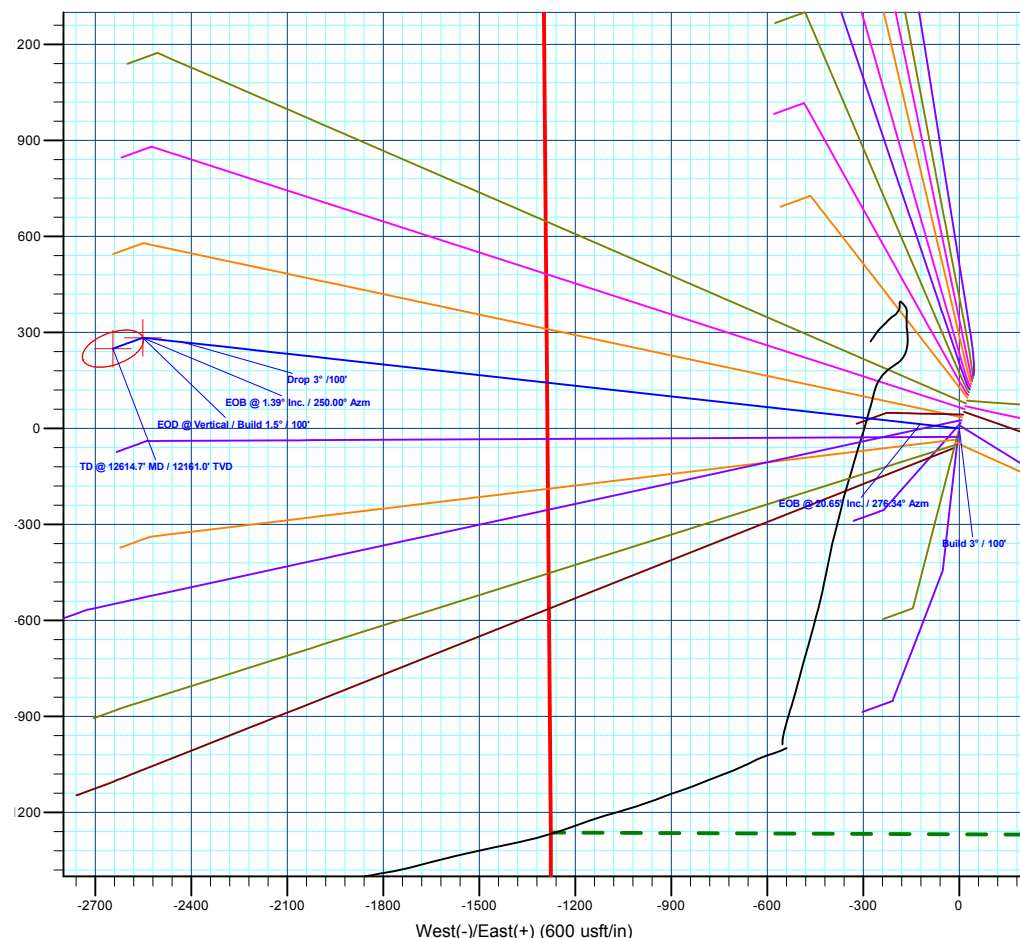
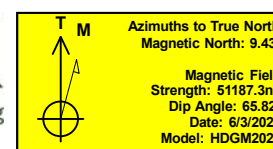
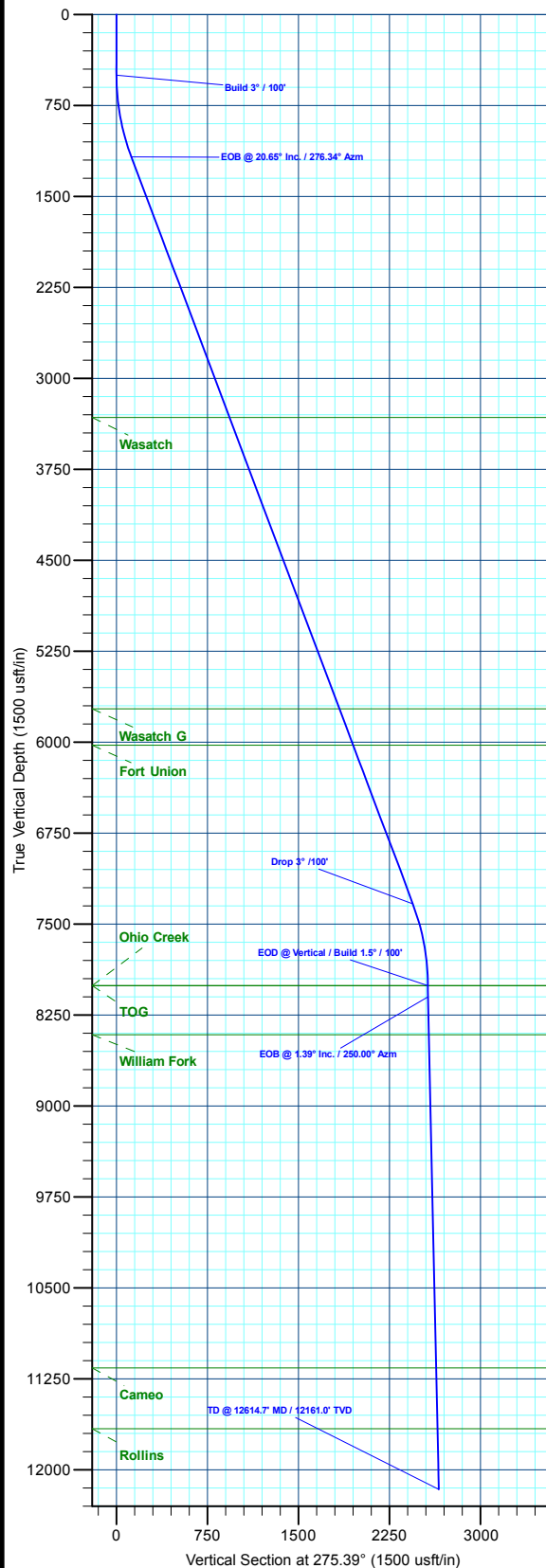
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1188.2	20.65	276.34	1173.4	13.6	-121.9	3.00	276.34	122.6	EOB @ 20.65° Inc. / 276.34° Azm
7772.2	20.65	276.34	7334.6	270.0	-2429.2	0.00	0.00	2443.8	Drop 3° / 100'
8460.5	0.00	0.00	8008.0	283.6	-2551.1	3.00	180.00	2566.5	EOD @ Vertical / Build 1.5° / 100'
8553.5	1.39	250.00	8101.0	283.2	-2552.2	1.50	250.00	2567.5	EOB @ 1.39° Inc. / 250.00° Azm
12614.7	1.39	250.00	12161.0	249.4	-2645.1	0.00	0.00	2656.8	TD @ 12614.7° MD / 12161.0° TVD

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 24C-22	8008.0	283.6	-2551.1	14424038.88	2442505.43	39.684852	-108.149275
PBHL - 24C-22	12161.0	249.4	-2645.1	14424001.70	2442412.60	39.684758	-108.149609

## WELL DETAILS: BJU M23A FED 24C-22 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	
0.0	0.0		14423836.80	2445064.30	39.684074	-108.140214	24C-22



Plan: Design #2 (BJU M23A FED 24C-22 496/Wellbore #1)

Created By: Will Jircik Date: 15:46, July 18 2022



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

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

**Wellbore #1**

**Plan: Design #2**

## **KLX Well Planning Report**

**18 July, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24C-22 496 - Slot 24C-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 24C-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

<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>From:</b>	Map	<b>Easting:</b>	2,445,109.60 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	39.684596
		<b>Longitude:</b>	-108.140032
		<b>Grid Convergence:</b>	1.83 °

<b>Well</b>	BJU M23A FED 24C-22 496 - Slot 24C-22		
<b>Well Position</b>	<b>+N/-S</b>	-190.2 usft	<b>Northing:</b> 14,423,836.80 usft
	<b>+E/-W</b>	-51.4 usft	<b>Easting:</b> 2,445,064.30 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.684074
			<b>Longitude:</b> -108.140215
			<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 #2				
<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	275.39	

<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 (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,188.2	20.65	276.34	1,173.4	13.6	-121.9	3.00	3.00	0.00	276.34	
7,772.2	20.65	276.34	7,334.6	270.0	-2,429.2	0.00	0.00	0.00	0.00	
8,460.5	0.00	0.00	8,008.0	283.6	-2,551.1	3.00	-3.00	0.00	180.00	OHCR - 24C-22
8,553.5	1.39	250.00	8,101.0	283.2	-2,552.2	1.50	1.50	-118.28	250.00	
12,614.7	1.39	250.00	12,161.0	249.4	-2,645.1	0.00	0.00	0.00	0.00	PBHL - 24C-22

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24C-22 496 - Slot 24C-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 24C-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

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
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	276.34	600.0	0.3	-2.6	2.6	3.00	3.00	0.00
700.0	6.00	276.34	699.6	1.2	-10.4	10.5	3.00	3.00	0.00
800.0	9.00	276.34	798.8	2.6	-23.4	23.5	3.00	3.00	0.00
900.0	12.00	276.34	897.1	4.6	-41.5	41.7	3.00	3.00	0.00
1,000.0	15.00	276.34	994.3	7.2	-64.7	65.1	3.00	3.00	0.00
1,100.0	18.00	276.34	1,090.2	10.3	-92.9	93.5	3.00	3.00	0.00
<b>EOB @ 20.65° Inc. / 276.34° Azm</b>									
1,188.2	20.65	276.34	1,173.4	13.6	-121.9	122.6	3.00	3.00	0.00
1,200.0	20.65	276.34	1,184.4	14.0	-126.0	126.8	0.00	0.00	0.00
1,300.0	20.65	276.34	1,278.0	17.9	-161.1	162.1	0.00	0.00	0.00
1,400.0	20.65	276.34	1,371.6	21.8	-196.1	197.3	0.00	0.00	0.00
1,500.0	20.65	276.34	1,465.2	25.7	-231.2	232.6	0.00	0.00	0.00
1,600.0	20.65	276.34	1,558.8	29.6	-266.2	267.8	0.00	0.00	0.00
1,700.0	20.65	276.34	1,652.3	33.5	-301.3	303.1	0.00	0.00	0.00
1,800.0	20.65	276.34	1,745.9	37.4	-336.3	338.3	0.00	0.00	0.00
1,900.0	20.65	276.34	1,839.5	41.3	-371.3	373.6	0.00	0.00	0.00
2,000.0	20.65	276.34	1,933.1	45.2	-406.4	408.8	0.00	0.00	0.00
2,100.0	20.65	276.34	2,026.6	49.1	-441.4	444.1	0.00	0.00	0.00
2,200.0	20.65	276.34	2,120.2	53.0	-476.5	479.3	0.00	0.00	0.00
2,300.0	20.65	276.34	2,213.8	56.9	-511.5	514.6	0.00	0.00	0.00
2,400.0	20.65	276.34	2,307.4	60.8	-546.6	549.9	0.00	0.00	0.00
2,500.0	20.65	276.34	2,401.0	64.6	-581.6	585.1	0.00	0.00	0.00
2,600.0	20.65	276.34	2,494.5	68.5	-616.7	620.4	0.00	0.00	0.00
2,700.0	20.65	276.34	2,588.1	72.4	-651.7	655.6	0.00	0.00	0.00
2,800.0	20.65	276.34	2,681.7	76.3	-686.7	690.9	0.00	0.00	0.00
2,900.0	20.65	276.34	2,775.3	80.2	-721.8	726.1	0.00	0.00	0.00
3,000.0	20.65	276.34	2,868.8	84.1	-756.8	761.4	0.00	0.00	0.00
3,100.0	20.65	276.34	2,962.4	88.0	-791.9	796.6	0.00	0.00	0.00
3,200.0	20.65	276.34	3,056.0	91.9	-826.9	831.9	0.00	0.00	0.00
3,300.0	20.65	276.34	3,149.6	95.8	-862.0	867.2	0.00	0.00	0.00
3,400.0	20.65	276.34	3,243.2	99.7	-897.0	902.4	0.00	0.00	0.00
<b>Wasatch</b>									
3,486.4	20.65	276.34	3,324.0	103.1	-927.3	932.9	0.00	0.00	0.00
3,500.0	20.65	276.34	3,336.7	103.6	-932.1	937.7	0.00	0.00	0.00
3,600.0	20.65	276.34	3,430.3	107.5	-967.1	972.9	0.00	0.00	0.00
3,700.0	20.65	276.34	3,523.9	111.4	-1,002.1	1,008.2	0.00	0.00	0.00
3,800.0	20.65	276.34	3,617.5	115.3	-1,037.2	1,043.4	0.00	0.00	0.00
3,900.0	20.65	276.34	3,711.0	119.2	-1,072.2	1,078.7	0.00	0.00	0.00
4,000.0	20.65	276.34	3,804.6	123.1	-1,107.3	1,113.9	0.00	0.00	0.00
4,100.0	20.65	276.34	3,898.2	127.0	-1,142.3	1,149.2	0.00	0.00	0.00
4,200.0	20.65	276.34	3,991.8	130.9	-1,177.4	1,184.4	0.00	0.00	0.00
4,300.0	20.65	276.34	4,085.3	134.8	-1,212.4	1,219.7	0.00	0.00	0.00
4,400.0	20.65	276.34	4,178.9	138.7	-1,247.4	1,255.0	0.00	0.00	0.00
4,500.0	20.65	276.34	4,272.5	142.6	-1,282.5	1,290.2	0.00	0.00	0.00
4,600.0	20.65	276.34	4,366.1	146.4	-1,317.5	1,325.5	0.00	0.00	0.00
4,700.0	20.65	276.34	4,459.7	150.3	-1,352.6	1,360.7	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 24C-22 496 - Slot 24C-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 24C-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

## 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	20.65	276.34	4,553.2	154.2	-1,387.6	1,396.0	0.00	0.00	0.00
4,900.0	20.65	276.34	4,646.8	158.1	-1,422.7	1,431.2	0.00	0.00	0.00
5,000.0	20.65	276.34	4,740.4	162.0	-1,457.7	1,466.5	0.00	0.00	0.00
5,100.0	20.65	276.34	4,834.0	165.9	-1,492.8	1,501.7	0.00	0.00	0.00
5,200.0	20.65	276.34	4,927.5	169.8	-1,527.8	1,537.0	0.00	0.00	0.00
5,300.0	20.65	276.34	5,021.1	173.7	-1,562.8	1,572.2	0.00	0.00	0.00
5,400.0	20.65	276.34	5,114.7	177.6	-1,597.9	1,607.5	0.00	0.00	0.00
5,500.0	20.65	276.34	5,208.3	181.5	-1,632.9	1,642.8	0.00	0.00	0.00
5,600.0	20.65	276.34	5,301.9	185.4	-1,668.0	1,678.0	0.00	0.00	0.00
5,700.0	20.65	276.34	5,395.4	189.3	-1,703.0	1,713.3	0.00	0.00	0.00
5,800.0	20.65	276.34	5,489.0	193.2	-1,738.1	1,748.5	0.00	0.00	0.00
5,900.0	20.65	276.34	5,582.6	197.1	-1,773.1	1,783.8	0.00	0.00	0.00
6,000.0	20.65	276.34	5,676.2	201.0	-1,808.2	1,819.0	0.00	0.00	0.00
<b>Wasatch G</b>									
6,051.1	20.65	276.34	5,724.0	203.0	-1,826.1	1,837.1	0.00	0.00	0.00
6,100.0	20.65	276.34	5,769.7	204.9	-1,843.2	1,854.3	0.00	0.00	0.00
6,200.0	20.65	276.34	5,863.3	208.8	-1,878.2	1,889.5	0.00	0.00	0.00
6,300.0	20.65	276.34	5,956.9	212.7	-1,913.3	1,924.8	0.00	0.00	0.00
<b>Fort Union</b>									
6,371.7	20.65	276.34	6,024.0	215.5	-1,938.4	1,950.1	0.00	0.00	0.00
6,400.0	20.65	276.34	6,050.5	216.6	-1,948.3	1,960.1	0.00	0.00	0.00
6,500.0	20.65	276.34	6,144.1	220.5	-1,983.4	1,995.3	0.00	0.00	0.00
6,600.0	20.65	276.34	6,237.6	224.4	-2,018.4	2,030.6	0.00	0.00	0.00
6,700.0	20.65	276.34	6,331.2	228.2	-2,053.5	2,065.8	0.00	0.00	0.00
6,800.0	20.65	276.34	6,424.8	232.1	-2,088.5	2,101.1	0.00	0.00	0.00
6,900.0	20.65	276.34	6,518.4	236.0	-2,123.5	2,136.3	0.00	0.00	0.00
7,000.0	20.65	276.34	6,611.9	239.9	-2,158.6	2,171.6	0.00	0.00	0.00
7,100.0	20.65	276.34	6,705.5	243.8	-2,193.6	2,206.8	0.00	0.00	0.00
7,200.0	20.65	276.34	6,799.1	247.7	-2,228.7	2,242.1	0.00	0.00	0.00
7,300.0	20.65	276.34	6,892.7	251.6	-2,263.7	2,277.3	0.00	0.00	0.00
7,400.0	20.65	276.34	6,986.3	255.5	-2,298.8	2,312.6	0.00	0.00	0.00
7,500.0	20.65	276.34	7,079.8	259.4	-2,333.8	2,347.9	0.00	0.00	0.00
7,600.0	20.65	276.34	7,173.4	263.3	-2,368.9	2,383.1	0.00	0.00	0.00
7,700.0	20.65	276.34	7,267.0	267.2	-2,403.9	2,418.4	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
7,772.2	20.65	276.34	7,334.6	270.0	-2,429.2	2,443.8	0.00	0.00	0.00
7,800.0	19.81	276.34	7,360.6	271.1	-2,438.8	2,453.4	3.00	-3.00	0.00
7,900.0	16.81	276.34	7,455.6	274.5	-2,470.0	2,484.8	3.00	-3.00	0.00
8,000.0	13.81	276.34	7,552.0	277.5	-2,496.2	2,511.2	3.00	-3.00	0.00
8,100.0	10.81	276.34	7,649.7	279.8	-2,517.4	2,532.6	3.00	-3.00	0.00
8,200.0	7.81	276.34	7,748.4	281.6	-2,533.5	2,548.7	3.00	-3.00	0.00
8,300.0	4.81	276.34	7,847.7	282.8	-2,544.4	2,559.7	3.00	-3.00	0.00
8,400.0	1.81	276.34	7,947.6	283.5	-2,550.2	2,565.5	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG</b>									
8,460.5	0.00	0.00	8,008.0	283.6	-2,551.1	2,566.5	3.00	-3.00	0.00
8,500.0	0.59	250.00	8,047.5	283.5	-2,551.3	2,566.7	1.50	1.50	0.00
<b>EOB @ 1.39° Inc. / 250.00° Azm</b>									
8,553.5	1.39	250.00	8,101.0	283.2	-2,552.2	2,567.5	1.50	1.50	0.00
8,600.0	1.39	250.00	8,147.5	282.8	-2,553.3	2,568.5	0.00	0.00	0.00
8,700.0	1.39	250.00	8,247.5	282.0	-2,555.5	2,570.7	0.00	0.00	0.00
8,800.0	1.39	250.00	8,347.5	281.1	-2,557.8	2,572.9	0.00	0.00	0.00
<b>William Fork</b>									

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 24C-22 496 - Slot 24C-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 24C-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

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)
8,865.6	1.39	250.00	8,413.0	280.6	-2,559.3	2,574.4	0.00	0.00	0.00
8,900.0	1.39	250.00	8,447.4	280.3	-2,560.1	2,575.1	0.00	0.00	0.00
9,000.0	1.39	250.00	8,547.4	279.5	-2,562.4	2,577.3	0.00	0.00	0.00
9,100.0	1.39	250.00	8,647.4	278.6	-2,564.7	2,579.5	0.00	0.00	0.00
9,200.0	1.39	250.00	8,747.3	277.8	-2,567.0	2,581.7	0.00	0.00	0.00
9,300.0	1.39	250.00	8,847.3	277.0	-2,569.3	2,583.9	0.00	0.00	0.00
9,400.0	1.39	250.00	8,947.3	276.1	-2,571.6	2,586.1	0.00	0.00	0.00
9,500.0	1.39	250.00	9,047.3	275.3	-2,573.8	2,588.3	0.00	0.00	0.00
9,600.0	1.39	250.00	9,147.2	274.5	-2,576.1	2,590.5	0.00	0.00	0.00
9,700.0	1.39	250.00	9,247.2	273.6	-2,578.4	2,592.7	0.00	0.00	0.00
9,800.0	1.39	250.00	9,347.2	272.8	-2,580.7	2,594.9	0.00	0.00	0.00
9,900.0	1.39	250.00	9,447.1	272.0	-2,583.0	2,597.1	0.00	0.00	0.00
10,000.0	1.39	250.00	9,547.1	271.1	-2,585.3	2,599.3	0.00	0.00	0.00
10,100.0	1.39	250.00	9,647.1	270.3	-2,587.6	2,601.5	0.00	0.00	0.00
10,200.0	1.39	250.00	9,747.0	269.5	-2,589.9	2,603.7	0.00	0.00	0.00
10,300.0	1.39	250.00	9,847.0	268.6	-2,592.1	2,605.9	0.00	0.00	0.00
10,400.0	1.39	250.00	9,947.0	267.8	-2,594.4	2,608.1	0.00	0.00	0.00
10,500.0	1.39	250.00	10,047.0	267.0	-2,596.7	2,610.3	0.00	0.00	0.00
10,600.0	1.39	250.00	10,146.9	266.1	-2,599.0	2,612.5	0.00	0.00	0.00
10,700.0	1.39	250.00	10,246.9	265.3	-2,601.3	2,614.7	0.00	0.00	0.00
10,800.0	1.39	250.00	10,346.9	264.5	-2,603.6	2,616.9	0.00	0.00	0.00
10,900.0	1.39	250.00	10,446.8	263.6	-2,605.9	2,619.1	0.00	0.00	0.00
11,000.0	1.39	250.00	10,546.8	262.8	-2,608.2	2,621.3	0.00	0.00	0.00
11,100.0	1.39	250.00	10,646.8	262.0	-2,610.4	2,623.5	0.00	0.00	0.00
11,200.0	1.39	250.00	10,746.8	261.1	-2,612.7	2,625.7	0.00	0.00	0.00
11,300.0	1.39	250.00	10,846.7	260.3	-2,615.0	2,627.9	0.00	0.00	0.00
11,400.0	1.39	250.00	10,946.7	259.5	-2,617.3	2,630.1	0.00	0.00	0.00
11,500.0	1.39	250.00	11,046.7	258.6	-2,619.6	2,632.3	0.00	0.00	0.00
11,600.0	1.39	250.00	11,146.6	257.8	-2,621.9	2,634.5	0.00	0.00	0.00
<b>Cameo</b>									
11,614.4	1.39	250.00	11,161.0	257.7	-2,622.2	2,634.8	0.00	0.00	0.00
11,700.0	1.39	250.00	11,246.6	257.0	-2,624.2	2,636.7	0.00	0.00	0.00
11,800.0	1.39	250.00	11,346.6	256.1	-2,626.5	2,638.9	0.00	0.00	0.00
11,900.0	1.39	250.00	11,446.5	255.3	-2,628.7	2,641.1	0.00	0.00	0.00
12,000.0	1.39	250.00	11,546.5	254.5	-2,631.0	2,643.3	0.00	0.00	0.00
12,100.0	1.39	250.00	11,646.5	253.6	-2,633.3	2,645.5	0.00	0.00	0.00
<b>Rollins</b>									
12,114.5	1.39	250.00	11,661.0	253.5	-2,633.7	2,645.8	0.00	0.00	0.00
12,200.0	1.39	250.00	11,746.5	252.8	-2,635.6	2,647.7	0.00	0.00	0.00
12,300.0	1.39	250.00	11,846.4	252.0	-2,637.9	2,649.9	0.00	0.00	0.00
12,400.0	1.39	250.00	11,946.4	251.2	-2,640.2	2,652.1	0.00	0.00	0.00
12,500.0	1.39	250.00	12,046.4	250.3	-2,642.5	2,654.3	0.00	0.00	0.00
12,600.0	1.39	250.00	12,146.3	249.5	-2,644.8	2,656.5	0.00	0.00	0.00
<b>TD @ 12614.7' MD / 12161.0' TVD</b>									
12,614.7	1.39	250.00	12,161.0	249.4	-2,645.1	2,656.8	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 24C-22 496 - Slot 24C-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 24C-22 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2		

#### 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
OHCR - 24C-22 - plan hits target center - Point	0.00	0.00	8,008.0	283.6	-2,551.1	14,424,038.88	2,442,505.43	39.684852	-108.149276
PBHL - 24C-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,161.0	249.4	-2,645.1	14,424,001.70	2,442,412.60	39.684758	-108.149609

#### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,486.4	3,324.0	Wasatch			
6,051.1	5,724.0	Wasatch G			
6,371.7	6,024.0	Fort Union			
8,460.5	8,008.0	Ohio Creek			
8,460.5	8,008.0	TOG			
8,865.6	8,413.0	William Fork			
11,614.4	11,161.0	Cameo			
12,114.5	11,661.0	Rollins			

#### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	Build 3° / 100'
1,188.2	1,173.4	13.6	-121.9	EOB @ 20.65° Inc. / 276.34° Azm
7,772.2	7,334.6	270.0	-2,429.2	Drop 3° / 100'
8,460.5	8,008.0	283.6	-2,551.1	EOD @ Vertical / Build 1.5° / 100'
8,553.5	8,101.0	283.2	-2,552.2	EOB @ 1.39° Inc. / 250.00° Azm
12,614.7	12,161.0	249.4	-2,645.1	TD @ 12614.7' MD / 12161.0' TVD