

Project: Garfield County, CO  
Site: BJU M23A 496 Pad  
Well: BJU M23A FED 12B-23 496  
Wellbore: Wellbore #1  
Design: Design #3  
Latitude: 39.684503  
Longitude: -108.140064  
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 - 12B-23(0.0N, 0.0E)  
Measured Depth Reference: RKB @ 8134.0usft (30')  
Calculation Method: Minimum Curvature

SECTION DETAILS

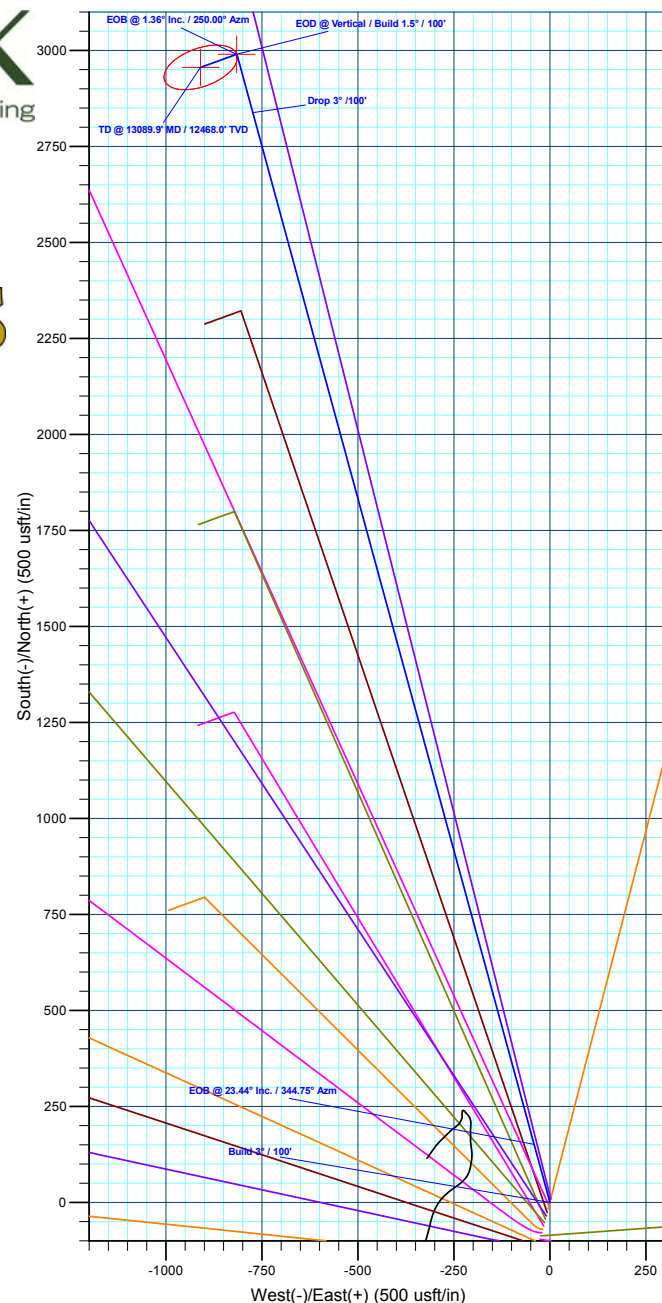
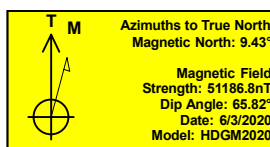
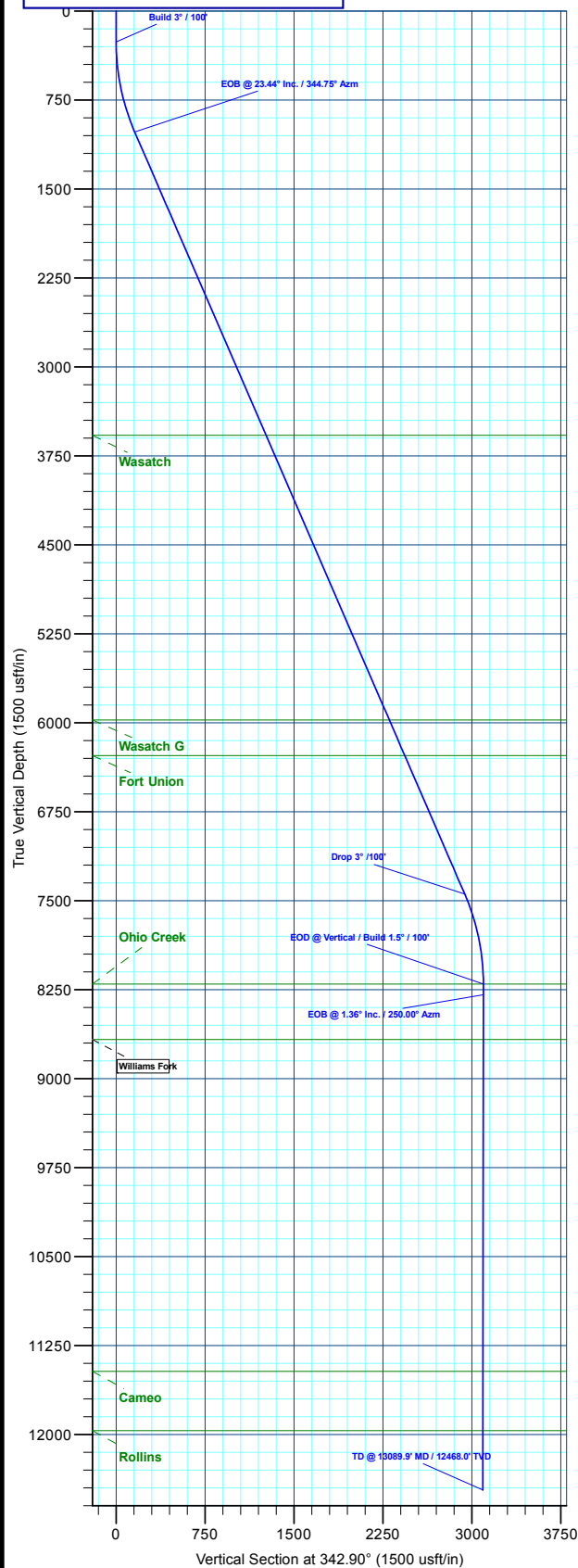
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
260.0	0.00	0.00	260.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1041.2	23.44	344.75	1019.6	152.0	-41.5	3.00	344.75	157.5	EOB @ 23.44° Inc. / 344.75° Azm
8042.6	23.44	344.75	7443.4	2838.4	-774.1	0.00	0.00	2940.5	Drop 3° / 100'
8823.7	0.00	0.00	8203.0	2990.4	-815.5	3.00	180.00	3098.0	EOD @ Vertical / Build 1.5° / 100'
8914.2	1.36	250.00	8293.5	2990.0	-816.5	1.50	250.00	3098.0	EOB @ 1.36° Inc. / 250.00° Azm
13089.9	1.36	250.00	12468.0	2956.2	-909.5	0.00	0.00	3092.9	TD @ 13089.9' MD / 12468.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 12B-23	8203.0	2990.4	-815.5	14426957.28	2444191.13	39.692710	-108.142961
PBHL - 12B-23	12468.0	2956.2	-909.5	14426920.10	2444098.30	39.692616	-108.143295

WELL DETAILS: BJU M23A FED 12B-23 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423994.40	2445101.60	39.684503	-108.140064
						12B-23



Plan: Design #3 (BJU M23A FED 12B-23 496/Wellbore #1)

Created By: Will Jircik

Date: 21:47, January 04 2023



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 12B-23 496 - Slot 12B-23**

**Wellbore #1**

**Plan: Design #3**

## **KLX Well Planning Report**

**04 January, 2023**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 12B-23 496 - Slot 12B-23
<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 12B-23 496	<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)		

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

Well	BJU M23A FED 12B-23 496 - Slot 12B-23					
Well Position	+N/-S	-33.8 usft	Northing:	14,423,994.40 usft	Latitude:	39.684503
	+E/-W	-9.1 usft	Easting:	2,445,101.60 usft	Longitude:	-108.140064
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	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	51,186.80000000

<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	342.90	

<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	
260.0	0.00	0.00	260.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,041.2	23.44	344.75	1,019.6	152.0	-41.5	3.00	3.00	0.00	344.75	
8,042.6	23.44	344.75	7,443.4	2,838.4	-774.1	0.00	0.00	0.00	0.00	
8,823.7	0.00	0.00	8,203.0	2,990.4	-815.5	3.00	-3.00	0.00	180.00	OHCR - 12B-23
8,914.2	1.36	250.00	8,293.5	2,990.0	-816.5	1.50	1.50	-121.54	250.00	
13,089.9	1.36	250.00	12,468.0	2,956.2	-909.5	0.00	0.00	0.00	0.00	PBHL - 12B-23

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 12B-23 496 - Slot 12B-23
<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 12B-23 496	<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
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
260.0	0.00	0.00	260.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	1.20	344.75	300.0	0.4	-0.1	0.4	3.00	3.00	0.00
400.0	4.20	344.75	399.9	4.9	-1.3	5.1	3.00	3.00	0.00
500.0	7.20	344.75	499.4	14.5	-4.0	15.1	3.00	3.00	0.00
600.0	10.20	344.75	598.2	29.1	-7.9	30.2	3.00	3.00	0.00
700.0	13.20	344.75	696.1	48.7	-13.3	50.4	3.00	3.00	0.00
800.0	16.20	344.75	792.8	73.2	-20.0	75.8	3.00	3.00	0.00
900.0	19.20	344.75	888.1	102.5	-28.0	106.2	3.00	3.00	0.00
1,000.0	22.20	344.75	981.6	136.6	-37.2	141.5	3.00	3.00	0.00
<b>EOB @ 23.44° Inc. / 344.75° Azm</b>									
1,041.2	23.44	344.75	1,019.6	152.0	-41.5	157.5	3.00	3.00	0.00
1,100.0	23.44	344.75	1,073.5	174.6	-47.6	180.8	0.00	0.00	0.00
1,200.0	23.44	344.75	1,165.3	212.9	-58.1	220.6	0.00	0.00	0.00
1,300.0	23.44	344.75	1,257.0	251.3	-68.5	260.3	0.00	0.00	0.00
1,400.0	23.44	344.75	1,348.8	289.7	-79.0	300.1	0.00	0.00	0.00
1,500.0	23.44	344.75	1,440.6	328.0	-89.5	339.8	0.00	0.00	0.00
1,600.0	23.44	344.75	1,532.3	366.4	-99.9	379.6	0.00	0.00	0.00
1,700.0	23.44	344.75	1,624.1	404.8	-110.4	419.3	0.00	0.00	0.00
1,800.0	23.44	344.75	1,715.8	443.2	-120.9	459.1	0.00	0.00	0.00
1,900.0	23.44	344.75	1,807.6	481.5	-131.3	498.8	0.00	0.00	0.00
2,000.0	23.44	344.75	1,899.3	519.9	-141.8	538.6	0.00	0.00	0.00
2,100.0	23.44	344.75	1,991.1	558.3	-152.2	578.3	0.00	0.00	0.00
2,200.0	23.44	344.75	2,082.8	596.6	-162.7	618.1	0.00	0.00	0.00
2,300.0	23.44	344.75	2,174.6	635.0	-173.2	657.9	0.00	0.00	0.00
2,400.0	23.44	344.75	2,266.3	673.4	-183.6	697.6	0.00	0.00	0.00
2,500.0	23.44	344.75	2,358.1	711.7	-194.1	737.4	0.00	0.00	0.00
2,600.0	23.44	344.75	2,449.8	750.1	-204.6	777.1	0.00	0.00	0.00
2,700.0	23.44	344.75	2,541.6	788.5	-215.0	816.9	0.00	0.00	0.00
2,800.0	23.44	344.75	2,633.3	826.9	-225.5	856.6	0.00	0.00	0.00
2,900.0	23.44	344.75	2,725.1	865.2	-236.0	896.4	0.00	0.00	0.00
3,000.0	23.44	344.75	2,816.8	903.6	-246.4	936.1	0.00	0.00	0.00
3,100.0	23.44	344.75	2,908.6	942.0	-256.9	975.9	0.00	0.00	0.00
3,200.0	23.44	344.75	3,000.3	980.3	-267.4	1,015.6	0.00	0.00	0.00
3,300.0	23.44	344.75	3,092.1	1,018.7	-277.8	1,055.4	0.00	0.00	0.00
3,400.0	23.44	344.75	3,183.8	1,057.1	-288.3	1,095.1	0.00	0.00	0.00
3,500.0	23.44	344.75	3,275.6	1,095.4	-298.7	1,134.9	0.00	0.00	0.00
3,600.0	23.44	344.75	3,367.3	1,133.8	-309.2	1,174.6	0.00	0.00	0.00
3,700.0	23.44	344.75	3,459.1	1,172.2	-319.7	1,214.4	0.00	0.00	0.00
3,800.0	23.44	344.75	3,550.8	1,210.5	-330.1	1,254.1	0.00	0.00	0.00
<b>Wasatch</b>									
3,828.5	23.44	344.75	3,577.0	1,221.5	-333.1	1,265.4	0.00	0.00	0.00
3,900.0	23.44	344.75	3,642.6	1,248.9	-340.6	1,293.9	0.00	0.00	0.00
4,000.0	23.44	344.75	3,734.3	1,287.3	-351.1	1,333.6	0.00	0.00	0.00
4,100.0	23.44	344.75	3,826.1	1,325.7	-361.5	1,373.4	0.00	0.00	0.00
4,200.0	23.44	344.75	3,917.8	1,364.0	-372.0	1,413.1	0.00	0.00	0.00
4,300.0	23.44	344.75	4,009.6	1,402.4	-382.5	1,452.9	0.00	0.00	0.00
4,400.0	23.44	344.75	4,101.3	1,440.8	-392.9	1,492.6	0.00	0.00	0.00
4,500.0	23.44	344.75	4,193.1	1,479.1	-403.4	1,532.4	0.00	0.00	0.00
4,600.0	23.44	344.75	4,284.8	1,517.5	-413.8	1,572.1	0.00	0.00	0.00

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<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 12B-23 496	<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)
4,700.0	23.44	344.75	4,376.6	1,555.9	-424.3	1,611.9	0.00	0.00	0.00
4,800.0	23.44	344.75	4,468.3	1,594.2	-434.8	1,651.6	0.00	0.00	0.00
4,900.0	23.44	344.75	4,560.1	1,632.6	-445.2	1,691.4	0.00	0.00	0.00
5,000.0	23.44	344.75	4,651.8	1,671.0	-455.7	1,731.1	0.00	0.00	0.00
5,100.0	23.44	344.75	4,743.6	1,709.4	-466.2	1,770.9	0.00	0.00	0.00
5,200.0	23.44	344.75	4,835.3	1,747.7	-476.6	1,810.6	0.00	0.00	0.00
5,300.0	23.44	344.75	4,927.1	1,786.1	-487.1	1,850.4	0.00	0.00	0.00
5,400.0	23.44	344.75	5,018.8	1,824.5	-497.6	1,890.1	0.00	0.00	0.00
5,500.0	23.44	344.75	5,110.6	1,862.8	-508.0	1,929.9	0.00	0.00	0.00
5,600.0	23.44	344.75	5,202.3	1,901.2	-518.5	1,969.6	0.00	0.00	0.00
5,700.0	23.44	344.75	5,294.1	1,939.6	-529.0	2,009.4	0.00	0.00	0.00
5,800.0	23.44	344.75	5,385.8	1,977.9	-539.4	2,049.1	0.00	0.00	0.00
5,900.0	23.44	344.75	5,477.6	2,016.3	-549.9	2,088.9	0.00	0.00	0.00
6,000.0	23.44	344.75	5,569.4	2,054.7	-560.3	2,128.6	0.00	0.00	0.00
6,100.0	23.44	344.75	5,661.1	2,093.1	-570.8	2,168.4	0.00	0.00	0.00
6,200.0	23.44	344.75	5,752.9	2,131.4	-581.3	2,208.1	0.00	0.00	0.00
6,300.0	23.44	344.75	5,844.6	2,169.8	-591.7	2,247.9	0.00	0.00	0.00
6,400.0	23.44	344.75	5,936.4	2,208.2	-602.2	2,287.6	0.00	0.00	0.00
<b>Wasatch G</b>									
6,444.3	23.44	344.75	5,977.0	2,225.2	-606.8	2,305.2	0.00	0.00	0.00
6,500.0	23.44	344.75	6,028.1	2,246.5	-612.7	2,327.4	0.00	0.00	0.00
6,600.0	23.44	344.75	6,119.9	2,284.9	-623.1	2,367.1	0.00	0.00	0.00
6,700.0	23.44	344.75	6,211.6	2,323.3	-633.6	2,406.9	0.00	0.00	0.00
<b>Fort Union</b>									
6,771.3	23.44	344.75	6,277.0	2,350.6	-641.1	2,435.2	0.00	0.00	0.00
6,800.0	23.44	344.75	6,303.4	2,361.6	-644.1	2,446.6	0.00	0.00	0.00
6,900.0	23.44	344.75	6,395.1	2,400.0	-654.5	2,486.4	0.00	0.00	0.00
7,000.0	23.44	344.75	6,486.9	2,438.4	-665.0	2,526.1	0.00	0.00	0.00
7,100.0	23.44	344.75	6,578.6	2,476.8	-675.5	2,565.9	0.00	0.00	0.00
7,200.0	23.44	344.75	6,670.4	2,515.1	-685.9	2,605.6	0.00	0.00	0.00
7,300.0	23.44	344.75	6,762.1	2,553.5	-696.4	2,645.4	0.00	0.00	0.00
7,400.0	23.44	344.75	6,853.9	2,591.9	-706.8	2,685.1	0.00	0.00	0.00
7,500.0	23.44	344.75	6,945.6	2,630.2	-717.3	2,724.9	0.00	0.00	0.00
7,600.0	23.44	344.75	7,037.4	2,668.6	-727.8	2,764.6	0.00	0.00	0.00
7,700.0	23.44	344.75	7,129.1	2,707.0	-738.2	2,804.4	0.00	0.00	0.00
7,800.0	23.44	344.75	7,220.9	2,745.3	-748.7	2,844.1	0.00	0.00	0.00
7,900.0	23.44	344.75	7,312.6	2,783.7	-759.2	2,883.9	0.00	0.00	0.00
8,000.0	23.44	344.75	7,404.4	2,822.1	-769.6	2,923.6	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
8,042.6	23.44	344.75	7,443.4	2,838.4	-774.1	2,940.5	0.00	0.00	0.00
8,100.0	21.71	344.75	7,496.5	2,859.7	-779.9	2,962.6	3.00	-3.00	0.00
8,200.0	18.71	344.75	7,590.3	2,893.0	-789.0	2,997.1	3.00	-3.00	0.00
8,300.0	15.71	344.75	7,685.8	2,921.6	-796.8	3,026.7	3.00	-3.00	0.00
8,400.0	12.71	344.75	7,782.7	2,945.2	-803.2	3,051.2	3.00	-3.00	0.00
8,500.0	9.71	344.75	7,880.8	2,964.0	-808.3	3,070.6	3.00	-3.00	0.00
8,600.0	6.71	344.75	7,979.8	2,977.8	-812.1	3,084.9	3.00	-3.00	0.00
8,700.0	3.71	344.75	8,079.3	2,986.5	-814.5	3,094.0	3.00	-3.00	0.00
8,800.0	0.71	344.75	8,179.3	2,990.3	-815.5	3,097.9	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b>									
8,823.7	0.00	0.00	8,203.0	2,990.4	-815.5	3,098.0	3.00	-3.00	0.00
8,900.0	1.14	250.00	8,279.3	2,990.1	-816.2	3,098.0	1.50	1.50	0.00
<b>EOB @ 1.36° Inc. / 250.00° Azm</b>									

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 12B-23 496 - Slot 12B-23
<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 12B-23 496	<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)
8,914.2	1.36	250.00	8,293.5	2,990.0	-816.5	3,098.0	1.50	1.50	0.00
9,000.0	1.36	250.00	8,379.2	2,989.3	-818.4	3,097.8	0.00	0.00	0.00
9,100.0	1.36	250.00	8,479.2	2,988.5	-820.7	3,097.7	0.00	0.00	0.00
9,200.0	1.36	250.00	8,579.2	2,987.7	-822.9	3,097.6	0.00	0.00	0.00
<b>Williams Fork</b>									
9,291.9	1.36	250.00	8,671.0	2,987.0	-824.9	3,097.5	0.00	0.00	0.00
9,300.0	1.36	250.00	8,679.1	2,986.9	-825.1	3,097.5	0.00	0.00	0.00
9,400.0	1.36	250.00	8,779.1	2,986.1	-827.4	3,097.4	0.00	0.00	0.00
9,500.0	1.36	250.00	8,879.1	2,985.3	-829.6	3,097.2	0.00	0.00	0.00
9,600.0	1.36	250.00	8,979.1	2,984.5	-831.8	3,097.1	0.00	0.00	0.00
9,700.0	1.36	250.00	9,079.0	2,983.7	-834.0	3,097.0	0.00	0.00	0.00
9,800.0	1.36	250.00	9,179.0	2,982.9	-836.3	3,096.9	0.00	0.00	0.00
9,900.0	1.36	250.00	9,279.0	2,982.1	-838.5	3,096.8	0.00	0.00	0.00
10,000.0	1.36	250.00	9,378.9	2,981.2	-840.7	3,096.7	0.00	0.00	0.00
10,100.0	1.36	250.00	9,478.9	2,980.4	-842.9	3,096.5	0.00	0.00	0.00
10,200.0	1.36	250.00	9,578.9	2,979.6	-845.2	3,096.4	0.00	0.00	0.00
10,300.0	1.36	250.00	9,678.9	2,978.8	-847.4	3,096.3	0.00	0.00	0.00
10,400.0	1.36	250.00	9,778.8	2,978.0	-849.6	3,096.2	0.00	0.00	0.00
10,500.0	1.36	250.00	9,878.8	2,977.2	-851.8	3,096.1	0.00	0.00	0.00
10,600.0	1.36	250.00	9,978.8	2,976.4	-854.1	3,095.9	0.00	0.00	0.00
10,700.0	1.36	250.00	10,078.8	2,975.6	-856.3	3,095.8	0.00	0.00	0.00
10,800.0	1.36	250.00	10,178.7	2,974.8	-858.5	3,095.7	0.00	0.00	0.00
10,900.0	1.36	250.00	10,278.7	2,973.9	-860.7	3,095.6	0.00	0.00	0.00
11,000.0	1.36	250.00	10,378.7	2,973.1	-863.0	3,095.5	0.00	0.00	0.00
11,100.0	1.36	250.00	10,478.6	2,972.3	-865.2	3,095.3	0.00	0.00	0.00
11,200.0	1.36	250.00	10,578.6	2,971.5	-867.4	3,095.2	0.00	0.00	0.00
11,300.0	1.36	250.00	10,678.6	2,970.7	-869.7	3,095.1	0.00	0.00	0.00
11,400.0	1.36	250.00	10,778.6	2,969.9	-871.9	3,095.0	0.00	0.00	0.00
11,500.0	1.36	250.00	10,878.5	2,969.1	-874.1	3,094.9	0.00	0.00	0.00
11,600.0	1.36	250.00	10,978.5	2,968.3	-876.3	3,094.7	0.00	0.00	0.00
11,700.0	1.36	250.00	11,078.5	2,967.5	-878.6	3,094.6	0.00	0.00	0.00
11,800.0	1.36	250.00	11,178.4	2,966.7	-880.8	3,094.5	0.00	0.00	0.00
11,900.0	1.36	250.00	11,278.4	2,965.8	-883.0	3,094.4	0.00	0.00	0.00
12,000.0	1.36	250.00	11,378.4	2,965.0	-885.2	3,094.3	0.00	0.00	0.00
<b>Cameo</b>									
12,089.6	1.36	250.00	11,468.0	2,964.3	-887.2	3,094.1	0.00	0.00	0.00
12,100.0	1.36	250.00	11,478.4	2,964.2	-887.5	3,094.1	0.00	0.00	0.00
12,200.0	1.36	250.00	11,578.3	2,963.4	-889.7	3,094.0	0.00	0.00	0.00
12,300.0	1.36	250.00	11,678.3	2,962.6	-891.9	3,093.9	0.00	0.00	0.00
12,400.0	1.36	250.00	11,778.3	2,961.8	-894.1	3,093.8	0.00	0.00	0.00
12,500.0	1.36	250.00	11,878.2	2,961.0	-896.4	3,093.7	0.00	0.00	0.00
<b>Rollins</b>									
12,589.8	1.36	250.00	11,968.0	2,960.3	-898.4	3,093.5	0.00	0.00	0.00
12,600.0	1.36	250.00	11,978.2	2,960.2	-898.6	3,093.5	0.00	0.00	0.00
12,700.0	1.36	250.00	12,078.2	2,959.4	-900.8	3,093.4	0.00	0.00	0.00
12,800.0	1.36	250.00	12,178.2	2,958.6	-903.0	3,093.3	0.00	0.00	0.00
12,900.0	1.36	250.00	12,278.1	2,957.7	-905.3	3,093.2	0.00	0.00	0.00
13,000.0	1.36	250.00	12,378.1	2,956.9	-907.5	3,093.1	0.00	0.00	0.00
<b>TD @ 13089.9' MD / 12468.0' TVD</b>									
13,089.9	1.36	250.00	12,468.0	2,956.2	-909.5	3,092.9	0.00	0.00	0.00

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<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 12B-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3		

#### 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 - 12B-23 - plan hits target center - Point	0.00	0.00	8,203.0	2,990.4	-815.5	14,426,957.28	2,444,191.13	39.692710	-108.142961
PBHL - 12B-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,468.0	2,956.2	-909.5	14,426,920.10	2,444,098.30	39.692616	-108.143295

#### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,828.5	3,577.0	Wasatch			
6,444.3	5,977.0	Wasatch G			
6,771.3	6,277.0	Fort Union			
8,823.7	8,203.0	Ohio Creek			
9,291.9	8,671.0	Williams Fork			
12,089.6	11,468.0	Cameo			
12,589.8	11,968.0	Rollins			

#### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
260.0	260.0	0.0	0.0	Build 3° / 100'
1,041.2	1,019.6	152.0	-41.5	EOB @ 23.44° Inc. / 344.75° Azm
8,042.6	7,443.4	2,838.4	-774.1	Drop 3° / 100'
8,823.7	8,203.0	2,990.4	-815.5	EOD @ Vertical / Build 1.5° / 100'
8,914.2	8,293.5	2,990.0	-816.5	EOB @ 1.36° Inc. / 250.00° Azm
13,089.9	12,468.0	2,956.2	-909.5	TD @ 13089.9' MD / 12468.0' TVD