

Project: Garfield County, CO  
Site: BJU M23A 496 Pad  
Well: BJU M23A FED 25B-23 496  
Wellbore: Wellbore #1  
Design: Design #2  
Latitude: 39.684217  
Longitude: -108.140164  
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 - 25B-23(0.0N, 0.0E)  
Measured Depth Reference: RKB @ 8134.0usft (30')  
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3436.0	3572.0	Wasatch
5836.0	6101.1	Wasatch G
6136.0	6417.3	Fort Union
8110.0	8475.6	Ohio Creek
8110.0	8475.6	TOG
8478.0	8843.6	William Fork
11418.0	11784.4	Cameo
11918.0	12284.6	Rollins

SECTION DETAILS

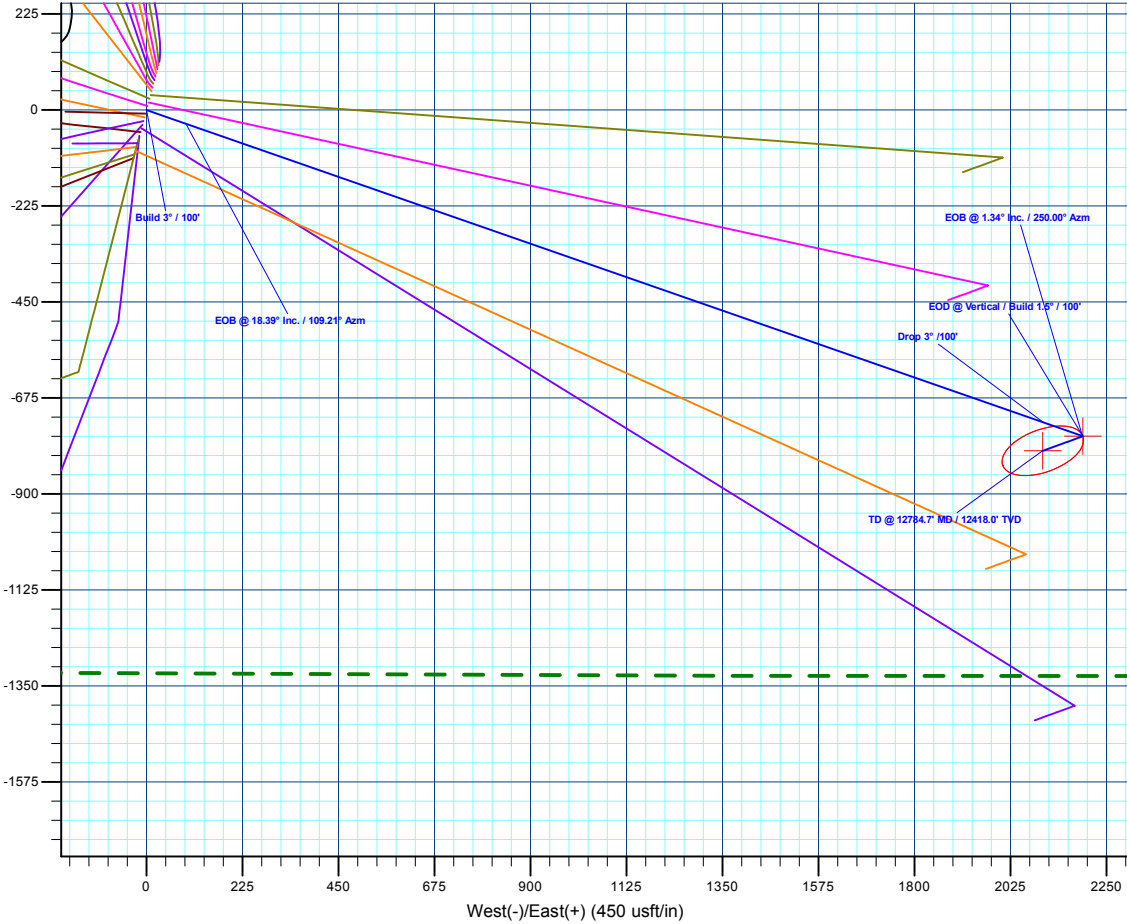
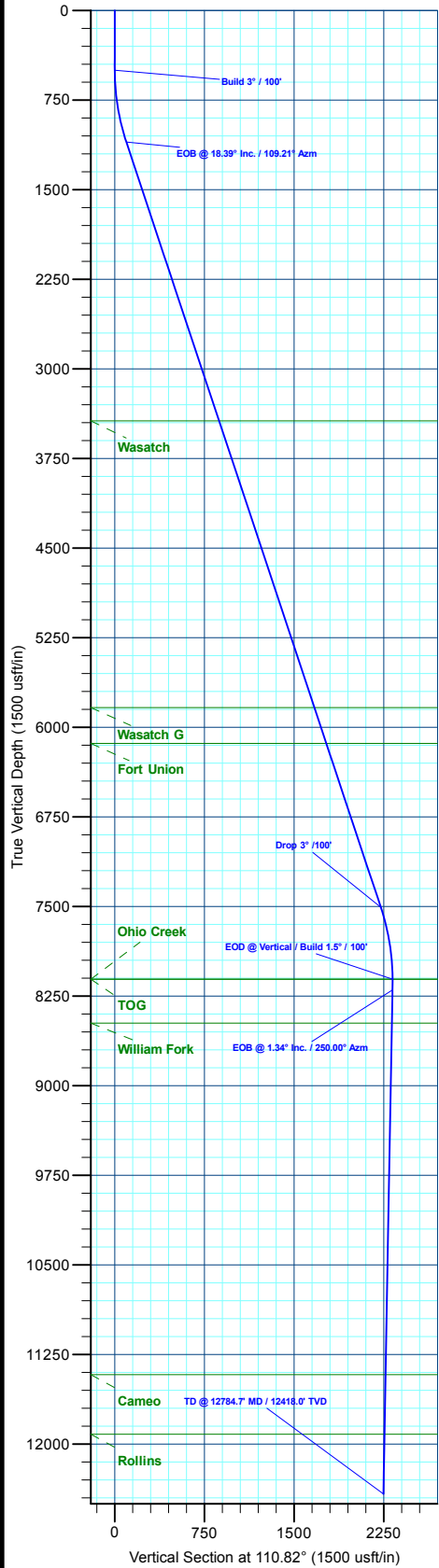
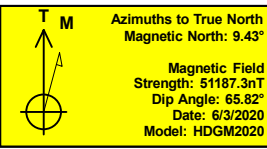
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1112.9	18.39	109.21	1102.5	-32.1	92.1	3.00	109.21	97.5	EOB @ 18.39° Inc. / 109.21° Azm
7862.6	18.39	109.21	7507.5	-732.7	2102.7	0.00	0.00	2225.8	Drop 3° / 100'
8475.6	0.00	0.00	8110.0	-764.8	2194.8	3.00	180.00	2323.3	EOD @ Vertical / Build 1.5° / 100'
8565.1	1.34	250.00	8199.6	-765.1	2193.8	1.50	250.00	2322.5	EOB @ 1.34° Inc. / 250.00° Azm
12784.7	1.34	250.00	12418.0	-799.0	2100.8	0.00	0.00	2247.6	TD @ 12784.7° MD / 12418.0° TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25B-23	8110.0	-764.8	2194.8	14423194.88	2447294.73	39.682118	-108.132369
PBHL - 25B-23	12418.0	-799.0	2100.8	14423157.70	2447201.90	39.682024	-108.132703

WELL DETAILS: BJU M23A FED 25B-23 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	25B-23
0.0	0.0		14423889.30	2445076.70	39.684217	-108.140164	



Plan: Design #2 (BJU M23A FED 25B-23 496/Wellbore #1)

Created By: Will Jircik Date: 16:08, July 18 2022



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 25B-23 496 - Slot 25B-23**

**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 25B-23 496 - Slot 25B-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 25B-23 496	<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 25B-23 496 - Slot 25B-23		
<b>Well Position</b>	<b>+N/-S</b>	-138.1 usft	<b>Northing:</b> 14,423,889.30 usft
	<b>+E/-W</b>	-37.3 usft	<b>Easting:</b> 2,445,076.70 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.684217
			<b>Longitude:</b> -108.140165
			<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	110.82	

<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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,112.9	18.39	109.21	1,102.5	-32.1	92.1	3.00	3.00	0.00	109.21	
7,862.6	18.39	109.21	7,507.5	-732.7	2,102.7	0.00	0.00	0.00	0.00	
8,475.6	0.00	0.00	8,110.0	-764.8	2,194.8	3.00	-3.00	0.00	180.00	OHCR - 25B-23
8,565.1	1.34	250.00	8,199.6	-765.1	2,193.8	1.50	1.50	-122.80	250.00	
12,784.7	1.34	250.00	12,418.0	-799.0	2,100.8	0.00	0.00	0.00	0.00	PBHL - 25B-23

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 25B-23 496 - Slot 25B-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 25B-23 496	<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	109.21	600.0	-0.9	2.5	2.6	3.00	3.00	0.00
700.0	6.00	109.21	699.6	-3.4	9.9	10.5	3.00	3.00	0.00
800.0	9.00	109.21	798.8	-7.7	22.2	23.5	3.00	3.00	0.00
900.0	12.00	109.21	897.1	-13.7	39.4	41.7	3.00	3.00	0.00
1,000.0	15.00	109.21	994.3	-21.4	61.5	65.1	3.00	3.00	0.00
1,100.0	18.00	109.21	1,090.2	-30.8	88.3	93.4	3.00	3.00	0.00
<b>EOB @ 18.39° Inc. / 109.21° Azm</b>									
1,112.9	18.39	109.21	1,102.5	-32.1	92.1	97.5	3.00	3.00	0.00
1,200.0	18.39	109.21	1,185.1	-41.1	118.0	124.9	0.00	0.00	0.00
1,300.0	18.39	109.21	1,280.0	-51.5	147.8	156.5	0.00	0.00	0.00
1,400.0	18.39	109.21	1,374.9	-61.9	177.6	188.0	0.00	0.00	0.00
1,500.0	18.39	109.21	1,469.8	-72.3	207.4	219.5	0.00	0.00	0.00
1,600.0	18.39	109.21	1,564.7	-82.6	237.2	251.1	0.00	0.00	0.00
1,700.0	18.39	109.21	1,659.6	-93.0	267.0	282.6	0.00	0.00	0.00
1,800.0	18.39	109.21	1,754.5	-103.4	296.7	314.1	0.00	0.00	0.00
1,900.0	18.39	109.21	1,849.3	-113.8	326.5	345.7	0.00	0.00	0.00
2,000.0	18.39	109.21	1,944.2	-124.2	356.3	377.2	0.00	0.00	0.00
2,100.0	18.39	109.21	2,039.1	-134.5	386.1	408.7	0.00	0.00	0.00
2,200.0	18.39	109.21	2,134.0	-144.9	415.9	440.3	0.00	0.00	0.00
2,300.0	18.39	109.21	2,228.9	-155.3	445.7	471.8	0.00	0.00	0.00
2,400.0	18.39	109.21	2,323.8	-165.7	475.5	503.3	0.00	0.00	0.00
2,500.0	18.39	109.21	2,418.7	-176.1	505.3	534.8	0.00	0.00	0.00
2,600.0	18.39	109.21	2,513.6	-186.4	535.1	566.4	0.00	0.00	0.00
2,700.0	18.39	109.21	2,608.5	-196.8	564.8	597.9	0.00	0.00	0.00
2,800.0	18.39	109.21	2,703.4	-207.2	594.6	629.4	0.00	0.00	0.00
2,900.0	18.39	109.21	2,798.3	-217.6	624.4	661.0	0.00	0.00	0.00
3,000.0	18.39	109.21	2,893.2	-228.0	654.2	692.5	0.00	0.00	0.00
3,100.0	18.39	109.21	2,988.1	-238.3	684.0	724.0	0.00	0.00	0.00
3,200.0	18.39	109.21	3,083.0	-248.7	713.8	755.6	0.00	0.00	0.00
3,300.0	18.39	109.21	3,177.9	-259.1	743.6	787.1	0.00	0.00	0.00
3,400.0	18.39	109.21	3,272.8	-269.5	773.4	818.6	0.00	0.00	0.00
3,500.0	18.39	109.21	3,367.7	-279.9	803.1	850.2	0.00	0.00	0.00
<b>Wasatch</b>									
3,572.0	18.39	109.21	3,436.0	-287.3	824.6	872.9	0.00	0.00	0.00
3,600.0	18.39	109.21	3,462.6	-290.2	832.9	881.7	0.00	0.00	0.00
3,700.0	18.39	109.21	3,557.4	-300.6	862.7	913.2	0.00	0.00	0.00
3,800.0	18.39	109.21	3,652.3	-311.0	892.5	944.8	0.00	0.00	0.00
3,900.0	18.39	109.21	3,747.2	-321.4	922.3	976.3	0.00	0.00	0.00
4,000.0	18.39	109.21	3,842.1	-331.8	952.1	1,007.8	0.00	0.00	0.00
4,100.0	18.39	109.21	3,937.0	-342.1	981.9	1,039.4	0.00	0.00	0.00
4,200.0	18.39	109.21	4,031.9	-352.5	1,011.7	1,070.9	0.00	0.00	0.00
4,300.0	18.39	109.21	4,126.8	-362.9	1,041.4	1,102.4	0.00	0.00	0.00
4,400.0	18.39	109.21	4,221.7	-373.3	1,071.2	1,134.0	0.00	0.00	0.00
4,500.0	18.39	109.21	4,316.6	-383.7	1,101.0	1,165.5	0.00	0.00	0.00
4,600.0	18.39	109.21	4,411.5	-394.0	1,130.8	1,197.0	0.00	0.00	0.00
4,700.0	18.39	109.21	4,506.4	-404.4	1,160.6	1,228.6	0.00	0.00	0.00

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<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 25B-23 496	<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	18.39	109.21	4,601.3	-414.8	1,190.4	1,260.1	0.00	0.00	0.00
4,900.0	18.39	109.21	4,696.2	-425.2	1,220.2	1,291.6	0.00	0.00	0.00
5,000.0	18.39	109.21	4,791.1	-435.6	1,250.0	1,323.2	0.00	0.00	0.00
5,100.0	18.39	109.21	4,886.0	-445.9	1,279.7	1,354.7	0.00	0.00	0.00
5,200.0	18.39	109.21	4,980.9	-456.3	1,309.5	1,386.2	0.00	0.00	0.00
5,300.0	18.39	109.21	5,075.8	-466.7	1,339.3	1,417.7	0.00	0.00	0.00
5,400.0	18.39	109.21	5,170.6	-477.1	1,369.1	1,449.3	0.00	0.00	0.00
5,500.0	18.39	109.21	5,265.5	-487.5	1,398.9	1,480.8	0.00	0.00	0.00
5,600.0	18.39	109.21	5,360.4	-497.8	1,428.7	1,512.3	0.00	0.00	0.00
5,700.0	18.39	109.21	5,455.3	-508.2	1,458.5	1,543.9	0.00	0.00	0.00
5,800.0	18.39	109.21	5,550.2	-518.6	1,488.3	1,575.4	0.00	0.00	0.00
5,900.0	18.39	109.21	5,645.1	-529.0	1,518.1	1,606.9	0.00	0.00	0.00
6,000.0	18.39	109.21	5,740.0	-539.4	1,547.8	1,638.5	0.00	0.00	0.00
6,100.0	18.39	109.21	5,834.9	-549.7	1,577.6	1,670.0	0.00	0.00	0.00
<b>Wasatch G</b>									
6,101.1	18.39	109.21	5,836.0	-549.9	1,578.0	1,670.4	0.00	0.00	0.00
6,200.0	18.39	109.21	5,929.8	-560.1	1,607.4	1,701.5	0.00	0.00	0.00
6,300.0	18.39	109.21	6,024.7	-570.5	1,637.2	1,733.1	0.00	0.00	0.00
6,400.0	18.39	109.21	6,119.6	-580.9	1,667.0	1,764.6	0.00	0.00	0.00
<b>Fort Union</b>									
6,417.3	18.39	109.21	6,136.0	-582.7	1,672.1	1,770.1	0.00	0.00	0.00
6,500.0	18.39	109.21	6,214.5	-591.3	1,696.8	1,796.1	0.00	0.00	0.00
6,600.0	18.39	109.21	6,309.4	-601.6	1,726.6	1,827.7	0.00	0.00	0.00
6,700.0	18.39	109.21	6,404.3	-612.0	1,756.4	1,859.2	0.00	0.00	0.00
6,800.0	18.39	109.21	6,499.2	-622.4	1,786.1	1,890.7	0.00	0.00	0.00
6,900.0	18.39	109.21	6,594.1	-632.8	1,815.9	1,922.3	0.00	0.00	0.00
7,000.0	18.39	109.21	6,689.0	-643.2	1,845.7	1,953.8	0.00	0.00	0.00
7,100.0	18.39	109.21	6,783.9	-653.5	1,875.5	1,985.3	0.00	0.00	0.00
7,200.0	18.39	109.21	6,878.7	-663.9	1,905.3	2,016.9	0.00	0.00	0.00
7,300.0	18.39	109.21	6,973.6	-674.3	1,935.1	2,048.4	0.00	0.00	0.00
7,400.0	18.39	109.21	7,068.5	-684.7	1,964.9	2,079.9	0.00	0.00	0.00
7,500.0	18.39	109.21	7,163.4	-695.1	1,994.7	2,111.5	0.00	0.00	0.00
7,600.0	18.39	109.21	7,258.3	-705.4	2,024.4	2,143.0	0.00	0.00	0.00
7,700.0	18.39	109.21	7,353.2	-715.8	2,054.2	2,174.5	0.00	0.00	0.00
7,800.0	18.39	109.21	7,448.1	-726.2	2,084.0	2,206.1	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
7,862.6	18.39	109.21	7,507.5	-732.7	2,102.7	2,225.8	0.00	0.00	0.00
7,900.0	17.27	109.21	7,543.1	-736.5	2,113.5	2,237.2	3.00	-3.00	0.00
8,000.0	14.27	109.21	7,639.3	-745.4	2,139.1	2,264.4	3.00	-3.00	0.00
8,100.0	11.27	109.21	7,736.9	-752.7	2,160.0	2,286.5	3.00	-3.00	0.00
8,200.0	8.27	109.21	7,835.4	-758.3	2,176.0	2,303.4	3.00	-3.00	0.00
8,300.0	5.27	109.21	7,934.7	-762.1	2,187.1	2,315.2	3.00	-3.00	0.00
8,400.0	2.27	109.21	8,034.5	-764.3	2,193.3	2,321.8	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG</b>									
8,475.6	0.00	0.00	8,110.0	-764.8	2,194.8	2,323.3	3.00	-3.00	0.00
8,500.0	0.37	250.00	8,134.4	-764.8	2,194.7	2,323.2	1.50	1.50	0.00
<b>EOB @ 1.34° Inc. / 250.00° Azm</b>									
8,565.1	1.34	250.00	8,199.6	-765.1	2,193.8	2,322.5	1.50	1.50	0.00
8,600.0	1.34	250.00	8,234.4	-765.4	2,193.0	2,321.9	0.00	0.00	0.00
8,700.0	1.34	250.00	8,334.4	-766.2	2,190.8	2,320.1	0.00	0.00	0.00
8,800.0	1.34	250.00	8,434.4	-767.0	2,188.6	2,318.3	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 25B-23 496 - Slot 25B-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 25B-23 496	<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)
8,843.6	1.34	250.00	8,478.0	-767.4	2,187.6	2,317.5	0.00	0.00	0.00
8,900.0	1.34	250.00	8,534.3	-767.8	2,186.4	2,316.5	0.00	0.00	0.00
9,000.0	1.34	250.00	8,634.3	-768.6	2,184.2	2,314.8	0.00	0.00	0.00
9,100.0	1.34	250.00	8,734.3	-769.4	2,182.0	2,313.0	0.00	0.00	0.00
9,200.0	1.34	250.00	8,834.3	-770.2	2,179.8	2,311.2	0.00	0.00	0.00
9,300.0	1.34	250.00	8,934.2	-771.0	2,177.6	2,309.4	0.00	0.00	0.00
9,400.0	1.34	250.00	9,034.2	-771.8	2,175.4	2,307.7	0.00	0.00	0.00
9,500.0	1.34	250.00	9,134.2	-772.6	2,173.2	2,305.9	0.00	0.00	0.00
9,600.0	1.34	250.00	9,234.2	-773.4	2,171.0	2,304.1	0.00	0.00	0.00
9,700.0	1.34	250.00	9,334.1	-774.2	2,168.8	2,302.3	0.00	0.00	0.00
9,800.0	1.34	250.00	9,434.1	-775.1	2,166.6	2,300.6	0.00	0.00	0.00
9,900.0	1.34	250.00	9,534.1	-775.9	2,164.4	2,298.8	0.00	0.00	0.00
10,000.0	1.34	250.00	9,634.0	-776.7	2,162.2	2,297.0	0.00	0.00	0.00
10,100.0	1.34	250.00	9,734.0	-777.5	2,160.0	2,295.2	0.00	0.00	0.00
10,200.0	1.34	250.00	9,834.0	-778.3	2,157.7	2,293.5	0.00	0.00	0.00
10,300.0	1.34	250.00	9,934.0	-779.1	2,155.5	2,291.7	0.00	0.00	0.00
10,400.0	1.34	250.00	10,033.9	-779.9	2,153.3	2,289.9	0.00	0.00	0.00
10,500.0	1.34	250.00	10,133.9	-780.7	2,151.1	2,288.1	0.00	0.00	0.00
10,600.0	1.34	250.00	10,233.9	-781.5	2,148.9	2,286.4	0.00	0.00	0.00
10,700.0	1.34	250.00	10,333.9	-782.3	2,146.7	2,284.6	0.00	0.00	0.00
10,800.0	1.34	250.00	10,433.8	-783.1	2,144.5	2,282.8	0.00	0.00	0.00
10,900.0	1.34	250.00	10,533.8	-783.9	2,142.3	2,281.0	0.00	0.00	0.00
11,000.0	1.34	250.00	10,633.8	-784.7	2,140.1	2,279.3	0.00	0.00	0.00
11,100.0	1.34	250.00	10,733.7	-785.5	2,137.9	2,277.5	0.00	0.00	0.00
11,200.0	1.34	250.00	10,833.7	-786.3	2,135.7	2,275.7	0.00	0.00	0.00
11,300.0	1.34	250.00	10,933.7	-787.1	2,133.5	2,273.9	0.00	0.00	0.00
11,400.0	1.34	250.00	11,033.7	-787.9	2,131.3	2,272.2	0.00	0.00	0.00
11,500.0	1.34	250.00	11,133.6	-788.7	2,129.1	2,270.4	0.00	0.00	0.00
11,600.0	1.34	250.00	11,233.6	-789.5	2,126.9	2,268.6	0.00	0.00	0.00
11,700.0	1.34	250.00	11,333.6	-790.3	2,124.7	2,266.9	0.00	0.00	0.00
<b>Cameo</b>									
11,784.4	1.34	250.00	11,418.0	-791.0	2,122.8	2,265.4	0.00	0.00	0.00
11,800.0	1.34	250.00	11,433.5	-791.1	2,122.5	2,265.1	0.00	0.00	0.00
11,900.0	1.34	250.00	11,533.5	-791.9	2,120.3	2,263.3	0.00	0.00	0.00
12,000.0	1.34	250.00	11,633.5	-792.7	2,118.1	2,261.5	0.00	0.00	0.00
12,100.0	1.34	250.00	11,733.5	-793.5	2,115.9	2,259.8	0.00	0.00	0.00
12,200.0	1.34	250.00	11,833.4	-794.3	2,113.7	2,258.0	0.00	0.00	0.00
<b>Rollins</b>									
12,284.6	1.34	250.00	11,918.0	-795.0	2,111.8	2,256.5	0.00	0.00	0.00
12,300.0	1.34	250.00	11,933.4	-795.1	2,111.5	2,256.2	0.00	0.00	0.00
12,400.0	1.34	250.00	12,033.4	-795.9	2,109.3	2,254.4	0.00	0.00	0.00
12,500.0	1.34	250.00	12,133.4	-796.7	2,107.1	2,252.7	0.00	0.00	0.00
12,600.0	1.34	250.00	12,233.3	-797.5	2,104.9	2,250.9	0.00	0.00	0.00
12,700.0	1.34	250.00	12,333.3	-798.3	2,102.7	2,249.1	0.00	0.00	0.00
<b>TD @ 12784.7' MD / 12418.0' TVD</b>									
12,784.7	1.34	250.00	12,418.0	-799.0	2,100.8	2,247.6	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 25B-23 496 - Slot 25B-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 25B-23 496	<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 - 25B-23 - plan hits target center - Point	0.00	0.00	8,110.0	-764.8	2,194.8	14,423,194.88	2,447,294.73	39.682118	-108.132370
PBHL - 25B-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,418.0	-799.0	2,100.8	14,423,157.70	2,447,201.90	39.682024	-108.132703

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,572.0	3,436.0	Wasatch			
6,101.1	5,836.0	Wasatch G			
6,417.3	6,136.0	Fort Union			
8,475.6	8,110.0	Ohio Creek			
8,475.6	8,110.0	TOG			
8,843.6	8,478.0	William Fork			
11,784.4	11,418.0	Cameo			
12,284.6	11,918.0	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'
1,112.9	1,102.5	-32.1	92.1	EOB @ 18.39° Inc. / 109.21° Azm
7,862.6	7,507.5	-732.7	2,102.7	Drop 3° / 100'
8,475.6	8,110.0	-764.8	2,194.8	EOD @ Vertical / Build 1.5° / 100'
8,565.1	8,199.6	-765.1	2,193.8	EOB @ 1.34° Inc. / 250.00° Azm
12,784.7	12,418.0	-799.0	2,100.8	TD @ 12784.7' MD / 12418.0' TVD