

Project: Garfield County, CO  
 Site: BJU M23A 496 Pad  
 Well: BJU M23A FED 13C-23 496  
 Wellbore: Wellbore #1  
 Design: Design #2  
 Latitude: 39.684384  
 Longitude: -108.140106  
 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 - 13C-23(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8134.0usft (30')  
 Calculation Method: Minimum Curvature

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3394.0	3435.3	Wasatch
5794.0	5874.0	Wasatch G
6094.0	6176.8	Fort Union
8125.0	8238.9	Ohio Creek
8125.0	8238.9	TOG
8509.0	8623.0	William Fork
11319.0	11433.8	Cameo
11819.0	11934.0	Rollins

#### SECTION DETAILS

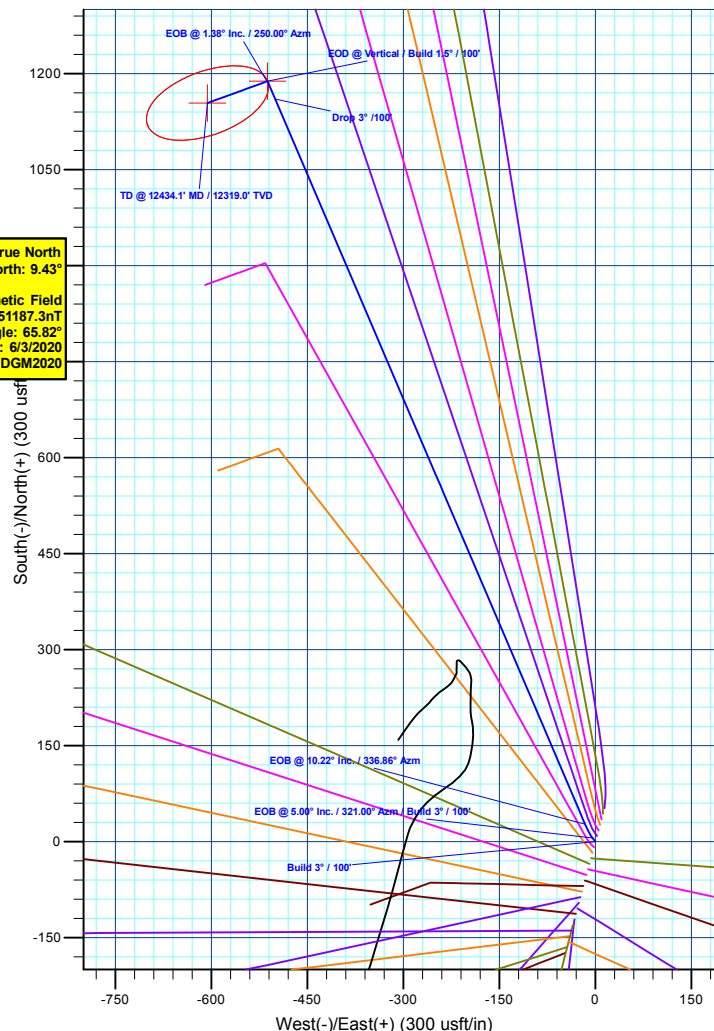
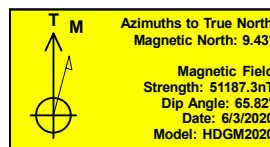
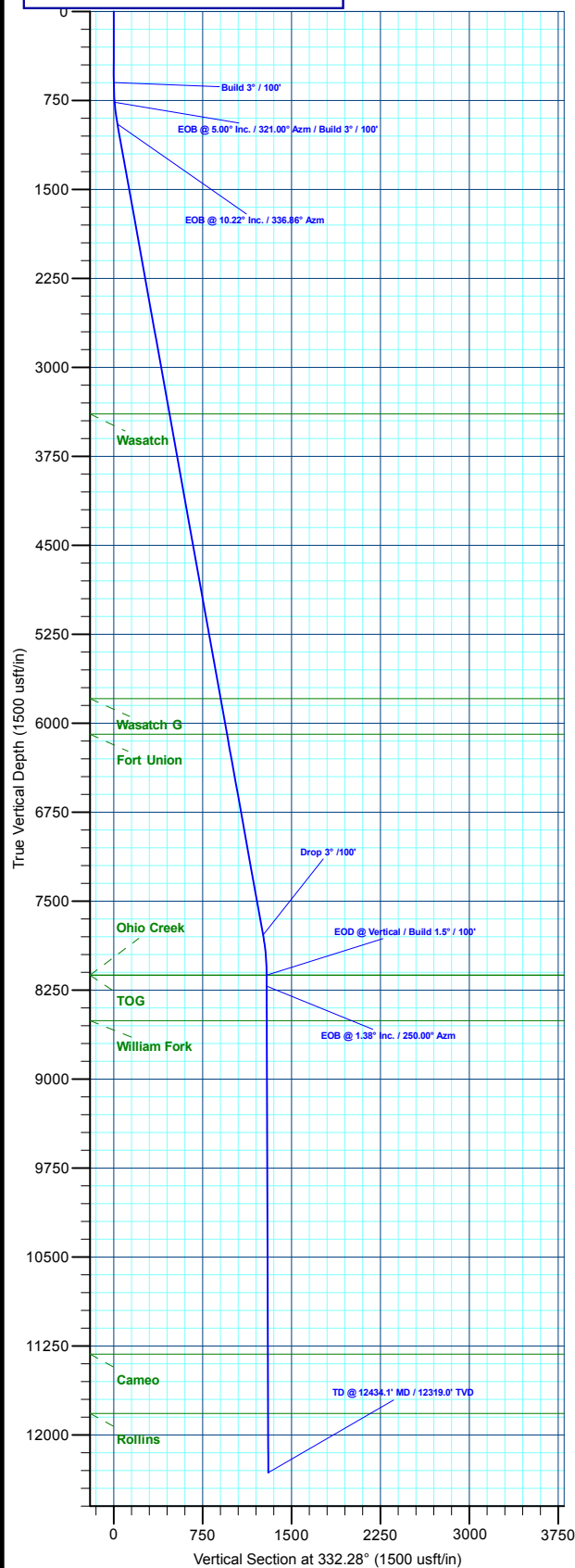
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
766.7	5.00	321.00	766.5	5.6	-4.6	3.00	321.00	7.1	EOB @ 5.00° Inc. / 321.00° Azm / Build 3° / 100'
952.6	10.22	336.86	950.7	27.1	-16.2	3.00	29.92	31.5	EOB @ 10.22° Inc. / 336.86° Azm
7898.2	10.22	336.86	7786.1	1160.4	-500.4	0.00	0.00	1260.0	Drop 3° / 100'
8238.9	0.00	0.00	8125.0	1188.2	-512.3	3.00	180.00	1290.2	EOD @ Vertical / Build 1.5° / 100'
8331.0	1.38	250.00	8217.1	1187.8	-513.4	1.50	250.00	1290.3	EOB @ 1.38° Inc. / 250.00° Azm
12434.1	1.38	250.00	12319.0	1154.0	-606.3	0.00	0.00	1303.6	TD @ 12434.1' MD / 12319.0' TVD

#### DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
OHCR - 13C-23	8125.0	1188.2	-512.3	14425121.88	2444541.23	39.687644	-108.141926
PBHL - 13C-23	12319.0	1154.0	-606.3	14425084.70	2444448.40	39.687551	-108.142260

#### WELL DETAILS: BJU M23A FED 13C-23 496

+N-S	+E-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423950.60	2445091.20	39.684384	-108.140106



Plan: Design #2 (BJU M23A FED 13C-23 496/Wellbore #1)

Created By: Will Jircik

Date: 14:45, July 18 2022



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 13C-23 496 - Slot 13C-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 13C-23 496 - Slot 13C-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 13C-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 13C-23 496 - Slot 13C-23		
<b>Well Position</b>	<b>+N/-S</b>	-77.3 usft	<b>Northing:</b> 14,423,950.60 usft
	<b>+E/-W</b>	-20.9 usft	<b>Easting:</b> 2,445,091.20 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.684384
			<b>Longitude:</b> -108.140106
			<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	332.28	

<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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
766.7	5.00	321.00	766.5	5.6	-4.6	3.00	3.00	0.00	321.00	
952.6	10.22	336.86	950.7	27.1	-16.2	3.00	2.81	8.53	29.92	
7,898.2	10.22	336.86	7,786.1	1,160.4	-500.4	0.00	0.00	0.00	0.00	
8,238.9	0.00	0.00	8,125.0	1,188.2	-512.3	3.00	-3.00	0.00	180.00	OHCR - 13C-23
8,331.0	1.38	250.00	8,217.1	1,187.8	-513.4	1.50	1.50	-119.48	250.00	
12,434.1	1.38	250.00	12,319.0	1,154.0	-606.3	0.00	0.00	0.00	0.00	PBHL - 13C-23

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 13C-23 496 - Slot 13C-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 13C-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
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	3.00	321.00	700.0	2.0	-1.6	2.6	3.00	3.00	0.00
<b>EOB @ 5.00° Inc. / 321.00° Azm / Build 3° / 100'</b>									
766.7	5.00	321.00	766.5	5.6	-4.6	7.1	3.00	3.00	0.00
800.0	5.89	325.87	799.6	8.2	-6.4	10.3	3.00	2.66	14.61
900.0	8.70	334.30	898.8	19.3	-12.6	22.9	3.00	2.81	8.43
<b>EOB @ 10.22° Inc. / 336.86° Azm</b>									
952.6	10.22	336.86	950.7	27.1	-16.2	31.5	3.00	2.89	4.86
1,000.0	10.22	336.86	997.4	34.9	-19.5	39.9	0.00	0.00	0.00
1,100.0	10.22	336.86	1,095.8	51.2	-26.4	57.6	0.00	0.00	0.00
1,200.0	10.22	336.86	1,194.2	67.5	-33.4	75.3	0.00	0.00	0.00
1,300.0	10.22	336.86	1,292.6	83.8	-40.4	93.0	0.00	0.00	0.00
1,400.0	10.22	336.86	1,391.0	100.1	-47.4	110.7	0.00	0.00	0.00
1,500.0	10.22	336.86	1,489.4	116.4	-54.3	128.3	0.00	0.00	0.00
1,600.0	10.22	336.86	1,587.8	132.8	-61.3	146.0	0.00	0.00	0.00
1,700.0	10.22	336.86	1,686.2	149.1	-68.3	163.7	0.00	0.00	0.00
1,800.0	10.22	336.86	1,784.7	165.4	-75.2	181.4	0.00	0.00	0.00
1,900.0	10.22	336.86	1,883.1	181.7	-82.2	199.1	0.00	0.00	0.00
2,000.0	10.22	336.86	1,981.5	198.0	-89.2	216.8	0.00	0.00	0.00
2,100.0	10.22	336.86	2,079.9	214.3	-96.2	234.5	0.00	0.00	0.00
2,200.0	10.22	336.86	2,178.3	230.7	-103.1	252.2	0.00	0.00	0.00
2,300.0	10.22	336.86	2,276.7	247.0	-110.1	269.8	0.00	0.00	0.00
2,400.0	10.22	336.86	2,375.1	263.3	-117.1	287.5	0.00	0.00	0.00
2,500.0	10.22	336.86	2,473.6	279.6	-124.1	305.2	0.00	0.00	0.00
2,600.0	10.22	336.86	2,572.0	295.9	-131.0	322.9	0.00	0.00	0.00
2,700.0	10.22	336.86	2,670.4	312.2	-138.0	340.6	0.00	0.00	0.00
2,800.0	10.22	336.86	2,768.8	328.5	-145.0	358.3	0.00	0.00	0.00
2,900.0	10.22	336.86	2,867.2	344.9	-151.9	376.0	0.00	0.00	0.00
3,000.0	10.22	336.86	2,965.6	361.2	-158.9	393.6	0.00	0.00	0.00
3,100.0	10.22	336.86	3,064.0	377.5	-165.9	411.3	0.00	0.00	0.00
3,200.0	10.22	336.86	3,162.4	393.8	-172.9	429.0	0.00	0.00	0.00
3,300.0	10.22	336.86	3,260.9	410.1	-179.8	446.7	0.00	0.00	0.00
3,400.0	10.22	336.86	3,359.3	426.4	-186.8	464.4	0.00	0.00	0.00
<b>Wasatch</b>									
3,435.3	10.22	336.86	3,394.0	432.2	-189.3	470.6	0.00	0.00	0.00
3,500.0	10.22	336.86	3,457.7	442.8	-193.8	482.1	0.00	0.00	0.00
3,600.0	10.22	336.86	3,556.1	459.1	-200.7	499.8	0.00	0.00	0.00
3,700.0	10.22	336.86	3,654.5	475.4	-207.7	517.5	0.00	0.00	0.00
3,800.0	10.22	336.86	3,752.9	491.7	-214.7	535.1	0.00	0.00	0.00
3,900.0	10.22	336.86	3,851.3	508.0	-221.7	552.8	0.00	0.00	0.00
4,000.0	10.22	336.86	3,949.8	524.3	-228.6	570.5	0.00	0.00	0.00
4,100.0	10.22	336.86	4,048.2	540.6	-235.6	588.2	0.00	0.00	0.00
4,200.0	10.22	336.86	4,146.6	557.0	-242.6	605.9	0.00	0.00	0.00
4,300.0	10.22	336.86	4,245.0	573.3	-249.6	623.6	0.00	0.00	0.00
4,400.0	10.22	336.86	4,343.4	589.6	-256.5	641.3	0.00	0.00	0.00
4,500.0	10.22	336.86	4,441.8	605.9	-263.5	658.9	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 13C-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)
4,600.0	10.22	336.86	4,540.2	622.2	-270.5	676.6	0.00	0.00	0.00
4,700.0	10.22	336.86	4,638.6	638.5	-277.4	694.3	0.00	0.00	0.00
4,800.0	10.22	336.86	4,737.1	654.9	-284.4	712.0	0.00	0.00	0.00
4,900.0	10.22	336.86	4,835.5	671.2	-291.4	729.7	0.00	0.00	0.00
5,000.0	10.22	336.86	4,933.9	687.5	-298.4	747.4	0.00	0.00	0.00
5,100.0	10.22	336.86	5,032.3	703.8	-305.3	765.1	0.00	0.00	0.00
5,200.0	10.22	336.86	5,130.7	720.1	-312.3	782.7	0.00	0.00	0.00
5,300.0	10.22	336.86	5,229.1	736.4	-319.3	800.4	0.00	0.00	0.00
5,400.0	10.22	336.86	5,327.5	752.8	-326.3	818.1	0.00	0.00	0.00
5,500.0	10.22	336.86	5,426.0	769.1	-333.2	835.8	0.00	0.00	0.00
5,600.0	10.22	336.86	5,524.4	785.4	-340.2	853.5	0.00	0.00	0.00
5,700.0	10.22	336.86	5,622.8	801.7	-347.2	871.2	0.00	0.00	0.00
5,800.0	10.22	336.86	5,721.2	818.0	-354.1	888.9	0.00	0.00	0.00
<b>Wasatch G</b>									
5,874.0	10.22	336.86	5,794.0	830.1	-359.3	901.9	0.00	0.00	0.00
5,900.0	10.22	336.86	5,819.6	834.3	-361.1	906.6	0.00	0.00	0.00
6,000.0	10.22	336.86	5,918.0	850.6	-368.1	924.2	0.00	0.00	0.00
6,100.0	10.22	336.86	6,016.4	867.0	-375.1	941.9	0.00	0.00	0.00
<b>Fort Union</b>									
6,178.8	10.22	336.86	6,094.0	879.8	-380.6	955.9	0.00	0.00	0.00
6,200.0	10.22	336.86	6,114.8	883.3	-382.0	959.6	0.00	0.00	0.00
6,300.0	10.22	336.86	6,213.3	899.6	-389.0	977.3	0.00	0.00	0.00
6,400.0	10.22	336.86	6,311.7	915.9	-396.0	995.0	0.00	0.00	0.00
6,500.0	10.22	336.86	6,410.1	932.2	-402.9	1,012.7	0.00	0.00	0.00
6,600.0	10.22	336.86	6,508.5	948.5	-409.9	1,030.4	0.00	0.00	0.00
6,700.0	10.22	336.86	6,606.9	964.9	-416.9	1,048.0	0.00	0.00	0.00
6,800.0	10.22	336.86	6,705.3	981.2	-423.9	1,065.7	0.00	0.00	0.00
6,900.0	10.22	336.86	6,803.7	997.5	-430.8	1,083.4	0.00	0.00	0.00
7,000.0	10.22	336.86	6,902.2	1,013.8	-437.8	1,101.1	0.00	0.00	0.00
7,100.0	10.22	336.86	7,000.6	1,030.1	-444.8	1,118.8	0.00	0.00	0.00
7,200.0	10.22	336.86	7,099.0	1,046.4	-451.8	1,136.5	0.00	0.00	0.00
7,300.0	10.22	336.86	7,197.4	1,062.7	-458.7	1,154.2	0.00	0.00	0.00
7,400.0	10.22	336.86	7,295.8	1,079.1	-465.7	1,171.8	0.00	0.00	0.00
7,500.0	10.22	336.86	7,394.2	1,095.4	-472.7	1,189.5	0.00	0.00	0.00
7,600.0	10.22	336.86	7,492.6	1,111.7	-479.6	1,207.2	0.00	0.00	0.00
7,700.0	10.22	336.86	7,591.0	1,128.0	-486.6	1,224.9	0.00	0.00	0.00
7,800.0	10.22	336.86	7,689.5	1,144.3	-493.6	1,242.6	0.00	0.00	0.00
<b>Drop 3° / 100'</b>									
7,898.2	10.22	336.86	7,786.1	1,160.4	-500.4	1,260.0	0.00	0.00	0.00
7,900.0	10.17	336.86	7,787.9	1,160.6	-500.6	1,260.3	3.00	-3.00	0.00
8,000.0	7.17	336.86	7,886.7	1,174.5	-506.5	1,275.3	3.00	-3.00	0.00
8,100.0	4.17	336.86	7,986.2	1,183.6	-510.4	1,285.1	3.00	-3.00	0.00
8,200.0	1.17	336.86	8,086.1	1,187.9	-512.2	1,289.8	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG</b>									
8,238.9	0.00	0.00	8,125.0	1,188.2	-512.3	1,290.2	3.00	-3.00	0.00
8,300.0	0.92	250.00	8,186.1	1,188.1	-512.8	1,290.2	1.50	1.50	0.00
<b>EOB @ 1.38° Inc. / 250.00° Azm</b>									
8,331.0	1.38	250.00	8,217.1	1,187.8	-513.4	1,290.3	1.50	1.50	0.00
8,400.0	1.38	250.00	8,286.1	1,187.3	-514.9	1,290.5	0.00	0.00	0.00
8,500.0	1.38	250.00	8,386.0	1,186.4	-517.2	1,290.9	0.00	0.00	0.00
8,600.0	1.38	250.00	8,486.0	1,185.6	-519.5	1,291.2	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 13C-23 496 - Slot 13C-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 13C-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)
8,623.0	1.38	250.00	8,509.0	1,185.4	-520.0	1,291.3	0.00	0.00	0.00
8,700.0	1.38	250.00	8,586.0	1,184.8	-521.7	1,291.5	0.00	0.00	0.00
8,800.0	1.38	250.00	8,686.0	1,184.0	-524.0	1,291.8	0.00	0.00	0.00
8,900.0	1.38	250.00	8,785.9	1,183.2	-526.3	1,292.2	0.00	0.00	0.00
9,000.0	1.38	250.00	8,885.9	1,182.3	-528.5	1,292.5	0.00	0.00	0.00
9,100.0	1.38	250.00	8,985.9	1,181.5	-530.8	1,292.8	0.00	0.00	0.00
9,200.0	1.38	250.00	9,085.8	1,180.7	-533.1	1,293.1	0.00	0.00	0.00
9,300.0	1.38	250.00	9,185.8	1,179.9	-535.3	1,293.5	0.00	0.00	0.00
9,400.0	1.38	250.00	9,285.8	1,179.0	-537.6	1,293.8	0.00	0.00	0.00
9,500.0	1.38	250.00	9,385.7	1,178.2	-539.9	1,294.1	0.00	0.00	0.00
9,600.0	1.38	250.00	9,485.7	1,177.4	-542.1	1,294.4	0.00	0.00	0.00
9,700.0	1.38	250.00	9,585.7	1,176.6	-544.4	1,294.8	0.00	0.00	0.00
9,800.0	1.38	250.00	9,685.7	1,175.7	-546.7	1,295.1	0.00	0.00	0.00
9,900.0	1.38	250.00	9,785.6	1,174.9	-548.9	1,295.4	0.00	0.00	0.00
10,000.0	1.38	250.00	9,885.6	1,174.1	-551.2	1,295.7	0.00	0.00	0.00
10,100.0	1.38	250.00	9,985.6	1,173.3	-553.4	1,296.0	0.00	0.00	0.00
10,200.0	1.38	250.00	10,085.5	1,172.4	-555.7	1,296.4	0.00	0.00	0.00
10,300.0	1.38	250.00	10,185.5	1,171.6	-558.0	1,296.7	0.00	0.00	0.00
10,400.0	1.38	250.00	10,285.5	1,170.8	-560.2	1,297.0	0.00	0.00	0.00
10,500.0	1.38	250.00	10,385.5	1,170.0	-562.5	1,297.3	0.00	0.00	0.00
10,600.0	1.38	250.00	10,485.4	1,169.1	-564.8	1,297.7	0.00	0.00	0.00
10,700.0	1.38	250.00	10,585.4	1,168.3	-567.0	1,298.0	0.00	0.00	0.00
10,800.0	1.38	250.00	10,685.4	1,167.5	-569.3	1,298.3	0.00	0.00	0.00
10,900.0	1.38	250.00	10,785.3	1,166.7	-571.6	1,298.6	0.00	0.00	0.00
11,000.0	1.38	250.00	10,885.3	1,165.8	-573.8	1,299.0	0.00	0.00	0.00
11,100.0	1.38	250.00	10,985.3	1,165.0	-576.1	1,299.3	0.00	0.00	0.00
11,200.0	1.38	250.00	11,085.3	1,164.2	-578.4	1,299.6	0.00	0.00	0.00
11,300.0	1.38	250.00	11,185.2	1,163.4	-580.6	1,299.9	0.00	0.00	0.00
11,400.0	1.38	250.00	11,285.2	1,162.5	-582.9	1,300.3	0.00	0.00	0.00
<b>Cameo</b>									
11,433.8	1.38	250.00	11,319.0	1,162.3	-583.7	1,300.4	0.00	0.00	0.00
11,500.0	1.38	250.00	11,385.2	1,161.7	-585.2	1,300.6	0.00	0.00	0.00
11,600.0	1.38	250.00	11,485.1	1,160.9	-587.4	1,300.9	0.00	0.00	0.00
11,700.0	1.38	250.00	11,585.1	1,160.1	-589.7	1,301.2	0.00	0.00	0.00
11,800.0	1.38	250.00	11,685.1	1,159.2	-592.0	1,301.5	0.00	0.00	0.00
11,900.0	1.38	250.00	11,785.1	1,158.4	-594.2	1,301.9	0.00	0.00	0.00
<b>Rollins</b>									
11,934.0	1.38	250.00	11,819.0	1,158.1	-595.0	1,302.0	0.00	0.00	0.00
12,000.0	1.38	250.00	11,885.0	1,157.6	-596.5	1,302.2	0.00	0.00	0.00
12,100.0	1.38	250.00	11,985.0	1,156.8	-598.7	1,302.5	0.00	0.00	0.00
12,200.0	1.38	250.00	12,085.0	1,155.9	-601.0	1,302.8	0.00	0.00	0.00
12,300.0	1.38	250.00	12,184.9	1,155.1	-603.3	1,303.2	0.00	0.00	0.00
12,400.0	1.38	250.00	12,284.9	1,154.3	-605.5	1,303.5	0.00	0.00	0.00
<b>TD @ 12434.1' MD / 12319.0' TVD</b>									
12,434.1	1.38	250.00	12,319.0	1,154.0	-606.3	1,303.6	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 13C-23 496 - Slot 13C-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 13C-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 - 13C-23 - plan hits target center - Point	0.00	0.00	8,125.0	1,188.2	-512.3	14,425,121.88	2,444,541.23	39.687645	-108.141926
PBHL - 13C-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,319.0	1,154.0	-606.3	14,425,084.70	2,444,448.40	39.687551	-108.142260

#### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,435.3	3,394.0	Wasatch			
5,874.0	5,794.0	Wasatch G			
6,178.8	6,094.0	Fort Union			
8,238.9	8,125.0	Ohio Creek			
8,238.9	8,125.0	TOG			
8,623.0	8,509.0	William Fork			
11,433.8	11,319.0	Cameo			
11,934.0	11,819.0	Rollins			

#### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.0	600.0	0.0	0.0	Build 3° / 100'
766.7	766.5	5.6	-4.6	EOB @ 5.00° Inc. / 321.00° Azm / Build 3° / 100'
952.6	950.7	27.1	-16.2	EOB @ 10.22° Inc. / 336.86° Azm
7,898.2	7,786.1	1,160.4	-500.4	Drop 3° / 100'
8,238.9	8,125.0	1,188.2	-512.3	EOD @ Vertical / Build 1.5° / 100'
8,331.0	8,217.1	1,187.8	-513.4	EOB @ 1.38° Inc. / 250.00° Azm
12,434.1	12,319.0	1,154.0	-606.3	TD @ 12434.1' MD / 12319.0' TVD