

Project: Garfield County, CO  
Site: BJU M23A 496 Pad  
Well: BJU M23A FED 13D-23 496  
Wellbore: Wellbore #1  
Design: Design #1  
Latitude: 39.684431  
Longitude: -108.140126  
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 - BJU M23A FED 13D-23 496(0.0N, 0.0E)  
Measured Depth Reference: RKB @ 8134.0usft (30')  
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3383.0	3409.0	Wasatch
5783.0	5832.1	Wasatch G
6083.0	6135.0	Fort Union
8124.0	8193.9	Ohio Creek
8124.0	8193.9	TOG
8502.0	8572.0	William Fork
11317.0	11388.0	Cameo
11817.0	11888.2	Rollins

SECTION DETAILS

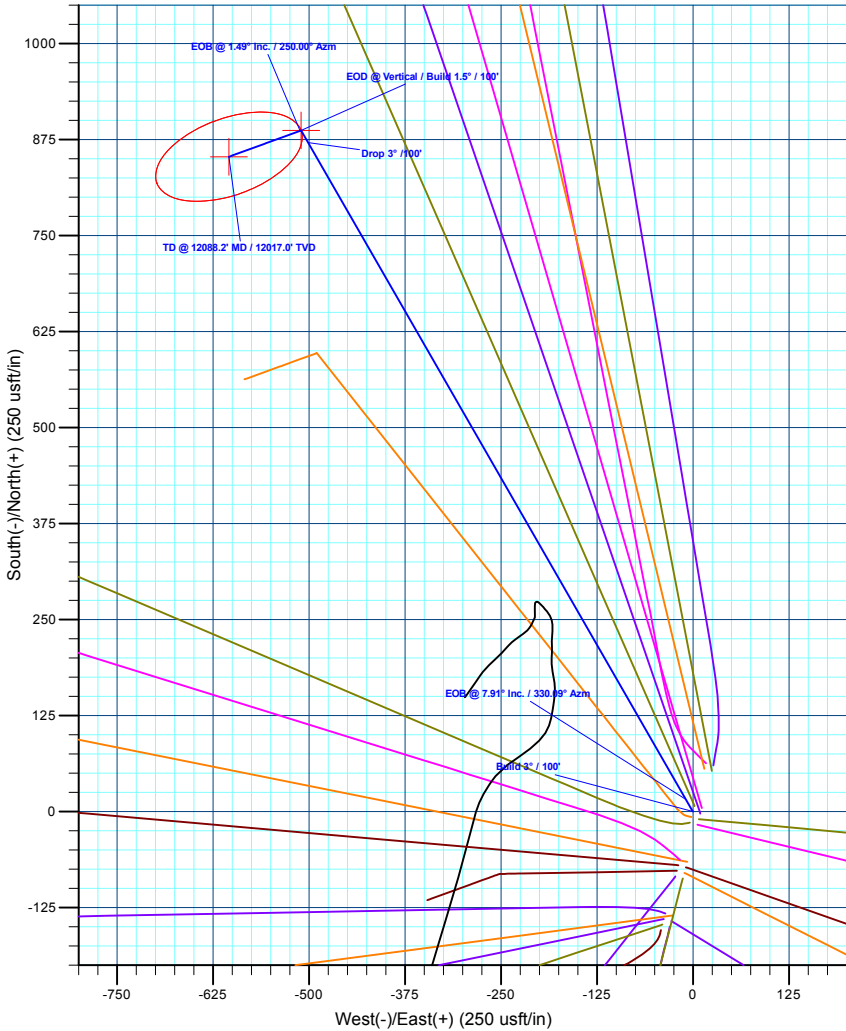
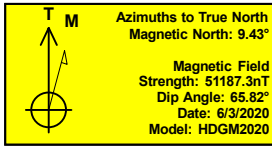
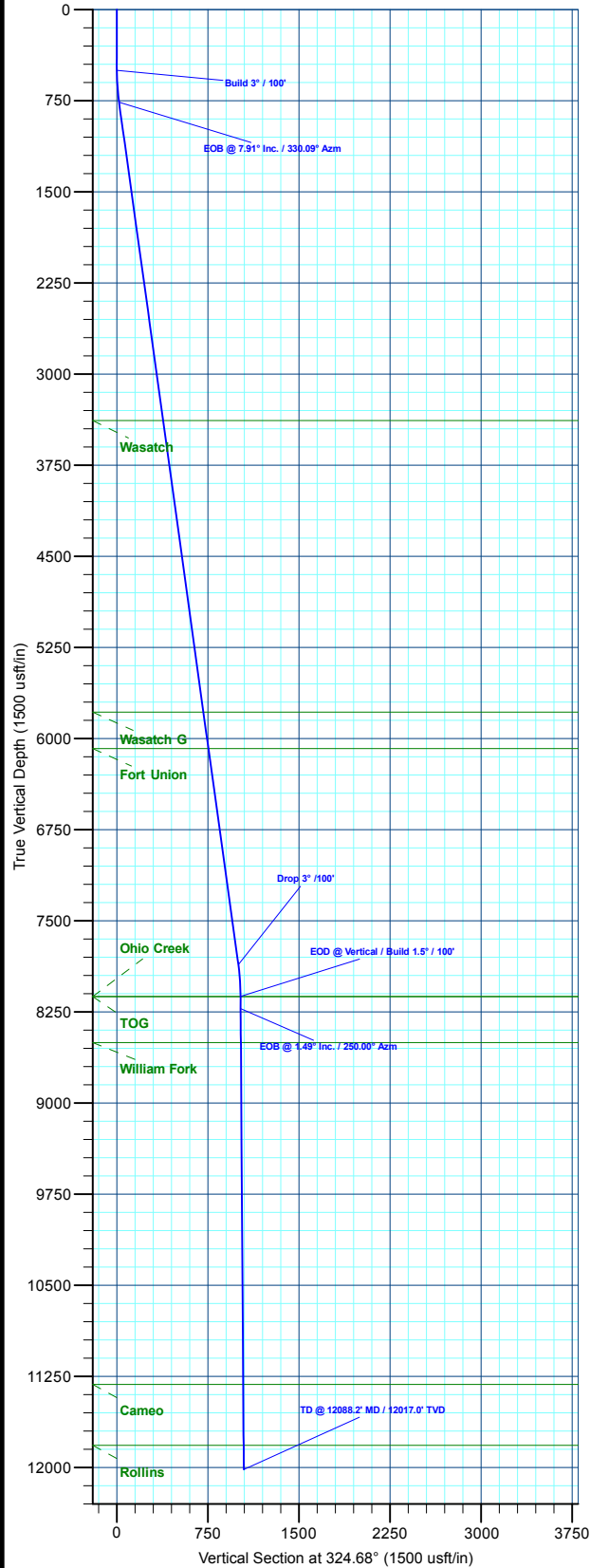
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
763.8	7.91	330.09	763.0	15.8	-9.1	3.00	330.09	18.1	EOB @ 7.91° Inc. / 330.09° Azm
7930.1	7.91	330.09	7861.0	871.1	-501.1	0.00	0.00	1000.5	Drop 3° / 100'
8193.9	0.00	0.00	8124.0	886.9	-510.2	3.00	180.00	1018.6	EOD @ Vertical / Build 1.5° / 100'
8293.3	1.49	250.00	8223.4	886.5	-511.4	1.50	250.00	1018.9	EOB @ 1.49° Inc. / 250.00° Azm
12088.2	1.49	250.00	12017.0	852.7	-604.1	0.00	0.00	1045.0	TD @ 12088.2' MD / 12017.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 13D-23	8124.0	886.9	-510.2	14424837.68	2444546.73	39.686864	-108.141938
PBHL - 13D-23	12017.0	852.7	-604.1	14424800.50	2444453.90	39.686771	-108.142272

WELL DETAILS: BJU M23A FED 13D-23 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423967.50	2445084.90	39.684431	-108.140126



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

Created By: Will Jircik

Date: 19:10, June 04 2020



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 13D-23 496 - Slot BJU M23A FED 13D-23 496**

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**04 June, 2020**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 13D-23 496 - Slot BJU M23A FED 13D-23 496
<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 13D-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<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 13D-23 496 - Slot BJU M23A FED 13D-23 496		
<b>Well Position</b>	<b>+N/-S</b>	-60.2 usft	<b>Northing:</b> 14,423,967.50 usft
	<b>+E/-W</b>	-26.6 usft	<b>Easting:</b> 2,445,084.90 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.684431
			<b>Longitude:</b> -108.140127
			<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 #1				
<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	324.68	

<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	
763.8	7.91	330.09	763.0	15.8	-9.1	3.00	3.00	0.00	330.09	
7,930.1	7.91	330.09	7,861.0	871.1	-501.1	0.00	0.00	0.00	0.00	
8,193.9	0.00	0.00	8,124.0	886.9	-510.2	3.00	-3.00	0.00	180.00	OHCR - 13D-23
8,293.3	1.49	250.00	8,223.4	886.5	-511.4	1.50	1.50	-110.71	250.00	
12,088.2	1.49	250.00	12,017.0	852.7	-604.1	0.00	0.00	0.00	0.00	PBHL - 13D-23

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BJU M23A FED 13D-23 496 - Slot BJU M23A FED 13D-23 496
<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 13D-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**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	330.09	600.0	2.3	-1.3	2.6	3.00	3.00	0.00
700.0	6.00	330.09	699.6	9.1	-5.2	10.4	3.00	3.00	0.00
<b>EOB @ 7.91° Inc. / 330.09° Azm</b>									
763.8	7.91	330.09	763.0	15.8	-9.1	18.1	3.00	3.00	0.00
800.0	7.91	330.09	798.8	20.1	-11.6	23.1	0.00	0.00	0.00
900.0	7.91	330.09	897.9	32.0	-18.4	36.8	0.00	0.00	0.00
1,000.0	7.91	330.09	996.9	44.0	-25.3	50.5	0.00	0.00	0.00
1,100.0	7.91	330.09	1,096.0	55.9	-32.2	64.2	0.00	0.00	0.00
1,200.0	7.91	330.09	1,195.0	67.8	-39.0	77.9	0.00	0.00	0.00
1,300.0	7.91	330.09	1,294.1	79.8	-45.9	91.6	0.00	0.00	0.00
1,400.0	7.91	330.09	1,393.1	91.7	-52.7	105.3	0.00	0.00	0.00
1,500.0	7.91	330.09	1,492.1	103.6	-59.6	119.0	0.00	0.00	0.00
1,600.0	7.91	330.09	1,591.2	115.6	-66.5	132.7	0.00	0.00	0.00
1,700.0	7.91	330.09	1,690.2	127.5	-73.3	146.4	0.00	0.00	0.00
1,800.0	7.91	330.09	1,789.3	139.4	-80.2	160.2	0.00	0.00	0.00
1,900.0	7.91	330.09	1,888.3	151.4	-87.1	173.9	0.00	0.00	0.00
2,000.0	7.91	330.09	1,987.4	163.3	-93.9	187.6	0.00	0.00	0.00
2,100.0	7.91	330.09	2,086.4	175.3	-100.8	201.3	0.00	0.00	0.00
2,200.0	7.91	330.09	2,185.5	187.2	-107.7	215.0	0.00	0.00	0.00
2,300.0	7.91	330.09	2,284.5	199.1	-114.5	228.7	0.00	0.00	0.00
2,400.0	7.91	330.09	2,383.6	211.1	-121.4	242.4	0.00	0.00	0.00
2,500.0	7.91	330.09	2,482.6	223.0	-128.3	256.1	0.00	0.00	0.00
2,600.0	7.91	330.09	2,581.7	234.9	-135.1	269.8	0.00	0.00	0.00
2,700.0	7.91	330.09	2,680.7	246.9	-142.0	283.5	0.00	0.00	0.00
2,800.0	7.91	330.09	2,779.8	258.8	-148.9	297.2	0.00	0.00	0.00
2,900.0	7.91	330.09	2,878.8	270.7	-155.7	310.9	0.00	0.00	0.00
3,000.0	7.91	330.09	2,977.9	282.7	-162.6	324.7	0.00	0.00	0.00
3,100.0	7.91	330.09	3,076.9	294.6	-169.5	338.4	0.00	0.00	0.00
3,200.0	7.91	330.09	3,176.0	306.5	-176.3	352.1	0.00	0.00	0.00
3,300.0	7.91	330.09	3,275.0	318.5	-183.2	365.8	0.00	0.00	0.00
3,400.0	7.91	330.09	3,374.1	330.4	-190.1	379.5	0.00	0.00	0.00
<b>Wasatch</b>									
3,409.0	7.91	330.09	3,383.0	331.5	-190.7	380.7	0.00	0.00	0.00
3,500.0	7.91	330.09	3,473.1	342.4	-196.9	393.2	0.00	0.00	0.00
3,600.0	7.91	330.09	3,572.1	354.3	-203.8	406.9	0.00	0.00	0.00
3,700.0	7.91	330.09	3,671.2	366.2	-210.7	420.6	0.00	0.00	0.00
3,800.0	7.91	330.09	3,770.2	378.2	-217.5	434.3	0.00	0.00	0.00
3,900.0	7.91	330.09	3,869.3	390.1	-224.4	448.0	0.00	0.00	0.00
4,000.0	7.91	330.09	3,968.3	402.0	-231.3	461.7	0.00	0.00	0.00
4,100.0	7.91	330.09	4,067.4	414.0	-238.1	475.4	0.00	0.00	0.00
4,200.0	7.91	330.09	4,166.4	425.9	-245.0	489.2	0.00	0.00	0.00
4,300.0	7.91	330.09	4,265.5	437.8	-251.9	502.9	0.00	0.00	0.00
4,400.0	7.91	330.09	4,364.5	449.8	-258.7	516.6	0.00	0.00	0.00
4,500.0	7.91	330.09	4,463.6	461.7	-265.6	530.3	0.00	0.00	0.00
4,600.0	7.91	330.09	4,562.6	473.7	-272.4	544.0	0.00	0.00	0.00
4,700.0	7.91	330.09	4,661.7	485.6	-279.3	557.7	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 13D-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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	7.91	330.09	4,760.7	497.5	-286.2	571.4	0.00	0.00	0.00
4,900.0	7.91	330.09	4,859.8	509.5	-293.0	585.1	0.00	0.00	0.00
5,000.0	7.91	330.09	4,958.8	521.4	-299.9	598.8	0.00	0.00	0.00
5,100.0	7.91	330.09	5,057.9	533.3	-306.8	612.5	0.00	0.00	0.00
5,200.0	7.91	330.09	5,156.9	545.3	-313.6	626.2	0.00	0.00	0.00
5,300.0	7.91	330.09	5,256.0	557.2	-320.5	639.9	0.00	0.00	0.00
5,400.0	7.91	330.09	5,355.0	569.1	-327.4	653.7	0.00	0.00	0.00
5,500.0	7.91	330.09	5,454.0	581.1	-334.2	667.4	0.00	0.00	0.00
5,600.0	7.91	330.09	5,553.1	593.0	-341.1	681.1	0.00	0.00	0.00
5,700.0	7.91	330.09	5,652.1	604.9	-348.0	694.8	0.00	0.00	0.00
5,800.0	7.91	330.09	5,751.2	616.9	-354.8	708.5	0.00	0.00	0.00
<b>Wasatch G</b>									
5,832.1	7.91	330.09	5,783.0	620.7	-357.0	712.9	0.00	0.00	0.00
5,900.0	7.91	330.09	5,850.2	628.8	-361.7	722.2	0.00	0.00	0.00
6,000.0	7.91	330.09	5,949.3	640.8	-368.6	735.9	0.00	0.00	0.00
6,100.0	7.91	330.09	6,048.3	652.7	-375.4	749.6	0.00	0.00	0.00
<b>Fort Union</b>									
6,135.0	7.91	330.09	6,083.0	656.9	-377.8	754.4	0.00	0.00	0.00
6,200.0	7.91	330.09	6,147.4	664.6	-382.3	763.3	0.00	0.00	0.00
6,300.0	7.91	330.09	6,246.4	676.6	-389.2	777.0	0.00	0.00	0.00
6,400.0	7.91	330.09	6,345.5	688.5	-396.0	790.7	0.00	0.00	0.00
6,500.0	7.91	330.09	6,444.5	700.4	-402.9	804.4	0.00	0.00	0.00
6,600.0	7.91	330.09	6,543.6	712.4	-409.8	818.1	0.00	0.00	0.00
6,700.0	7.91	330.09	6,642.6	724.3	-416.6	831.9	0.00	0.00	0.00
6,800.0	7.91	330.09	6,741.7	736.2	-423.5	845.6	0.00	0.00	0.00
6,900.0	7.91	330.09	6,840.7	748.2	-430.4	859.3	0.00	0.00	0.00
7,000.0	7.91	330.09	6,939.8	760.1	-437.2	873.0	0.00	0.00	0.00
7,100.0	7.91	330.09	7,038.8	772.0	-444.1	886.7	0.00	0.00	0.00
7,200.0	7.91	330.09	7,137.9	784.0	-451.0	900.4	0.00	0.00	0.00
7,300.0	7.91	330.09	7,236.9	795.9	-457.8	914.1	0.00	0.00	0.00
7,400.0	7.91	330.09	7,335.9	807.9	-464.7	927.8	0.00	0.00	0.00
7,500.0	7.91	330.09	7,435.0	819.8	-471.5	941.5	0.00	0.00	0.00
7,600.0	7.91	330.09	7,534.0	831.7	-478.4	955.2	0.00	0.00	0.00
7,700.0	7.91	330.09	7,633.1	843.7	-485.3	968.9	0.00	0.00	0.00
7,800.0	7.91	330.09	7,732.1	855.6	-492.1	982.6	0.00	0.00	0.00
7,900.0	7.91	330.09	7,831.2	867.5	-499.0	996.4	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
7,930.1	7.91	330.09	7,861.0	871.1	-501.1	1,000.5	0.00	0.00	0.00
8,000.0	5.82	330.09	7,930.4	878.4	-505.2	1,008.8	3.00	-3.00	0.00
8,100.0	2.82	330.09	8,030.1	884.9	-509.0	1,016.3	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG</b>									
8,193.9	0.00	0.00	8,124.0	886.9	-510.2	1,018.6	3.00	-3.00	0.00
8,200.0	0.09	250.00	8,130.1	886.9	-510.2	1,018.6	1.50	1.50	0.00
<b>EOB @ 1.49° Inc. / 250.00° Azm</b>									
8,293.3	1.49	250.00	8,223.4	886.5	-511.4	1,018.9	1.50	1.50	0.00
8,300.0	1.49	250.00	8,230.0	886.4	-511.5	1,019.0	0.00	0.00	0.00
8,400.0	1.49	250.00	8,330.0	885.5	-514.0	1,019.7	0.00	0.00	0.00
8,500.0	1.49	250.00	8,430.0	884.6	-516.4	1,020.4	0.00	0.00	0.00
<b>William Fork</b>									
8,572.0	1.49	250.00	8,502.0	884.0	-518.2	1,020.9	0.00	0.00	0.00
8,600.0	1.49	250.00	8,529.9	883.7	-518.9	1,021.0	0.00	0.00	0.00
8,700.0	1.49	250.00	8,629.9	882.8	-521.3	1,021.7	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 13D-23 496 - Slot BJU M23A FED 13D-23 496
<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 13D-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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)
8,800.0	1.49	250.00	8,729.9	881.9	-523.7	1,022.4	0.00	0.00	0.00
8,900.0	1.49	250.00	8,829.8	881.1	-526.2	1,023.1	0.00	0.00	0.00
9,000.0	1.49	250.00	8,929.8	880.2	-528.6	1,023.8	0.00	0.00	0.00
9,100.0	1.49	250.00	9,029.8	879.3	-531.1	1,024.5	0.00	0.00	0.00
9,200.0	1.49	250.00	9,129.7	878.4	-533.5	1,025.2	0.00	0.00	0.00
9,300.0	1.49	250.00	9,229.7	877.5	-536.0	1,025.9	0.00	0.00	0.00
9,400.0	1.49	250.00	9,329.7	876.6	-538.4	1,026.5	0.00	0.00	0.00
9,500.0	1.49	250.00	9,429.6	875.7	-540.9	1,027.2	0.00	0.00	0.00
9,600.0	1.49	250.00	9,529.6	874.8	-543.3	1,027.9	0.00	0.00	0.00
9,700.0	1.49	250.00	9,629.6	873.9	-545.7	1,028.6	0.00	0.00	0.00
9,800.0	1.49	250.00	9,729.5	873.1	-548.2	1,029.3	0.00	0.00	0.00
9,900.0	1.49	250.00	9,829.5	872.2	-550.6	1,030.0	0.00	0.00	0.00
10,000.0	1.49	250.00	9,929.5	871.3	-553.1	1,030.7	0.00	0.00	0.00
10,100.0	1.49	250.00	10,029.4	870.4	-555.5	1,031.4	0.00	0.00	0.00
10,200.0	1.49	250.00	10,129.4	869.5	-558.0	1,032.0	0.00	0.00	0.00
10,300.0	1.49	250.00	10,229.4	868.6	-560.4	1,032.7	0.00	0.00	0.00
10,400.0	1.49	250.00	10,329.3	867.7	-562.9	1,033.4	0.00	0.00	0.00
10,500.0	1.49	250.00	10,429.3	866.8	-565.3	1,034.1	0.00	0.00	0.00
10,600.0	1.49	250.00	10,529.3	865.9	-567.7	1,034.8	0.00	0.00	0.00
10,700.0	1.49	250.00	10,629.2	865.0	-570.2	1,035.5	0.00	0.00	0.00
10,800.0	1.49	250.00	10,729.2	864.2	-572.6	1,036.2	0.00	0.00	0.00
10,900.0	1.49	250.00	10,829.2	863.3	-575.1	1,036.8	0.00	0.00	0.00
11,000.0	1.49	250.00	10,929.1	862.4	-577.5	1,037.5	0.00	0.00	0.00
11,100.0	1.49	250.00	11,029.1	861.5	-580.0	1,038.2	0.00	0.00	0.00
11,200.0	1.49	250.00	11,129.1	860.6	-582.4	1,038.9	0.00	0.00	0.00
11,300.0	1.49	250.00	11,229.0	859.7	-584.9	1,039.6	0.00	0.00	0.00
<b>Cameo</b>									
11,388.0	1.49	250.00	11,317.0	858.9	-587.0	1,040.2	0.00	0.00	0.00
11,400.0	1.49	250.00	11,329.0	858.8	-587.3	1,040.3	0.00	0.00	0.00
11,500.0	1.49	250.00	11,429.0	857.9	-589.7	1,041.0	0.00	0.00	0.00
11,600.0	1.49	250.00	11,528.9	857.0	-592.2	1,041.7	0.00	0.00	0.00
11,700.0	1.49	250.00	11,628.9	856.1	-594.6	1,042.3	0.00	0.00	0.00
11,800.0	1.49	250.00	11,728.9	855.3	-597.1	1,043.0	0.00	0.00	0.00
<b>Rollins</b>									
11,888.2	1.49	250.00	11,817.0	854.5	-599.2	1,043.6	0.00	0.00	0.00
11,900.0	1.49	250.00	11,828.8	854.4	-599.5	1,043.7	0.00	0.00	0.00
12,000.0	1.49	250.00	11,928.8	853.5	-602.0	1,044.4	0.00	0.00	0.00
<b>TD @ 12088.2' MD / 12017.0' TVD</b>									
12,088.2	1.49	250.00	12,017.0	852.7	-604.1	1,045.0	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 13D-23 496 - Slot BJU M23A FED 13D-23 496
<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 13D-23 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

### 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 - 13D-23 - plan hits target center - Point	0.00	0.00	8,124.0	886.9	-510.2	14,424,837.68	2,444,546.73	39.686865	-108.141939
PBHL - 13D-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,017.0	852.7	-604.1	14,424,800.50	2,444,453.90	39.686771	-108.142272

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,409.0	3,383.0	Wasatch			
5,832.1	5,783.0	Wasatch G			
6,135.0	6,083.0	Fort Union			
8,193.9	8,124.0	Ohio Creek			
8,193.9	8,124.0	TOG			
8,572.0	8,502.0	William Fork			
11,388.0	11,317.0	Cameo			
11,888.2	11,817.0	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'
763.8	763.0	15.8	-9.1	EOB @ 7.91° Inc. / 330.09° Azm
7,930.1	7,861.0	871.1	-501.1	Drop 3° / 100'
8,193.9	8,124.0	886.9	-510.2	EOD @ Vertical / Build 1.5° / 100'
8,293.3	8,223.4	886.5	-511.4	EOB @ 1.49° Inc. / 250.00° Azm
12,088.2	12,017.0	852.7	-604.1	TD @ 12088.2' MD / 12017.0' TVD