

Project: Garfield County, CO  
 Site: BJU M23A 496 Pad  
 Well: BJU M23A FED 13D-23 496  
 Wellbore: Wellbore #1  
 Design: Design #2  
 Latitude: 39.684360  
 Longitude: -108.140114  
 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 - 13D-23(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8134.0usft (30')  
 Calculation Method: Minimum Curvature

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3383.0	3409.8	Wasatch
5783.0	5835.1	Wasatch G
6083.0	6138.3	Fort Union
8124.0	8198.9	Ohio Creek
8124.0	8198.9	TOG
8502.0	8577.0	William Fork
11317.0	11392.8	Cameo
11817.0	11892.9	Rollins

## SECTION DETAILS

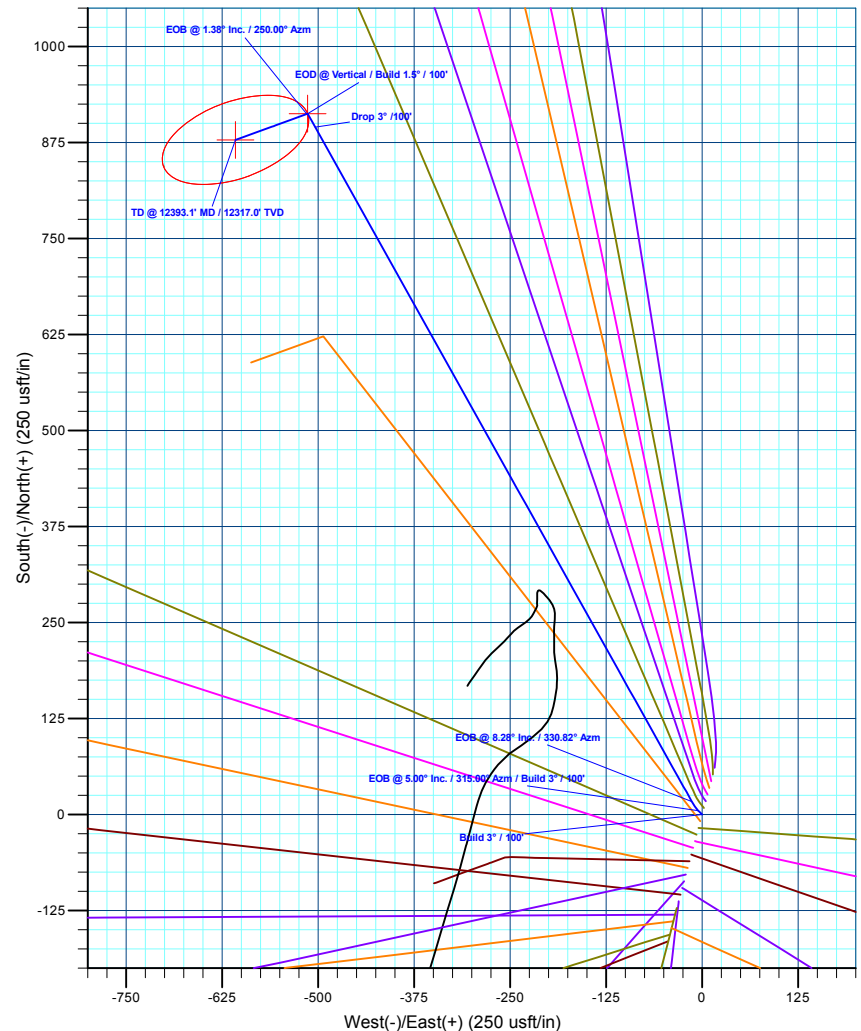
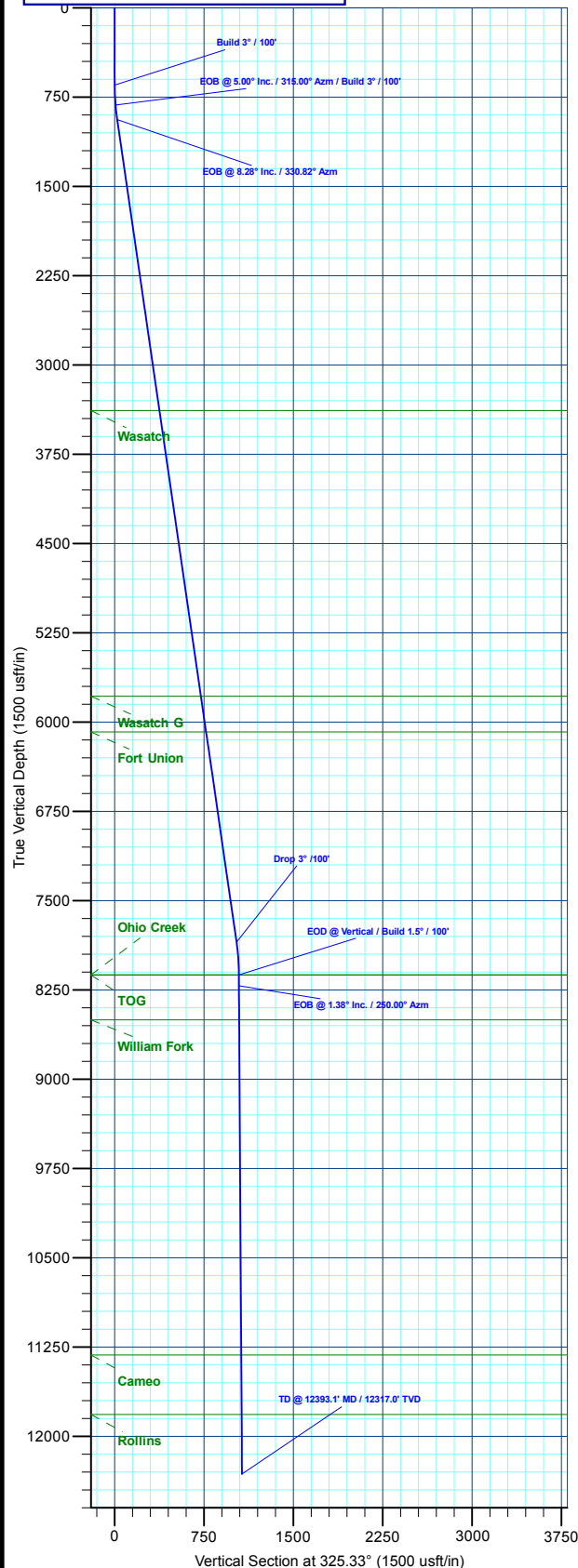
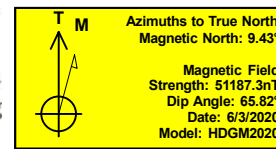
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.00° Inc. / 315.00° Azm / Build 3° / 100'
816.7	5.00	315.00	816.5	5.1	-5.1	3.00	315.00	7.1	EOB @ 8.28° Inc. / 330.82° Azm
941.0	8.29	330.82	940.0	16.8	-13.3	3.00	37.14	21.4	Drop 3° / 100'
7922.7	8.29	330.82	7848.8	895.2	-503.8	0.00	0.00	1022.9	EOD @ Vertical / Build 1.5° / 100'
8198.9	0.00	0.00	8124.0	912.6	-513.5	3.00	180.00	1042.7	EOB @ 1.38° Inc. / 250.00° Azm
8291.0	1.38	250.00	8216.1	912.2	-514.6	1.50	250.00	1043.0	TD @ 12393.1' MD / 12317.0' TVD
12393.1	1.38	250.00	12317.0	878.4	-607.5	0.00	0.00	1068.0	

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 13D-23	8124.0	912.6	-513.5	14424837.68	2444546.73	39.686864	-108.141938
PBHL - 13D-23	12317.0	878.4	-607.5	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		14423941.90	2445089.10	39.684360	-108.140114



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

Created By: Will Jircik

Date: 14:48, July 18 2022



## **Caerus Oil & Gas**

**Garfield County, CO**

**BJU M23A 496 Pad**

**BJU M23A FED 13D-23 496 - Slot 13D-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 13D-23 496 - Slot 13D-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 13D-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 13D-23 496 - Slot 13D-23		
<b>Well Position</b>	<b>+N/-S</b>	-85.9 usft	<b>Northing:</b> 14,423,941.90 usft
	<b>+E/-W</b>	-23.3 usft	<b>Easting:</b> 2,445,089.10 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.684360
			<b>Longitude:</b> -108.140115
			<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	325.33	

<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	
650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.00	0.00	
816.7	5.00	315.00	816.5	5.1	-5.1	3.00	3.00	0.00	315.00	
941.0	8.29	330.82	940.0	16.8	-13.3	3.00	2.64	12.72	37.14	
7,922.7	8.29	330.82	7,848.8	895.2	-503.8	0.00	0.00	0.00	0.00	
8,198.9	0.00	0.00	8,124.0	912.6	-513.5	3.00	-3.00	0.00	180.00	OHCR - 13D-23
8,291.0	1.38	250.00	8,216.1	912.2	-514.6	1.50	1.50	-119.45	250.00	
12,393.1	1.38	250.00	12,317.0	878.4	-607.5	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 13D-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 13D-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
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	315.00	700.0	0.5	-0.5	0.6	3.00	3.00	0.00
800.0	4.50	315.00	799.8	4.2	-4.2	5.8	3.00	3.00	0.00
<b>EOB @ 5.00° Inc. / 315.00° Azm / Build 3° / 100'</b>									
816.7	5.00	315.00	816.5	5.1	-5.1	7.1	3.00	3.00	0.00
900.0	7.15	327.21	899.3	12.1	-10.5	15.9	3.00	2.58	14.65
<b>EOB @ 8.28° Inc. / 330.82° Azm</b>									
941.0	8.29	330.82	940.0	16.8	-13.3	21.4	3.00	2.76	8.80
1,000.0	8.29	330.82	998.3	24.2	-17.5	29.9	0.00	0.00	0.00
1,100.0	8.29	330.82	1,097.3	36.8	-24.5	44.2	0.00	0.00	0.00
1,200.0	8.29	330.82	1,196.2	49.4	-31.5	58.6	0.00	0.00	0.00
1,300.0	8.29	330.82	1,295.2	62.0	-38.6	72.9	0.00	0.00	0.00
1,400.0	8.29	330.82	1,394.2	74.5	-45.6	87.2	0.00	0.00	0.00
1,500.0	8.29	330.82	1,493.1	87.1	-52.6	101.6	0.00	0.00	0.00
1,600.0	8.29	330.82	1,592.1	99.7	-59.6	115.9	0.00	0.00	0.00
1,700.0	8.29	330.82	1,691.0	112.3	-66.7	130.3	0.00	0.00	0.00
1,800.0	8.29	330.82	1,790.0	124.9	-73.7	144.6	0.00	0.00	0.00
1,900.0	8.29	330.82	1,888.9	137.5	-80.7	159.0	0.00	0.00	0.00
2,000.0	8.29	330.82	1,987.9	150.0	-87.7	173.3	0.00	0.00	0.00
2,100.0	8.29	330.82	2,086.9	162.6	-94.8	187.6	0.00	0.00	0.00
2,200.0	8.29	330.82	2,185.8	175.2	-101.8	202.0	0.00	0.00	0.00
2,300.0	8.29	330.82	2,284.8	187.8	-108.8	216.3	0.00	0.00	0.00
2,400.0	8.29	330.82	2,383.7	200.4	-115.8	230.7	0.00	0.00	0.00
2,500.0	8.29	330.82	2,482.7	212.9	-122.9	245.0	0.00	0.00	0.00
2,600.0	8.29	330.82	2,581.6	225.5	-129.9	259.4	0.00	0.00	0.00
2,700.0	8.29	330.82	2,680.6	238.1	-136.9	273.7	0.00	0.00	0.00
2,800.0	8.29	330.82	2,779.5	250.7	-143.9	288.1	0.00	0.00	0.00
2,900.0	8.29	330.82	2,878.5	263.3	-151.0	302.4	0.00	0.00	0.00
3,000.0	8.29	330.82	2,977.5	275.9	-158.0	316.7	0.00	0.00	0.00
3,100.0	8.29	330.82	3,076.4	288.4	-165.0	331.1	0.00	0.00	0.00
3,200.0	8.29	330.82	3,175.4	301.0	-172.0	345.4	0.00	0.00	0.00
3,300.0	8.29	330.82	3,274.3	313.6	-179.1	359.8	0.00	0.00	0.00
3,400.0	8.29	330.82	3,373.3	326.2	-186.1	374.1	0.00	0.00	0.00
<b>Wasatch</b>									
3,409.8	8.29	330.82	3,383.0	327.4	-186.8	375.5	0.00	0.00	0.00
3,500.0	8.29	330.82	3,472.2	338.8	-193.1	388.5	0.00	0.00	0.00
3,600.0	8.29	330.82	3,571.2	351.3	-200.1	402.8	0.00	0.00	0.00
3,700.0	8.29	330.82	3,670.2	363.9	-207.2	417.2	0.00	0.00	0.00
3,800.0	8.29	330.82	3,769.1	376.5	-214.2	431.5	0.00	0.00	0.00
3,900.0	8.29	330.82	3,868.1	389.1	-221.2	445.8	0.00	0.00	0.00
4,000.0	8.29	330.82	3,967.0	401.7	-228.2	460.2	0.00	0.00	0.00
4,100.0	8.29	330.82	4,066.0	414.3	-235.3	474.5	0.00	0.00	0.00
4,200.0	8.29	330.82	4,164.9	426.8	-242.3	488.9	0.00	0.00	0.00
4,300.0	8.29	330.82	4,263.9	439.4	-249.3	503.2	0.00	0.00	0.00
4,400.0	8.29	330.82	4,362.8	452.0	-256.3	517.6	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 13D-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)
4,500.0	8.29	330.82	4,461.8	464.6	-263.4	531.9	0.00	0.00	0.00
4,600.0	8.29	330.82	4,560.8	477.2	-270.4	546.2	0.00	0.00	0.00
4,700.0	8.29	330.82	4,659.7	489.7	-277.4	560.6	0.00	0.00	0.00
4,800.0	8.29	330.82	4,758.7	502.3	-284.4	574.9	0.00	0.00	0.00
4,900.0	8.29	330.82	4,857.6	514.9	-291.5	589.3	0.00	0.00	0.00
5,000.0	8.29	330.82	4,956.6	527.5	-298.5	603.6	0.00	0.00	0.00
5,100.0	8.29	330.82	5,055.5	540.1	-305.5	618.0	0.00	0.00	0.00
5,200.0	8.29	330.82	5,154.5	552.7	-312.5	632.3	0.00	0.00	0.00
5,300.0	8.29	330.82	5,253.5	565.2	-319.6	646.7	0.00	0.00	0.00
5,400.0	8.29	330.82	5,352.4	577.8	-326.6	661.0	0.00	0.00	0.00
5,500.0	8.29	330.82	5,451.4	590.4	-333.6	675.3	0.00	0.00	0.00
5,600.0	8.29	330.82	5,550.3	603.0	-340.6	689.7	0.00	0.00	0.00
5,700.0	8.29	330.82	5,649.3	615.6	-347.7	704.0	0.00	0.00	0.00
5,800.0	8.29	330.82	5,748.2	628.1	-354.7	718.4	0.00	0.00	0.00
<b>Wasatch G</b>									
5,835.1	8.29	330.82	5,783.0	632.6	-357.2	723.4	0.00	0.00	0.00
5,900.0	8.29	330.82	5,847.2	640.7	-361.7	732.7	0.00	0.00	0.00
6,000.0	8.29	330.82	5,946.1	653.3	-368.7	747.1	0.00	0.00	0.00
6,100.0	8.29	330.82	6,045.1	665.9	-375.8	761.4	0.00	0.00	0.00
<b>Fort Union</b>									
6,138.3	8.29	330.82	6,083.0	670.7	-378.5	766.9	0.00	0.00	0.00
6,200.0	8.29	330.82	6,144.1	678.5	-382.8	775.8	0.00	0.00	0.00
6,300.0	8.29	330.82	6,243.0	691.0	-389.8	790.1	0.00	0.00	0.00
6,400.0	8.29	330.82	6,342.0	703.6	-396.8	804.4	0.00	0.00	0.00
6,500.0	8.29	330.82	6,440.9	716.2	-403.9	818.8	0.00	0.00	0.00
6,600.0	8.29	330.82	6,539.9	728.8	-410.9	833.1	0.00	0.00	0.00
6,700.0	8.29	330.82	6,638.8	741.4	-417.9	847.5	0.00	0.00	0.00
6,800.0	8.29	330.82	6,737.8	754.0	-424.9	861.8	0.00	0.00	0.00
6,900.0	8.29	330.82	6,836.8	766.5	-432.0	876.2	0.00	0.00	0.00
7,000.0	8.29	330.82	6,935.7	779.1	-439.0	890.5	0.00	0.00	0.00
7,100.0	8.29	330.82	7,034.7	791.7	-446.0	904.8	0.00	0.00	0.00
7,200.0	8.29	330.82	7,133.6	804.3	-453.0	919.2	0.00	0.00	0.00
7,300.0	8.29	330.82	7,232.6	816.9	-460.1	933.5	0.00	0.00	0.00
7,400.0	8.29	330.82	7,331.5	829.4	-467.1	947.9	0.00	0.00	0.00
7,500.0	8.29	330.82	7,430.5	842.0	-474.1	962.2	0.00	0.00	0.00
7,600.0	8.29	330.82	7,529.4	854.6	-481.1	976.6	0.00	0.00	0.00
7,700.0	8.29	330.82	7,628.4	867.2	-488.2	990.9	0.00	0.00	0.00
7,800.0	8.29	330.82	7,727.4	879.8	-495.2	1,005.3	0.00	0.00	0.00
7,900.0	8.29	330.82	7,826.3	892.4	-502.2	1,019.6	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
7,922.7	8.29	330.82	7,848.8	895.2	-503.8	1,022.9	0.00	0.00	0.00
8,000.0	5.97	330.82	7,925.5	903.6	-508.5	1,032.4	3.00	-3.00	0.00
8,100.0	2.97	330.82	8,025.2	910.4	-512.3	1,040.2	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG</b>									
8,198.9	0.00	0.00	8,124.0	912.6	-513.5	1,042.7	3.00	-3.00	0.00
8,200.0	0.02	250.00	8,125.1	912.6	-513.5	1,042.7	1.50	1.50	0.00
<b>EOB @ 1.38° Inc. / 250.00° Azm</b>									
8,291.0	1.38	250.00	8,216.1	912.2	-514.6	1,043.0	1.50	1.50	0.00
8,300.0	1.38	250.00	8,225.1	912.2	-514.8	1,043.0	0.00	0.00	0.00
8,400.0	1.38	250.00	8,325.1	911.3	-517.0	1,043.6	0.00	0.00	0.00
8,500.0	1.38	250.00	8,425.0	910.5	-519.3	1,044.3	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 13D-23 496 - Slot 13D-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 13D-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)
8,577.0	1.38	250.00	8,502.0	909.9	-521.1	1,044.7	0.00	0.00	0.00
8,600.0	1.38	250.00	8,525.0	909.7	-521.6	1,044.9	0.00	0.00	0.00
8,700.0	1.38	250.00	8,625.0	908.9	-523.8	1,045.5	0.00	0.00	0.00
8,800.0	1.38	250.00	8,725.0	908.0	-526.1	1,046.1	0.00	0.00	0.00
8,900.0	1.38	250.00	8,824.9	907.2	-528.4	1,046.7	0.00	0.00	0.00
9,000.0	1.38	250.00	8,924.9	906.4	-530.6	1,047.3	0.00	0.00	0.00
9,100.0	1.38	250.00	9,024.9	905.6	-532.9	1,047.9	0.00	0.00	0.00
9,200.0	1.38	250.00	9,124.8	904.7	-535.2	1,048.5	0.00	0.00	0.00
9,300.0	1.38	250.00	9,224.8	903.9	-537.4	1,049.1	0.00	0.00	0.00
9,400.0	1.38	250.00	9,324.8	903.1	-539.7	1,049.8	0.00	0.00	0.00
9,500.0	1.38	250.00	9,424.8	902.3	-542.0	1,050.4	0.00	0.00	0.00
9,600.0	1.38	250.00	9,524.7	901.4	-544.2	1,051.0	0.00	0.00	0.00
9,700.0	1.38	250.00	9,624.7	900.6	-546.5	1,051.6	0.00	0.00	0.00
9,800.0	1.38	250.00	9,724.7	899.8	-548.8	1,052.2	0.00	0.00	0.00
9,900.0	1.38	250.00	9,824.6	899.0	-551.0	1,052.8	0.00	0.00	0.00
10,000.0	1.38	250.00	9,924.6	898.1	-553.3	1,053.4	0.00	0.00	0.00
10,100.0	1.38	250.00	10,024.6	897.3	-555.6	1,054.0	0.00	0.00	0.00
10,200.0	1.38	250.00	10,124.6	896.5	-557.8	1,054.6	0.00	0.00	0.00
10,300.0	1.38	250.00	10,224.5	895.7	-560.1	1,055.2	0.00	0.00	0.00
10,400.0	1.38	250.00	10,324.5	894.8	-562.4	1,055.9	0.00	0.00	0.00
10,500.0	1.38	250.00	10,424.5	894.0	-564.6	1,056.5	0.00	0.00	0.00
10,600.0	1.38	250.00	10,524.4	893.2	-566.9	1,057.1	0.00	0.00	0.00
10,700.0	1.38	250.00	10,624.4	892.4	-569.1	1,057.7	0.00	0.00	0.00
10,800.0	1.38	250.00	10,724.4	891.6	-571.4	1,058.3	0.00	0.00	0.00
10,900.0	1.38	250.00	10,824.3	890.7	-573.7	1,058.9	0.00	0.00	0.00
11,000.0	1.38	250.00	10,924.3	889.9	-575.9	1,059.5	0.00	0.00	0.00
11,100.0	1.38	250.00	11,024.3	889.1	-578.2	1,060.1	0.00	0.00	0.00
11,200.0	1.38	250.00	11,124.3	888.3	-580.5	1,060.7	0.00	0.00	0.00
11,300.0	1.38	250.00	11,224.2	887.4	-582.7	1,061.4	0.00	0.00	0.00
<b>Cameo</b>									
11,392.8	1.38	250.00	11,317.0	886.7	-584.8	1,061.9	0.00	0.00	0.00
11,400.0	1.38	250.00	11,324.2	886.6	-585.0	1,062.0	0.00	0.00	0.00
11,500.0	1.38	250.00	11,424.2	885.8	-587.3	1,062.6	0.00	0.00	0.00
11,600.0	1.38	250.00	11,524.1	885.0	-589.5	1,063.2	0.00	0.00	0.00
11,700.0	1.38	250.00	11,624.1	884.1	-591.8	1,063.8	0.00	0.00	0.00
11,800.0	1.38	250.00	11,724.1	883.3	-594.1	1,064.4	0.00	0.00	0.00
<b>Rollins</b>									
11,892.9	1.38	250.00	11,817.0	882.5	-596.2	1,065.0	0.00	0.00	0.00
11,900.0	1.38	250.00	11,824.1	882.5	-596.3	1,065.0	0.00	0.00	0.00
12,000.0	1.38	250.00	11,924.0	881.7	-598.6	1,065.6	0.00	0.00	0.00
12,100.0	1.38	250.00	12,024.0	880.8	-600.9	1,066.2	0.00	0.00	0.00
12,200.0	1.38	250.00	12,124.0	880.0	-603.1	1,066.8	0.00	0.00	0.00
12,300.0	1.38	250.00	12,223.9	879.2	-605.4	1,067.5	0.00	0.00	0.00
<b>TD @ 12393.1' MD / 12317.0' TVD</b>									
12,393.1	1.38	250.00	12,317.0	878.4	-607.5	1,068.0	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 13D-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 13D-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 - 13D-23 - plan hits target center - Point	0.00	0.00	8,124.0	912.6	-513.5	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	12,317.0	878.4	-607.5	14,424,800.50	2,444,453.90	39.686771	-108.142272

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,409.8	3,383.0	Wasatch			
5,835.1	5,783.0	Wasatch G			
6,138.3	6,083.0	Fort Union			
8,198.9	8,124.0	Ohio Creek			
8,198.9	8,124.0	TOG			
8,577.0	8,502.0	William Fork			
11,392.8	11,317.0	Cameo			
11,892.9	11,817.0	Rollins			

## Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
650.0	650.0	0.0	0.0	Build 3° / 100'
816.7	816.5	5.1	-5.1	EOB @ 5.00° Inc. / 315.00° Azm / Build 3° / 100'
941.0	940.0	16.8	-13.3	EOB @ 8.28° Inc. / 330.82° Azm
7,922.7	7,848.8	895.2	-503.8	Drop 3° / 100'
8,198.9	8,124.0	912.6	-513.5	EOD @ Vertical / Build 1.5° / 100'
8,291.0	8,216.1	912.2	-514.6	EOB @ 1.38° Inc. / 250.00° Azm
12,393.1	12,317.0	878.4	-607.5	TD @ 12393.1' MD / 12317.0' TVD