

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 13C-23 496
 Wellbore: Wellbore #1
 Design: Design #3
 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

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	
360.0	0.00	0.00	360.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
876.5	15.50	336.29	870.3	63.6	-27.9	3.00	336.29	69.3	EOB @ 15.50° Inc. / 336.29° Azm
7892.0	15.50	336.29	7630.7	1779.7	-781.6	0.00	0.00	1941.4	Drop 3° / 100'
8408.6	0.00	0.00	8141.0	1843.2	-809.5	3.00	180.00	2010.7	EOD @ Vertical / Build 1.5° / 100'
8499.4	1.36	250.00	8231.9	1842.9	-810.5	1.50	250.00	2010.8	EOB @ 1.36° Inc. / 250.00° Azm
12657.7	1.36	250.00	12389.0	1809.0	-903.5	0.00	0.00	2022.1	TD @ 12657.7' MD / 12389.0' TVD

DESIGN TARGET DETAILS

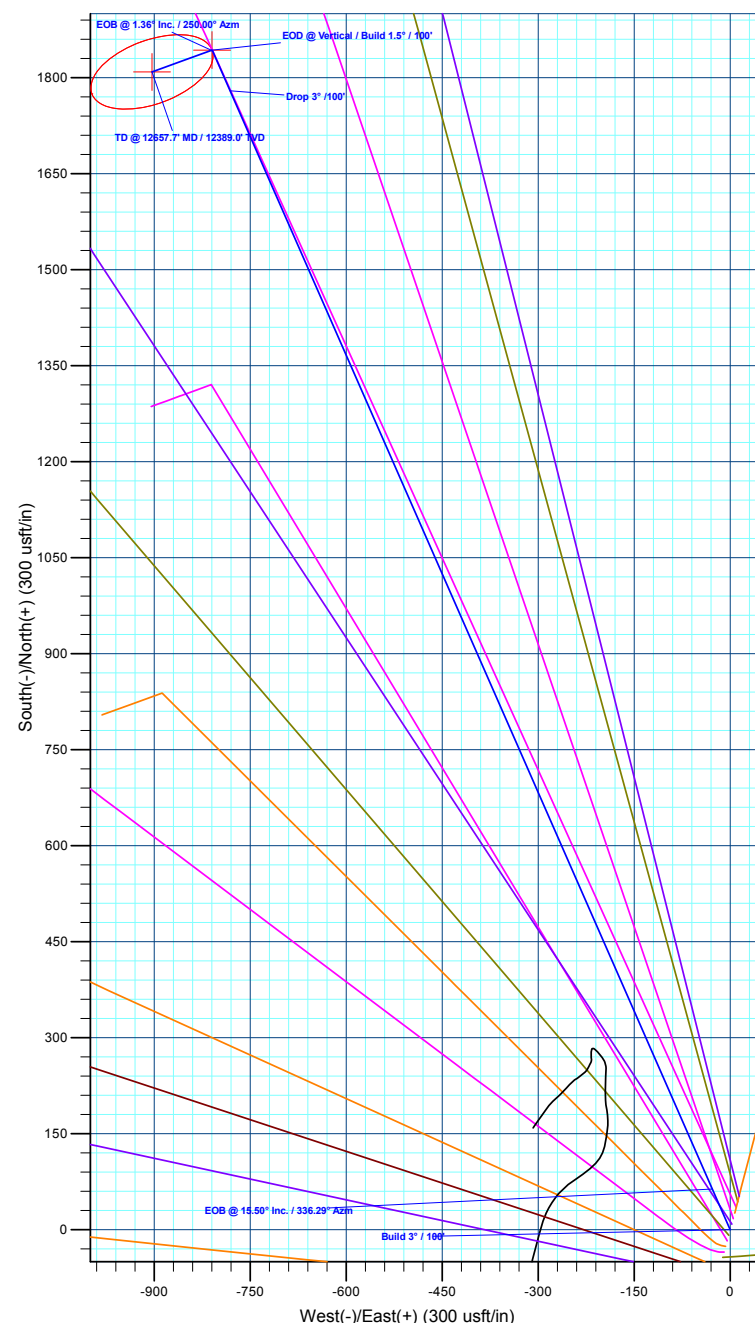
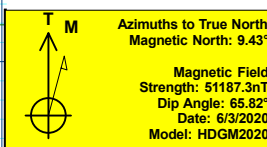
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 13C-23	8141.0	1843.2	-809.5	14425767.08	2444223.33	39.689442	-108.142981
PBHL - 13C-23	12389.0	1809.0	-903.5	14425729.90	2444130.50	39.689348	-108.143315

WELL DETAILS: BJU M23A FED 13C-23 496

			Ground Level : 8104.0				
+N/-S	+E/-W		Northing	Easting	Latitude	Longitude	
0.0	0.0		14423950.60	2445091.20	39.684384	-108.140106	13C-23

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3463.0	3567.1	Wasatch
5863.0	6057.6	Wasatch G
6163.0	6368.9	Fort Union
8141.0	8408.6	Ohio Creek
8562.0	8829.7	Williams Fork
11389.0	11657.5	Cameo
11889.0	12157.6	Rollins

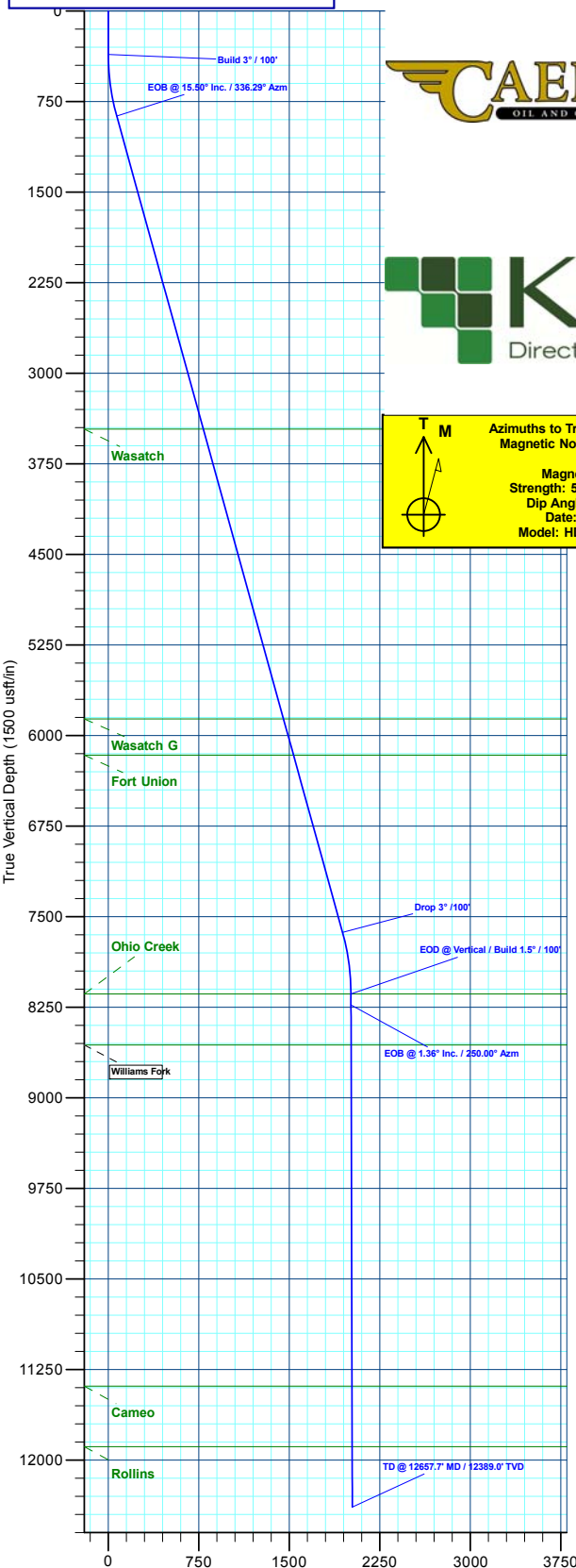


Plan: Design #3 (BJU M23A FED 13C-23 496/Wellbore #1)

Created By: Will Jircik

Date: 23:08, January 04 2023

Vertical Section at 333.46° (1500 usft/in)





Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 13C-23 496 - Slot 13C-23

Wellbore #1

Plan: Design #3

KLX Well Planning Report

04 January, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13C-23 496 - Slot 13C-23
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 13C-23 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Garfield County, CO		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

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

Well	BJU M23A FED 13C-23 496 - Slot 13C-23		
Well Position	+N/-S	-77.3 usft	Northing: 14,423,950.60 usft
	+E/-W	-20.9 usft	Easting: 2,445,091.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.684384
			Longitude: -108.140106
			Ground Level: 8,104.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	6/3/2020	9.43	65.82	51,187.30000000

Design	Design #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	333.46	

Plan Sections										
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	
360.0	0.00	0.00	360.0	0.0	0.0	0.00	0.00	0.00	0.00	
876.5	15.50	336.29	870.3	63.6	-27.9	3.00	3.00	0.00	336.29	
7,892.0	15.50	336.29	7,630.7	1,779.7	-781.6	0.00	0.00	0.00	0.00	
8,408.6	0.00	0.00	8,141.0	1,843.2	-809.5	3.00	-3.00	0.00	180.00	OHCR - 13C-23
8,499.4	1.36	250.00	8,231.9	1,842.9	-810.5	1.50	1.50	-121.05	250.00	
12,657.7	1.36	250.00	12,389.0	1,809.0	-903.5	0.00	0.00	0.00	0.00	PBHL - 13C-23

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13C-23 496 - Slot 13C-23
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 13C-23 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.20	336.29	400.0	0.4	-0.2	0.4	3.00	3.00	0.00
500.0	4.20	336.29	499.9	4.7	-2.1	5.1	3.00	3.00	0.00
600.0	7.20	336.29	599.4	13.8	-6.1	15.0	3.00	3.00	0.00
700.0	10.20	336.29	698.2	27.6	-12.1	30.1	3.00	3.00	0.00
800.0	13.20	336.29	796.1	46.2	-20.3	50.4	3.00	3.00	0.00
EOB @ 15.50° Inc. / 336.29° Azm									
876.5	15.50	336.29	870.3	63.6	-27.9	69.3	3.00	3.00	0.00
900.0	15.50	336.29	892.9	69.3	-30.4	75.6	0.00	0.00	0.00
1,000.0	15.50	336.29	989.2	93.8	-41.2	102.3	0.00	0.00	0.00
1,100.0	15.50	336.29	1,085.6	118.2	-51.9	129.0	0.00	0.00	0.00
1,200.0	15.50	336.29	1,182.0	142.7	-62.7	155.7	0.00	0.00	0.00
1,300.0	15.50	336.29	1,278.3	167.2	-73.4	182.3	0.00	0.00	0.00
1,400.0	15.50	336.29	1,374.7	191.6	-84.2	209.0	0.00	0.00	0.00
1,500.0	15.50	336.29	1,471.1	216.1	-94.9	235.7	0.00	0.00	0.00
1,600.0	15.50	336.29	1,567.4	240.5	-105.6	262.4	0.00	0.00	0.00
1,700.0	15.50	336.29	1,663.8	265.0	-116.4	289.1	0.00	0.00	0.00
1,800.0	15.50	336.29	1,760.2	289.5	-127.1	315.8	0.00	0.00	0.00
1,900.0	15.50	336.29	1,856.5	313.9	-137.9	342.4	0.00	0.00	0.00
2,000.0	15.50	336.29	1,952.9	338.4	-148.6	369.1	0.00	0.00	0.00
2,100.0	15.50	336.29	2,049.3	362.8	-159.4	395.8	0.00	0.00	0.00
2,200.0	15.50	336.29	2,145.6	387.3	-170.1	422.5	0.00	0.00	0.00
2,300.0	15.50	336.29	2,242.0	411.8	-180.8	449.2	0.00	0.00	0.00
2,400.0	15.50	336.29	2,338.3	436.2	-191.6	475.9	0.00	0.00	0.00
2,500.0	15.50	336.29	2,434.7	460.7	-202.3	502.5	0.00	0.00	0.00
2,600.0	15.50	336.29	2,531.1	485.2	-213.1	529.2	0.00	0.00	0.00
2,700.0	15.50	336.29	2,627.4	509.6	-223.8	555.9	0.00	0.00	0.00
2,800.0	15.50	336.29	2,723.8	534.1	-234.6	582.6	0.00	0.00	0.00
2,900.0	15.50	336.29	2,820.2	558.5	-245.3	609.3	0.00	0.00	0.00
3,000.0	15.50	336.29	2,916.5	583.0	-256.0	636.0	0.00	0.00	0.00
3,100.0	15.50	336.29	3,012.9	607.5	-266.8	662.7	0.00	0.00	0.00
3,200.0	15.50	336.29	3,109.3	631.9	-277.5	689.3	0.00	0.00	0.00
3,300.0	15.50	336.29	3,205.6	656.4	-288.3	716.0	0.00	0.00	0.00
3,400.0	15.50	336.29	3,302.0	680.8	-299.0	742.7	0.00	0.00	0.00
3,500.0	15.50	336.29	3,398.4	705.3	-309.8	769.4	0.00	0.00	0.00
Wasatch									
3,567.1	15.50	336.29	3,463.0	721.7	-317.0	787.3	0.00	0.00	0.00
3,600.0	15.50	336.29	3,494.7	729.8	-320.5	796.1	0.00	0.00	0.00
3,700.0	15.50	336.29	3,591.1	754.2	-331.2	822.8	0.00	0.00	0.00
3,800.0	15.50	336.29	3,687.5	778.7	-342.0	849.4	0.00	0.00	0.00
3,900.0	15.50	336.29	3,783.8	803.2	-352.7	876.1	0.00	0.00	0.00
4,000.0	15.50	336.29	3,880.2	827.6	-363.5	902.8	0.00	0.00	0.00
4,100.0	15.50	336.29	3,976.6	852.1	-374.2	929.5	0.00	0.00	0.00
4,200.0	15.50	336.29	4,072.9	876.5	-385.0	956.2	0.00	0.00	0.00
4,300.0	15.50	336.29	4,169.3	901.0	-395.7	982.9	0.00	0.00	0.00
4,400.0	15.50	336.29	4,265.6	925.5	-406.4	1,009.5	0.00	0.00	0.00
4,500.0	15.50	336.29	4,362.0	949.9	-417.2	1,036.2	0.00	0.00	0.00
4,600.0	15.50	336.29	4,458.4	974.4	-427.9	1,062.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13C-23 496 - Slot 13C-23
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 13C-23 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	15.50	336.29	4,554.7	998.8	-438.7	1,089.6	0.00	0.00	0.00
4,800.0	15.50	336.29	4,651.1	1,023.3	-449.4	1,116.3	0.00	0.00	0.00
4,900.0	15.50	336.29	4,747.5	1,047.8	-460.2	1,143.0	0.00	0.00	0.00
5,000.0	15.50	336.29	4,843.8	1,072.2	-470.9	1,169.7	0.00	0.00	0.00
5,100.0	15.50	336.29	4,940.2	1,096.7	-481.6	1,196.3	0.00	0.00	0.00
5,200.0	15.50	336.29	5,036.6	1,121.2	-492.4	1,223.0	0.00	0.00	0.00
5,300.0	15.50	336.29	5,132.9	1,145.6	-503.1	1,249.7	0.00	0.00	0.00
5,400.0	15.50	336.29	5,229.3	1,170.1	-513.9	1,276.4	0.00	0.00	0.00
5,500.0	15.50	336.29	5,325.7	1,194.5	-524.6	1,303.1	0.00	0.00	0.00
5,600.0	15.50	336.29	5,422.0	1,219.0	-535.4	1,329.8	0.00	0.00	0.00
5,700.0	15.50	336.29	5,518.4	1,243.5	-546.1	1,356.4	0.00	0.00	0.00
5,800.0	15.50	336.29	5,614.8	1,267.9	-556.8	1,383.1	0.00	0.00	0.00
5,900.0	15.50	336.29	5,711.1	1,292.4	-567.6	1,409.8	0.00	0.00	0.00
6,000.0	15.50	336.29	5,807.5	1,316.8	-578.3	1,436.5	0.00	0.00	0.00
Wasatch G									
6,057.6	15.50	336.29	5,863.0	1,330.9	-584.5	1,451.9	0.00	0.00	0.00
6,100.0	15.50	336.29	5,903.9	1,341.3	-589.1	1,463.2	0.00	0.00	0.00
6,200.0	15.50	336.29	6,000.2	1,365.8	-599.8	1,489.9	0.00	0.00	0.00
6,300.0	15.50	336.29	6,096.6	1,390.2	-610.6	1,516.5	0.00	0.00	0.00
Fort Union									
6,368.9	15.50	336.29	6,163.0	1,407.1	-618.0	1,534.9	0.00	0.00	0.00
6,400.0	15.50	336.29	6,192.9	1,414.7	-621.3	1,543.2	0.00	0.00	0.00
6,500.0	15.50	336.29	6,289.3	1,439.2	-632.0	1,569.9	0.00	0.00	0.00
6,600.0	15.50	336.29	6,385.7	1,463.6	-642.8	1,596.6	0.00	0.00	0.00
6,700.0	15.50	336.29	6,482.0	1,488.1	-653.5	1,623.3	0.00	0.00	0.00
6,800.0	15.50	336.29	6,578.4	1,512.5	-664.3	1,650.0	0.00	0.00	0.00
6,900.0	15.50	336.29	6,674.8	1,537.0	-675.0	1,676.6	0.00	0.00	0.00
7,000.0	15.50	336.29	6,771.1	1,561.5	-685.8	1,703.3	0.00	0.00	0.00
7,100.0	15.50	336.29	6,867.5	1,585.9	-696.5	1,730.0	0.00	0.00	0.00
7,200.0	15.50	336.29	6,963.9	1,610.4	-707.2	1,756.7	0.00	0.00	0.00
7,300.0	15.50	336.29	7,060.2	1,634.8	-718.0	1,783.4	0.00	0.00	0.00
7,400.0	15.50	336.29	7,156.6	1,659.3	-728.7	1,810.1	0.00	0.00	0.00
7,500.0	15.50	336.29	7,253.0	1,683.8	-739.5	1,836.8	0.00	0.00	0.00
7,600.0	15.50	336.29	7,349.3	1,708.2	-750.2	1,863.4	0.00	0.00	0.00
7,700.0	15.50	336.29	7,445.7	1,732.7	-761.0	1,890.1	0.00	0.00	0.00
7,800.0	15.50	336.29	7,542.1	1,757.2	-771.7	1,916.8	0.00	0.00	0.00
Drop 3° /100'									
7,892.0	15.50	336.29	7,630.7	1,779.7	-781.6	1,941.4	0.00	0.00	0.00
7,900.0	15.26	336.29	7,638.4	1,781.6	-782.4	1,943.5	3.00	-3.00	0.00
8,000.0	12.26	336.29	7,735.5	1,803.4	-792.0	1,967.2	3.00	-3.00	0.00
8,100.0	9.26	336.29	7,833.8	1,820.5	-799.5	1,985.9	3.00	-3.00	0.00
8,200.0	6.26	336.29	7,932.9	1,832.8	-804.9	1,999.3	3.00	-3.00	0.00
8,300.0	3.26	336.29	8,032.5	1,840.4	-808.3	2,007.6	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,408.6	0.00	0.00	8,141.0	1,843.2	-809.5	2,010.7	3.00	-3.00	0.00
EOB @ 1.36° Inc. / 250.00° Azm									
8,499.4	1.36	250.00	8,231.9	1,842.9	-810.5	2,010.8	1.50	1.50	0.00
8,600.0	1.36	250.00	8,332.4	1,842.0	-812.8	2,011.1	0.00	0.00	0.00
8,700.0	1.36	250.00	8,432.4	1,841.2	-815.0	2,011.4	0.00	0.00	0.00
8,800.0	1.36	250.00	8,532.3	1,840.4	-817.2	2,011.6	0.00	0.00	0.00
Williams Fork									
8,829.7	1.36	250.00	8,562.0	1,840.2	-817.9	2,011.7	0.00	0.00	0.00

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Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 13C-23 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
8,900.0	1.36	250.00	8,632.3	1,839.6	-819.5	2,011.9	0.00	0.00	0.00
9,000.0	1.36	250.00	8,732.3	1,838.8	-821.7	2,012.2	0.00	0.00	0.00
9,100.0	1.36	250.00	8,832.3	1,838.0	-823.9	2,012.5	0.00	0.00	0.00
9,200.0	1.36	250.00	8,932.2	1,837.2	-826.2	2,012.7	0.00	0.00	0.00
9,300.0	1.36	250.00	9,032.2	1,836.3	-828.4	2,013.0	0.00	0.00	0.00
9,400.0	1.36	250.00	9,132.2	1,835.5	-830.7	2,013.3	0.00	0.00	0.00
9,500.0	1.36	250.00	9,232.1	1,834.7	-832.9	2,013.5	0.00	0.00	0.00
9,600.0	1.36	250.00	9,332.1	1,833.9	-835.1	2,013.8	0.00	0.00	0.00
9,700.0	1.36	250.00	9,432.1	1,833.1	-837.4	2,014.1	0.00	0.00	0.00
9,800.0	1.36	250.00	9,532.1	1,832.3	-839.6	2,014.3	0.00	0.00	0.00
9,900.0	1.36	250.00	9,632.0	1,831.5	-841.8	2,014.6	0.00	0.00	0.00
10,000.0	1.36	250.00	9,732.0	1,830.7	-844.1	2,014.9	0.00	0.00	0.00
10,100.0	1.36	250.00	9,832.0	1,829.8	-846.3	2,015.2	0.00	0.00	0.00
10,200.0	1.36	250.00	9,932.0	1,829.0	-848.5	2,015.4	0.00	0.00	0.00
10,300.0	1.36	250.00	10,031.9	1,828.2	-850.8	2,015.7	0.00	0.00	0.00
10,400.0	1.36	250.00	10,131.9	1,827.4	-853.0	2,016.0	0.00	0.00	0.00
10,500.0	1.36	250.00	10,231.9	1,826.6	-855.2	2,016.2	0.00	0.00	0.00
10,600.0	1.36	250.00	10,331.8	1,825.8	-857.5	2,016.5	0.00	0.00	0.00
10,700.0	1.36	250.00	10,431.8	1,825.0	-859.7	2,016.8	0.00	0.00	0.00
10,800.0	1.36	250.00	10,531.8	1,824.1	-862.0	2,017.1	0.00	0.00	0.00
10,900.0	1.36	250.00	10,631.8	1,823.3	-864.2	2,017.3	0.00	0.00	0.00
11,000.0	1.36	250.00	10,731.7	1,822.5	-866.4	2,017.6	0.00	0.00	0.00
11,100.0	1.36	250.00	10,831.7	1,821.7	-868.7	2,017.9	0.00	0.00	0.00
11,200.0	1.36	250.00	10,931.7	1,820.9	-870.9	2,018.1	0.00	0.00	0.00
11,300.0	1.36	250.00	11,031.6	1,820.1	-873.1	2,018.4	0.00	0.00	0.00
11,400.0	1.36	250.00	11,131.6	1,819.3	-875.4	2,018.7	0.00	0.00	0.00
11,500.0	1.36	250.00	11,231.6	1,818.4	-877.6	2,019.0	0.00	0.00	0.00
11,600.0	1.36	250.00	11,331.6	1,817.6	-879.8	2,019.2	0.00	0.00	0.00
Cameo									
11,657.5	1.36	250.00	11,389.0	1,817.2	-881.1	2,019.4	0.00	0.00	0.00
11,700.0	1.36	250.00	11,431.5	1,816.8	-882.1	2,019.5	0.00	0.00	0.00
11,800.0	1.36	250.00	11,531.5	1,816.0	-884.3	2,019.8	0.00	0.00	0.00
11,900.0	1.36	250.00	11,631.5	1,815.2	-886.5	2,020.0	0.00	0.00	0.00
12,000.0	1.36	250.00	11,731.4	1,814.4	-888.8	2,020.3	0.00	0.00	0.00
12,100.0	1.36	250.00	11,831.4	1,813.6	-891.0	2,020.6	0.00	0.00	0.00
Rollins									
12,157.6	1.36	250.00	11,889.0	1,813.1	-892.3	2,020.7	0.00	0.00	0.00
12,200.0	1.36	250.00	11,931.4	1,812.8	-893.2	2,020.9	0.00	0.00	0.00
12,300.0	1.36	250.00	12,031.4	1,811.9	-895.5	2,021.1	0.00	0.00	0.00
12,400.0	1.36	250.00	12,131.3	1,811.1	-897.7	2,021.4	0.00	0.00	0.00
12,500.0	1.36	250.00	12,231.3	1,810.3	-900.0	2,021.7	0.00	0.00	0.00
12,600.0	1.36	250.00	12,331.3	1,809.5	-902.2	2,021.9	0.00	0.00	0.00
TD @ 12657.7' MD / 12389.0' TVD									
12,657.7	1.36	250.00	12,389.0	1,809.0	-903.5	2,022.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13C-23 496 - Slot 13C-23
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8134.0usft (30')
Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 13C-23 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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 - 13C-23 - plan hits target center - Point	0.00	0.00	8,141.0	1,843.2	-809.5	14,425,767.08	2,444,223.33	39.689442	-108.142982
PBHL - 13C-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,389.0	1,809.0	-903.5	14,425,729.90	2,444,130.50	39.689348	-108.143315

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,567.1	3,463.0	Wasatch			
6,057.6	5,863.0	Wasatch G			
6,368.9	6,163.0	Fort Union			
8,408.6	8,141.0	Ohio Creek			
8,829.7	8,562.0	Williams Fork			
11,657.5	11,389.0	Cameo			
12,157.6	11,889.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
360.0	360.0	0.0	0.0	Build 3° / 100'
876.5	870.3	63.6	-27.9	EOB @ 15.50° Inc. / 336.29° Azm
7,892.0	7,630.7	1,779.7	-781.6	Drop 3° / 100'
8,408.6	8,141.0	1,843.2	-809.5	EOD @ Vertical / Build 1.5° / 100'
8,499.4	8,231.9	1,842.9	-810.5	EOB @ 1.36° Inc. / 250.00° Azm
12,657.7	12,389.0	1,809.0	-903.5	TD @ 12657.7' MD / 12389.0' TVD