

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 25A-23 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.684241
 Longitude: -108.140156
 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 - 25A-23(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8134.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3470.0	3569.3	Wasatch
5870.0	6054.9	Wasatch G
6170.0	6365.5	Fort Union
8135.0	8388.7	Ohio Creek
8521.0	8774.8	Williams Fork
11404.0	11658.6	Cameo
11904.0	12158.7	Rollins

SECTION DETAILS

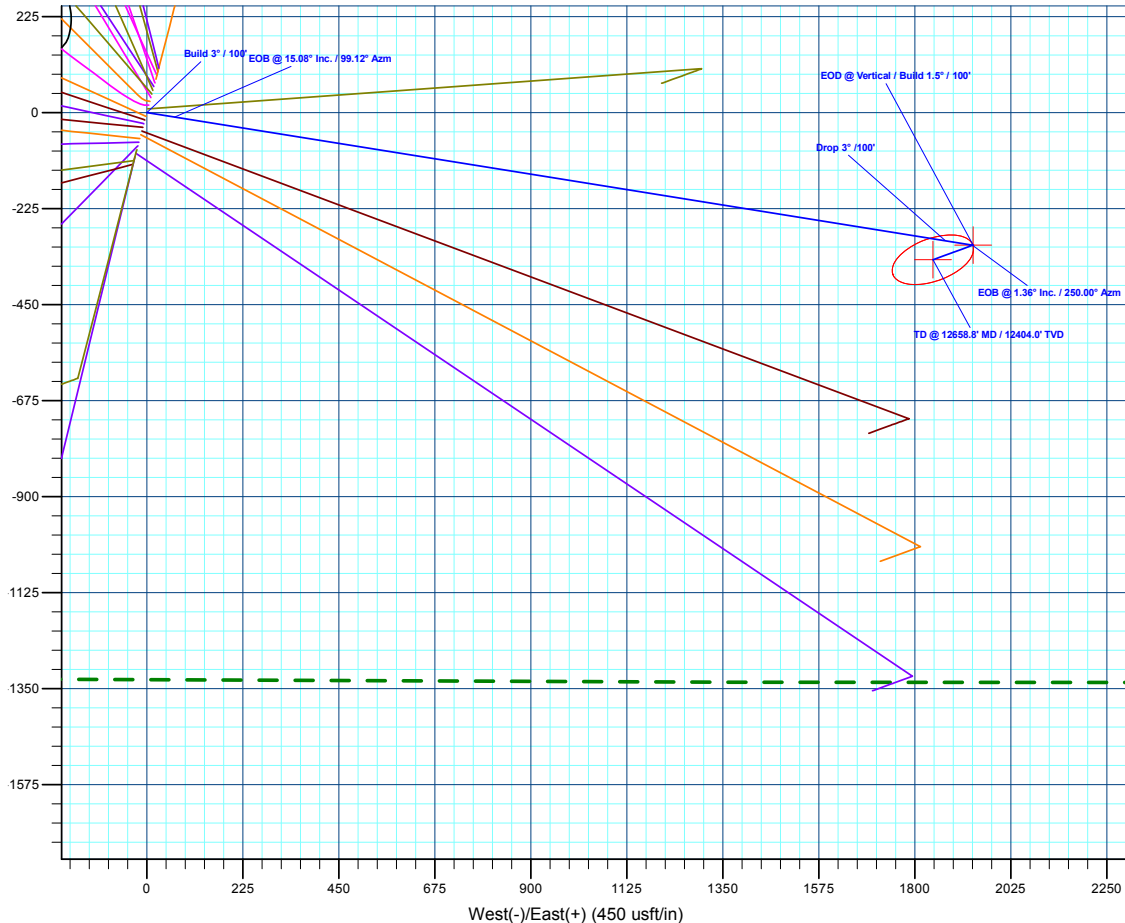
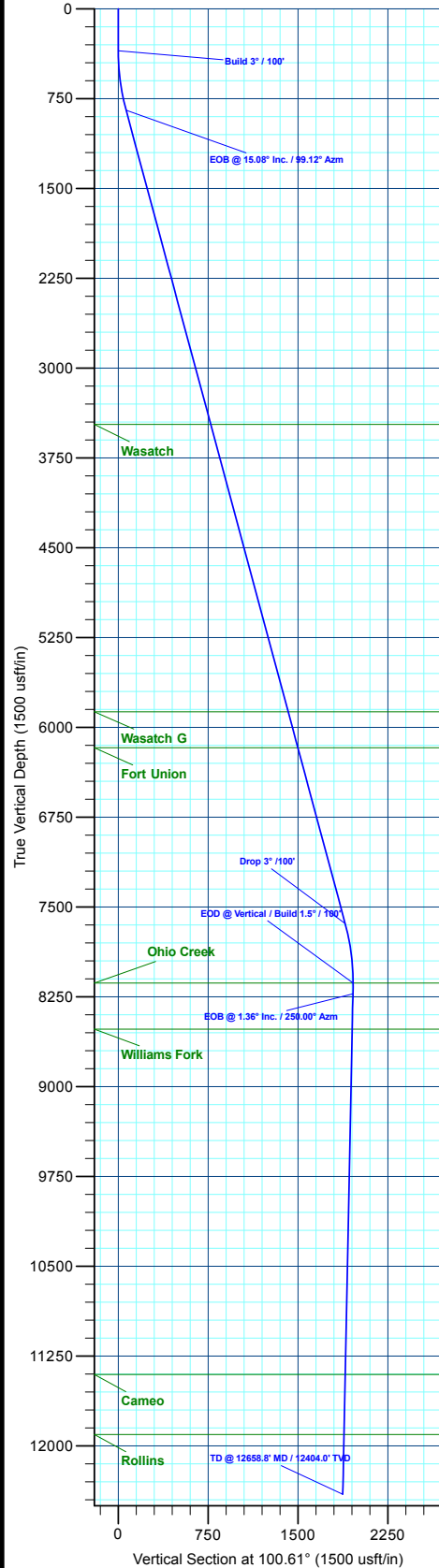
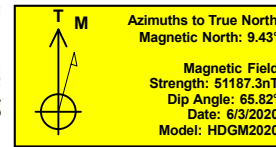
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
852.6	15.08	99.12	846.8	-10.4	64.9	3.00	99.12	65.7	EOB @ 15.08° Inc. / 99.12° Azm
7886.1	15.08	99.12	7638.2	-300.4	1871.3	0.00	0.00	1894.6	Drop 3° / 100'
8388.7	0.00	0.00	8135.0	-310.8	1936.2	3.00	180.00	1960.3	EOD @ Vertical / Build 1.5° / 100'
8479.1	1.36	250.00	8225.4	-311.2	1935.2	1.50	250.00	1959.4	EOB @ 1.36° Inc. / 250.00° Azm
12658.8	1.36	250.00	12404.0	-345.0	1842.2	0.00	0.00	1874.3	TD @ 12658.8' MD / 12404.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25A-23	8135.0	-310.8	1936.2	14423649.18	2447023.93	39.683388	-108.133279
PBHL - 25A-23	12404.0	-345.0	1842.2	14423612.00	2446931.10	39.683294	-108.133613

WELL DETAILS: BJU M23A FED 25A-23 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423898.10	2445078.80	39.684241	-108.140156
						25A-23



Plan: Design #3 (BJU M23A FED 25A-23 496/Wellbore #1)

Created By: Will Jircik

Date: 5:16, January 05 2023



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 25A-23 496 - Slot 25A-23

Wellbore #1

Plan: Design #3

KLX Well Planning Report

05 January, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25A-23 496 - Slot 25A-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 25A-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	Latitude: 39.684596
From: Map		Easting:	2,445,109.60 usft	Longitude: -108.140032
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 1.83 °

Well	BJU M23A FED 25A-23 496 - Slot 25A-23			
Well Position	+N/-S	-129.4 usft	Northing:	14,423,898.10 usft
	+E/-W	-34.9 usft	Easting:	2,445,078.80 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Latitude: 39.684241
				Longitude: -108.140156
				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	100.61

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
852.6	15.08	99.12	846.8	-10.4	64.9	3.00	3.00	0.00	99.12	
7,886.1	15.08	99.12	7,638.2	-300.4	1,871.3	0.00	0.00	0.00	0.00	
8,388.7	0.00	0.00	8,135.0	-310.8	1,936.2	3.00	-3.00	0.00	180.00	OHCR - 25A-23
8,479.1	1.36	250.00	8,225.4	-311.2	1,935.2	1.50	1.50	-121.66	250.00	
12,658.8	1.36	250.00	12,404.0	-345.0	1,842.2	0.00	0.00	0.00	0.00	PBHL - 25A-23

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25A-23 496 - Slot 25A-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 25A-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'									
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.50	99.12	400.0	-0.1	0.6	0.7	3.00	3.00	0.00
500.0	4.50	99.12	499.8	-0.9	5.8	5.9	3.00	3.00	0.00
600.0	7.50	99.12	599.3	-2.6	16.1	16.3	3.00	3.00	0.00
700.0	10.50	99.12	698.0	-5.1	31.6	32.0	3.00	3.00	0.00
800.0	13.50	99.12	795.8	-8.4	52.1	52.8	3.00	3.00	0.00
EOB @ 15.08° Inc. / 99.12° Azm									
852.6	15.08	99.12	846.8	-10.4	64.9	65.7	3.00	3.00	0.00
900.0	15.08	99.12	892.6	-12.4	77.1	78.1	0.00	0.00	0.00
1,000.0	15.08	99.12	989.1	-16.5	102.8	104.1	0.00	0.00	0.00
1,100.0	15.08	99.12	1,085.7	-20.6	128.5	130.1	0.00	0.00	0.00
1,200.0	15.08	99.12	1,182.3	-24.7	154.1	156.1	0.00	0.00	0.00
1,300.0	15.08	99.12	1,278.8	-28.9	179.8	182.1	0.00	0.00	0.00
1,400.0	15.08	99.12	1,375.4	-33.0	205.5	208.1	0.00	0.00	0.00
1,500.0	15.08	99.12	1,471.9	-37.1	231.2	234.1	0.00	0.00	0.00
1,600.0	15.08	99.12	1,568.5	-41.2	256.9	260.1	0.00	0.00	0.00
1,700.0	15.08	99.12	1,665.1	-45.4	282.6	286.1	0.00	0.00	0.00
1,800.0	15.08	99.12	1,761.6	-49.5	308.2	312.1	0.00	0.00	0.00
1,900.0	15.08	99.12	1,858.2	-53.6	333.9	338.1	0.00	0.00	0.00
2,000.0	15.08	99.12	1,954.7	-57.7	359.6	364.1	0.00	0.00	0.00
2,100.0	15.08	99.12	2,051.3	-61.8	385.3	390.1	0.00	0.00	0.00
2,200.0	15.08	99.12	2,147.8	-66.0	411.0	416.1	0.00	0.00	0.00
2,300.0	15.08	99.12	2,244.4	-70.1	436.6	442.1	0.00	0.00	0.00
2,400.0	15.08	99.12	2,341.0	-74.2	462.3	468.1	0.00	0.00	0.00
2,500.0	15.08	99.12	2,437.5	-78.3	488.0	494.1	0.00	0.00	0.00
2,600.0	15.08	99.12	2,534.1	-82.5	513.7	520.1	0.00	0.00	0.00
2,700.0	15.08	99.12	2,630.6	-86.6	539.4	546.1	0.00	0.00	0.00
2,800.0	15.08	99.12	2,727.2	-90.7	565.1	572.1	0.00	0.00	0.00
2,900.0	15.08	99.12	2,823.7	-94.8	590.7	598.1	0.00	0.00	0.00
3,000.0	15.08	99.12	2,920.3	-99.0	616.4	624.1	0.00	0.00	0.00
3,100.0	15.08	99.12	3,016.9	-103.1	642.1	650.1	0.00	0.00	0.00
3,200.0	15.08	99.12	3,113.4	-107.2	667.8	676.1	0.00	0.00	0.00
3,300.0	15.08	99.12	3,210.0	-111.3	693.5	702.1	0.00	0.00	0.00
3,400.0	15.08	99.12	3,306.5	-115.4	719.2	728.1	0.00	0.00	0.00
3,500.0	15.08	99.12	3,403.1	-119.6	744.8	754.1	0.00	0.00	0.00
Wasatch									
3,569.3	15.08	99.12	3,470.0	-122.4	762.6	772.1	0.00	0.00	0.00
3,600.0	15.08	99.12	3,499.6	-123.7	770.5	780.1	0.00	0.00	0.00
3,700.0	15.08	99.12	3,596.2	-127.8	796.2	806.1	0.00	0.00	0.00
3,800.0	15.08	99.12	3,692.8	-131.9	821.9	832.1	0.00	0.00	0.00
3,900.0	15.08	99.12	3,789.3	-136.1	847.6	858.1	0.00	0.00	0.00
4,000.0	15.08	99.12	3,885.9	-140.2	873.2	884.1	0.00	0.00	0.00
4,100.0	15.08	99.12	3,982.4	-144.3	898.9	910.1	0.00	0.00	0.00
4,200.0	15.08	99.12	4,079.0	-148.4	924.6	936.1	0.00	0.00	0.00
4,300.0	15.08	99.12	4,175.6	-152.5	950.3	962.1	0.00	0.00	0.00
4,400.0	15.08	99.12	4,272.1	-156.7	976.0	988.1	0.00	0.00	0.00
4,500.0	15.08	99.12	4,368.7	-160.8	1,001.7	1,014.1	0.00	0.00	0.00
4,600.0	15.08	99.12	4,465.2	-164.9	1,027.3	1,040.1	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 25A-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	15.08	99.12	4,561.8	-169.0	1,053.0	1,066.1	0.00	0.00	0.00
4,800.0	15.08	99.12	4,658.3	-173.2	1,078.7	1,092.1	0.00	0.00	0.00
4,900.0	15.08	99.12	4,754.9	-177.3	1,104.4	1,118.2	0.00	0.00	0.00
5,000.0	15.08	99.12	4,851.5	-181.4	1,130.1	1,144.2	0.00	0.00	0.00
5,100.0	15.08	99.12	4,948.0	-185.5	1,155.8	1,170.2	0.00	0.00	0.00
5,200.0	15.08	99.12	5,044.6	-189.7	1,181.4	1,196.2	0.00	0.00	0.00
5,300.0	15.08	99.12	5,141.1	-193.8	1,207.1	1,222.2	0.00	0.00	0.00
5,400.0	15.08	99.12	5,237.7	-197.9	1,232.8	1,248.2	0.00	0.00	0.00
5,500.0	15.08	99.12	5,334.2	-202.0	1,258.5	1,274.2	0.00	0.00	0.00
5,600.0	15.08	99.12	5,430.8	-206.1	1,284.2	1,300.2	0.00	0.00	0.00
5,700.0	15.08	99.12	5,527.4	-210.3	1,309.8	1,326.2	0.00	0.00	0.00
5,800.0	15.08	99.12	5,623.9	-214.4	1,335.5	1,352.2	0.00	0.00	0.00
5,900.0	15.08	99.12	5,720.5	-218.5	1,361.2	1,378.2	0.00	0.00	0.00
6,000.0	15.08	99.12	5,817.0	-222.6	1,386.9	1,404.2	0.00	0.00	0.00
Wasatch G									
6,054.9	15.08	99.12	5,870.0	-224.9	1,401.0	1,418.4	0.00	0.00	0.00
6,100.0	15.08	99.12	5,913.6	-226.8	1,412.6	1,430.2	0.00	0.00	0.00
6,200.0	15.08	99.12	6,010.2	-230.9	1,438.3	1,456.2	0.00	0.00	0.00
6,300.0	15.08	99.12	6,106.7	-235.0	1,463.9	1,482.2	0.00	0.00	0.00
Fort Union									
6,365.5	15.08	99.12	6,170.0	-237.7	1,480.8	1,499.2	0.00	0.00	0.00
6,400.0	15.08	99.12	6,203.3	-239.1	1,489.6	1,508.2	0.00	0.00	0.00
6,500.0	15.08	99.12	6,299.8	-243.2	1,515.3	1,534.2	0.00	0.00	0.00
6,600.0	15.08	99.12	6,396.4	-247.4	1,541.0	1,560.2	0.00	0.00	0.00
6,700.0	15.08	99.12	6,492.9	-251.5	1,566.7	1,586.2	0.00	0.00	0.00
6,800.0	15.08	99.12	6,589.5	-255.6	1,592.4	1,612.2	0.00	0.00	0.00
6,900.0	15.08	99.12	6,686.1	-259.7	1,618.0	1,638.2	0.00	0.00	0.00
7,000.0	15.08	99.12	6,782.6	-263.9	1,643.7	1,664.2	0.00	0.00	0.00
7,100.0	15.08	99.12	6,879.2	-268.0	1,669.4	1,690.2	0.00	0.00	0.00
7,200.0	15.08	99.12	6,975.7	-272.1	1,695.1	1,716.2	0.00	0.00	0.00
7,300.0	15.08	99.12	7,072.3	-276.2	1,720.8	1,742.2	0.00	0.00	0.00
7,400.0	15.08	99.12	7,168.8	-280.4	1,746.5	1,768.2	0.00	0.00	0.00
7,500.0	15.08	99.12	7,265.4	-284.5	1,772.1	1,794.2	0.00	0.00	0.00
7,600.0	15.08	99.12	7,362.0	-288.6	1,797.8	1,820.2	0.00	0.00	0.00
7,700.0	15.08	99.12	7,458.5	-292.7	1,823.5	1,846.2	0.00	0.00	0.00
7,800.0	15.08	99.12	7,555.1	-296.8	1,849.2	1,872.2	0.00	0.00	0.00
Drop 3° /100'									
7,886.1	15.08	99.12	7,638.2	-300.4	1,871.3	1,894.6	0.00	0.00	0.00
7,900.0	14.66	99.12	7,651.6	-301.0	1,874.8	1,898.2	3.00	-3.00	0.00
8,000.0	11.66	99.12	7,749.0	-304.6	1,897.3	1,920.9	3.00	-3.00	0.00
8,100.0	8.66	99.12	7,847.4	-307.4	1,914.7	1,938.6	3.00	-3.00	0.00
8,200.0	5.66	99.12	7,946.6	-309.3	1,927.0	1,951.0	3.00	-3.00	0.00
8,300.0	2.66	99.12	8,046.4	-310.5	1,934.2	1,958.3	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,388.7	0.00	0.00	8,135.0	-310.8	1,936.2	1,960.3	3.00	-3.00	0.00
8,400.0	0.17	250.00	8,146.3	-310.8	1,936.2	1,960.3	1.50	1.50	0.00
EOB @ 1.36° Inc. / 250.00° Azm									
8,479.1	1.36	250.00	8,225.4	-311.2	1,935.2	1,959.4	1.50	1.50	0.00
8,500.0	1.36	250.00	8,246.3	-311.3	1,934.7	1,959.0	0.00	0.00	0.00
8,600.0	1.36	250.00	8,346.3	-312.2	1,932.5	1,956.9	0.00	0.00	0.00
8,700.0	1.36	250.00	8,446.3	-313.0	1,930.3	1,954.9	0.00	0.00	0.00
Williams Fork									

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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 25A-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)
8,774.8	1.36	250.00	8,521.0	-313.6	1,928.6	1,953.4	0.00	0.00	0.00
8,800.0	1.36	250.00	8,546.2	-313.8	1,928.1	1,952.9	0.00	0.00	0.00
8,900.0	1.36	250.00	8,646.2	-314.6	1,925.8	1,950.8	0.00	0.00	0.00
9,000.0	1.36	250.00	8,746.2	-315.4	1,923.6	1,948.8	0.00	0.00	0.00
9,100.0	1.36	250.00	8,846.2	-316.2	1,921.4	1,946.8	0.00	0.00	0.00
9,200.0	1.36	250.00	8,946.1	-317.0	1,919.2	1,944.7	0.00	0.00	0.00
9,300.0	1.36	250.00	9,046.1	-317.8	1,916.9	1,942.7	0.00	0.00	0.00
9,400.0	1.36	250.00	9,146.1	-318.6	1,914.7	1,940.7	0.00	0.00	0.00
9,500.0	1.36	250.00	9,246.0	-319.4	1,912.5	1,938.6	0.00	0.00	0.00
9,600.0	1.36	250.00	9,346.0	-320.3	1,910.3	1,936.6	0.00	0.00	0.00
9,700.0	1.36	250.00	9,446.0	-321.1	1,908.0	1,934.5	0.00	0.00	0.00
9,800.0	1.36	250.00	9,546.0	-321.9	1,905.8	1,932.5	0.00	0.00	0.00
9,900.0	1.36	250.00	9,645.9	-322.7	1,903.6	1,930.5	0.00	0.00	0.00
10,000.0	1.36	250.00	9,745.9	-323.5	1,901.4	1,928.4	0.00	0.00	0.00
10,100.0	1.36	250.00	9,845.9	-324.3	1,899.1	1,926.4	0.00	0.00	0.00
10,200.0	1.36	250.00	9,945.8	-325.1	1,896.9	1,924.4	0.00	0.00	0.00
10,300.0	1.36	250.00	10,045.8	-325.9	1,894.7	1,922.3	0.00	0.00	0.00
10,400.0	1.36	250.00	10,145.8	-326.7	1,892.5	1,920.3	0.00	0.00	0.00
10,500.0	1.36	250.00	10,245.8	-327.5	1,890.3	1,918.2	0.00	0.00	0.00
10,600.0	1.36	250.00	10,345.7	-328.3	1,888.0	1,916.2	0.00	0.00	0.00
10,700.0	1.36	250.00	10,445.7	-329.2	1,885.8	1,914.2	0.00	0.00	0.00
10,800.0	1.36	250.00	10,545.7	-330.0	1,883.6	1,912.1	0.00	0.00	0.00
10,900.0	1.36	250.00	10,645.6	-330.8	1,881.4	1,910.1	0.00	0.00	0.00
11,000.0	1.36	250.00	10,745.6	-331.6	1,879.1	1,908.1	0.00	0.00	0.00
11,100.0	1.36	250.00	10,845.6	-332.4	1,876.9	1,906.0	0.00	0.00	0.00
11,200.0	1.36	250.00	10,945.6	-333.2	1,874.7	1,904.0	0.00	0.00	0.00
11,300.0	1.36	250.00	11,045.5	-334.0	1,872.5	1,901.9	0.00	0.00	0.00
11,400.0	1.36	250.00	11,145.5	-334.8	1,870.2	1,899.9	0.00	0.00	0.00
11,500.0	1.36	250.00	11,245.5	-335.6	1,868.0	1,897.9	0.00	0.00	0.00
11,600.0	1.36	250.00	11,345.5	-336.4	1,865.8	1,895.8	0.00	0.00	0.00
Cameo									
11,658.6	1.36	250.00	11,404.0	-336.9	1,864.5	1,894.6	0.00	0.00	0.00
11,700.0	1.36	250.00	11,445.4	-337.3	1,863.6	1,893.8	0.00	0.00	0.00
11,800.0	1.36	250.00	11,545.4	-338.1	1,861.3	1,891.8	0.00	0.00	0.00
11,900.0	1.36	250.00	11,645.4	-338.9	1,859.1	1,889.7	0.00	0.00	0.00
12,000.0	1.36	250.00	11,745.3	-339.7	1,856.9	1,887.7	0.00	0.00	0.00
12,100.0	1.36	250.00	11,845.3	-340.5	1,854.7	1,885.6	0.00	0.00	0.00
Rollins									
12,158.7	1.36	250.00	11,904.0	-341.0	1,853.4	1,884.5	0.00	0.00	0.00
12,200.0	1.36	250.00	11,945.3	-341.3	1,852.4	1,883.6	0.00	0.00	0.00
12,300.0	1.36	250.00	12,045.3	-342.1	1,850.2	1,881.6	0.00	0.00	0.00
12,400.0	1.36	250.00	12,145.2	-342.9	1,848.0	1,879.5	0.00	0.00	0.00
12,500.0	1.36	250.00	12,245.2	-343.7	1,845.8	1,877.5	0.00	0.00	0.00
12,600.0	1.36	250.00	12,345.2	-344.5	1,843.5	1,875.5	0.00	0.00	0.00
TD @ 12658.8' MD / 12404.0' TVD									
12,658.8	1.36	250.00	12,404.0	-345.0	1,842.2	1,874.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25A-23 496 - Slot 25A-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 25A-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 - 25A-23 - plan hits target center - Point	0.00	0.00	8,135.0	-310.8	1,936.2	14,423,649.18	2,447,023.93	39.683388	-108.133279
PBHL - 25A-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,404.0	-345.0	1,842.2	14,423,612.00	2,446,931.10	39.683294	-108.133613

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,569.3	3,470.0	Wasatch			
6,054.9	5,870.0	Wasatch G			
6,365.5	6,170.0	Fort Union			
8,388.7	8,135.0	Ohio Creek			
8,774.8	8,521.0	Williams Fork			
11,658.6	11,404.0	Cameo			
12,158.7	11,904.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
350.0	350.0	0.0	0.0	Build 3° / 100'
852.6	846.8	-10.4	64.9	EOB @ 15.08° Inc. / 99.12° Azm
7,886.1	7,638.2	-300.4	1,871.3	Drop 3° / 100'
8,388.7	8,135.0	-310.8	1,936.2	EOD @ Vertical / Build 1.5° / 100'
8,479.1	8,225.4	-311.2	1,935.2	EOB @ 1.36° Inc. / 250.00° Azm
12,658.8	12,404.0	-345.0	1,842.2	TD @ 12658.8' MD / 12404.0' TVD