

Project: Garfield County, CO
Site: BJU M23A 496 Pad
Well: BJU M23A FED 25D-22 496
Wellbore: Wellbore #1
Design: Design #3
Latitude: 39.683931
Longitude: -108.140265
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 - 25D-22(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8134.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3293.0	3419.4	Wasatch
5693.0	5931.2	Wasatch G
5993.0	6245.2	Fort Union
7976.0	8302.8	Ohio Creek
8364.0	8690.9	Williams Fork
11156.0	11483.8	Cameo
11656.0	11983.9	Rollins

SECTION DETAILS

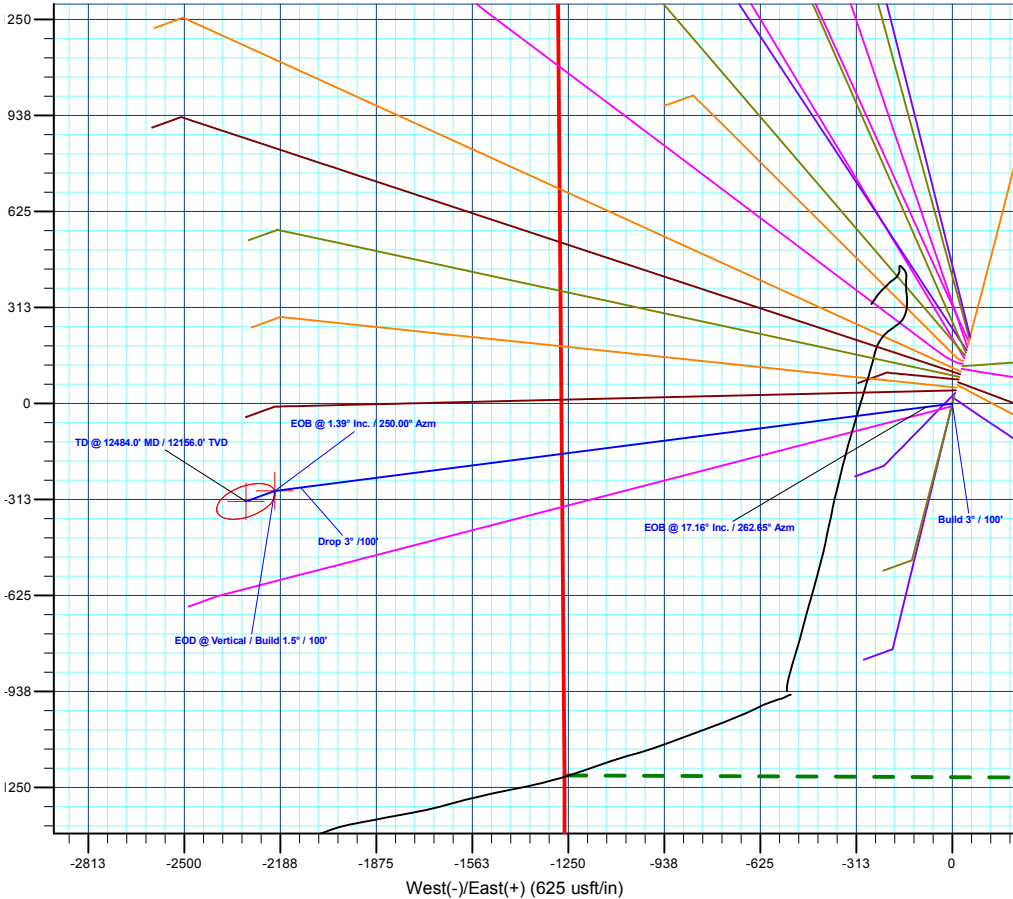
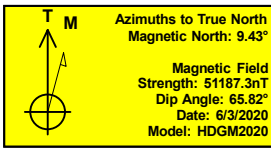
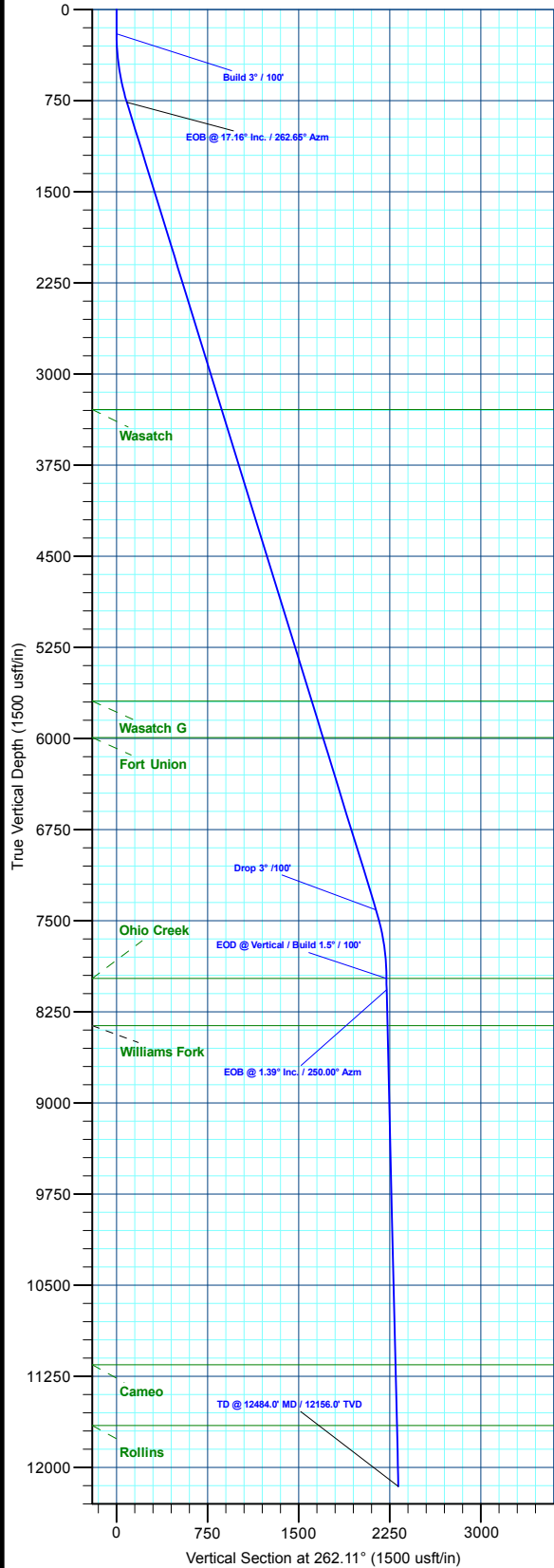
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3" / 100'
772.0	17.16	262.65	763.5	-10.9	-84.3	3.00	262.65	85.0	EOB @ 17.16" Inc. / 262.65° Azm
7730.8	17.16	262.65	7412.5	-273.4	-2120.7	0.00	0.00	2138.2	Drop 3" / 100'
8302.8	0.00	0.00	7976.0	-284.3	-2205.1	3.00	180.00	2223.2	EOD @ Vertical / Build 1.5" / 100'
8395.2	1.39	250.00	8068.4	-284.6	-2206.1	1.50	250.00	2224.3	EOB @ 1.39" Inc. / 250.00° Azm
12484.0	1.39	250.00	12156.0	-318.5	-2299.0	0.00	0.00	2321.0	TD @ 12484.0' MD / 12156.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25D-22	7976.0	-284.3	-2205.1	14423429.88	2442856.93	39.683151	-108.148096
PBHL - 25D-22	12156.0	-318.5	-2299.0	14423392.70	2442764.10	39.683057	-108.148430

WELL DETAILS: BJU M23A FED 25D-22 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423784.30	2445051.80	39.683931	-108.140265
						25D-22



Plan: Design #3 (BJU M23A FED 25D-22 496/Wellbore #1)

Created By: Will Jircik Date: 10:03, January 05 2023



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 25D-22 496 - Slot 25D-22

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 25D-22 496 - Slot 25D-22
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 25D-22 496	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 25D-22 496 - Slot 25D-22			
Well Position	+N/-S	-242.2 usft	Northing:	14,423,784.30 usft
	+E/-W	-65.6 usft	Easting:	2,445,051.80 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Latitude: 39.683931
				Longitude: -108.140265
				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	262.11

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
772.0	17.16	262.65	763.5	-10.9	-84.3	3.00	3.00	0.00	262.65	
7,730.8	17.16	262.65	7,412.5	-273.4	-2,120.7	0.00	0.00	0.00	0.00	
8,302.8	0.00	0.00	7,976.0	-284.3	-2,205.1	3.00	-3.00	0.00	180.00	OHCR - 25D-22
8,395.2	1.39	250.00	8,068.4	-284.6	-2,206.1	1.50	1.50	-119.07	250.00	
12,484.0	1.39	250.00	12,156.0	-318.5	-2,299.0	0.00	0.00	0.00	0.00	PBHL - 25D-22

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25D-22 496 - Slot 25D-22
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 25D-22 496	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
Build 3° / 100'									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	262.65	300.0	-0.3	-2.6	2.6	3.00	3.00	0.00
400.0	6.00	262.65	399.6	-1.3	-10.4	10.5	3.00	3.00	0.00
500.0	9.00	262.65	498.8	-3.0	-23.3	23.5	3.00	3.00	0.00
600.0	12.00	262.65	597.1	-5.3	-41.4	41.7	3.00	3.00	0.00
700.0	15.00	262.65	694.3	-8.3	-64.5	65.1	3.00	3.00	0.00
EOB @ 17.16° Inc. / 262.65° Azm									
772.0	17.16	262.65	763.5	-10.9	-84.3	85.0	3.00	3.00	0.00
800.0	17.16	262.65	790.2	-11.9	-92.5	93.3	0.00	0.00	0.00
900.0	17.16	262.65	885.8	-15.7	-121.8	122.8	0.00	0.00	0.00
1,000.0	17.16	262.65	981.3	-19.5	-151.0	152.3	0.00	0.00	0.00
1,100.0	17.16	262.65	1,076.9	-23.2	-180.3	181.8	0.00	0.00	0.00
1,200.0	17.16	262.65	1,172.4	-27.0	-209.6	211.3	0.00	0.00	0.00
1,300.0	17.16	262.65	1,268.0	-30.8	-238.8	240.8	0.00	0.00	0.00
1,400.0	17.16	262.65	1,363.5	-34.6	-268.1	270.3	0.00	0.00	0.00
1,500.0	17.16	262.65	1,459.1	-38.3	-297.4	299.8	0.00	0.00	0.00
1,600.0	17.16	262.65	1,554.6	-42.1	-326.6	329.3	0.00	0.00	0.00
1,700.0	17.16	262.65	1,650.2	-45.9	-355.9	358.8	0.00	0.00	0.00
1,800.0	17.16	262.65	1,745.7	-49.7	-385.2	388.3	0.00	0.00	0.00
1,900.0	17.16	262.65	1,841.3	-53.4	-414.4	417.8	0.00	0.00	0.00
2,000.0	17.16	262.65	1,936.8	-57.2	-443.7	447.3	0.00	0.00	0.00
2,100.0	17.16	262.65	2,032.4	-61.0	-472.9	476.8	0.00	0.00	0.00
2,200.0	17.16	262.65	2,127.9	-64.7	-502.2	506.3	0.00	0.00	0.00
2,300.0	17.16	262.65	2,223.5	-68.5	-531.5	535.8	0.00	0.00	0.00
2,400.0	17.16	262.65	2,319.0	-72.3	-560.7	565.3	0.00	0.00	0.00
2,500.0	17.16	262.65	2,414.6	-76.1	-590.0	594.9	0.00	0.00	0.00
2,600.0	17.16	262.65	2,510.1	-79.8	-619.3	624.4	0.00	0.00	0.00
2,700.0	17.16	262.65	2,605.7	-83.6	-648.5	653.9	0.00	0.00	0.00
2,800.0	17.16	262.65	2,701.2	-87.4	-677.8	683.4	0.00	0.00	0.00
2,900.0	17.16	262.65	2,796.7	-91.1	-707.1	712.9	0.00	0.00	0.00
3,000.0	17.16	262.65	2,892.3	-94.9	-736.3	742.4	0.00	0.00	0.00
3,100.0	17.16	262.65	2,987.8	-98.7	-765.6	771.9	0.00	0.00	0.00
3,200.0	17.16	262.65	3,083.4	-102.5	-794.8	801.4	0.00	0.00	0.00
3,300.0	17.16	262.65	3,178.9	-106.2	-824.1	830.9	0.00	0.00	0.00
3,400.0	17.16	262.65	3,274.5	-110.0	-853.4	860.4	0.00	0.00	0.00
Wasatch									
3,419.4	17.16	262.65	3,293.0	-110.7	-859.0	866.1	0.00	0.00	0.00
3,500.0	17.16	262.65	3,370.0	-113.8	-882.6	889.9	0.00	0.00	0.00
3,600.0	17.16	262.65	3,465.6	-117.6	-911.9	919.4	0.00	0.00	0.00
3,700.0	17.16	262.65	3,561.1	-121.3	-941.2	948.9	0.00	0.00	0.00
3,800.0	17.16	262.65	3,656.7	-125.1	-970.4	978.4	0.00	0.00	0.00
3,900.0	17.16	262.65	3,752.2	-128.9	-999.7	1,007.9	0.00	0.00	0.00
4,000.0	17.16	262.65	3,847.8	-132.6	-1,029.0	1,037.4	0.00	0.00	0.00
4,100.0	17.16	262.65	3,943.3	-136.4	-1,058.2	1,066.9	0.00	0.00	0.00
4,200.0	17.16	262.65	4,038.9	-140.2	-1,087.5	1,096.4	0.00	0.00	0.00
4,300.0	17.16	262.65	4,134.4	-144.0	-1,116.7	1,125.9	0.00	0.00	0.00
4,400.0	17.16	262.65	4,230.0	-147.7	-1,146.0	1,155.4	0.00	0.00	0.00
4,500.0	17.16	262.65	4,325.5	-151.5	-1,175.3	1,184.9	0.00	0.00	0.00
4,600.0	17.16	262.65	4,421.1	-155.3	-1,204.5	1,214.4	0.00	0.00	0.00
4,700.0	17.16	262.65	4,516.6	-159.1	-1,233.8	1,244.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25D-22 496 - Slot 25D-22
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 25D-22 496	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)
4,800.0	17.16	262.65	4,612.2	-162.8	-1,263.1	1,273.5	0.00	0.00	0.00
4,900.0	17.16	262.65	4,707.7	-166.6	-1,292.3	1,303.0	0.00	0.00	0.00
5,000.0	17.16	262.65	4,803.3	-170.4	-1,321.6	1,332.5	0.00	0.00	0.00
5,100.0	17.16	262.65	4,898.8	-174.1	-1,350.9	1,362.0	0.00	0.00	0.00
5,200.0	17.16	262.65	4,994.3	-177.9	-1,380.1	1,391.5	0.00	0.00	0.00
5,300.0	17.16	262.65	5,089.9	-181.7	-1,409.4	1,421.0	0.00	0.00	0.00
5,400.0	17.16	262.65	5,185.4	-185.5	-1,438.6	1,450.5	0.00	0.00	0.00
5,500.0	17.16	262.65	5,281.0	-189.2	-1,467.9	1,480.0	0.00	0.00	0.00
5,600.0	17.16	262.65	5,376.5	-193.0	-1,497.2	1,509.5	0.00	0.00	0.00
5,700.0	17.16	262.65	5,472.1	-196.8	-1,526.4	1,539.0	0.00	0.00	0.00
5,800.0	17.16	262.65	5,567.6	-200.5	-1,555.7	1,568.5	0.00	0.00	0.00
5,900.0	17.16	262.65	5,663.2	-204.3	-1,585.0	1,598.0	0.00	0.00	0.00
Wasatch G									
5,931.2	17.16	262.65	5,693.0	-205.5	-1,594.1	1,607.2	0.00	0.00	0.00
6,000.0	17.16	262.65	5,758.7	-208.1	-1,614.2	1,627.5	0.00	0.00	0.00
6,100.0	17.16	262.65	5,854.3	-211.9	-1,643.5	1,657.0	0.00	0.00	0.00
6,200.0	17.16	262.65	5,949.8	-215.6	-1,672.8	1,686.5	0.00	0.00	0.00
Fort Union									
6,245.2	17.16	262.65	5,993.0	-217.3	-1,686.0	1,699.9	0.00	0.00	0.00
6,300.0	17.16	262.65	6,045.4	-219.4	-1,702.0	1,716.0	0.00	0.00	0.00
6,400.0	17.16	262.65	6,140.9	-223.2	-1,731.3	1,745.5	0.00	0.00	0.00
6,500.0	17.16	262.65	6,236.5	-227.0	-1,760.5	1,775.0	0.00	0.00	0.00
6,600.0	17.16	262.65	6,332.0	-230.7	-1,789.8	1,804.5	0.00	0.00	0.00
6,700.0	17.16	262.65	6,427.6	-234.5	-1,819.1	1,834.0	0.00	0.00	0.00
6,800.0	17.16	262.65	6,523.1	-238.3	-1,848.3	1,863.5	0.00	0.00	0.00
6,900.0	17.16	262.65	6,618.7	-242.0	-1,877.6	1,893.1	0.00	0.00	0.00
7,000.0	17.16	262.65	6,714.2	-245.8	-1,906.9	1,922.6	0.00	0.00	0.00
7,100.0	17.16	262.65	6,809.8	-249.6	-1,936.1	1,952.1	0.00	0.00	0.00
7,200.0	17.16	262.65	6,905.3	-253.4	-1,965.4	1,981.6	0.00	0.00	0.00
7,300.0	17.16	262.65	7,000.9	-257.1	-1,994.7	2,011.1	0.00	0.00	0.00
7,400.0	17.16	262.65	7,096.4	-260.9	-2,023.9	2,040.6	0.00	0.00	0.00
7,500.0	17.16	262.65	7,192.0	-264.7	-2,053.2	2,070.1	0.00	0.00	0.00
7,600.0	17.16	262.65	7,287.5	-268.5	-2,082.4	2,099.6	0.00	0.00	0.00
7,700.0	17.16	262.65	7,383.0	-272.2	-2,111.7	2,129.1	0.00	0.00	0.00
Drop 3° /100'									
7,730.8	17.16	262.65	7,412.5	-273.4	-2,120.7	2,138.2	0.00	0.00	0.00
7,800.0	15.09	262.65	7,478.9	-275.8	-2,139.8	2,157.4	3.00	-3.00	0.00
7,900.0	12.09	262.65	7,576.1	-278.8	-2,163.1	2,180.9	3.00	-3.00	0.00
8,000.0	9.09	262.65	7,674.4	-281.2	-2,181.3	2,199.2	3.00	-3.00	0.00
8,100.0	6.09	262.65	7,773.5	-282.9	-2,194.4	2,212.4	3.00	-3.00	0.00
8,200.0	3.09	262.65	7,873.2	-283.9	-2,202.3	2,220.4	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,302.8	0.00	0.00	7,976.0	-284.3	-2,205.1	2,223.2	3.00	-3.00	0.00
EOB @ 1.39° Inc. / 250.00° Azm									
8,395.2	1.39	250.00	8,068.4	-284.6	-2,206.1	2,224.3	1.50	1.50	0.00
8,400.0	1.39	250.00	8,073.2	-284.7	-2,206.2	2,224.4	0.00	0.00	0.00
8,500.0	1.39	250.00	8,173.1	-285.5	-2,208.5	2,226.8	0.00	0.00	0.00
8,600.0	1.39	250.00	8,273.1	-286.3	-2,210.8	2,229.1	0.00	0.00	0.00
Williams Fork									
8,690.9	1.39	250.00	8,364.0	-287.1	-2,212.8	2,231.3	0.00	0.00	0.00
8,700.0	1.39	250.00	8,373.1	-287.2	-2,213.0	2,231.5	0.00	0.00	0.00
8,800.0	1.39	250.00	8,473.0	-288.0	-2,215.3	2,233.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25D-22 496 - Slot 25D-22
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 25D-22 496	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	1.39	250.00	8,573.0	-288.8	-2,217.6	2,236.2	0.00	0.00	0.00
9,000.0	1.39	250.00	8,673.0	-289.6	-2,219.8	2,238.6	0.00	0.00	0.00
9,100.0	1.39	250.00	8,772.9	-290.5	-2,222.1	2,241.0	0.00	0.00	0.00
9,200.0	1.39	250.00	8,872.9	-291.3	-2,224.4	2,243.3	0.00	0.00	0.00
9,300.0	1.39	250.00	8,972.9	-292.1	-2,226.7	2,245.7	0.00	0.00	0.00
9,400.0	1.39	250.00	9,072.9	-293.0	-2,228.9	2,248.1	0.00	0.00	0.00
9,500.0	1.39	250.00	9,172.8	-293.8	-2,231.2	2,250.4	0.00	0.00	0.00
9,600.0	1.39	250.00	9,272.8	-294.6	-2,233.5	2,252.8	0.00	0.00	0.00
9,700.0	1.39	250.00	9,372.8	-295.4	-2,235.8	2,255.1	0.00	0.00	0.00
9,800.0	1.39	250.00	9,472.7	-296.3	-2,238.0	2,257.5	0.00	0.00	0.00
9,900.0	1.39	250.00	9,572.7	-297.1	-2,240.3	2,259.9	0.00	0.00	0.00
10,000.0	1.39	250.00	9,672.7	-297.9	-2,242.6	2,262.2	0.00	0.00	0.00
10,100.0	1.39	250.00	9,772.7	-298.7	-2,244.8	2,264.6	0.00	0.00	0.00
10,200.0	1.39	250.00	9,872.6	-299.6	-2,247.1	2,267.0	0.00	0.00	0.00
10,300.0	1.39	250.00	9,972.6	-300.4	-2,249.4	2,269.3	0.00	0.00	0.00
10,400.0	1.39	250.00	10,072.6	-301.2	-2,251.7	2,271.7	0.00	0.00	0.00
10,500.0	1.39	250.00	10,172.5	-302.1	-2,253.9	2,274.1	0.00	0.00	0.00
10,600.0	1.39	250.00	10,272.5	-302.9	-2,256.2	2,276.4	0.00	0.00	0.00
10,700.0	1.39	250.00	10,372.5	-303.7	-2,258.5	2,278.8	0.00	0.00	0.00
10,800.0	1.39	250.00	10,472.4	-304.5	-2,260.8	2,281.2	0.00	0.00	0.00
10,900.0	1.39	250.00	10,572.4	-305.4	-2,263.0	2,283.5	0.00	0.00	0.00
11,000.0	1.39	250.00	10,672.4	-306.2	-2,265.3	2,285.9	0.00	0.00	0.00
11,100.0	1.39	250.00	10,772.4	-307.0	-2,267.6	2,288.2	0.00	0.00	0.00
11,200.0	1.39	250.00	10,872.3	-307.8	-2,269.8	2,290.6	0.00	0.00	0.00
11,300.0	1.39	250.00	10,972.3	-308.7	-2,272.1	2,293.0	0.00	0.00	0.00
11,400.0	1.39	250.00	11,072.3	-309.5	-2,274.4	2,295.3	0.00	0.00	0.00
Cameo									
11,483.8	1.39	250.00	11,156.0	-310.2	-2,276.3	2,297.3	0.00	0.00	0.00
11,500.0	1.39	250.00	11,172.2	-310.3	-2,276.7	2,297.7	0.00	0.00	0.00
11,600.0	1.39	250.00	11,272.2	-311.1	-2,278.9	2,300.1	0.00	0.00	0.00
11,700.0	1.39	250.00	11,372.2	-312.0	-2,281.2	2,302.4	0.00	0.00	0.00
11,800.0	1.39	250.00	11,472.2	-312.8	-2,283.5	2,304.8	0.00	0.00	0.00
11,900.0	1.39	250.00	11,572.1	-313.6	-2,285.8	2,307.2	0.00	0.00	0.00
Rollins									
11,983.9	1.39	250.00	11,656.0	-314.3	-2,287.7	2,309.1	0.00	0.00	0.00
12,000.0	1.39	250.00	11,672.1	-314.5	-2,288.0	2,309.5	0.00	0.00	0.00
12,100.0	1.39	250.00	11,772.1	-315.3	-2,290.3	2,311.9	0.00	0.00	0.00
12,200.0	1.39	250.00	11,872.0	-316.1	-2,292.6	2,314.3	0.00	0.00	0.00
12,300.0	1.39	250.00	11,972.0	-316.9	-2,294.8	2,316.6	0.00	0.00	0.00
12,400.0	1.39	250.00	12,072.0	-317.8	-2,297.1	2,319.0	0.00	0.00	0.00
TD @ 12484.0' MD / 12156.0' TVD									
12,484.0	1.39	250.00	12,156.0	-318.5	-2,299.0	2,321.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25D-22 496 - Slot 25D-22
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 25D-22 496	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 - 25D-22 - plan hits target center - Point	0.00	0.00	7,976.0	-284.3	-2,205.1	14,423,429.88	2,442,856.93	39.683151	-108.148097
PBHL - 25D-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,156.0	-318.5	-2,299.0	14,423,392.70	2,442,764.10	39.683057	-108.148430

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,419.4	3,293.0	Wasatch			
5,931.2	5,693.0	Wasatch G			
6,245.2	5,993.0	Fort Union			
8,302.8	7,976.0	Ohio Creek			
8,690.9	8,364.0	Williams Fork			
11,483.8	11,156.0	Cameo			
11,983.9	11,656.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Build 3° / 100'
772.0	763.5	-10.9	-84.3	EOB @ 17.16° Inc. / 262.65° Azm
7,730.8	7,412.5	-273.4	-2,120.7	Drop 3° / 100'
8,302.8	7,976.0	-284.3	-2,205.1	EOD @ Vertical / Build 1.5° / 100'
8,395.2	8,068.4	-284.6	-2,206.1	EOB @ 1.39° Inc. / 250.00° Azm
12,484.0	12,156.0	-318.5	-2,299.0	TD @ 12484.0' MD / 12156.0' TVD