

Project: Garfield County, CO
Site: BJU M23A 496 Pad
Well: BJU M23A FED 25D-22 496
Wellbore: Wellbore #1
Design: Design #2
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
3273.0	3460.5	Wasatch
5673.0	6036.9	Wasatch G
5973.0	6359.0	Fort Union
7945.0	8441.2	Ohio Creek
7945.0	8441.2	TOG
8335.0	8831.3	William Fork
11103.0	11600.1	Cameo
11603.0	12100.3	Rollins

SECTION DETAILS

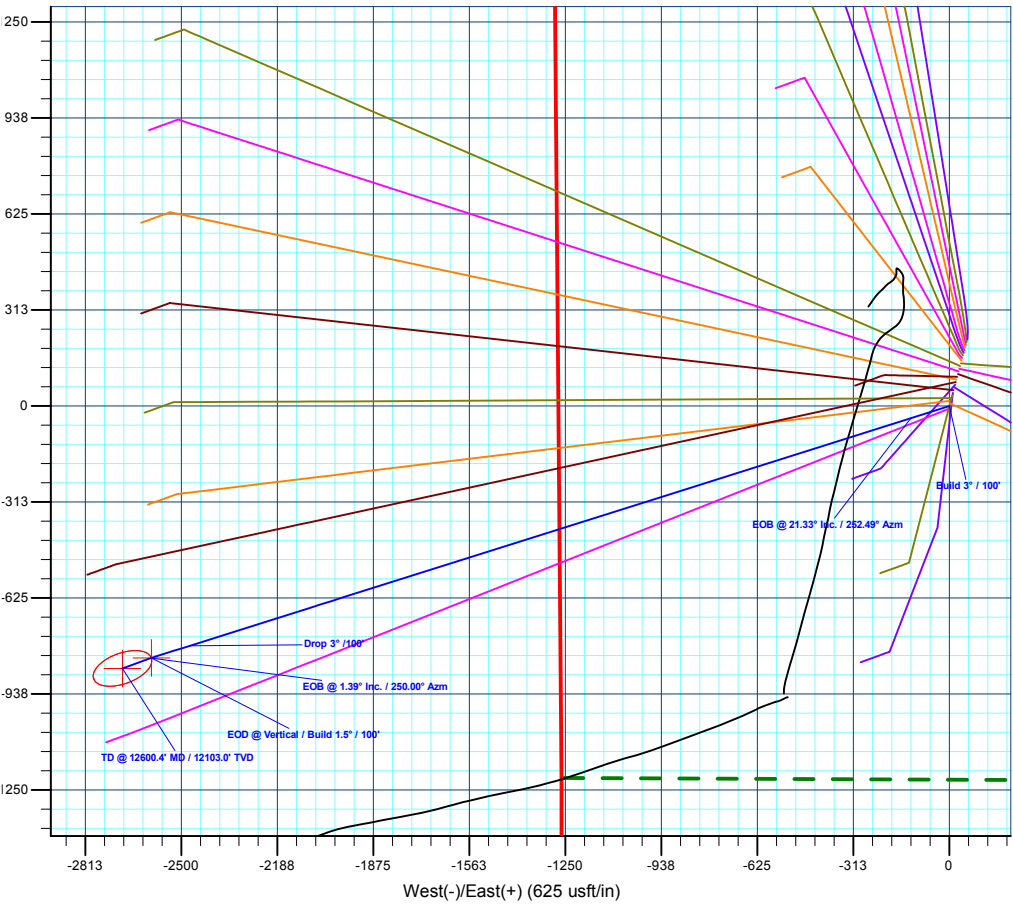
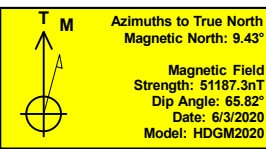
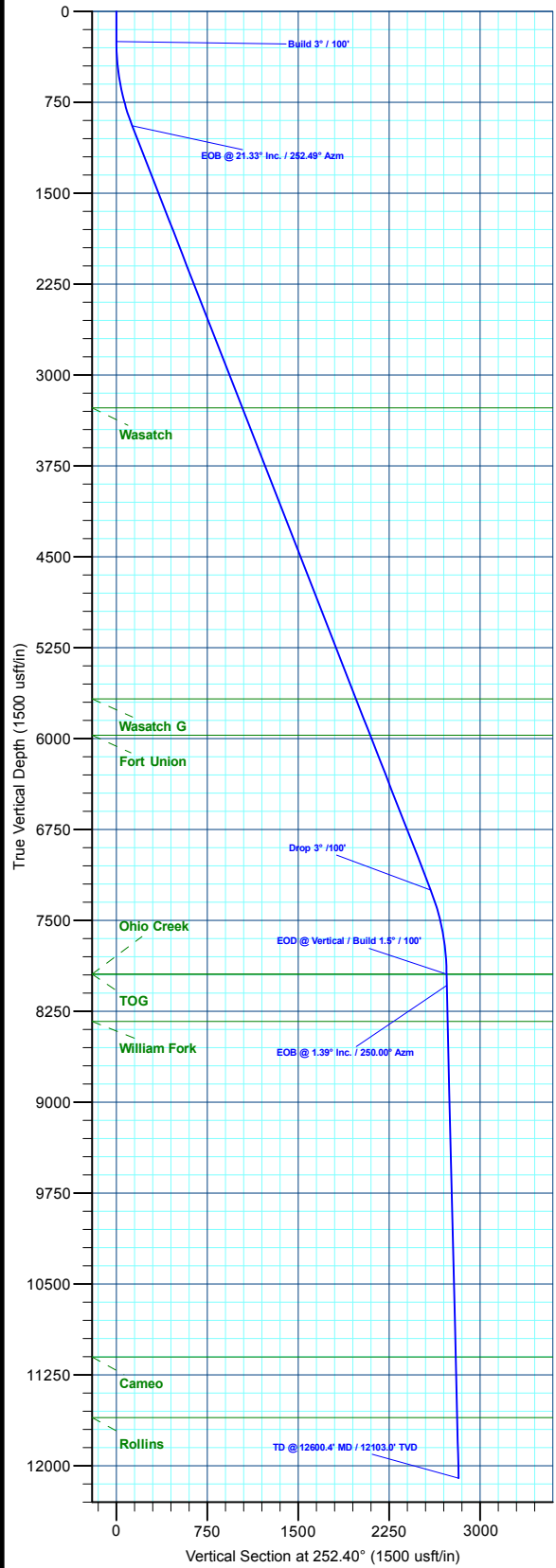
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
960.9	21.33	252.49	944.6	-39.4	-124.7	3.00	252.49	130.8	EOB @ 21.33° Inc. / 252.49° Azm
7730.3	21.33	252.49	7250.4	-780.3	-2472.6	0.00	0.00	2592.8	Drop 3° / 100'
8441.2	0.00	0.00	7945.0	-819.6	-2597.3	3.00	180.00	2723.6	EOD @ Vertical / Build 1.5° / 100'
8534.1	1.39	250.00	8037.9	-820.0	-2598.4	1.50	250.00	2724.7	EOB @ 1.39° Inc. / 250.00° Azm
12600.4	1.39	250.00	12103.0	-853.8	-2691.3	0.00	0.00	2823.5	TD @ 12600.4' MD / 12103.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25D-22	7945.0	-819.6	-2597.3	14422882.28	2442481.93	39.681681	-108.149489
PBHL - 25D-22	12103.0	-853.8	-2691.3	14422845.10	2442389.10	39.681587	-108.149823

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 #2 (BJU M23A FED 25D-22 496/Wellbore #1)

Created By: Will Jircik Date: 16:16, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

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

Wellbore #1

Plan: Design #2

KLX Well Planning Report

18 July, 2022



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 #2		

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 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 #2				
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	252.40	

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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
960.9	21.33	252.49	944.6	-39.4	-124.7	3.00	3.00	0.00	252.49	
7,730.3	21.33	252.49	7,250.4	-780.3	-2,472.6	0.00	0.00	0.00	0.00	
8,441.2	0.00	0.00	7,945.0	-819.6	-2,597.3	3.00	-3.00	0.00	180.00	OHCR - 25D-22
8,534.1	1.39	250.00	8,037.9	-820.0	-2,598.4	1.50	1.50	-118.43	250.00	
12,600.4	1.39	250.00	12,103.0	-853.8	-2,691.3	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 #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
Build 3° / 100'									
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	1.50	252.49	300.0	-0.2	-0.6	0.7	3.00	3.00	0.00
400.0	4.50	252.49	399.8	-1.8	-5.6	5.9	3.00	3.00	0.00
500.0	7.50	252.49	499.3	-4.9	-15.6	16.3	3.00	3.00	0.00
600.0	10.50	252.49	598.0	-9.6	-30.5	32.0	3.00	3.00	0.00
700.0	13.50	252.49	695.8	-15.9	-50.3	52.8	3.00	3.00	0.00
800.0	16.50	252.49	792.4	-23.7	-75.0	78.6	3.00	3.00	0.00
900.0	19.50	252.49	887.5	-33.0	-104.5	109.5	3.00	3.00	0.00
EOB @ 21.33° Inc. / 252.49° Azm									
960.9	21.33	252.49	944.6	-39.4	-124.7	130.8	3.00	3.00	0.00
1,000.0	21.33	252.49	981.0	-43.6	-138.3	145.0	0.00	0.00	0.00
1,100.0	21.33	252.49	1,074.2	-54.6	-173.0	181.4	0.00	0.00	0.00
1,200.0	21.33	252.49	1,167.3	-65.5	-207.7	217.7	0.00	0.00	0.00
1,300.0	21.33	252.49	1,260.5	-76.5	-242.3	254.1	0.00	0.00	0.00
1,400.0	21.33	252.49	1,353.6	-87.4	-277.0	290.5	0.00	0.00	0.00
1,500.0	21.33	252.49	1,446.8	-98.4	-311.7	326.9	0.00	0.00	0.00
1,600.0	21.33	252.49	1,539.9	-109.3	-346.4	363.2	0.00	0.00	0.00
1,700.0	21.33	252.49	1,633.1	-120.3	-381.1	399.6	0.00	0.00	0.00
1,800.0	21.33	252.49	1,726.2	-131.2	-415.8	436.0	0.00	0.00	0.00
1,900.0	21.33	252.49	1,819.4	-142.1	-450.4	472.3	0.00	0.00	0.00
2,000.0	21.33	252.49	1,912.5	-153.1	-485.1	508.7	0.00	0.00	0.00
2,100.0	21.33	252.49	2,005.7	-164.0	-519.8	545.1	0.00	0.00	0.00
2,200.0	21.33	252.49	2,098.8	-175.0	-554.5	581.4	0.00	0.00	0.00
2,300.0	21.33	252.49	2,192.0	-185.9	-589.2	617.8	0.00	0.00	0.00
2,400.0	21.33	252.49	2,285.1	-196.9	-623.9	654.2	0.00	0.00	0.00
2,500.0	21.33	252.49	2,378.3	-207.8	-658.5	690.6	0.00	0.00	0.00
2,600.0	21.33	252.49	2,471.4	-218.8	-693.2	726.9	0.00	0.00	0.00
2,700.0	21.33	252.49	2,564.6	-229.7	-727.9	763.3	0.00	0.00	0.00
2,800.0	21.33	252.49	2,657.8	-240.6	-762.6	799.7	0.00	0.00	0.00
2,900.0	21.33	252.49	2,750.9	-251.6	-797.3	836.0	0.00	0.00	0.00
3,000.0	21.33	252.49	2,844.1	-262.5	-832.0	872.4	0.00	0.00	0.00
3,100.0	21.33	252.49	2,937.2	-273.5	-866.6	908.8	0.00	0.00	0.00
3,200.0	21.33	252.49	3,030.4	-284.4	-901.3	945.1	0.00	0.00	0.00
3,300.0	21.33	252.49	3,123.5	-295.4	-936.0	981.5	0.00	0.00	0.00
3,400.0	21.33	252.49	3,216.7	-306.3	-970.7	1,017.9	0.00	0.00	0.00
Wasatch									
3,460.5	21.33	252.49	3,273.0	-312.9	-991.7	1,039.9	0.00	0.00	0.00
3,500.0	21.33	252.49	3,309.8	-317.3	-1,005.4	1,054.2	0.00	0.00	0.00
3,600.0	21.33	252.49	3,403.0	-328.2	-1,040.1	1,090.6	0.00	0.00	0.00
3,700.0	21.33	252.49	3,496.1	-339.2	-1,074.7	1,127.0	0.00	0.00	0.00
3,800.0	21.33	252.49	3,589.3	-350.1	-1,109.4	1,163.4	0.00	0.00	0.00
3,900.0	21.33	252.49	3,682.4	-361.0	-1,144.1	1,199.7	0.00	0.00	0.00
4,000.0	21.33	252.49	3,775.6	-372.0	-1,178.8	1,236.1	0.00	0.00	0.00
4,100.0	21.33	252.49	3,868.7	-382.9	-1,213.5	1,272.5	0.00	0.00	0.00
4,200.0	21.33	252.49	3,961.9	-393.9	-1,248.2	1,308.8	0.00	0.00	0.00
4,300.0	21.33	252.49	4,055.0	-404.8	-1,282.8	1,345.2	0.00	0.00	0.00
4,400.0	21.33	252.49	4,148.2	-415.8	-1,317.5	1,381.6	0.00	0.00	0.00
4,500.0	21.33	252.49	4,241.3	-426.7	-1,352.2	1,417.9	0.00	0.00	0.00
4,600.0	21.33	252.49	4,334.5	-437.7	-1,386.9	1,454.3	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 25D-22 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
4,700.0	21.33	252.49	4,427.6	-448.6	-1,421.6	1,490.7	0.00	0.00	0.00
4,800.0	21.33	252.49	4,520.8	-459.5	-1,456.3	1,527.1	0.00	0.00	0.00
4,900.0	21.33	252.49	4,613.9	-470.5	-1,490.9	1,563.4	0.00	0.00	0.00
5,000.0	21.33	252.49	4,707.1	-481.4	-1,525.6	1,599.8	0.00	0.00	0.00
5,100.0	21.33	252.49	4,800.2	-492.4	-1,560.3	1,636.2	0.00	0.00	0.00
5,200.0	21.33	252.49	4,893.4	-503.3	-1,595.0	1,672.5	0.00	0.00	0.00
5,300.0	21.33	252.49	4,986.5	-514.3	-1,629.7	1,708.9	0.00	0.00	0.00
5,400.0	21.33	252.49	5,079.7	-525.2	-1,664.4	1,745.3	0.00	0.00	0.00
5,500.0	21.33	252.49	5,172.8	-536.2	-1,699.1	1,781.6	0.00	0.00	0.00
5,600.0	21.33	252.49	5,266.0	-547.1	-1,733.7	1,818.0	0.00	0.00	0.00
5,700.0	21.33	252.49	5,359.2	-558.1	-1,768.4	1,854.4	0.00	0.00	0.00
5,800.0	21.33	252.49	5,452.3	-569.0	-1,803.1	1,890.7	0.00	0.00	0.00
5,900.0	21.33	252.49	5,545.5	-579.9	-1,837.8	1,927.1	0.00	0.00	0.00
6,000.0	21.33	252.49	5,638.6	-590.9	-1,872.5	1,963.5	0.00	0.00	0.00
Wasatch G									
6,036.9	21.33	252.49	5,673.0	-594.9	-1,885.3	1,976.9	0.00	0.00	0.00
6,100.0	21.33	252.49	5,731.8	-601.8	-1,907.2	1,999.9	0.00	0.00	0.00
6,200.0	21.33	252.49	5,824.9	-612.8	-1,941.8	2,036.2	0.00	0.00	0.00
6,300.0	21.33	252.49	5,918.1	-623.7	-1,976.5	2,072.6	0.00	0.00	0.00
Fort Union									
6,359.0	21.33	252.49	5,973.0	-630.2	-1,997.0	2,094.0	0.00	0.00	0.00
6,400.0	21.33	252.49	6,011.2	-634.7	-2,011.2	2,109.0	0.00	0.00	0.00
6,500.0	21.33	252.49	6,104.4	-645.6	-2,045.9	2,145.3	0.00	0.00	0.00
6,600.0	21.33	252.49	6,197.5	-656.6	-2,080.6	2,181.7	0.00	0.00	0.00
6,700.0	21.33	252.49	6,290.7	-667.5	-2,115.3	2,218.1	0.00	0.00	0.00
6,800.0	21.33	252.49	6,383.8	-678.4	-2,149.9	2,254.4	0.00	0.00	0.00
6,900.0	21.33	252.49	6,477.0	-689.4	-2,184.6	2,290.8	0.00	0.00	0.00
7,000.0	21.33	252.49	6,570.1	-700.3	-2,219.3	2,327.2	0.00	0.00	0.00
7,100.0	21.33	252.49	6,663.3	-711.3	-2,254.0	2,363.6	0.00	0.00	0.00
7,200.0	21.33	252.49	6,756.4	-722.2	-2,288.7	2,399.9	0.00	0.00	0.00
7,300.0	21.33	252.49	6,849.6	-733.2	-2,323.4	2,436.3	0.00	0.00	0.00
7,400.0	21.33	252.49	6,942.7	-744.1	-2,358.0	2,472.7	0.00	0.00	0.00
7,500.0	21.33	252.49	7,035.9	-755.1	-2,392.7	2,509.0	0.00	0.00	0.00
7,600.0	21.33	252.49	7,129.0	-766.0	-2,427.4	2,545.4	0.00	0.00	0.00
7,700.0	21.33	252.49	7,222.2	-777.0	-2,462.1	2,581.8	0.00	0.00	0.00
Drop 3° /100'									
7,730.3	21.33	252.49	7,250.4	-780.3	-2,472.6	2,592.8	0.00	0.00	0.00
7,800.0	19.24	252.49	7,315.8	-787.5	-2,495.6	2,616.9	3.00	-3.00	0.00
7,900.0	16.24	252.49	7,411.0	-796.7	-2,524.7	2,647.4	3.00	-3.00	0.00
8,000.0	13.24	252.49	7,507.7	-804.4	-2,548.9	2,672.8	3.00	-3.00	0.00
8,100.0	10.24	252.49	7,605.6	-810.5	-2,568.3	2,693.2	3.00	-3.00	0.00
8,200.0	7.24	252.49	7,704.5	-815.0	-2,582.8	2,708.4	3.00	-3.00	0.00
8,300.0	4.24	252.49	7,803.9	-818.1	-2,592.3	2,718.4	3.00	-3.00	0.00
8,400.0	1.24	252.49	7,903.8	-819.5	-2,596.9	2,723.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,441.2	0.00	0.00	7,945.0	-819.6	-2,597.3	2,723.6	3.00	-3.00	0.00
8,500.0	0.88	250.00	8,003.8	-819.8	-2,597.7	2,724.0	1.50	1.50	0.00
EOB @ 1.39° Inc. / 250.00° Azm									
8,534.1	1.39	250.00	8,037.9	-820.0	-2,598.4	2,724.7	1.50	1.50	0.00
8,600.0	1.39	250.00	8,103.8	-820.6	-2,599.9	2,726.3	0.00	0.00	0.00
8,700.0	1.39	250.00	8,203.8	-821.4	-2,602.2	2,728.7	0.00	0.00	0.00
8,800.0	1.39	250.00	8,303.7	-822.2	-2,604.5	2,731.2	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 25D-22 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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)
William Fork									
8,831.3	1.39	250.00	8,335.0	-822.5	-2,605.2	2,731.9	0.00	0.00	0.00
8,900.0	1.39	250.00	8,403.7	-823.1	-2,606.7	2,733.6	0.00	0.00	0.00
9,000.0	1.39	250.00	8,503.7	-823.9	-2,609.0	2,736.0	0.00	0.00	0.00
9,100.0	1.39	250.00	8,603.6	-824.7	-2,611.3	2,738.5	0.00	0.00	0.00
9,200.0	1.39	250.00	8,703.6	-825.5	-2,613.6	2,740.9	0.00	0.00	0.00
9,300.0	1.39	250.00	8,803.6	-826.4	-2,615.9	2,743.3	0.00	0.00	0.00
9,400.0	1.39	250.00	8,903.5	-827.2	-2,618.2	2,745.7	0.00	0.00	0.00
9,500.0	1.39	250.00	9,003.5	-828.0	-2,620.5	2,748.2	0.00	0.00	0.00
9,600.0	1.39	250.00	9,103.5	-828.9	-2,622.7	2,750.6	0.00	0.00	0.00
9,700.0	1.39	250.00	9,203.5	-829.7	-2,625.0	2,753.0	0.00	0.00	0.00
9,800.0	1.39	250.00	9,303.4	-830.5	-2,627.3	2,755.5	0.00	0.00	0.00
9,900.0	1.39	250.00	9,403.4	-831.4	-2,629.6	2,757.9	0.00	0.00	0.00
10,000.0	1.39	250.00	9,503.4	-832.2	-2,631.9	2,760.3	0.00	0.00	0.00
10,100.0	1.39	250.00	9,603.3	-833.0	-2,634.2	2,762.7	0.00	0.00	0.00
10,200.0	1.39	250.00	9,703.3	-833.9	-2,636.4	2,765.2	0.00	0.00	0.00
10,300.0	1.39	250.00	9,803.3	-834.7	-2,638.7	2,767.6	0.00	0.00	0.00
10,400.0	1.39	250.00	9,903.2	-835.5	-2,641.0	2,770.0	0.00	0.00	0.00
10,500.0	1.39	250.00	10,003.2	-836.4	-2,643.3	2,772.5	0.00	0.00	0.00
10,600.0	1.39	250.00	10,103.2	-837.2	-2,645.6	2,774.9	0.00	0.00	0.00
10,700.0	1.39	250.00	10,203.2	-838.0	-2,647.9	2,777.3	0.00	0.00	0.00
10,800.0	1.39	250.00	10,303.1	-838.9	-2,650.2	2,779.7	0.00	0.00	0.00
10,900.0	1.39	250.00	10,403.1	-839.7	-2,652.4	2,782.2	0.00	0.00	0.00
11,000.0	1.39	250.00	10,503.1	-840.5	-2,654.7	2,784.6	0.00	0.00	0.00
11,100.0	1.39	250.00	10,603.0	-841.3	-2,657.0	2,787.0	0.00	0.00	0.00
11,200.0	1.39	250.00	10,703.0	-842.2	-2,659.3	2,789.5	0.00	0.00	0.00
11,300.0	1.39	250.00	10,803.0	-843.0	-2,661.6	2,791.9	0.00	0.00	0.00
11,400.0	1.39	250.00	10,903.0	-843.8	-2,663.9	2,794.3	0.00	0.00	0.00
11,500.0	1.39	250.00	11,002.9	-844.7	-2,666.1	2,796.8	0.00	0.00	0.00
11,600.0	1.39	250.00	11,102.9	-845.5	-2,668.4	2,799.2	0.00	0.00	0.00
Cameo									
11,600.1	1.39	250.00	11,103.0	-845.5	-2,668.4	2,799.2	0.00	0.00	0.00
11,700.0	1.39	250.00	11,202.9	-846.3	-2,670.7	2,801.6	0.00	0.00	0.00
11,800.0	1.39	250.00	11,302.8	-847.2	-2,673.0	2,804.0	0.00	0.00	0.00
11,900.0	1.39	250.00	11,402.8	-848.0	-2,675.3	2,806.5	0.00	0.00	0.00
12,000.0	1.39	250.00	11,502.8	-848.8	-2,677.6	2,808.9	0.00	0.00	0.00
12,100.0	1.39	250.00	11,602.7	-849.7	-2,679.9	2,811.3	0.00	0.00	0.00
Rollins									
12,100.3	1.39	250.00	11,603.0	-849.7	-2,679.9	2,811.3	0.00	0.00	0.00
12,200.0	1.39	250.00	11,702.7	-850.5	-2,682.1	2,813.8	0.00	0.00	0.00
12,300.0	1.39	250.00	11,802.7	-851.3	-2,684.4	2,816.2	0.00	0.00	0.00
12,400.0	1.39	250.00	11,902.7	-852.2	-2,686.7	2,818.6	0.00	0.00	0.00
12,500.0	1.39	250.00	12,002.6	-853.0	-2,689.0	2,821.0	0.00	0.00	0.00
TD @ 12600.4' MD / 12103.0' TVD									
12,600.4	1.39	250.00	12,103.0	-853.8	-2,691.3	2,823.5	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 #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 - 25D-22 - plan hits target center - Point	0.00	0.00	7,945.0	-819.6	-2,597.3	14,422,882.28	2,442,481.93	39.681681	-108.149490
PBHL - 25D-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,103.0	-853.8	-2,691.3	14,422,845.10	2,442,389.10	39.681587	-108.149823

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,460.5	3,273.0	Wasatch			
6,036.9	5,673.0	Wasatch G			
6,359.0	5,973.0	Fort Union			
8,441.2	7,945.0	Ohio Creek			
8,441.2	7,945.0	TOG			
8,831.3	8,335.0	William Fork			
11,600.1	11,103.0	Cameo			
12,100.3	11,603.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
250.0	250.0	0.0	0.0	Build 3° / 100'
960.9	944.6	-39.4	-124.7	EOB @ 21.33° Inc. / 252.49° Azm
7,730.3	7,250.4	-780.3	-2,472.6	Drop 3° / 100'
8,441.2	7,945.0	-819.6	-2,597.3	EOD @ Vertical / Build 1.5° / 100'
8,534.1	8,037.9	-820.0	-2,598.4	EOB @ 1.39° Inc. / 250.00° Azm
12,600.4	12,103.0	-853.8	-2,691.3	TD @ 12600.4' MD / 12103.0' TVD