

Project: Garfield County, CO
Site: BJU M23A 496 Pad
Well: BJU M23A FED 24A-22 496
Wellbore: Wellbore #1
Design: Design #2
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 - 24A-22(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8134.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3345.0	3520.1	Wasatch
5745.0	6097.4	Wasatch G
6045.0	6419.5	Fort Union
8043.0	8530.1	Ohio Creek
8043.0	8530.1	TOG
8450.0	8937.2	William Fork
11196.0	11684.0	Cameo
11696.0	12184.2	Rollins

SECTION DETAILS

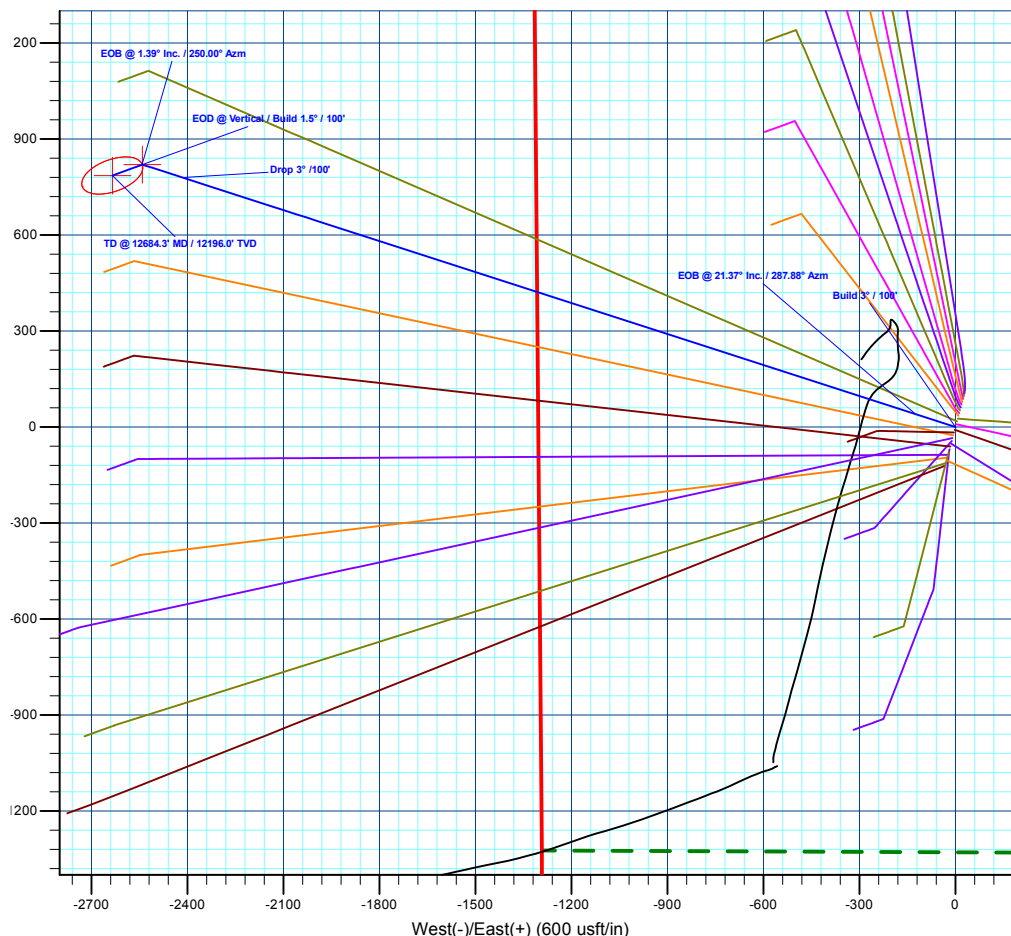
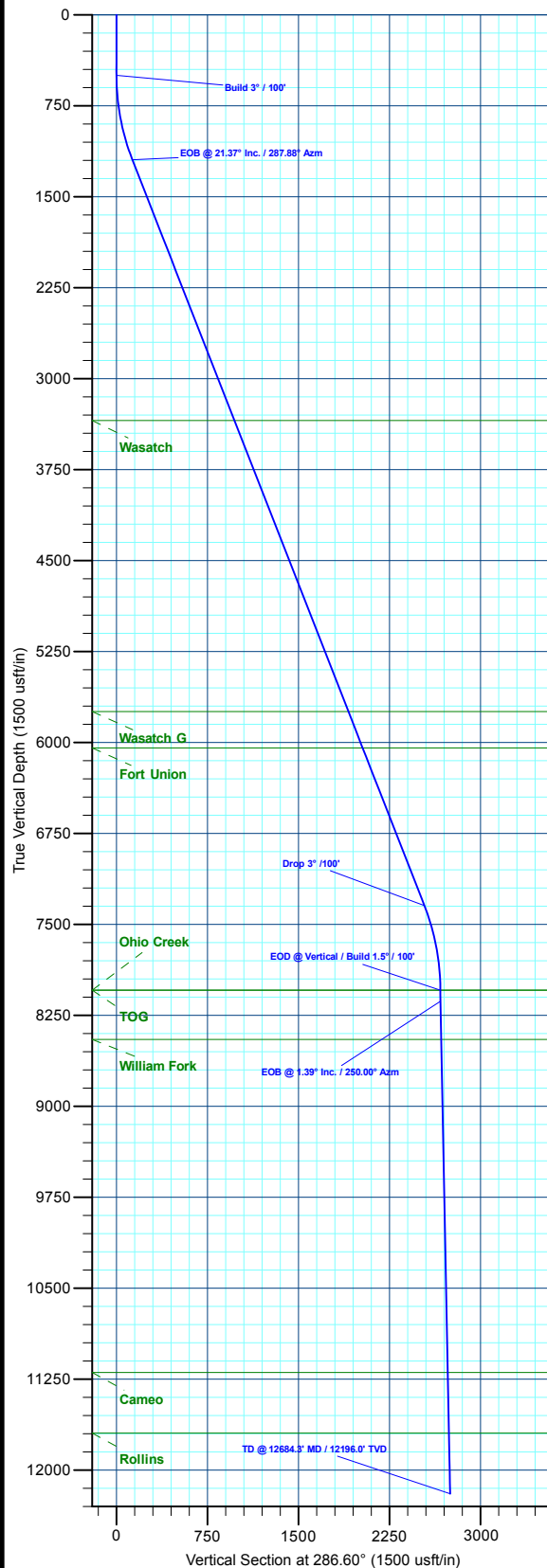
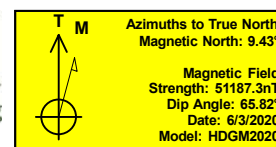
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1212.5	21.37	287.88	1196.1	40.3	-125.0	3.00	287.88	131.3	EOB @ 21.37° Inc. / 287.88° Azm
7817.6	21.37	287.88	7346.9	779.5	-2416.0	0.00	0.00	2538.0	Drop 3° / 100'
8530.1	0.00	0.00	8043.0	819.8	-2541.0	3.00	180.00	2669.3	EOD @ Vertical / Build 1.5° / 100'
8623.1	1.39	250.00	8136.0	819.4	-2542.1	1.50	250.00	2670.2	EOB @ 1.39° Inc. / 250.00° Azm
12684.3	1.39	250.00	12196.0	785.6	-2635.0	0.00	0.00	2749.6	TD @ 12684.3' MD / 12196.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 24A-22	8043.0	819.8	-2541.0	14424636.48	2442512.93	39.686490	-108.149181
PBHL - 24A-22	12196.0	785.6	-2635.0	14424599.30	2442420.10	39.686396	-108.149515

WELL DETAILS: BJU M23A FED 24A-22 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	
0.0	0.0		14423898.10	2445078.80	39.684241	-108.140156	24A-22



Plan: Design #2 (BJU M23A FED 24A-22 496/Wellbore #1)

Created By: Will Jircik

Date: 15:38, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 24A-22 496 - Slot 24A-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 24A-22 496 - Slot 24A-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 24A-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 24A-22 496 - Slot 24A-22		
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 #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	286.60	

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,212.5	21.37	287.88	1,196.1	40.3	-125.0	3.00	3.00	0.00	287.88	
7,817.6	21.37	287.88	7,346.9	779.5	-2,416.0	0.00	0.00	0.00	0.00	
8,530.1	0.00	0.00	8,043.0	819.8	-2,541.0	3.00	-3.00	0.00	180.00	OHCR - 24A-22
8,623.1	1.39	250.00	8,136.0	819.4	-2,542.1	1.50	1.50	-118.28	250.00	
12,684.3	1.39	250.00	12,196.0	785.6	-2,635.0	0.00	0.00	0.00	0.00	PBHL - 24A-22

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 24A-22 496 - Slot 24A-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 24A-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
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
Build 3° / 100'									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	287.88	600.0	0.8	-2.5	2.6	3.00	3.00	0.00
700.0	6.00	287.88	699.6	3.2	-10.0	10.5	3.00	3.00	0.00
800.0	9.00	287.88	798.8	7.2	-22.4	23.5	3.00	3.00	0.00
900.0	12.00	287.88	897.1	12.8	-39.7	41.7	3.00	3.00	0.00
1,000.0	15.00	287.88	994.3	20.0	-61.9	65.1	3.00	3.00	0.00
1,100.0	18.00	287.88	1,090.2	28.7	-89.0	93.5	3.00	3.00	0.00
1,200.0	21.00	287.88	1,184.4	38.9	-120.7	126.8	3.00	3.00	0.00
EOB @ 21.37° Inc. / 287.88° Azm									
1,212.5	21.37	287.88	1,196.1	40.3	-125.0	131.3	3.00	3.00	0.00
1,300.0	21.37	287.88	1,277.6	50.1	-155.4	163.2	0.00	0.00	0.00
1,400.0	21.37	287.88	1,370.7	61.3	-190.1	199.7	0.00	0.00	0.00
1,500.0	21.37	287.88	1,463.8	72.5	-224.7	236.1	0.00	0.00	0.00
1,600.0	21.37	287.88	1,556.9	83.7	-259.4	272.5	0.00	0.00	0.00
1,700.0	21.37	287.88	1,650.1	94.9	-294.1	309.0	0.00	0.00	0.00
1,800.0	21.37	287.88	1,743.2	106.1	-328.8	345.4	0.00	0.00	0.00
1,900.0	21.37	287.88	1,836.3	117.3	-363.5	381.8	0.00	0.00	0.00
2,000.0	21.37	287.88	1,929.4	128.5	-398.2	418.3	0.00	0.00	0.00
2,100.0	21.37	287.88	2,022.5	139.7	-432.9	454.7	0.00	0.00	0.00
2,200.0	21.37	287.88	2,115.7	150.8	-467.5	491.1	0.00	0.00	0.00
2,300.0	21.37	287.88	2,208.8	162.0	-502.2	527.6	0.00	0.00	0.00
2,400.0	21.37	287.88	2,301.9	173.2	-536.9	564.0	0.00	0.00	0.00
2,500.0	21.37	287.88	2,395.0	184.4	-571.6	600.5	0.00	0.00	0.00
2,600.0	21.37	287.88	2,488.2	195.6	-606.3	636.9	0.00	0.00	0.00
2,700.0	21.37	287.88	2,581.3	206.8	-641.0	673.3	0.00	0.00	0.00
2,800.0	21.37	287.88	2,674.4	218.0	-675.6	709.8	0.00	0.00	0.00
2,900.0	21.37	287.88	2,767.5	229.2	-710.3	746.2	0.00	0.00	0.00
3,000.0	21.37	287.88	2,860.6	240.4	-745.0	782.6	0.00	0.00	0.00
3,100.0	21.37	287.88	2,953.8	251.6	-779.7	819.1	0.00	0.00	0.00
3,200.0	21.37	287.88	3,046.9	262.7	-814.4	855.5	0.00	0.00	0.00
3,300.0	21.37	287.88	3,140.0	273.9	-849.1	891.9	0.00	0.00	0.00
3,400.0	21.37	287.88	3,233.1	285.1	-883.8	928.4	0.00	0.00	0.00
3,500.0	21.37	287.88	3,326.3	296.3	-918.4	964.8	0.00	0.00	0.00
Wasatch									
3,520.1	21.37	287.88	3,345.0	298.6	-925.4	972.2	0.00	0.00	0.00
3,600.0	21.37	287.88	3,419.4	307.5	-953.1	1,001.3	0.00	0.00	0.00
3,700.0	21.37	287.88	3,512.5	318.7	-987.8	1,037.7	0.00	0.00	0.00
3,800.0	21.37	287.88	3,605.6	329.9	-1,022.5	1,074.1	0.00	0.00	0.00
3,900.0	21.37	287.88	3,698.7	341.1	-1,057.2	1,110.6	0.00	0.00	0.00
4,000.0	21.37	287.88	3,791.9	352.3	-1,091.9	1,147.0	0.00	0.00	0.00
4,100.0	21.37	287.88	3,885.0	363.5	-1,126.5	1,183.4	0.00	0.00	0.00
4,200.0	21.37	287.88	3,978.1	374.7	-1,161.2	1,219.9	0.00	0.00	0.00
4,300.0	21.37	287.88	4,071.2	385.8	-1,195.9	1,256.3	0.00	0.00	0.00
4,400.0	21.37	287.88	4,164.4	397.0	-1,230.6	1,292.7	0.00	0.00	0.00
4,500.0	21.37	287.88	4,257.5	408.2	-1,265.3	1,329.2	0.00	0.00	0.00
4,600.0	21.37	287.88	4,350.6	419.4	-1,300.0	1,365.6	0.00	0.00	0.00
4,700.0	21.37	287.88	4,443.7	430.6	-1,334.7	1,402.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 24A-22 496 - Slot 24A-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 24A-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)
4,800.0	21.37	287.88	4,536.8	441.8	-1,369.3	1,438.5	0.00	0.00	0.00
4,900.0	21.37	287.88	4,630.0	453.0	-1,404.0	1,474.9	0.00	0.00	0.00
5,000.0	21.37	287.88	4,723.1	464.2	-1,438.7	1,511.4	0.00	0.00	0.00
5,100.0	21.37	287.88	4,816.2	475.4	-1,473.4	1,547.8	0.00	0.00	0.00
5,200.0	21.37	287.88	4,909.3	486.6	-1,508.1	1,584.2	0.00	0.00	0.00
5,300.0	21.37	287.88	5,002.5	497.7	-1,542.8	1,620.7	0.00	0.00	0.00
5,400.0	21.37	287.88	5,095.6	508.9	-1,577.5	1,657.1	0.00	0.00	0.00
5,500.0	21.37	287.88	5,188.7	520.1	-1,612.1	1,693.5	0.00	0.00	0.00
5,600.0	21.37	287.88	5,281.8	531.3	-1,646.8	1,730.0	0.00	0.00	0.00
5,700.0	21.37	287.88	5,374.9	542.5	-1,681.5	1,766.4	0.00	0.00	0.00
5,800.0	21.37	287.88	5,468.1	553.7	-1,716.2	1,802.9	0.00	0.00	0.00
5,900.0	21.37	287.88	5,561.2	564.9	-1,750.9	1,839.3	0.00	0.00	0.00
6,000.0	21.37	287.88	5,654.3	576.1	-1,785.6	1,875.7	0.00	0.00	0.00
Wasatch G									
6,097.4	21.37	287.88	5,745.0	587.0	-1,819.3	1,911.2	0.00	0.00	0.00
6,100.0	21.37	287.88	5,747.4	587.3	-1,820.2	1,912.2	0.00	0.00	0.00
6,200.0	21.37	287.88	5,840.6	598.5	-1,854.9	1,948.6	0.00	0.00	0.00
6,300.0	21.37	287.88	5,933.7	609.7	-1,889.6	1,985.0	0.00	0.00	0.00
6,400.0	21.37	287.88	6,026.8	620.8	-1,924.3	2,021.5	0.00	0.00	0.00
Fort Union									
6,419.5	21.37	287.88	6,045.0	623.0	-1,931.1	2,028.6	0.00	0.00	0.00
6,500.0	21.37	287.88	6,119.9	632.0	-1,959.0	2,057.9	0.00	0.00	0.00
6,600.0	21.37	287.88	6,213.0	643.2	-1,993.7	2,094.3	0.00	0.00	0.00
6,700.0	21.37	287.88	6,306.2	654.4	-2,028.4	2,130.8	0.00	0.00	0.00
6,800.0	21.37	287.88	6,399.3	665.6	-2,063.0	2,167.2	0.00	0.00	0.00
6,900.0	21.37	287.88	6,492.4	676.8	-2,097.7	2,203.7	0.00	0.00	0.00
7,000.0	21.37	287.88	6,585.5	688.0	-2,132.4	2,240.1	0.00	0.00	0.00
7,100.0	21.37	287.88	6,678.7	699.2	-2,167.1	2,276.5	0.00	0.00	0.00
7,200.0	21.37	287.88	6,771.8	710.4	-2,201.8	2,313.0	0.00	0.00	0.00
7,300.0	21.37	287.88	6,864.9	721.6	-2,236.5	2,349.4	0.00	0.00	0.00
7,400.0	21.37	287.88	6,958.0	732.7	-2,271.1	2,385.8	0.00	0.00	0.00
7,500.0	21.37	287.88	7,051.1	743.9	-2,305.8	2,422.3	0.00	0.00	0.00
7,600.0	21.37	287.88	7,144.3	755.1	-2,340.5	2,458.7	0.00	0.00	0.00
7,700.0	21.37	287.88	7,237.4	766.3	-2,375.2	2,495.1	0.00	0.00	0.00
7,800.0	21.37	287.88	7,330.5	777.5	-2,409.9	2,531.6	0.00	0.00	0.00
Drop 3° /100'									
7,817.6	21.37	287.88	7,346.9	779.5	-2,416.0	2,538.0	0.00	0.00	0.00
7,900.0	18.90	287.88	7,424.3	788.2	-2,443.0	2,566.4	3.00	-3.00	0.00
8,000.0	15.90	287.88	7,519.7	797.4	-2,471.5	2,596.3	3.00	-3.00	0.00
8,100.0	12.90	287.88	7,616.5	805.0	-2,495.1	2,621.1	3.00	-3.00	0.00
8,200.0	9.90	287.88	7,714.5	811.1	-2,513.9	2,640.9	3.00	-3.00	0.00
8,300.0	6.90	287.88	7,813.4	815.6	-2,527.8	2,655.5	3.00	-3.00	0.00
8,400.0	3.90	287.88	7,913.0	818.5	-2,536.8	2,664.9	3.00	-3.00	0.00
8,500.0	0.90	287.88	8,012.9	819.7	-2,540.8	2,669.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,530.1	0.00	0.00	8,043.0	819.8	-2,541.0	2,669.3	3.00	-3.00	0.00
8,600.0	1.05	250.00	8,112.9	819.6	-2,541.6	2,669.8	1.50	1.50	0.00
EOB @ 1.39° Inc. / 250.00° Azm									
8,623.1	1.39	250.00	8,136.0	819.4	-2,542.1	2,670.2	1.50	1.50	0.00
8,700.0	1.39	250.00	8,212.9	818.8	-2,543.8	2,671.7	0.00	0.00	0.00
8,800.0	1.39	250.00	8,312.8	818.0	-2,546.1	2,673.7	0.00	0.00	0.00
8,900.0	1.39	250.00	8,412.8	817.1	-2,548.4	2,675.7	0.00	0.00	0.00

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Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 24A-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									
8,937.2	1.39	250.00	8,450.0	816.8	-2,549.3	2,676.4	0.00	0.00	0.00
9,000.0	1.39	250.00	8,512.8	816.3	-2,550.7	2,677.6	0.00	0.00	0.00
9,100.0	1.39	250.00	8,612.7	815.5	-2,553.0	2,679.6	0.00	0.00	0.00
9,200.0	1.39	250.00	8,712.7	814.6	-2,555.3	2,681.5	0.00	0.00	0.00
9,300.0	1.39	250.00	8,812.7	813.8	-2,557.6	2,683.5	0.00	0.00	0.00
9,400.0	1.39	250.00	8,912.6	813.0	-2,559.9	2,685.4	0.00	0.00	0.00
9,500.0	1.39	250.00	9,012.6	812.1	-2,562.1	2,687.4	0.00	0.00	0.00
9,600.0	1.39	250.00	9,112.6	811.3	-2,564.4	2,689.3	0.00	0.00	0.00
9,700.0	1.39	250.00	9,212.6	810.5	-2,566.7	2,691.3	0.00	0.00	0.00
9,800.0	1.39	250.00	9,312.5	809.6	-2,569.0	2,693.2	0.00	0.00	0.00
9,900.0	1.39	250.00	9,412.5	808.8	-2,571.3	2,695.2	0.00	0.00	0.00
10,000.0	1.39	250.00	9,512.5	808.0	-2,573.6	2,697.2	0.00	0.00	0.00
10,100.0	1.39	250.00	9,612.4	807.1	-2,575.9	2,699.1	0.00	0.00	0.00
10,200.0	1.39	250.00	9,712.4	806.3	-2,578.2	2,701.1	0.00	0.00	0.00
10,300.0	1.39	250.00	9,812.4	805.5	-2,580.4	2,703.0	0.00	0.00	0.00
10,400.0	1.39	250.00	9,912.3	804.6	-2,582.7	2,705.0	0.00	0.00	0.00
10,500.0	1.39	250.00	10,012.3	803.8	-2,585.0	2,706.9	0.00	0.00	0.00
10,600.0	1.39	250.00	10,112.3	803.0	-2,587.3	2,708.9	0.00	0.00	0.00
10,700.0	1.39	250.00	10,212.3	802.1	-2,589.6	2,710.8	0.00	0.00	0.00
10,800.0	1.39	250.00	10,312.2	801.3	-2,591.9	2,712.8	0.00	0.00	0.00
10,900.0	1.39	250.00	10,412.2	800.5	-2,594.2	2,714.7	0.00	0.00	0.00
11,000.0	1.39	250.00	10,512.2	799.6	-2,596.5	2,716.7	0.00	0.00	0.00
11,100.0	1.39	250.00	10,612.1	798.8	-2,598.7	2,718.6	0.00	0.00	0.00
11,200.0	1.39	250.00	10,712.1	798.0	-2,601.0	2,720.6	0.00	0.00	0.00
11,300.0	1.39	250.00	10,812.1	797.1	-2,603.3	2,722.6	0.00	0.00	0.00
11,400.0	1.39	250.00	10,912.1	796.3	-2,605.6	2,724.5	0.00	0.00	0.00
11,500.0	1.39	250.00	11,012.0	795.5	-2,607.9	2,726.5	0.00	0.00	0.00
11,600.0	1.39	250.00	11,112.0	794.6	-2,610.2	2,728.4	0.00	0.00	0.00
Cameo									
11,684.0	1.39	250.00	11,196.0	793.9	-2,612.1	2,730.1	0.00	0.00	0.00
11,700.0	1.39	250.00	11,212.0	793.8	-2,612.5	2,730.4	0.00	0.00	0.00
11,800.0	1.39	250.00	11,311.9	793.0	-2,614.8	2,732.3	0.00	0.00	0.00
11,900.0	1.39	250.00	11,411.9	792.1	-2,617.0	2,734.3	0.00	0.00	0.00
12,000.0	1.39	250.00	11,511.9	791.3	-2,619.3	2,736.2	0.00	0.00	0.00
12,100.0	1.39	250.00	11,611.8	790.5	-2,621.6	2,738.2	0.00	0.00	0.00
Rollins									
12,184.2	1.39	250.00	11,696.0	789.8	-2,623.5	2,739.8	0.00	0.00	0.00
12,200.0	1.39	250.00	11,711.8	789.6	-2,623.9	2,740.1	0.00	0.00	0.00
12,300.0	1.39	250.00	11,811.8	788.8	-2,626.2	2,742.1	0.00	0.00	0.00
12,400.0	1.39	250.00	11,911.8	788.0	-2,628.5	2,744.1	0.00	0.00	0.00
12,500.0	1.39	250.00	12,011.7	787.2	-2,630.8	2,746.0	0.00	0.00	0.00
12,600.0	1.39	250.00	12,111.7	786.3	-2,633.1	2,748.0	0.00	0.00	0.00
TD @ 12684.3' MD / 12196.0' TVD									
12,684.3	1.39	250.00	12,196.0	785.6	-2,635.0	2,749.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 24A-22 496 - Slot 24A-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 24A-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 - 24A-22 - plan hits target center - Point	0.00	0.00	8,043.0	819.8	-2,541.0	14,424,636.48	2,442,512.93	39.686490	-108.149182
PBHL - 24A-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,196.0	785.6	-2,635.0	14,424,599.30	2,442,420.10	39.686396	-108.149515

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,520.1	3,345.0	Wasatch			
6,097.4	5,745.0	Wasatch G			
6,419.5	6,045.0	Fort Union			
8,530.1	8,043.0	Ohio Creek			
8,530.1	8,043.0	TOG			
8,937.2	8,450.0	William Fork			
11,684.0	11,196.0	Cameo			
12,184.2	11,696.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	Build 3° / 100'
1,212.5	1,196.1	40.3	-125.0	EOB @ 21.37° Inc. / 287.88° Azm
7,817.6	7,346.9	779.5	-2,416.0	Drop 3° / 100'
8,530.1	8,043.0	819.8	-2,541.0	EOD @ Vertical / Build 1.5° / 100'
8,623.1	8,136.0	819.4	-2,542.1	EOB @ 1.39° Inc. / 250.00° Azm
12,684.3	12,196.0	785.6	-2,635.0	TD @ 12684.3' MD / 12196.0' TVD