

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 12A-23 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.684527
 Longitude: -108.140056
 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 - 12A-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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1035.2	25.06	345.92	1008.8	174.3	-43.7	3.00	345.92	179.7	EOB @ 25.06° Inc. / 345.92° Azm
8088.3	25.06	345.92	7398.2	3071.7	-770.3	0.00	0.00	3165.4	Drop 3° / 100'
8923.5	0.00	0.00	8207.0	3246.0	-814.0	3.00	180.00	3345.0	EOD @ Vertical / Build 1.5° / 100'
9013.7	1.35	250.00	8297.2	3245.6	-815.0	1.50	250.00	3344.9	EOB @ 1.35° Inc. / 250.00° Azm
13202.7	1.35	250.00	12485.0	3211.8	-907.9	0.00	0.00	3337.7	TD @ 13202.7 MD / 12485.0 TVD

FORMATION TOP DETAILS

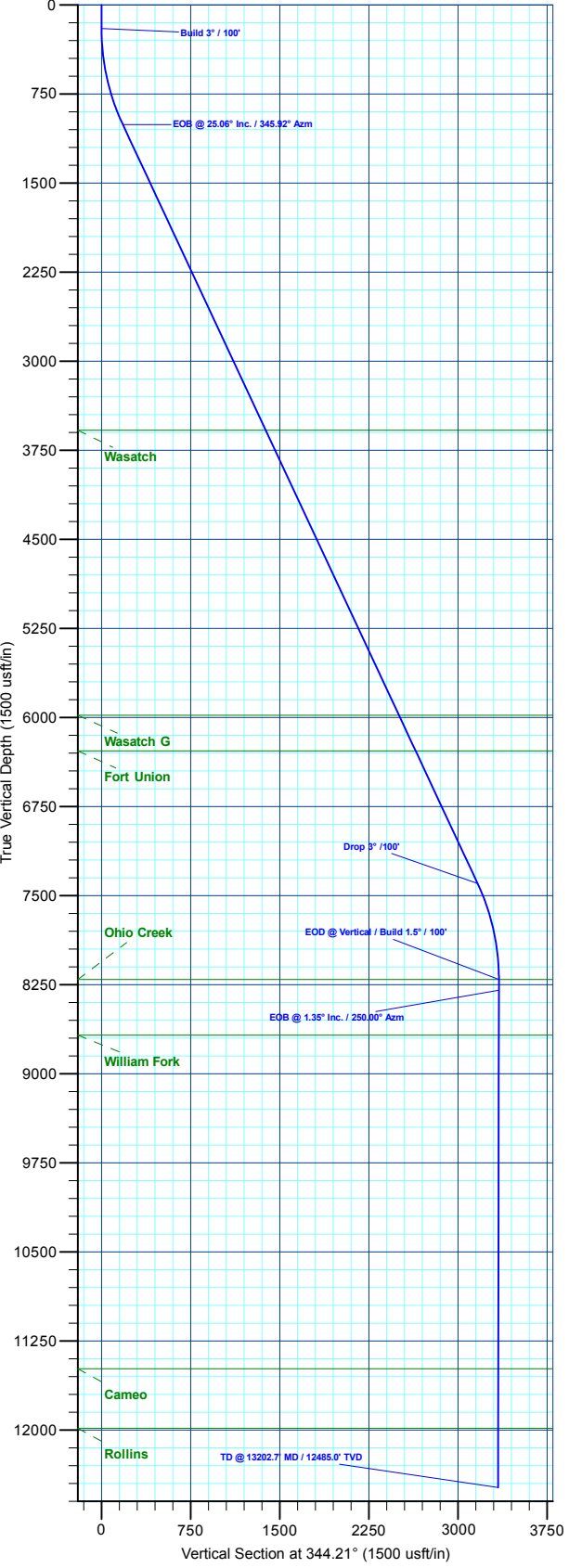
TVDPath	MDPath	Formation
3583.0	3876.8	Wasatch
5983.0	6526.1	Wasatch G
6283.0	6857.3	Fort Union
8207.0	8923.5	Ohio Creek
8677.0	9393.6	William Fork
11485.0	12202.4	Cameo
11985.0	12702.5	Rollins

DESIGN TARGET DETAILS

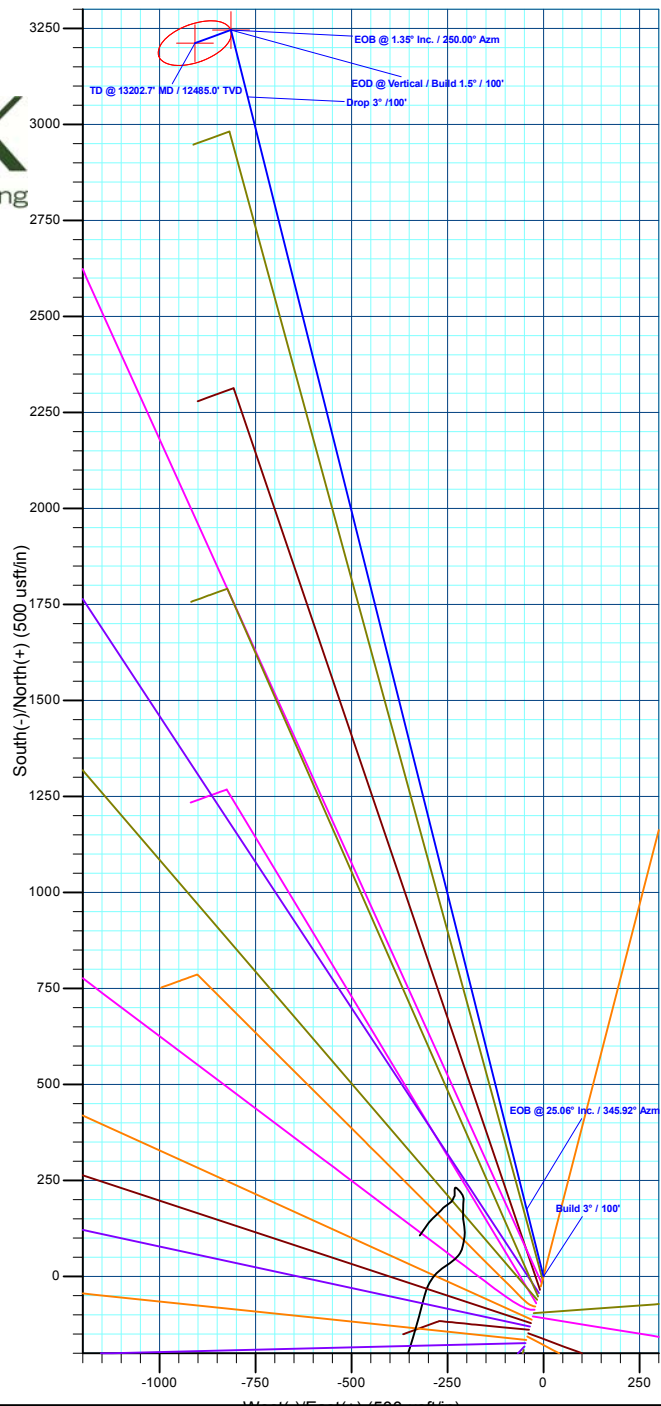
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
OHCR - 12A-23	8207.0	3246.0	-814.0	14427221.58	2444186.53	39.693435	-108.142947
PBHL - 12A-23	12485.0	3211.8	-907.9	14427184.40	2444093.70	39.693341	-108.143281

WELL DETAILS: BJU M23A FED 12A-23 496

+N-S	+E-W	Ground Level : 8104.0	Latitude	Longitude
0.0	0.0	Northing : 14424003.20 Easting : 2445103.60	39.684527	-108.140056 12A-23



T M Azimuths to True North
 Magnetic North: 9.43°
 Magnetic Field
 Strength: 51186.8nT
 Dip Angle: 65.82°
 Date: 6/3/2020
 Model: HDGM2020



Plan: Design #3 (BJU M23A FED 12A-23 496/Wellbore #1)
 Created By: Will Jircik Date: 20:28, January 04 2023



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 12A-23 496 - Slot 12A-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 12A-23 496 - Slot 12A-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 12A-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 12A-23 496 - Slot 12A-23					
Well Position	+N/-S	-25.1 usft	Northing:	14,424,003.20 usft	Latitude:	39.684527
	+E/-W	-6.8 usft	Easting:	2,445,103.60 usft	Longitude:	-108.140056
Position Uncertainty		0.0 usft	Wellhead Elevation:		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	51,186.80000000

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	344.21

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		
1,035.2	25.06	345.92	1,008.8	174.3	-43.7	3.00	3.00	0.00	345.92		
8,088.3	25.06	345.92	7,398.2	3,071.7	-770.3	0.00	0.00	0.00	0.00		
8,923.5	0.00	0.00	8,207.0	3,246.0	-814.0	3.00	-3.00	0.00	180.00	OHCR - 12A-23	
9,013.7	1.35	250.00	8,297.2	3,245.6	-815.0	1.50	1.50	-121.92	250.00		
13,202.7	1.35	250.00	12,485.0	3,211.8	-907.9	0.00	0.00	0.00	0.00	PBHL - 12A-23	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12A-23 496 - Slot 12A-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 12A-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
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	345.92	300.0	2.5	-0.6	2.6	3.00	3.00	0.00
400.0	6.00	345.92	399.6	10.1	-2.5	10.5	3.00	3.00	0.00
500.0	9.00	345.92	498.8	22.8	-5.7	23.5	3.00	3.00	0.00
600.0	12.00	345.92	597.1	40.5	-10.2	41.7	3.00	3.00	0.00
700.0	15.00	345.92	694.3	63.1	-15.8	65.0	3.00	3.00	0.00
800.0	18.00	345.92	790.2	90.7	-22.7	93.4	3.00	3.00	0.00
900.0	21.00	345.92	884.4	123.0	-30.9	126.8	3.00	3.00	0.00
1,000.0	24.00	345.92	976.8	160.2	-40.2	165.0	3.00	3.00	0.00
EOB @ 25.06° Inc. / 345.92° Azm									
1,035.2	25.06	345.92	1,008.8	174.3	-43.7	179.7	3.00	3.00	0.00
1,100.0	25.06	345.92	1,067.5	201.0	-50.4	207.1	0.00	0.00	0.00
1,200.0	25.06	345.92	1,158.1	242.0	-60.7	249.4	0.00	0.00	0.00
1,300.0	25.06	345.92	1,248.7	283.1	-71.0	291.7	0.00	0.00	0.00
1,400.0	25.06	345.92	1,339.3	324.2	-81.3	334.1	0.00	0.00	0.00
1,500.0	25.06	345.92	1,429.9	365.3	-91.6	376.4	0.00	0.00	0.00
1,600.0	25.06	345.92	1,520.5	406.3	-101.9	418.7	0.00	0.00	0.00
1,700.0	25.06	345.92	1,611.1	447.4	-112.2	461.1	0.00	0.00	0.00
1,800.0	25.06	345.92	1,701.7	488.5	-122.5	503.4	0.00	0.00	0.00
1,900.0	25.06	345.92	1,792.2	529.6	-132.8	545.7	0.00	0.00	0.00
2,000.0	25.06	345.92	1,882.8	570.7	-143.1	588.1	0.00	0.00	0.00
2,100.0	25.06	345.92	1,973.4	611.7	-153.4	630.4	0.00	0.00	0.00
2,200.0	25.06	345.92	2,064.0	652.8	-163.7	672.7	0.00	0.00	0.00
2,300.0	25.06	345.92	2,154.6	693.9	-174.0	715.1	0.00	0.00	0.00
2,400.0	25.06	345.92	2,245.2	735.0	-184.3	757.4	0.00	0.00	0.00
2,500.0	25.06	345.92	2,335.8	776.1	-194.6	799.7	0.00	0.00	0.00
2,600.0	25.06	345.92	2,426.4	817.1	-204.9	842.1	0.00	0.00	0.00
2,700.0	25.06	345.92	2,517.0	858.2	-215.2	884.4	0.00	0.00	0.00
2,800.0	25.06	345.92	2,607.6	899.3	-225.5	926.7	0.00	0.00	0.00
2,900.0	25.06	345.92	2,698.1	940.4	-235.8	969.1	0.00	0.00	0.00
3,000.0	25.06	345.92	2,788.7	981.4	-246.1	1,011.4	0.00	0.00	0.00
3,100.0	25.06	345.92	2,879.3	1,022.5	-256.4	1,053.7	0.00	0.00	0.00
3,200.0	25.06	345.92	2,969.9	1,063.6	-266.7	1,096.1	0.00	0.00	0.00
3,300.0	25.06	345.92	3,060.5	1,104.7	-277.0	1,138.4	0.00	0.00	0.00
3,400.0	25.06	345.92	3,151.1	1,145.8	-287.3	1,180.7	0.00	0.00	0.00
3,500.0	25.06	345.92	3,241.7	1,186.8	-297.6	1,223.0	0.00	0.00	0.00
3,600.0	25.06	345.92	3,332.3	1,227.9	-307.9	1,265.4	0.00	0.00	0.00
3,700.0	25.06	345.92	3,422.9	1,269.0	-318.2	1,307.7	0.00	0.00	0.00
3,800.0	25.06	345.92	3,513.4	1,310.1	-328.5	1,350.0	0.00	0.00	0.00
Wasatch									
3,876.8	25.06	345.92	3,583.0	1,341.6	-336.4	1,382.5	0.00	0.00	0.00
3,900.0	25.06	345.92	3,604.0	1,351.2	-338.8	1,392.4	0.00	0.00	0.00
4,000.0	25.06	345.92	3,694.6	1,392.2	-349.1	1,434.7	0.00	0.00	0.00
4,100.0	25.06	345.92	3,785.2	1,433.3	-359.4	1,477.0	0.00	0.00	0.00
4,200.0	25.06	345.92	3,875.8	1,474.4	-369.7	1,519.4	0.00	0.00	0.00
4,300.0	25.06	345.92	3,966.4	1,515.5	-380.0	1,561.7	0.00	0.00	0.00
4,400.0	25.06	345.92	4,057.0	1,556.6	-390.3	1,604.0	0.00	0.00	0.00
4,500.0	25.06	345.92	4,147.6	1,597.6	-400.6	1,646.4	0.00	0.00	0.00
4,600.0	25.06	345.92	4,238.2	1,638.7	-410.9	1,688.7	0.00	0.00	0.00
4,700.0	25.06	345.92	4,328.7	1,679.8	-421.2	1,731.0	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 12A-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)
4,800.0	25.06	345.92	4,419.3	1,720.9	-431.5	1,773.4	0.00	0.00	0.00
4,900.0	25.06	345.92	4,509.9	1,761.9	-441.8	1,815.7	0.00	0.00	0.00
5,000.0	25.06	345.92	4,600.5	1,803.0	-452.1	1,858.0	0.00	0.00	0.00
5,100.0	25.06	345.92	4,691.1	1,844.1	-462.4	1,900.4	0.00	0.00	0.00
5,200.0	25.06	345.92	4,781.7	1,885.2	-472.7	1,942.7	0.00	0.00	0.00
5,300.0	25.06	345.92	4,872.3	1,926.3	-483.0	1,985.0	0.00	0.00	0.00
5,400.0	25.06	345.92	4,962.9	1,967.3	-493.3	2,027.4	0.00	0.00	0.00
5,500.0	25.06	345.92	5,053.5	2,008.4	-503.6	2,069.7	0.00	0.00	0.00
5,600.0	25.06	345.92	5,144.1	2,049.5	-513.9	2,112.0	0.00	0.00	0.00
5,700.0	25.06	345.92	5,234.6	2,090.6	-524.2	2,154.3	0.00	0.00	0.00
5,800.0	25.06	345.92	5,325.2	2,131.7	-534.5	2,196.7	0.00	0.00	0.00
5,900.0	25.06	345.92	5,415.8	2,172.7	-544.8	2,239.0	0.00	0.00	0.00
6,000.0	25.06	345.92	5,506.4	2,213.8	-555.1	2,281.3	0.00	0.00	0.00
6,100.0	25.06	345.92	5,597.0	2,254.9	-565.4	2,323.7	0.00	0.00	0.00
6,200.0	25.06	345.92	5,687.6	2,296.0	-575.8	2,366.0	0.00	0.00	0.00
6,300.0	25.06	345.92	5,778.2	2,337.0	-586.1	2,408.3	0.00	0.00	0.00
6,400.0	25.06	345.92	5,868.8	2,378.1	-596.4	2,450.7	0.00	0.00	0.00
6,500.0	25.06	345.92	5,959.4	2,419.2	-606.7	2,493.0	0.00	0.00	0.00
Wasatch G									
6,526.1	25.06	345.92	5,983.0	2,429.9	-609.3	2,504.1	0.00	0.00	0.00
6,600.0	25.06	345.92	6,049.9	2,460.3	-617.0	2,535.3	0.00	0.00	0.00
6,700.0	25.06	345.92	6,140.5	2,501.4	-627.3	2,577.7	0.00	0.00	0.00
6,800.0	25.06	345.92	6,231.1	2,542.4	-637.6	2,620.0	0.00	0.00	0.00
Fort Union									
6,857.3	25.06	345.92	6,283.0	2,566.0	-643.5	2,644.2	0.00	0.00	0.00
6,900.0	25.06	345.92	6,321.7	2,583.5	-647.9	2,662.3	0.00	0.00	0.00
7,000.0	25.06	345.92	6,412.3	2,624.6	-658.2	2,704.7	0.00	0.00	0.00
7,100.0	25.06	345.92	6,502.9	2,665.7	-668.5	2,747.0	0.00	0.00	0.00
7,200.0	25.06	345.92	6,593.5	2,706.8	-678.8	2,789.3	0.00	0.00	0.00
7,300.0	25.06	345.92	6,684.1	2,747.8	-689.1	2,831.7	0.00	0.00	0.00
7,400.0	25.06	345.92	6,774.7	2,788.9	-699.4	2,874.0	0.00	0.00	0.00
7,500.0	25.06	345.92	6,865.2	2,830.0	-709.7	2,916.3	0.00	0.00	0.00
7,600.0	25.06	345.92	6,955.8	2,871.1	-720.0	2,958.7	0.00	0.00	0.00
7,700.0	25.06	345.92	7,046.4	2,912.2	-730.3	3,001.0	0.00	0.00	0.00
7,800.0	25.06	345.92	7,137.0	2,953.2	-740.6	3,043.3	0.00	0.00	0.00
7,900.0	25.06	345.92	7,227.6	2,994.3	-750.9	3,085.7	0.00	0.00	0.00
8,000.0	25.06	345.92	7,318.2	3,035.4	-761.2	3,128.0	0.00	0.00	0.00
Drop 3° /100'									
8,088.3	25.06	345.92	7,398.2	3,071.7	-770.3	3,165.4	0.00	0.00	0.00
8,100.0	24.70	345.92	7,408.8	3,076.4	-771.5	3,170.3	3.00	-3.00	0.00
8,200.0	21.70	345.92	7,500.7	3,114.7	-781.0	3,209.7	3.00	-3.00	0.00
8,300.0	18.70	345.92	7,594.5	3,148.1	-789.4	3,244.2	3.00	-3.00	0.00
8,400.0	15.70	345.92	7,690.0	3,176.8	-796.6	3,273.7	3.00	-3.00	0.00
8,500.0	12.70	345.92	7,787.0	3,200.6	-802.6	3,298.3	3.00	-3.00	0.00
8,600.0	9.70	345.92	7,885.1	3,219.5	-807.3	3,317.7	3.00	-3.00	0.00
8,700.0	6.70	345.92	7,984.0	3,233.3	-810.8	3,331.9	3.00	-3.00	0.00
8,800.0	3.70	345.92	8,083.6	3,242.1	-813.0	3,341.0	3.00	-3.00	0.00
8,900.0	0.70	345.92	8,183.5	3,245.8	-813.9	3,344.9	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,923.5	0.00	0.00	8,207.0	3,246.0	-814.0	3,345.0	3.00	-3.00	0.00
9,000.0	1.15	250.00	8,283.5	3,245.7	-814.7	3,344.9	1.50	1.50	0.00
EOB @ 1.35° Inc. / 250.00° Azm									

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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 12A-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)
9,013.7	1.35	250.00	8,297.2	3,245.6	-815.0	3,344.9	1.50	1.50	0.00
9,100.0	1.35	250.00	8,383.5	3,244.9	-816.9	3,344.8	0.00	0.00	0.00
9,200.0	1.35	250.00	8,483.5	3,244.1	-819.1	3,344.6	0.00	0.00	0.00
9,300.0	1.35	250.00	8,583.4	3,243.3	-821.3	3,344.4	0.00	0.00	0.00
William Fork									
9,393.6	1.35	250.00	8,677.0	3,242.6	-823.4	3,344.3	0.00	0.00	0.00
9,400.0	1.35	250.00	8,683.4	3,242.5	-823.6	3,344.3	0.00	0.00	0.00
9,500.0	1.35	250.00	8,783.4	3,241.7	-825.8	3,344.1	0.00	0.00	0.00
9,600.0	1.35	250.00	8,883.3	3,240.9	-828.0	3,343.9	0.00	0.00	0.00
9,700.0	1.35	250.00	8,983.3	3,240.1	-830.2	3,343.7	0.00	0.00	0.00
9,800.0	1.35	250.00	9,083.3	3,239.3	-832.4	3,343.6	0.00	0.00	0.00
9,900.0	1.35	250.00	9,183.3	3,238.5	-834.7	3,343.4	0.00	0.00	0.00
10,000.0	1.35	250.00	9,283.2	3,237.7	-836.9	3,343.2	0.00	0.00	0.00
10,100.0	1.35	250.00	9,383.2	3,236.8	-839.1	3,343.0	0.00	0.00	0.00
10,200.0	1.35	250.00	9,483.2	3,236.0	-841.3	3,342.9	0.00	0.00	0.00
10,300.0	1.35	250.00	9,583.2	3,235.2	-843.5	3,342.7	0.00	0.00	0.00
10,400.0	1.35	250.00	9,683.1	3,234.4	-845.7	3,342.5	0.00	0.00	0.00
10,500.0	1.35	250.00	9,783.1	3,233.6	-848.0	3,342.3	0.00	0.00	0.00
10,600.0	1.35	250.00	9,883.1	3,232.8	-850.2	3,342.2	0.00	0.00	0.00
10,700.0	1.35	250.00	9,983.0	3,232.0	-852.4	3,342.0	0.00	0.00	0.00
10,800.0	1.35	250.00	10,083.0	3,231.2	-854.6	3,341.8	0.00	0.00	0.00
10,900.0	1.35	250.00	10,183.0	3,230.4	-856.8	3,341.7	0.00	0.00	0.00
11,000.0	1.35	250.00	10,283.0	3,229.6	-859.1	3,341.5	0.00	0.00	0.00
11,100.0	1.35	250.00	10,382.9	3,228.8	-861.3	3,341.3	0.00	0.00	0.00
11,200.0	1.35	250.00	10,482.9	3,228.0	-863.5	3,341.1	0.00	0.00	0.00
11,300.0	1.35	250.00	10,582.9	3,227.2	-865.7	3,341.0	0.00	0.00	0.00
11,400.0	1.35	250.00	10,682.8	3,226.3	-867.9	3,340.8	0.00	0.00	0.00
11,500.0	1.35	250.00	10,782.8	3,225.5	-870.2	3,340.6	0.00	0.00	0.00
11,600.0	1.35	250.00	10,882.8	3,224.7	-872.4	3,340.4	0.00	0.00	0.00
11,700.0	1.35	250.00	10,982.8	3,223.9	-874.6	3,340.3	0.00	0.00	0.00
11,800.0	1.35	250.00	11,082.7	3,223.1	-876.8	3,340.1	0.00	0.00	0.00
11,900.0	1.35	250.00	11,182.7	3,222.3	-879.0	3,339.9	0.00	0.00	0.00
12,000.0	1.35	250.00	11,282.7	3,221.5	-881.3	3,339.7	0.00	0.00	0.00
12,100.0	1.35	250.00	11,382.6	3,220.7	-883.5	3,339.6	0.00	0.00	0.00
12,200.0	1.35	250.00	11,482.6	3,219.9	-885.7	3,339.4	0.00	0.00	0.00
Cameo									
12,202.4	1.35	250.00	11,485.0	3,219.9	-885.7	3,339.4	0.00	0.00	0.00
12,300.0	1.35	250.00	11,582.6	3,219.1	-887.9	3,339.2	0.00	0.00	0.00
12,400.0	1.35	250.00	11,682.6	3,218.3	-890.1	3,339.0	0.00	0.00	0.00
12,500.0	1.35	250.00	11,782.5	3,217.5	-892.4	3,338.9	0.00	0.00	0.00
12,600.0	1.35	250.00	11,882.5	3,216.7	-894.6	3,338.7	0.00	0.00	0.00
12,700.0	1.35	250.00	11,982.5	3,215.8	-896.8	3,338.5	0.00	0.00	0.00
Rollins									
12,702.5	1.35	250.00	11,985.0	3,215.8	-896.8	3,338.5	0.00	0.00	0.00
12,800.0	1.35	250.00	12,082.5	3,215.0	-899.0	3,338.4	0.00	0.00	0.00
12,900.0	1.35	250.00	12,182.4	3,214.2	-901.2	3,338.2	0.00	0.00	0.00
13,000.0	1.35	250.00	12,282.4	3,213.4	-903.5	3,338.0	0.00	0.00	0.00
13,100.0	1.35	250.00	12,382.4	3,212.6	-905.7	3,337.8	0.00	0.00	0.00
TD @ 13202.7' MD / 12485.0' TVD									
13,202.7	1.35	250.00	12,485.0	3,211.8	-907.9	3,337.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12A-23 496 - Slot 12A-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 12A-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 - 12A-23 - plan hits target center - Point	0.00	0.00	8,207.0	3,246.0	-814.0	14,427,221.58	2,444,186.53	39.693435	-108.142948
PBHL - 12A-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,485.0	3,211.8	-907.9	14,427,184.40	2,444,093.70	39.693341	-108.143282

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,876.8	3,583.0	Wasatch			
6,526.1	5,983.0	Wasatch G			
6,857.3	6,283.0	Fort Union			
8,923.5	8,207.0	Ohio Creek			
9,393.6	8,677.0	William Fork			
12,202.4	11,485.0	Cameo			
12,702.5	11,985.0	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'
1,035.2	1,008.8	174.3	-43.7	EOB @ 25.06° Inc. / 345.92° Azm
8,088.3	7,398.2	3,071.7	-770.3	Drop 3° / 100'
8,923.5	8,207.0	3,246.0	-814.0	EOD @ Vertical / Build 1.5° / 100'
9,013.7	8,297.2	3,245.6	-815.0	EOB @ 1.35° Inc. / 250.00° Azm
13,202.7	12,485.0	3,211.8	-907.9	TD @ 13202.7' MD / 12485.0' TVD