

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 23D-22 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.684288
 Longitude: -108.140139
 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 - 23D-22(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	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'
1234.5	22.04	293.44	1216.6	55.5	-128.0	3.00	293.44	139.5	EOB @ 22.04° Inc. / 293.44° Azm
7831.3	22.04	293.44	7331.4	1040.0	-2398.8	0.00	0.00	2613.8	Drop 3° / 100'
8565.9	0.00	0.00	8048.0	1095.5	-2526.8	3.00	180.00	2753.3	EOD @ Vertical / Build 1.5° / 100'
8658.9	1.39	250.00	8141.0	1095.1	-2527.9	1.50	250.00	2754.1	EOB @ 1.39° Inc. / 250.00° Azm
12720.1	1.39	250.00	12201.0	1061.3	-2620.8	0.00	0.00	2827.5	TD @ 12720.1' MD / 12201.0' TVD

FORMATION TOP DETAILS

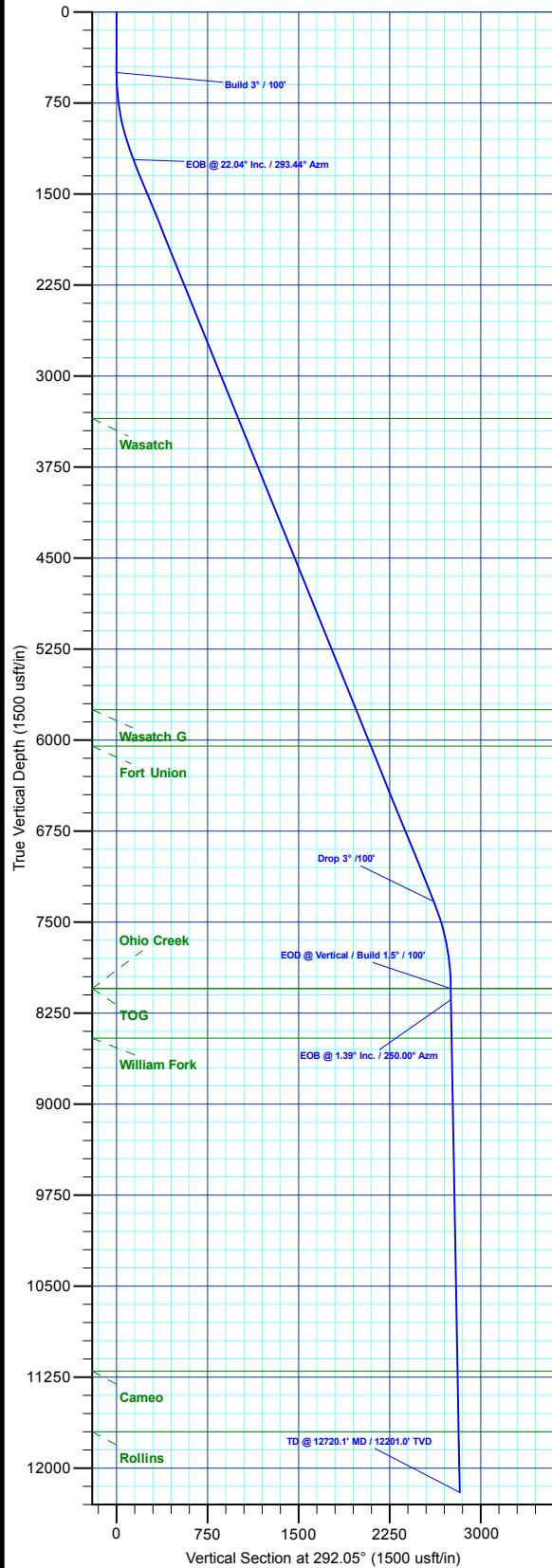
TVDPath	MDPath	Formation
3352.0	3538.3	Wasatch
5752.0	6127.4	Wasatch G
6052.0	6451.1	Fort Union
8048.0	8565.9	Ohio Creek
8048.0	8565.9	TOG
8457.0	8975.0	William Fork
11201.0	11719.8	Cameo
11701.0	12219.9	Rollins

DESIGN TARGET DETAILS

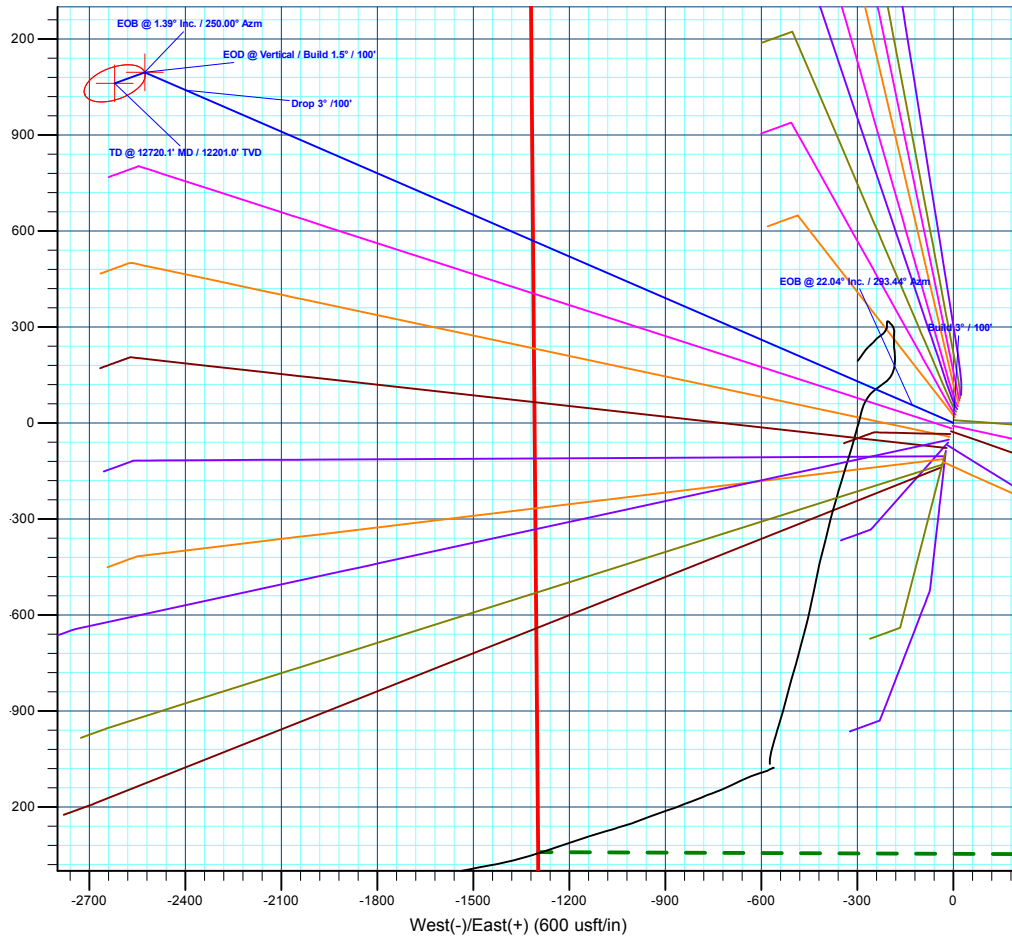
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
OHCR - 23D-22	8048.0	1095.5	-2526.8	14424929.98	2442522.43	39.687294	-108.149114
PBHL - 23D-22	12201.0	1061.3	-2620.8	14424892.80	2442429.60	39.687201	-108.149448

WELL DETAILS: BJU M23A FED 23D-22 496

+N-S	+E-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	23D-22
0.0	0.0		14423915.60	2445082.90	39.684288	-108.140139	



T M
 Azimuths to True North
 Magnetic North: 9.43°
 Magnetic Field
 Strength: 51187.3nT
 Dip Angle: 65.82°
 Date: 6/3/2020
 Model: HDGM2020



Plan: Design #2 (BJU M23A FED 23D-22 496/Wellbore #1)

Created By: Will Jircik Date: 15:29, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 23D-22 496 - Slot 23D-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 23D-22 496 - Slot 23D-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 23D-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	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 23D-22 496 - Slot 23D-22					
Well Position	+N/-S	-112.0 usft	Northing:	14,423,915.60 usft	Latitude:	39.684288
	+E/-W	-30.3 usft	Easting:	2,445,082.90 usft	Longitude:	-108.140140
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	51,187.30000000

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	292.05

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		
1,234.5	22.04	293.44	1,216.6	55.5	-128.0	3.00	3.00	0.00	293.44		
7,831.3	22.04	293.44	7,331.4	1,040.0	-2,398.8	0.00	0.00	0.00	0.00		
8,565.9	0.00	0.00	8,048.0	1,095.5	-2,526.8	3.00	-3.00	0.00	180.00	OHCR - 23D-22	
8,658.9	1.39	250.00	8,141.0	1,095.1	-2,527.9	1.50	1.50	-118.28	250.00		
12,720.1	1.39	250.00	12,201.0	1,061.3	-2,620.8	0.00	0.00	0.00	0.00	PBHL - 23D-22	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 23D-22 496 - Slot 23D-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 23D-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	293.44	600.0	1.0	-2.4	2.6	3.00	3.00	0.00	
700.0	6.00	293.44	699.6	4.2	-9.6	10.5	3.00	3.00	0.00	
800.0	9.00	293.44	798.8	9.4	-21.6	23.5	3.00	3.00	0.00	
900.0	12.00	293.44	897.1	16.6	-38.3	41.7	3.00	3.00	0.00	
1,000.0	15.00	293.44	994.3	25.9	-59.7	65.1	3.00	3.00	0.00	
1,100.0	18.00	293.44	1,090.2	37.2	-85.8	93.4	3.00	3.00	0.00	
1,200.0	21.00	293.44	1,184.4	50.5	-116.4	126.8	3.00	3.00	0.00	
EOB @ 22.04° Inc. / 293.44° Azm										
1,234.5	22.04	293.44	1,216.6	55.5	-128.0	139.5	3.00	3.00	0.00	
1,300.0	22.04	293.44	1,277.2	65.3	-150.5	164.0	0.00	0.00	0.00	
1,400.0	22.04	293.44	1,369.9	80.2	-185.0	201.5	0.00	0.00	0.00	
1,500.0	22.04	293.44	1,462.6	95.1	-219.4	239.0	0.00	0.00	0.00	
1,600.0	22.04	293.44	1,555.3	110.0	-253.8	276.6	0.00	0.00	0.00	
1,700.0	22.04	293.44	1,648.0	125.0	-288.2	314.1	0.00	0.00	0.00	
1,800.0	22.04	293.44	1,740.7	139.9	-322.7	351.6	0.00	0.00	0.00	
1,900.0	22.04	293.44	1,833.4	154.8	-357.1	389.1	0.00	0.00	0.00	
2,000.0	22.04	293.44	1,926.1	169.7	-391.5	426.6	0.00	0.00	0.00	
2,100.0	22.04	293.44	2,018.8	184.7	-425.9	464.1	0.00	0.00	0.00	
2,200.0	22.04	293.44	2,111.5	199.6	-460.3	501.6	0.00	0.00	0.00	
2,300.0	22.04	293.44	2,204.2	214.5	-494.8	539.1	0.00	0.00	0.00	
2,400.0	22.04	293.44	2,296.9	229.4	-529.2	576.6	0.00	0.00	0.00	
2,500.0	22.04	293.44	2,389.6	244.4	-563.6	614.1	0.00	0.00	0.00	
2,600.0	22.04	293.44	2,482.3	259.3	-598.0	651.6	0.00	0.00	0.00	
2,700.0	22.04	293.44	2,575.0	274.2	-632.5	689.1	0.00	0.00	0.00	
2,800.0	22.04	293.44	2,667.7	289.1	-666.9	726.7	0.00	0.00	0.00	
2,900.0	22.04	293.44	2,760.4	304.1	-701.3	764.2	0.00	0.00	0.00	
3,000.0	22.04	293.44	2,853.1	319.0	-735.7	801.7	0.00	0.00	0.00	
3,100.0	22.04	293.44	2,945.7	333.9	-770.2	839.2	0.00	0.00	0.00	
3,200.0	22.04	293.44	3,038.4	348.8	-804.6	876.7	0.00	0.00	0.00	
3,300.0	22.04	293.44	3,131.1	363.7	-839.0	914.2	0.00	0.00	0.00	
3,400.0	22.04	293.44	3,223.8	378.7	-873.4	951.7	0.00	0.00	0.00	
3,500.0	22.04	293.44	3,316.5	393.6	-907.8	989.2	0.00	0.00	0.00	
Wasatch										
3,538.3	22.04	293.44	3,352.0	399.3	-921.0	1,003.6	0.00	0.00	0.00	
3,600.0	22.04	293.44	3,409.2	408.5	-942.3	1,026.7	0.00	0.00	0.00	
3,700.0	22.04	293.44	3,501.9	423.4	-976.7	1,064.2	0.00	0.00	0.00	
3,800.0	22.04	293.44	3,594.6	438.4	-1,011.1	1,101.7	0.00	0.00	0.00	
3,900.0	22.04	293.44	3,687.3	453.3	-1,045.5	1,139.2	0.00	0.00	0.00	
4,000.0	22.04	293.44	3,780.0	468.2	-1,080.0	1,176.7	0.00	0.00	0.00	
4,100.0	22.04	293.44	3,872.7	483.1	-1,114.4	1,214.3	0.00	0.00	0.00	
4,200.0	22.04	293.44	3,965.4	498.1	-1,148.8	1,251.8	0.00	0.00	0.00	
4,300.0	22.04	293.44	4,058.1	513.0	-1,183.2	1,289.3	0.00	0.00	0.00	
4,400.0	22.04	293.44	4,150.8	527.9	-1,217.7	1,326.8	0.00	0.00	0.00	
4,500.0	22.04	293.44	4,243.5	542.8	-1,252.1	1,364.3	0.00	0.00	0.00	
4,600.0	22.04	293.44	4,336.2	557.8	-1,286.5	1,401.8	0.00	0.00	0.00	
4,700.0	22.04	293.44	4,428.9	572.7	-1,320.9	1,439.3	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 23D-22 496 - Slot 23D-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 23D-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	22.04	293.44	4,521.6	587.6	-1,355.3	1,476.8	0.00	0.00	0.00
4,900.0	22.04	293.44	4,614.3	602.5	-1,389.8	1,514.3	0.00	0.00	0.00
5,000.0	22.04	293.44	4,707.0	617.5	-1,424.2	1,551.8	0.00	0.00	0.00
5,100.0	22.04	293.44	4,799.6	632.4	-1,458.6	1,589.3	0.00	0.00	0.00
5,200.0	22.04	293.44	4,892.3	647.3	-1,493.0	1,626.8	0.00	0.00	0.00
5,300.0	22.04	293.44	4,985.0	662.2	-1,527.5	1,664.3	0.00	0.00	0.00
5,400.0	22.04	293.44	5,077.7	677.2	-1,561.9	1,701.9	0.00	0.00	0.00
5,500.0	22.04	293.44	5,170.4	692.1	-1,596.3	1,739.4	0.00	0.00	0.00
5,600.0	22.04	293.44	5,263.1	707.0	-1,630.7	1,776.9	0.00	0.00	0.00
5,700.0	22.04	293.44	5,355.8	721.9	-1,665.2	1,814.4	0.00	0.00	0.00
5,800.0	22.04	293.44	5,448.5	736.9	-1,699.6	1,851.9	0.00	0.00	0.00
5,900.0	22.04	293.44	5,541.2	751.8	-1,734.0	1,889.4	0.00	0.00	0.00
6,000.0	22.04	293.44	5,633.9	766.7	-1,768.4	1,926.9	0.00	0.00	0.00
6,100.0	22.04	293.44	5,726.6	781.6	-1,802.8	1,964.4	0.00	0.00	0.00
Wasatch G									
6,127.4	22.04	293.44	5,752.0	785.7	-1,812.3	1,974.7	0.00	0.00	0.00
6,200.0	22.04	293.44	5,819.3	796.5	-1,837.3	2,001.9	0.00	0.00	0.00
6,300.0	22.04	293.44	5,912.0	811.5	-1,871.7	2,039.4	0.00	0.00	0.00
6,400.0	22.04	293.44	6,004.7	826.4	-1,906.1	2,076.9	0.00	0.00	0.00
Fort Union									
6,451.1	22.04	293.44	6,052.0	834.0	-1,923.7	2,096.1	0.00	0.00	0.00
6,500.0	22.04	293.44	6,097.4	841.3	-1,940.5	2,114.4	0.00	0.00	0.00
6,600.0	22.04	293.44	6,190.1	856.2	-1,975.0	2,151.9	0.00	0.00	0.00
6,700.0	22.04	293.44	6,282.8	871.2	-2,009.4	2,189.5	0.00	0.00	0.00
6,800.0	22.04	293.44	6,375.5	886.1	-2,043.8	2,227.0	0.00	0.00	0.00
6,900.0	22.04	293.44	6,468.2	901.0	-2,078.2	2,264.5	0.00	0.00	0.00
7,000.0	22.04	293.44	6,560.8	915.9	-2,112.7	2,302.0	0.00	0.00	0.00
7,100.0	22.04	293.44	6,653.5	930.9	-2,147.1	2,339.5	0.00	0.00	0.00
7,200.0	22.04	293.44	6,746.2	945.8	-2,181.5	2,377.0	0.00	0.00	0.00
7,300.0	22.04	293.44	6,838.9	960.7	-2,215.9	2,414.5	0.00	0.00	0.00
7,400.0	22.04	293.44	6,931.6	975.6	-2,250.3	2,452.0	0.00	0.00	0.00
7,500.0	22.04	293.44	7,024.3	990.6	-2,284.8	2,489.5	0.00	0.00	0.00
7,600.0	22.04	293.44	7,117.0	1,005.5	-2,319.2	2,527.0	0.00	0.00	0.00
7,700.0	22.04	293.44	7,209.7	1,020.4	-2,353.6	2,564.5	0.00	0.00	0.00
7,800.0	22.04	293.44	7,302.4	1,035.3	-2,388.0	2,602.0	0.00	0.00	0.00
Drop 3° /100'									
7,831.3	22.04	293.44	7,331.4	1,040.0	-2,398.8	2,613.8	0.00	0.00	0.00
7,900.0	19.98	293.44	7,395.5	1,049.8	-2,421.4	2,638.4	3.00	-3.00	0.00
8,000.0	16.98	293.44	7,490.4	1,062.4	-2,450.5	2,670.1	3.00	-3.00	0.00
8,100.0	13.98	293.44	7,586.7	1,073.0	-2,475.0	2,696.7	3.00	-3.00	0.00
8,200.0	10.98	293.44	7,684.4	1,081.6	-2,494.8	2,718.3	3.00	-3.00	0.00
8,300.0	7.98	293.44	7,783.0	1,088.2	-2,509.9	2,734.8	3.00	-3.00	0.00
8,400.0	4.98	293.44	7,882.4	1,092.6	-2,520.2	2,746.1	3.00	-3.00	0.00
8,500.0	1.98	293.44	7,982.2	1,095.1	-2,525.8	2,752.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,565.9	0.00	0.00	8,048.0	1,095.5	-2,526.8	2,753.3	3.00	-3.00	0.00
8,600.0	0.51	250.00	8,082.1	1,095.5	-2,527.0	2,753.4	1.50	1.50	0.00
EOB @ 1.39° Inc. / 250.00° Azm									
8,658.9	1.39	250.00	8,141.0	1,095.1	-2,527.9	2,754.1	1.50	1.50	0.00
8,700.0	1.39	250.00	8,182.1	1,094.8	-2,528.8	2,754.9	0.00	0.00	0.00
8,800.0	1.39	250.00	8,282.1	1,093.9	-2,531.1	2,756.7	0.00	0.00	0.00
8,900.0	1.39	250.00	8,382.1	1,093.1	-2,533.4	2,758.5	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 23D-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									
8,975.0	1.39	250.00	8,457.0	1,092.5	-2,535.1	2,759.8	0.00	0.00	0.00
9,000.0	1.39	250.00	8,482.0	1,092.3	-2,535.7	2,760.3	0.00	0.00	0.00
9,100.0	1.39	250.00	8,582.0	1,091.4	-2,538.0	2,762.1	0.00	0.00	0.00
9,200.0	1.39	250.00	8,682.0	1,090.6	-2,540.3	2,763.9	0.00	0.00	0.00
9,300.0	1.39	250.00	8,781.9	1,089.8	-2,542.6	2,765.7	0.00	0.00	0.00
9,400.0	1.39	250.00	8,881.9	1,088.9	-2,544.8	2,767.5	0.00	0.00	0.00
9,500.0	1.39	250.00	8,981.9	1,088.1	-2,547.1	2,769.3	0.00	0.00	0.00
9,600.0	1.39	250.00	9,081.9	1,087.3	-2,549.4	2,771.1	0.00	0.00	0.00
9,700.0	1.39	250.00	9,181.8	1,086.4	-2,551.7	2,772.9	0.00	0.00	0.00
9,800.0	1.39	250.00	9,281.8	1,085.6	-2,554.0	2,774.7	0.00	0.00	0.00
9,900.0	1.39	250.00	9,381.8	1,084.8	-2,556.3	2,776.5	0.00	0.00	0.00
10,000.0	1.39	250.00	9,481.7	1,084.0	-2,558.6	2,778.4	0.00	0.00	0.00
10,100.0	1.39	250.00	9,581.7	1,083.1	-2,560.9	2,780.2	0.00	0.00	0.00
10,200.0	1.39	250.00	9,681.7	1,082.3	-2,563.1	2,782.0	0.00	0.00	0.00
10,300.0	1.39	250.00	9,781.6	1,081.5	-2,565.4	2,783.8	0.00	0.00	0.00
10,400.0	1.39	250.00	9,881.6	1,080.6	-2,567.7	2,785.6	0.00	0.00	0.00
10,500.0	1.39	250.00	9,981.6	1,079.8	-2,570.0	2,787.4	0.00	0.00	0.00
10,600.0	1.39	250.00	10,081.6	1,079.0	-2,572.3	2,789.2	0.00	0.00	0.00
10,700.0	1.39	250.00	10,181.5	1,078.1	-2,574.6	2,791.0	0.00	0.00	0.00
10,800.0	1.39	250.00	10,281.5	1,077.3	-2,576.9	2,792.8	0.00	0.00	0.00
10,900.0	1.39	250.00	10,381.5	1,076.5	-2,579.2	2,794.6	0.00	0.00	0.00
11,000.0	1.39	250.00	10,481.4	1,075.6	-2,581.4	2,796.4	0.00	0.00	0.00
11,100.0	1.39	250.00	10,581.4	1,074.8	-2,583.7	2,798.2	0.00	0.00	0.00
11,200.0	1.39	250.00	10,681.4	1,074.0	-2,586.0	2,800.0	0.00	0.00	0.00
11,300.0	1.39	250.00	10,781.4	1,073.1	-2,588.3	2,801.9	0.00	0.00	0.00
11,400.0	1.39	250.00	10,881.3	1,072.3	-2,590.6	2,803.7	0.00	0.00	0.00
11,500.0	1.39	250.00	10,981.3	1,071.5	-2,592.9	2,805.5	0.00	0.00	0.00
11,600.0	1.39	250.00	11,081.3	1,070.6	-2,595.2	2,807.3	0.00	0.00	0.00
11,700.0	1.39	250.00	11,181.2	1,069.8	-2,597.5	2,809.1	0.00	0.00	0.00
Cameo									
11,719.8	1.39	250.00	11,201.0	1,069.6	-2,597.9	2,809.4	0.00	0.00	0.00
11,800.0	1.39	250.00	11,281.2	1,069.0	-2,599.7	2,810.9	0.00	0.00	0.00
11,900.0	1.39	250.00	11,381.2	1,068.1	-2,602.0	2,812.7	0.00	0.00	0.00
12,000.0	1.39	250.00	11,481.1	1,067.3	-2,604.3	2,814.5	0.00	0.00	0.00
12,100.0	1.39	250.00	11,581.1	1,066.5	-2,606.6	2,816.3	0.00	0.00	0.00
12,200.0	1.39	250.00	11,681.1	1,065.6	-2,608.9	2,818.1	0.00	0.00	0.00
Rollins									
12,219.9	1.39	250.00	11,701.0	1,065.5	-2,609.4	2,818.5	0.00	0.00	0.00
12,300.0	1.39	250.00	11,781.1	1,064.8	-2,611.2	2,819.9	0.00	0.00	0.00
12,400.0	1.39	250.00	11,881.0	1,064.0	-2,613.5	2,821.7	0.00	0.00	0.00
12,500.0	1.39	250.00	11,981.0	1,063.1	-2,615.8	2,823.6	0.00	0.00	0.00
12,600.0	1.39	250.00	12,081.0	1,062.3	-2,618.0	2,825.4	0.00	0.00	0.00
12,700.0	1.39	250.00	12,180.9	1,061.5	-2,620.3	2,827.2	0.00	0.00	0.00
TD @ 12720.1' MD / 12201.0' TVD									
12,720.1	1.39	250.00	12,201.0	1,061.3	-2,620.8	2,827.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 23D-22 496 - Slot 23D-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 23D-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 - 23D-22 - plan hits target center - Point	0.00	0.00	8,048.0	1,095.5	-2,526.8	14,424,929.98	2,442,522.43	39.687295	-108.149115
PBHL - 23D-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,201.0	1,061.3	-2,620.8	14,424,892.80	2,442,429.60	39.687201	-108.149448

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,538.3	3,352.0	Wasatch			
6,127.4	5,752.0	Wasatch G			
6,451.1	6,052.0	Fort Union			
8,565.9	8,048.0	Ohio Creek			
8,565.9	8,048.0	TOG			
8,975.0	8,457.0	William Fork			
11,719.8	11,201.0	Cameo			
12,219.9	11,701.0	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'
1,234.5	1,216.6	55.5	-128.0	EOB @ 22.04° Inc. / 293.44° Azm
7,831.3	7,331.4	1,040.0	-2,398.8	Drop 3° / 100'
8,565.9	8,048.0	1,095.5	-2,526.8	EOD @ Vertical / Build 1.5° / 100'
8,658.9	8,141.0	1,095.1	-2,527.9	EOB @ 1.39° Inc. / 250.00° Azm
12,720.1	12,201.0	1,061.3	-2,620.8	TD @ 12720.1' MD / 12201.0' TVD