

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 23D-22 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.684360
 Longitude: -108.140114
 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	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
430.0	0.00	0.00	430.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1063.6	19.01	319.36	1052.1	79.0	-67.8	3.00	319.36	104.1	EOB @ 19.01° Inc. / 319.36° Azm
7870.7	19.01	319.36	7487.9	1761.5	-1511.8	0.00	0.00	2319.6	Drop 3° / 100'
8504.3	0.00	0.00	8110.0	1840.6	-1579.6	3.00	180.00	2423.7	EOD @ Vertical / Build 1.5° / 100'
8595.6	1.37	250.00	8201.2	1840.2	-1580.6	1.50	250.00	2424.1	EOB @ 1.37° Inc. / 250.00° Azm
12736.5	1.37	250.00	12341.0	1806.4	-1673.6	0.00	0.00	2462.5	TD @ 12736.5' MD / 12341.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 23D-22	8110.0	1840.6	-1579.6	14425731.18	2443451.63	39.689411	-108.145725
PBHL - 23D-22	12341.0	1806.4	-1673.6	14425694.00	2443358.80	39.689317	-108.146059

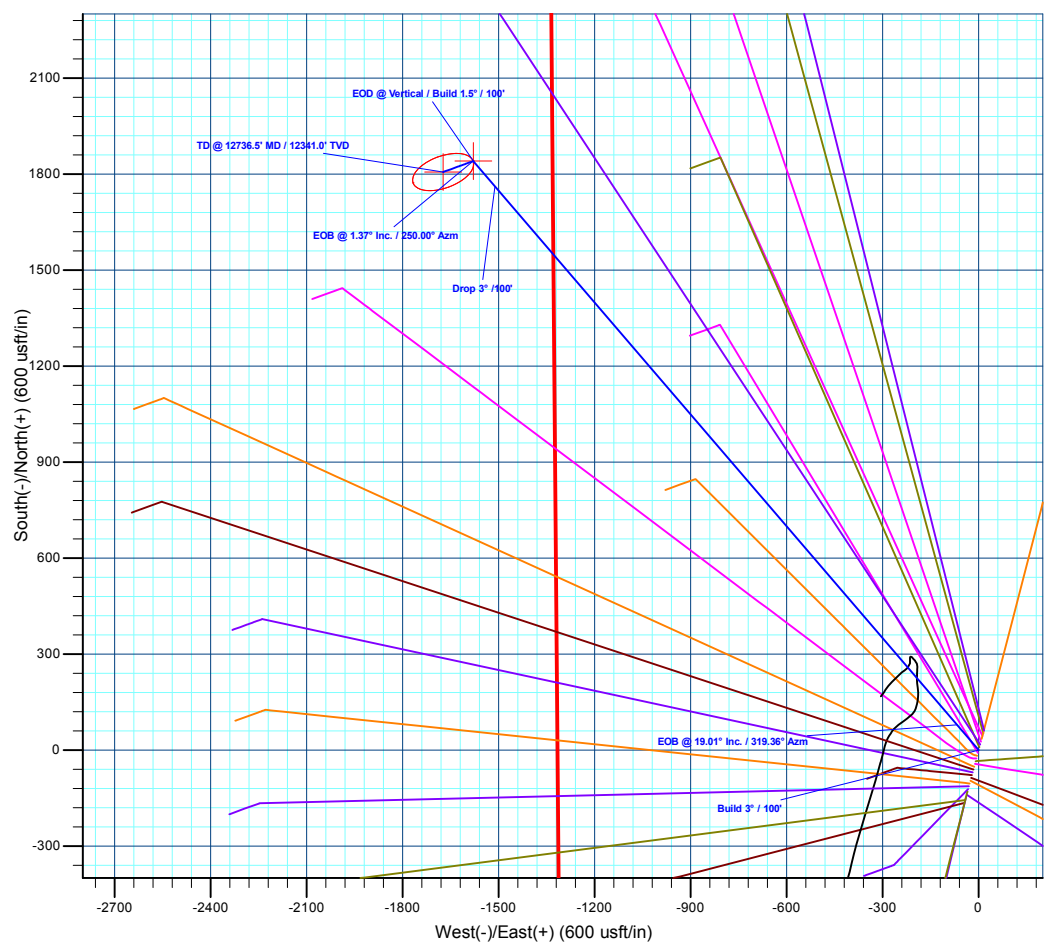
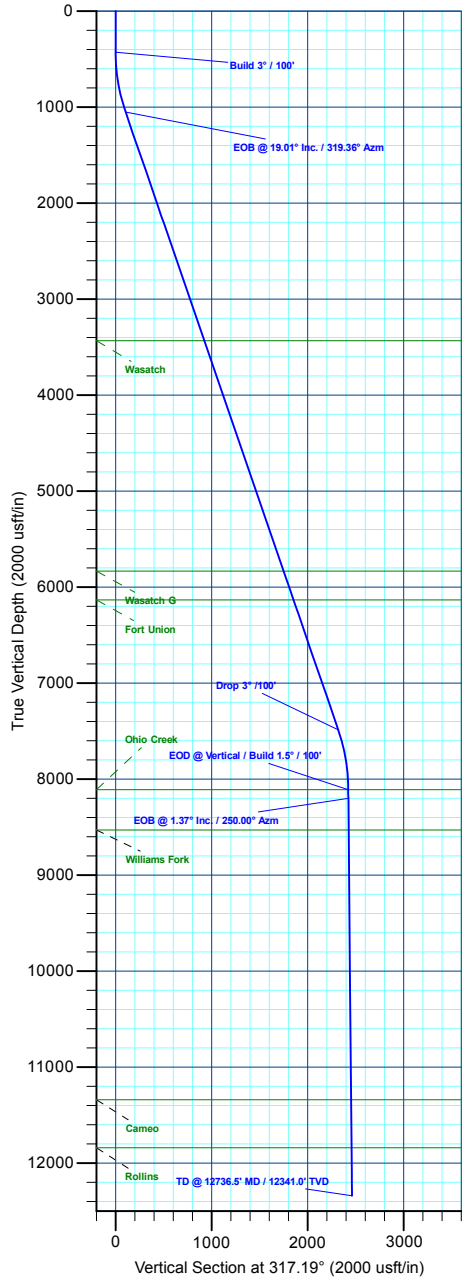
WELL DETAILS: BJU M23A FED 23D-22 496

Ground Level : 8104.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	14423941.90	2445089.10	39.684360	-108.140114	23D-22	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3434.0	3582.9	Wasatch
5834.0	6121.4	Wasatch G
6134.0	6438.7	Fort Union
8110.0	8504.3	Ohio Creek
8531.0	8925.4	Williams Fork
11341.0	11736.2	Cameo
11841.0	12236.4	Rollins

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 #3 (BJU M23A FED 23D-22 496/Wellbore #1)

Created By: Will Jircik Date: 13:18, January 06 2023



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 23D-22 496 - Slot 23D-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 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 #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 23D-22 496 - Slot 23D-22					
Well Position	+N/-S	-85.9 usft	Northing:	14,423,941.90 usft	Latitude:	39.684360
	+E/-W	-23.3 usft	Easting:	2,445,089.10 usft	Longitude:	-108.140115
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 #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	317.19

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		
430.0	0.00	0.00	430.0	0.0	0.0	0.00	0.00	0.00	0.00		
1,063.6	19.01	319.36	1,052.1	79.0	-67.8	3.00	3.00	0.00	319.36		
7,870.7	19.01	319.36	7,487.9	1,761.5	-1,511.8	0.00	0.00	0.00	0.00		
8,504.3	0.00	0.00	8,110.0	1,840.6	-1,579.6	3.00	-3.00	0.00	180.00	OHCR - 23D-22	
8,595.6	1.37	250.00	8,201.2	1,840.2	-1,580.6	1.50	1.50	-120.55	250.00		
12,736.5	1.37	250.00	12,341.0	1,806.4	-1,673.6	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 #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
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'									
430.0	0.00	0.00	430.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.10	319.36	500.0	1.0	-0.8	1.3	3.00	3.00	0.00
600.0	5.10	319.36	599.8	5.7	-4.9	7.6	3.00	3.00	0.00
700.0	8.10	319.36	699.1	14.5	-12.4	19.0	3.00	3.00	0.00
800.0	11.10	319.36	797.7	27.1	-23.3	35.7	3.00	3.00	0.00
900.0	14.10	319.36	895.3	43.7	-37.5	57.5	3.00	3.00	0.00
1,000.0	17.10	319.36	991.6	64.1	-55.0	84.4	3.00	3.00	0.00
EOB @ 19.01° Inc. / 319.36° Azm									
1,063.6	19.01	319.36	1,052.1	79.0	-67.8	104.1	3.00	3.00	0.00
1,100.0	19.01	319.36	1,086.5	88.0	-75.5	115.9	0.00	0.00	0.00
1,200.0	19.01	319.36	1,181.0	112.7	-96.8	148.5	0.00	0.00	0.00
1,300.0	19.01	319.36	1,275.6	137.5	-118.0	181.0	0.00	0.00	0.00
1,400.0	19.01	319.36	1,370.1	162.2	-139.2	213.6	0.00	0.00	0.00
1,500.0	19.01	319.36	1,464.6	186.9	-160.4	246.1	0.00	0.00	0.00
1,600.0	19.01	319.36	1,559.2	211.6	-181.6	278.7	0.00	0.00	0.00
1,700.0	19.01	319.36	1,653.7	236.3	-202.8	311.2	0.00	0.00	0.00
1,800.0	19.01	319.36	1,748.3	261.0	-224.0	343.7	0.00	0.00	0.00
1,900.0	19.01	319.36	1,842.8	285.8	-245.2	376.3	0.00	0.00	0.00
2,000.0	19.01	319.36	1,937.4	310.5	-266.5	408.8	0.00	0.00	0.00
2,100.0	19.01	319.36	2,031.9	335.2	-287.7	441.4	0.00	0.00	0.00
2,200.0	19.01	319.36	2,126.5	359.9	-308.9	473.9	0.00	0.00	0.00
2,300.0	19.01	319.36	2,221.0	384.6	-330.1	506.5	0.00	0.00	0.00
2,400.0	19.01	319.36	2,315.6	409.3	-351.3	539.0	0.00	0.00	0.00
2,500.0	19.01	319.36	2,410.1	434.1	-372.5	571.6	0.00	0.00	0.00
2,600.0	19.01	319.36	2,504.7	458.8	-393.7	604.1	0.00	0.00	0.00
2,700.0	19.01	319.36	2,599.2	483.5	-414.9	636.7	0.00	0.00	0.00
2,800.0	19.01	319.36	2,693.8	508.2	-436.2	669.2	0.00	0.00	0.00
2,900.0	19.01	319.36	2,788.3	532.9	-457.4	701.8	0.00	0.00	0.00
3,000.0	19.01	319.36	2,882.8	557.7	-478.6	734.3	0.00	0.00	0.00
3,100.0	19.01	319.36	2,977.4	582.4	-499.8	766.9	0.00	0.00	0.00
3,200.0	19.01	319.36	3,071.9	607.1	-521.0	799.4	0.00	0.00	0.00
3,300.0	19.01	319.36	3,166.5	631.8	-542.2	832.0	0.00	0.00	0.00
3,400.0	19.01	319.36	3,261.0	656.5	-563.4	864.5	0.00	0.00	0.00
3,500.0	19.01	319.36	3,355.6	681.2	-584.6	897.1	0.00	0.00	0.00
Wasatch									
3,582.9	19.01	319.36	3,434.0	701.7	-602.2	924.1	0.00	0.00	0.00
3,600.0	19.01	319.36	3,450.1	706.0	-605.8	929.6	0.00	0.00	0.00
3,700.0	19.01	319.36	3,544.7	730.7	-627.1	962.2	0.00	0.00	0.00
3,800.0	19.01	319.36	3,639.2	755.4	-648.3	994.7	0.00	0.00	0.00
3,900.0	19.01	319.36	3,733.8	780.1	-669.5	1,027.3	0.00	0.00	0.00
4,000.0	19.01	319.36	3,828.3	804.8	-690.7	1,059.8	0.00	0.00	0.00
4,100.0	19.01	319.36	3,922.9	829.5	-711.9	1,092.3	0.00	0.00	0.00
4,200.0	19.01	319.36	4,017.4	854.3	-733.1	1,124.9	0.00	0.00	0.00
4,300.0	19.01	319.36	4,112.0	879.0	-754.3	1,157.4	0.00	0.00	0.00
4,400.0	19.01	319.36	4,206.5	903.7	-775.5	1,190.0	0.00	0.00	0.00
4,500.0	19.01	319.36	4,301.0	928.4	-796.8	1,222.5	0.00	0.00	0.00
4,600.0	19.01	319.36	4,395.6	953.1	-818.0	1,255.1	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 #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)
4,700.0	19.01	319.36	4,490.1	977.8	-839.2	1,287.6	0.00	0.00	0.00
4,800.0	19.01	319.36	4,584.7	1,002.6	-860.4	1,320.2	0.00	0.00	0.00
4,900.0	19.01	319.36	4,679.2	1,027.3	-881.6	1,352.7	0.00	0.00	0.00
5,000.0	19.01	319.36	4,773.8	1,052.0	-902.8	1,385.3	0.00	0.00	0.00
5,100.0	19.01	319.36	4,868.3	1,076.7	-924.0	1,417.8	0.00	0.00	0.00
5,200.0	19.01	319.36	4,962.9	1,101.4	-945.2	1,450.4	0.00	0.00	0.00
5,300.0	19.01	319.36	5,057.4	1,126.1	-966.5	1,482.9	0.00	0.00	0.00
5,400.0	19.01	319.36	5,152.0	1,150.9	-987.7	1,515.5	0.00	0.00	0.00
5,500.0	19.01	319.36	5,246.5	1,175.6	-1,008.9	1,548.0	0.00	0.00	0.00
5,600.0	19.01	319.36	5,341.1	1,200.3	-1,030.1	1,580.6	0.00	0.00	0.00
5,700.0	19.01	319.36	5,435.6	1,225.0	-1,051.3	1,613.1	0.00	0.00	0.00
5,800.0	19.01	319.36	5,530.2	1,249.7	-1,072.5	1,645.7	0.00	0.00	0.00
5,900.0	19.01	319.36	5,624.7	1,274.4	-1,093.7	1,678.2	0.00	0.00	0.00
6,000.0	19.01	319.36	5,719.3	1,299.2	-1,114.9	1,710.8	0.00	0.00	0.00
6,100.0	19.01	319.36	5,813.8	1,323.9	-1,136.2	1,743.3	0.00	0.00	0.00
Wasatch G									
6,121.4	19.01	319.36	5,834.0	1,329.2	-1,140.7	1,750.3	0.00	0.00	0.00
6,200.0	19.01	319.36	5,908.3	1,348.6	-1,157.4	1,775.9	0.00	0.00	0.00
6,300.0	19.01	319.36	6,002.9	1,373.3	-1,178.6	1,808.4	0.00	0.00	0.00
6,400.0	19.01	319.36	6,097.4	1,398.0	-1,199.8	1,841.0	0.00	0.00	0.00
Fort Union									
6,438.7	19.01	319.36	6,134.0	1,407.6	-1,208.0	1,853.5	0.00	0.00	0.00
6,500.0	19.01	319.36	6,192.0	1,422.8	-1,221.0	1,873.5	0.00	0.00	0.00
6,600.0	19.01	319.36	6,286.5	1,447.5	-1,242.2	1,906.0	0.00	0.00	0.00
6,700.0	19.01	319.36	6,381.1	1,472.2	-1,263.4	1,938.6	0.00	0.00	0.00
6,800.0	19.01	319.36	6,475.6	1,496.9	-1,284.6	1,971.1	0.00	0.00	0.00
6,900.0	19.01	319.36	6,570.2	1,521.6	-1,305.9	2,003.7	0.00	0.00	0.00
7,000.0	19.01	319.36	6,664.7	1,546.3	-1,327.1	2,036.2	0.00	0.00	0.00
7,100.0	19.01	319.36	6,759.3	1,571.1	-1,348.3	2,068.8	0.00	0.00	0.00
7,200.0	19.01	319.36	6,853.8	1,595.8	-1,369.5	2,101.3	0.00	0.00	0.00
7,300.0	19.01	319.36	6,948.4	1,620.5	-1,390.7	2,133.9	0.00	0.00	0.00
7,400.0	19.01	319.36	7,042.9	1,645.2	-1,411.9	2,166.4	0.00	0.00	0.00
7,500.0	19.01	319.36	7,137.5	1,669.9	-1,433.1	2,199.0	0.00	0.00	0.00
7,600.0	19.01	319.36	7,232.0	1,694.6	-1,454.3	2,231.5	0.00	0.00	0.00
7,700.0	19.01	319.36	7,326.5	1,719.4	-1,475.6	2,264.1	0.00	0.00	0.00
7,800.0	19.01	319.36	7,421.1	1,744.1	-1,496.8	2,296.6	0.00	0.00	0.00
Drop 3° /100'									
7,870.7	19.01	319.36	7,487.9	1,761.5	-1,511.8	2,319.6	0.00	0.00	0.00
7,900.0	18.13	319.36	7,515.7	1,768.6	-1,517.8	2,329.0	3.00	-3.00	0.00
8,000.0	15.13	319.36	7,611.5	1,790.3	-1,536.5	2,357.6	3.00	-3.00	0.00
8,100.0	12.13	319.36	7,708.7	1,808.2	-1,551.8	2,381.1	3.00	-3.00	0.00
8,200.0	9.13	319.36	7,807.0	1,822.2	-1,563.8	2,399.5	3.00	-3.00	0.00
8,300.0	6.13	319.36	7,906.1	1,832.3	-1,572.5	2,412.8	3.00	-3.00	0.00
8,400.0	3.13	319.36	8,005.7	1,838.4	-1,577.7	2,420.9	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,504.3	0.00	0.00	8,110.0	1,840.6	-1,579.6	2,423.7	3.00	-3.00	0.00
EOB @ 1.37° Inc. / 250.00° Azm									
8,595.6	1.37	250.00	8,201.2	1,840.2	-1,580.6	2,424.1	1.50	1.50	0.00
8,600.0	1.37	250.00	8,205.7	1,840.2	-1,580.7	2,424.2	0.00	0.00	0.00
8,700.0	1.37	250.00	8,305.6	1,839.4	-1,583.0	2,425.1	0.00	0.00	0.00
8,800.0	1.37	250.00	8,405.6	1,838.5	-1,585.2	2,426.0	0.00	0.00	0.00
8,900.0	1.37	250.00	8,505.6	1,837.7	-1,587.4	2,426.9	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 #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)
Williams Fork									
8,925.4	1.37	250.00	8,531.0	1,837.5	-1,588.0	2,427.2	0.00	0.00	0.00
9,000.0	1.37	250.00	8,605.6	1,836.9	-1,589.7	2,427.9	0.00	0.00	0.00
9,100.0	1.37	250.00	8,705.5	1,836.1	-1,591.9	2,428.8	0.00	0.00	0.00
9,200.0	1.37	250.00	8,805.5	1,835.3	-1,594.2	2,429.7	0.00	0.00	0.00
9,300.0	1.37	250.00	8,905.5	1,834.5	-1,596.4	2,430.6	0.00	0.00	0.00
9,400.0	1.37	250.00	9,005.4	1,833.6	-1,598.7	2,431.6	0.00	0.00	0.00
9,500.0	1.37	250.00	9,105.4	1,832.8	-1,600.9	2,432.5	0.00	0.00	0.00
9,600.0	1.37	250.00	9,205.4	1,832.0	-1,603.2	2,433.4	0.00	0.00	0.00
9,700.0	1.37	250.00	9,305.4	1,831.2	-1,605.4	2,434.4	0.00	0.00	0.00
9,800.0	1.37	250.00	9,405.3	1,830.4	-1,607.6	2,435.3	0.00	0.00	0.00
9,900.0	1.37	250.00	9,505.3	1,829.6	-1,609.9	2,436.2	0.00	0.00	0.00
10,000.0	1.37	250.00	9,605.3	1,828.7	-1,612.1	2,437.1	0.00	0.00	0.00
10,100.0	1.37	250.00	9,705.2	1,827.9	-1,614.4	2,438.1	0.00	0.00	0.00
10,200.0	1.37	250.00	9,805.2	1,827.1	-1,616.6	2,439.0	0.00	0.00	0.00
10,300.0	1.37	250.00	9,905.2	1,826.3	-1,618.9	2,439.9	0.00	0.00	0.00
10,400.0	1.37	250.00	10,005.2	1,825.5	-1,621.1	2,440.8	0.00	0.00	0.00
10,500.0	1.37	250.00	10,105.1	1,824.7	-1,623.4	2,441.8	0.00	0.00	0.00
10,600.0	1.37	250.00	10,205.1	1,823.8	-1,625.6	2,442.7	0.00	0.00	0.00
10,700.0	1.37	250.00	10,305.1	1,823.0	-1,627.8	2,443.6	0.00	0.00	0.00
10,800.0	1.37	250.00	10,405.0	1,822.2	-1,630.1	2,444.5	0.00	0.00	0.00
10,900.0	1.37	250.00	10,505.0	1,821.4	-1,632.3	2,445.5	0.00	0.00	0.00
11,000.0	1.37	250.00	10,605.0	1,820.6	-1,634.6	2,446.4	0.00	0.00	0.00
11,100.0	1.37	250.00	10,705.0	1,819.7	-1,636.8	2,447.3	0.00	0.00	0.00
11,200.0	1.37	250.00	10,804.9	1,818.9	-1,639.1	2,448.2	0.00	0.00	0.00
11,300.0	1.37	250.00	10,904.9	1,818.1	-1,641.3	2,449.2	0.00	0.00	0.00
11,400.0	1.37	250.00	11,004.9	1,817.3	-1,643.6	2,450.1	0.00	0.00	0.00
11,500.0	1.37	250.00	11,104.8	1,816.5	-1,645.8	2,451.0	0.00	0.00	0.00
11,600.0	1.37	250.00	11,204.8	1,815.7	-1,648.0	2,452.0	0.00	0.00	0.00
11,700.0	1.37	250.00	11,304.8	1,814.8	-1,650.3	2,452.9	0.00	0.00	0.00
Cameo									
11,736.2	1.37	250.00	11,341.0	1,814.6	-1,651.1	2,453.2	0.00	0.00	0.00
11,800.0	1.37	250.00	11,404.8	1,814.0	-1,652.5	2,453.8	0.00	0.00	0.00
11,900.0	1.37	250.00	11,504.7	1,813.2	-1,654.8	2,454.7	0.00	0.00	0.00
12,000.0	1.37	250.00	11,604.7	1,812.4	-1,657.0	2,455.7	0.00	0.00	0.00
12,100.0	1.37	250.00	11,704.7	1,811.6	-1,659.3	2,456.6	0.00	0.00	0.00
12,200.0	1.37	250.00	11,804.6	1,810.8	-1,661.5	2,457.5	0.00	0.00	0.00
Rollins									
12,236.4	1.37	250.00	11,841.0	1,810.5	-1,662.3	2,457.8	0.00	0.00	0.00
12,300.0	1.37	250.00	11,904.6	1,809.9	-1,663.8	2,458.4	0.00	0.00	0.00
12,400.0	1.37	250.00	12,004.6	1,809.1	-1,666.0	2,459.4	0.00	0.00	0.00
12,500.0	1.37	250.00	12,104.6	1,808.3	-1,668.2	2,460.3	0.00	0.00	0.00
12,600.0	1.37	250.00	12,204.5	1,807.5	-1,670.5	2,461.2	0.00	0.00	0.00
12,700.0	1.37	250.00	12,304.5	1,806.7	-1,672.7	2,462.1	0.00	0.00	0.00
TD @ 12736.5' MD / 12341.0' TVD									
12,736.5	1.37	250.00	12,341.0	1,806.4	-1,673.6	2,462.5	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 #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 - 23D-22 - plan hits target center - Point	0.00	0.00	8,110.0	1,840.6	-1,579.6	14,425,731.18	2,443,451.63	39.689411	-108.145725
PBHL - 23D-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,341.0	1,806.4	-1,673.6	14,425,694.00	2,443,358.80	39.689317	-108.146059

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,582.9	3,434.0	Wasatch			
6,121.4	5,834.0	Wasatch G			
6,438.7	6,134.0	Fort Union			
8,504.3	8,110.0	Ohio Creek			
8,925.4	8,531.0	Williams Fork			
11,736.2	11,341.0	Cameo			
12,236.4	11,841.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
430.0	430.0	0.0	0.0	Build 3° / 100'
1,063.6	1,052.1	79.0	-67.8	EOB @ 19.01° Inc. / 319.36° Azm
7,870.7	7,487.9	1,761.5	-1,511.8	Drop 3° /100'
8,504.3	8,110.0	1,840.6	-1,579.6	EOD @ Vertical / Build 1.5° / 100'
8,595.6	8,201.2	1,840.2	-1,580.6	EOB @ 1.37° Inc. / 250.00° Azm
12,736.5	12,341.0	1,806.4	-1,673.6	TD @ 12736.5' MD / 12341.0' TVD