

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 12D-23 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.684455
 Longitude: -108.140081
 Ground Level: 8104.0
 RKB @ 8134.0usft (30')

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

Vertical (TVD) Reference: RKB @ 8134.0usft (30')
 Section (VS) Reference: Slot - 12D-23(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8134.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3507.0	3619.5	Wasatch
5907.0	6117.7	Wasatch G
6207.0	6430.0	Fort Union
8166.0	8454.5	Ohio Creek
8166.0	8454.5	TOG
8603.0	8891.6	William Fork
11389.0	11678.4	Cameo
11889.0	12178.6	Rollins

SECTION DETAILS

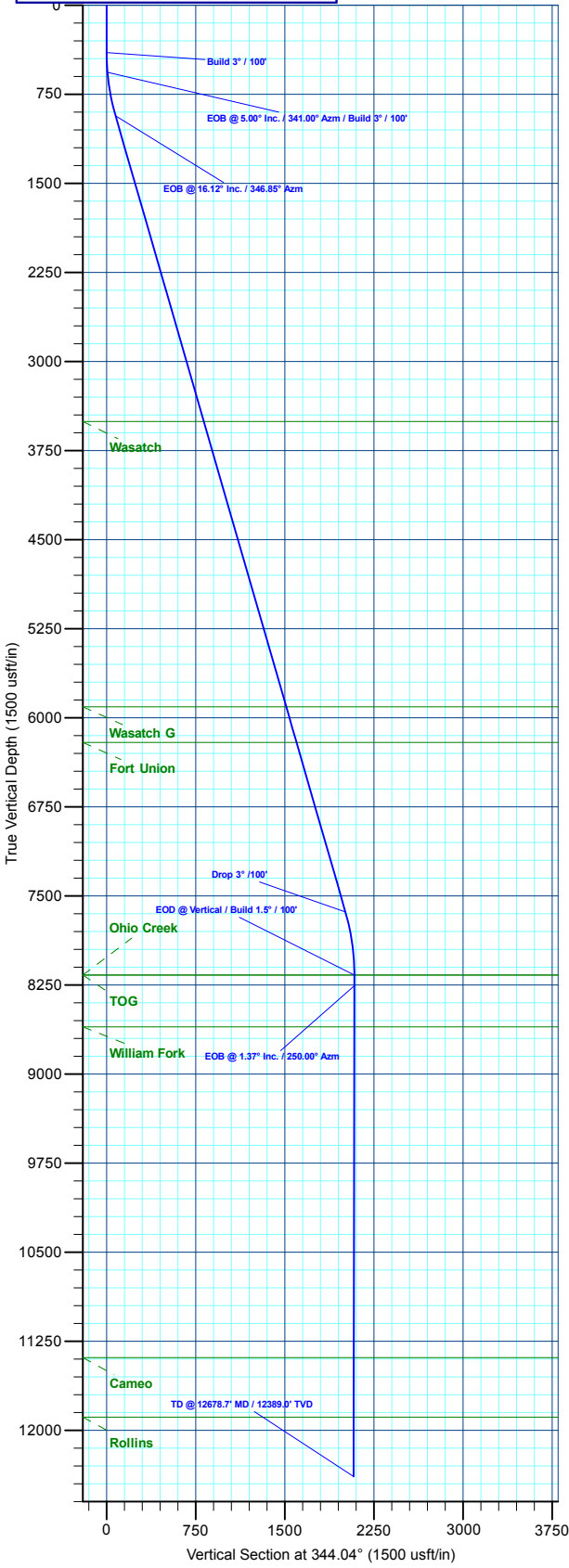
MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
566.7	5.00	341.00	566.5	6.9	-2.4	3.00	341.00	7.3	EOB @ 5.00° Inc. / 341.00° Azm / Build 3° / 100'
938.6	16.12	346.85	931.5	72.7	-19.4	3.00	8.40	75.2	EOB @ 16.12° Inc. / 346.85° Azm
7917.2	16.12	346.85	7635.7	1959.5	-460.4	0.00	0.00	2010.6	Drop 3° / 100'
8454.5	0.00	0.00	8166.0	2032.6	-477.5	3.00	180.00	2085.6	EOD @ Vertical / Build 1.5° / 100'
8546.0	1.37	250.00	8257.4	2032.3	-478.5	1.50	250.00	2085.5	EOB @ 1.37° Inc. / 250.00° Azm
12678.7	1.37	250.00	12389.0	1998.4	-571.5	0.00	0.00	2078.5	TD @ 12678.7' MD / 12389.0' TVD

DESIGN TARGET DETAILS

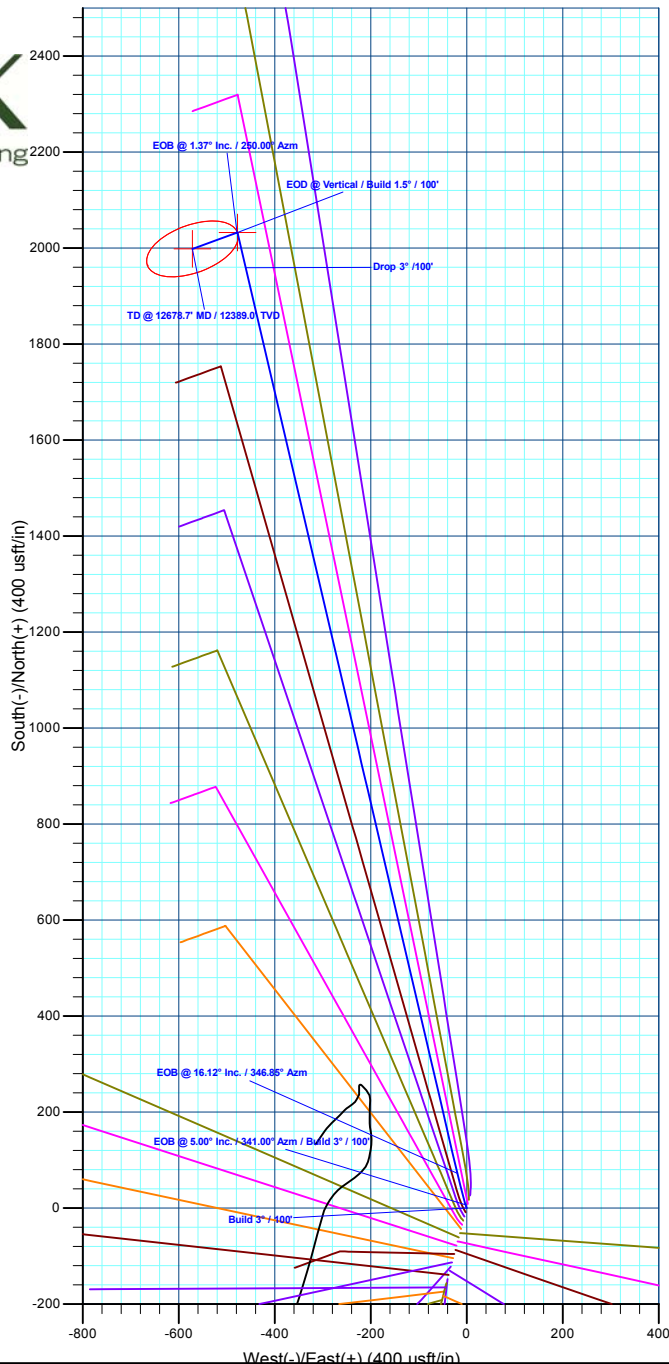
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
OHCR - 12D-23	8166.0	2032.6	-477.5	14425993.28	2444555.33	39.690033	-108.141777
PBHL - 12D-23	12389.0	1998.4	-571.5	14425956.10	2444462.50	39.689940	-108.142111

WELL DETAILS: BJU M23A FED 12D-23 496

+N-S	+E-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423976.90	2445097.40	39.684455	-108.140081



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 #2 (BJU M23A FED 12D-23 496/Wellbore #1)
 Created By: Will Jircik Date: 13:05, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 12D-23 496 - Slot 12D-23

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 12D-23 496 - Slot 12D-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 12D-23 496	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 12D-23 496 - Slot 12D-23					
Well Position	+N/-S	-51.2 usft	Northing:	14,423,976.90 usft	Latitude:	39.684455
	+E/-W	-13.8 usft	Easting:	2,445,097.40 usft	Longitude:	-108.140081
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 #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	344.04

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		
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00		
566.7	5.00	341.00	566.5	6.9	-2.4	3.00	3.00	0.00	341.00		
938.6	16.12	346.85	931.5	72.7	-19.4	3.00	2.99	1.57	8.40		
7,917.2	16.12	346.85	7,635.7	1,959.5	-460.4	0.00	0.00	0.00	0.00		
8,454.5	0.00	0.00	8,166.0	2,032.6	-477.5	3.00	-3.00	0.00	180.00	OHCR - 12D-23	
8,546.0	1.37	250.00	8,257.4	2,032.3	-478.5	1.50	1.50	-120.32	250.00		
12,678.7	1.37	250.00	12,389.0	1,998.4	-571.5	0.00	0.00	0.00	0.00	PBHL - 12D-23	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12D-23 496 - Slot 12D-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 12D-23 496	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
Build 3° / 100'									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	3.00	341.00	500.0	2.5	-0.9	2.6	3.00	3.00	0.00
EOB @ 5.00° Inc. / 341.00° Azm / Build 3° / 100'									
566.7	5.00	341.00	566.5	6.9	-2.4	7.3	3.00	3.00	0.00
600.0	5.99	342.40	599.6	9.9	-3.4	10.4	3.00	2.97	4.20
700.0	8.98	344.75	698.8	22.4	-7.0	23.5	3.00	2.99	2.35
800.0	11.97	345.93	797.1	40.0	-11.6	41.6	3.00	2.99	1.18
900.0	14.96	346.64	894.3	62.6	-17.1	64.9	3.00	3.00	0.71
EOB @ 16.12° Inc. / 346.85° Azm									
938.6	16.12	346.85	931.5	72.7	-19.4	75.2	3.00	3.00	0.53
1,000.0	16.12	346.85	990.5	89.3	-23.3	92.3	0.00	0.00	0.00
1,100.0	16.12	346.85	1,086.6	116.3	-29.6	120.0	0.00	0.00	0.00
1,200.0	16.12	346.85	1,182.6	143.4	-36.0	147.7	0.00	0.00	0.00
1,300.0	16.12	346.85	1,278.7	170.4	-42.3	175.5	0.00	0.00	0.00
1,400.0	16.12	346.85	1,374.8	197.4	-48.6	203.2	0.00	0.00	0.00
1,500.0	16.12	346.85	1,470.8	224.5	-54.9	230.9	0.00	0.00	0.00
1,600.0	16.12	346.85	1,566.9	251.5	-61.2	258.7	0.00	0.00	0.00
1,700.0	16.12	346.85	1,663.0	278.5	-67.6	286.4	0.00	0.00	0.00
1,800.0	16.12	346.85	1,759.1	305.6	-73.9	314.1	0.00	0.00	0.00
1,900.0	16.12	346.85	1,855.1	332.6	-80.2	341.9	0.00	0.00	0.00
2,000.0	16.12	346.85	1,951.2	359.7	-86.5	369.6	0.00	0.00	0.00
2,100.0	16.12	346.85	2,047.3	386.7	-92.8	397.3	0.00	0.00	0.00
2,200.0	16.12	346.85	2,143.3	413.7	-99.2	425.1	0.00	0.00	0.00
2,300.0	16.12	346.85	2,239.4	440.8	-105.5	452.8	0.00	0.00	0.00
2,400.0	16.12	346.85	2,335.5	467.8	-111.8	480.5	0.00	0.00	0.00
2,500.0	16.12	346.85	2,431.5	494.8	-118.1	508.2	0.00	0.00	0.00
2,600.0	16.12	346.85	2,527.6	521.9	-124.4	536.0	0.00	0.00	0.00
2,700.0	16.12	346.85	2,623.7	548.9	-130.7	563.7	0.00	0.00	0.00
2,800.0	16.12	346.85	2,719.7	576.0	-137.1	591.4	0.00	0.00	0.00
2,900.0	16.12	346.85	2,815.8	603.0	-143.4	619.2	0.00	0.00	0.00
3,000.0	16.12	346.85	2,911.9	630.0	-149.7	646.9	0.00	0.00	0.00
3,100.0	16.12	346.85	3,007.9	657.1	-156.0	674.6	0.00	0.00	0.00
3,200.0	16.12	346.85	3,104.0	684.1	-162.3	702.4	0.00	0.00	0.00
3,300.0	16.12	346.85	3,200.1	711.1	-168.7	730.1	0.00	0.00	0.00
3,400.0	16.12	346.85	3,296.1	738.2	-175.0	757.8	0.00	0.00	0.00
3,500.0	16.12	346.85	3,392.2	765.2	-181.3	785.6	0.00	0.00	0.00
3,600.0	16.12	346.85	3,488.3	792.3	-187.6	813.3	0.00	0.00	0.00
Wasatch									
3,619.5	16.12	346.85	3,507.0	797.5	-188.8	818.7	0.00	0.00	0.00
3,700.0	16.12	346.85	3,584.3	819.3	-193.9	841.0	0.00	0.00	0.00
3,800.0	16.12	346.85	3,680.4	846.3	-200.3	868.8	0.00	0.00	0.00
3,900.0	16.12	346.85	3,776.5	873.4	-206.6	896.5	0.00	0.00	0.00
4,000.0	16.12	346.85	3,872.5	900.4	-212.9	924.2	0.00	0.00	0.00
4,100.0	16.12	346.85	3,968.6	927.4	-219.2	952.0	0.00	0.00	0.00
4,200.0	16.12	346.85	4,064.7	954.5	-225.5	979.7	0.00	0.00	0.00
4,300.0	16.12	346.85	4,160.8	981.5	-231.8	1,007.4	0.00	0.00	0.00
4,400.0	16.12	346.85	4,256.8	1,008.6	-238.2	1,035.2	0.00	0.00	0.00
4,500.0	16.12	346.85	4,352.9	1,035.6	-244.5	1,062.9	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 12D-23 496	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)
4,600.0	16.12	346.85	4,449.0	1,062.6	-250.8	1,090.6	0.00	0.00	0.00
4,700.0	16.12	346.85	4,545.0	1,089.7	-257.1	1,118.4	0.00	0.00	0.00
4,800.0	16.12	346.85	4,641.1	1,116.7	-263.4	1,146.1	0.00	0.00	0.00
4,900.0	16.12	346.85	4,737.2	1,143.7	-269.8	1,173.8	0.00	0.00	0.00
5,000.0	16.12	346.85	4,833.2	1,170.8	-276.1	1,201.6	0.00	0.00	0.00
5,100.0	16.12	346.85	4,929.3	1,197.8	-282.4	1,229.3	0.00	0.00	0.00
5,200.0	16.12	346.85	5,025.4	1,224.9	-288.7	1,257.0	0.00	0.00	0.00
5,300.0	16.12	346.85	5,121.4	1,251.9	-295.0	1,284.8	0.00	0.00	0.00
5,400.0	16.12	346.85	5,217.5	1,278.9	-301.4	1,312.5	0.00	0.00	0.00
5,500.0	16.12	346.85	5,313.6	1,306.0	-307.7	1,340.2	0.00	0.00	0.00
5,600.0	16.12	346.85	5,409.6	1,333.0	-314.0	1,368.0	0.00	0.00	0.00
5,700.0	16.12	346.85	5,505.7	1,360.0	-320.3	1,395.7	0.00	0.00	0.00
5,800.0	16.12	346.85	5,601.8	1,387.1	-326.6	1,423.4	0.00	0.00	0.00
5,900.0	16.12	346.85	5,697.8	1,414.1	-332.9	1,451.2	0.00	0.00	0.00
6,000.0	16.12	346.85	5,793.9	1,441.2	-339.3	1,478.9	0.00	0.00	0.00
6,100.0	16.12	346.85	5,890.0	1,468.2	-345.6	1,506.6	0.00	0.00	0.00
Wasatch G									
6,117.7	16.12	346.85	5,907.0	1,473.0	-346.7	1,511.5	0.00	0.00	0.00
6,200.0	16.12	346.85	5,986.0	1,495.2	-351.9	1,534.4	0.00	0.00	0.00
6,300.0	16.12	346.85	6,082.1	1,522.3	-358.2	1,562.1	0.00	0.00	0.00
6,400.0	16.12	346.85	6,178.2	1,549.3	-364.5	1,589.8	0.00	0.00	0.00
Fort Union									
6,430.0	16.12	346.85	6,207.0	1,557.4	-366.4	1,598.1	0.00	0.00	0.00
6,500.0	16.12	346.85	6,274.2	1,576.3	-370.9	1,617.6	0.00	0.00	0.00
6,600.0	16.12	346.85	6,370.3	1,603.4	-377.2	1,645.3	0.00	0.00	0.00
6,700.0	16.12	346.85	6,466.4	1,630.4	-383.5	1,673.0	0.00	0.00	0.00
6,800.0	16.12	346.85	6,562.5	1,657.5	-389.8	1,700.8	0.00	0.00	0.00
6,900.0	16.12	346.85	6,658.5	1,684.5	-396.1	1,728.5	0.00	0.00	0.00
7,000.0	16.12	346.85	6,754.6	1,711.5	-402.5	1,756.2	0.00	0.00	0.00
7,100.0	16.12	346.85	6,850.7	1,738.6	-408.8	1,784.0	0.00	0.00	0.00
7,200.0	16.12	346.85	6,946.7	1,765.6	-415.1	1,811.7	0.00	0.00	0.00
7,300.0	16.12	346.85	7,042.8	1,792.6	-421.4	1,839.4	0.00	0.00	0.00
7,400.0	16.12	346.85	7,138.9	1,819.7	-427.7	1,867.2	0.00	0.00	0.00
7,500.0	16.12	346.85	7,234.9	1,846.7	-434.0	1,894.9	0.00	0.00	0.00
7,600.0	16.12	346.85	7,331.0	1,873.8	-440.4	1,922.6	0.00	0.00	0.00
7,700.0	16.12	346.85	7,427.1	1,900.8	-446.7	1,950.3	0.00	0.00	0.00
7,800.0	16.12	346.85	7,523.1	1,927.8	-453.0	1,978.1	0.00	0.00	0.00
7,900.0	16.12	346.85	7,619.2	1,954.9	-459.3	2,005.8	0.00	0.00	0.00
Drop 3° /100'									
7,917.2	16.12	346.85	7,635.7	1,959.5	-460.4	2,010.6	0.00	0.00	0.00
8,000.0	13.64	346.85	7,715.7	1,980.2	-465.2	2,031.8	3.00	-3.00	0.00
8,100.0	10.64	346.85	7,813.5	2,000.7	-470.0	2,052.8	3.00	-3.00	0.00
8,200.0	7.64	346.85	7,912.2	2,016.1	-473.6	2,068.7	3.00	-3.00	0.00
8,300.0	4.64	346.85	8,011.6	2,026.6	-476.1	2,079.3	3.00	-3.00	0.00
8,400.0	1.64	346.85	8,111.5	2,031.9	-477.3	2,084.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,454.5	0.00	0.00	8,166.0	2,032.6	-477.5	2,085.6	3.00	-3.00	0.00
8,500.0	0.68	250.00	8,211.5	2,032.5	-477.8	2,085.6	1.50	1.50	0.00
EOB @ 1.37° Inc. / 250.00° Azm									
8,546.0	1.37	250.00	8,257.4	2,032.3	-478.5	2,085.5	1.50	1.50	0.00
8,600.0	1.37	250.00	8,311.4	2,031.8	-479.7	2,085.4	0.00	0.00	0.00
8,700.0	1.37	250.00	8,411.4	2,031.0	-482.0	2,085.3	0.00	0.00	0.00

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Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 12D-23 496	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)	
8,800.0	1.37	250.00	8,511.4	2,030.2	-484.2	2,085.1	0.00	0.00	0.00	
William Fork										
8,891.6	1.37	250.00	8,603.0	2,029.4	-486.3	2,084.9	0.00	0.00	0.00	
8,900.0	1.37	250.00	8,611.4	2,029.4	-486.5	2,084.9	0.00	0.00	0.00	
9,000.0	1.37	250.00	8,711.3	2,028.5	-488.7	2,084.7	0.00	0.00	0.00	
9,100.0	1.37	250.00	8,811.3	2,027.7	-491.0	2,084.6	0.00	0.00	0.00	
9,200.0	1.37	250.00	8,911.3	2,026.9	-493.2	2,084.4	0.00	0.00	0.00	
9,300.0	1.37	250.00	9,011.2	2,026.1	-495.5	2,084.2	0.00	0.00	0.00	
9,400.0	1.37	250.00	9,111.2	2,025.3	-497.7	2,084.1	0.00	0.00	0.00	
9,500.0	1.37	250.00	9,211.2	2,024.5	-500.0	2,083.9	0.00	0.00	0.00	
9,600.0	1.37	250.00	9,311.1	2,023.6	-502.2	2,083.7	0.00	0.00	0.00	
9,700.0	1.37	250.00	9,411.1	2,022.8	-504.5	2,083.6	0.00	0.00	0.00	
9,800.0	1.37	250.00	9,511.1	2,022.0	-506.7	2,083.4	0.00	0.00	0.00	
9,900.0	1.37	250.00	9,611.1	2,021.2	-509.0	2,083.2	0.00	0.00	0.00	
10,000.0	1.37	250.00	9,711.0	2,020.4	-511.2	2,083.1	0.00	0.00	0.00	
10,100.0	1.37	250.00	9,811.0	2,019.5	-513.5	2,082.9	0.00	0.00	0.00	
10,200.0	1.37	250.00	9,911.0	2,018.7	-515.7	2,082.7	0.00	0.00	0.00	
10,300.0	1.37	250.00	10,010.9	2,017.9	-518.0	2,082.6	0.00	0.00	0.00	
10,400.0	1.37	250.00	10,110.9	2,017.1	-520.2	2,082.4	0.00	0.00	0.00	
10,500.0	1.37	250.00	10,210.9	2,016.3	-522.5	2,082.2	0.00	0.00	0.00	
10,600.0	1.37	250.00	10,310.9	2,015.5	-524.7	2,082.0	0.00	0.00	0.00	
10,700.0	1.37	250.00	10,410.8	2,014.6	-527.0	2,081.9	0.00	0.00	0.00	
10,800.0	1.37	250.00	10,510.8	2,013.8	-529.2	2,081.7	0.00	0.00	0.00	
10,900.0	1.37	250.00	10,610.8	2,013.0	-531.5	2,081.5	0.00	0.00	0.00	
11,000.0	1.37	250.00	10,710.7	2,012.2	-533.7	2,081.4	0.00	0.00	0.00	
11,100.0	1.37	250.00	10,810.7	2,011.4	-536.0	2,081.2	0.00	0.00	0.00	
11,200.0	1.37	250.00	10,910.7	2,010.5	-538.2	2,081.0	0.00	0.00	0.00	
11,300.0	1.37	250.00	11,010.7	2,009.7	-540.5	2,080.9	0.00	0.00	0.00	
11,400.0	1.37	250.00	11,110.6	2,008.9	-542.7	2,080.7	0.00	0.00	0.00	
11,500.0	1.37	250.00	11,210.6	2,008.1	-545.0	2,080.5	0.00	0.00	0.00	
11,600.0	1.37	250.00	11,310.6	2,007.3	-547.2	2,080.4	0.00	0.00	0.00	
Cameo										
11,678.4	1.37	250.00	11,389.0	2,006.6	-549.0	2,080.2	0.00	0.00	0.00	
11,700.0	1.37	250.00	11,410.5	2,006.4	-549.5	2,080.2	0.00	0.00	0.00	
11,800.0	1.37	250.00	11,510.5	2,005.6	-551.7	2,080.0	0.00	0.00	0.00	
11,900.0	1.37	250.00	11,610.5	2,004.8	-554.0	2,079.9	0.00	0.00	0.00	
12,000.0	1.37	250.00	11,710.5	2,004.0	-556.2	2,079.7	0.00	0.00	0.00	
12,100.0	1.37	250.00	11,810.4	2,003.2	-558.5	2,079.5	0.00	0.00	0.00	
Rollins										
12,178.6	1.37	250.00	11,889.0	2,002.5	-560.2	2,079.4	0.00	0.00	0.00	
12,200.0	1.37	250.00	11,910.4	2,002.4	-560.7	2,079.3	0.00	0.00	0.00	
12,300.0	1.37	250.00	12,010.4	2,001.5	-563.0	2,079.2	0.00	0.00	0.00	
12,400.0	1.37	250.00	12,110.3	2,000.7	-565.2	2,079.0	0.00	0.00	0.00	
12,500.0	1.37	250.00	12,210.3	1,999.9	-567.4	2,078.8	0.00	0.00	0.00	
12,600.0	1.37	250.00	12,310.3	1,999.1	-569.7	2,078.7	0.00	0.00	0.00	
TD @ 12678.7' MD / 12389.0' TVD										
12,678.7	1.37	250.00	12,389.0	1,998.4	-571.5	2,078.5	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12D-23 496 - Slot 12D-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 12D-23 496	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 - 12D-23 - plan hits target center - Point	0.00	0.00	8,166.0	2,032.6	-477.5	14,425,993.28	2,444,555.33	39.690034	-108.141777
PBHL - 12D-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,389.0	1,998.4	-571.5	14,425,956.10	2,444,462.50	39.689940	-108.142111

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,619.5	3,507.0	Wasatch			
6,117.7	5,907.0	Wasatch G			
6,430.0	6,207.0	Fort Union			
8,454.5	8,166.0	Ohio Creek			
8,454.5	8,166.0	TOG			
8,891.6	8,603.0	William Fork			
11,678.4	11,389.0	Cameo			
12,178.6	11,889.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
400.0	400.0	0.0	0.0	Build 3° / 100'
566.7	566.5	6.9	-2.4	EOB @ 5.00° Inc. / 341.00° Azm / Build 3° / 100'
938.6	931.5	72.7	-19.4	EOB @ 16.12° Inc. / 346.85° Azm
7,917.2	7,635.7	1,959.5	-460.4	Drop 3° / 100'
8,454.5	8,166.0	2,032.6	-477.5	EOD @ Vertical / Build 1.5° / 100'
8,546.0	8,257.4	2,032.3	-478.5	EOB @ 1.37° Inc. / 250.00° Azm
12,678.7	12,389.0	1,998.4	-571.5	TD @ 12678.7' MD / 12389.0' TVD