

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 12C-23 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.684479
 Longitude: -108.140073
 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 - 12C-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	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	Build 3" / 100'
898.6	17.96	348.28	888.8	91.1	-18.9	3.00	348.28	93.0	EOB @ 17.96° Inc. / 348.28° Azm
7950.4	17.96	348.28	7597.2	2219.9	-460.4	0.00	0.00	2265.2	Drop 3" / 100'
8549.0	0.00	0.00	8186.0	2311.0	-479.3	3.00	180.00	2358.1	EOD @ Vertical / Build 1.5" / 100'
10237.9	1.69	250.00	9874.6	2302.5	-502.7	0.10	250.00	2355.6	EOB @ 1.69° Inc. / 250.00° Azm
12786.4	1.69	250.00	12422.0	2276.8	-573.3	0.00	0.00	2347.9	TD @ 12786.4' MD / 12422.0' TVD

DESIGN TARGET DETAILS

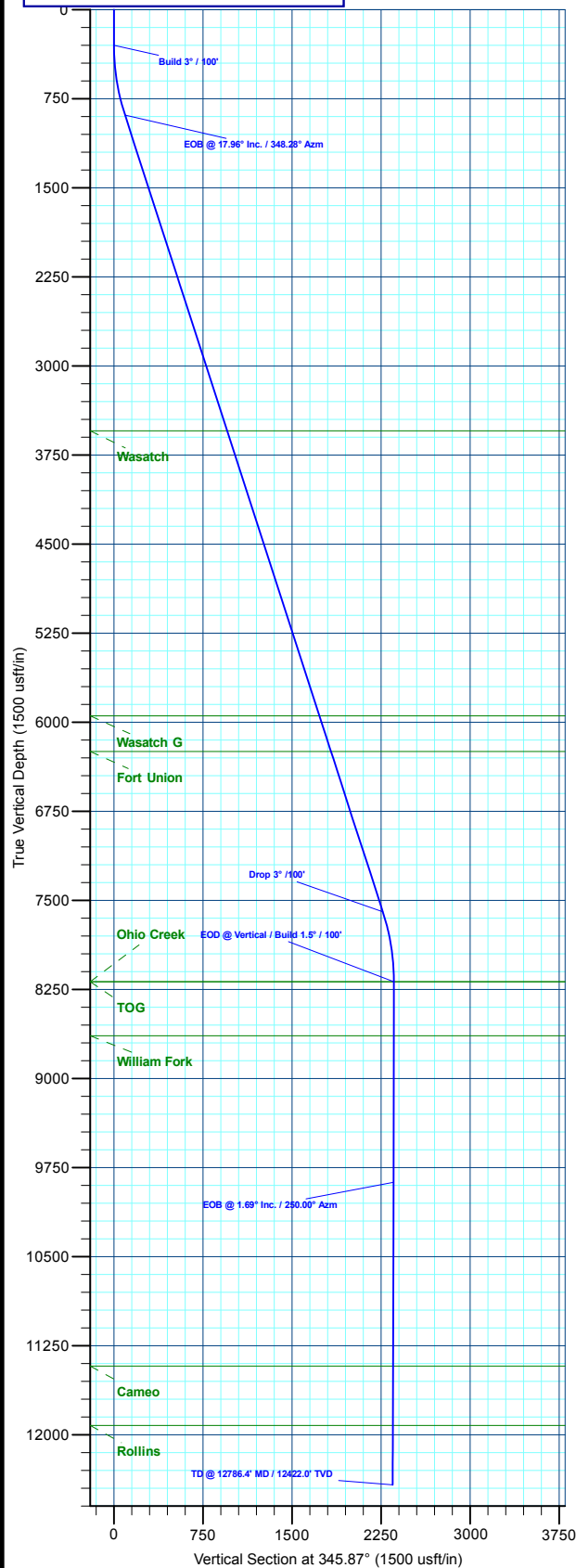
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
OHCR - 12C-23	8186.0	2311.0	-479.3	14426280.28	2444546.73	39.690821	-108.141775
PBHL - 12C-23	12422.0	2276.8	-573.3	14426243.10	2444453.90	39.690728	-108.142109

WELL DETAILS: BJU M23A FED 12C-23 496

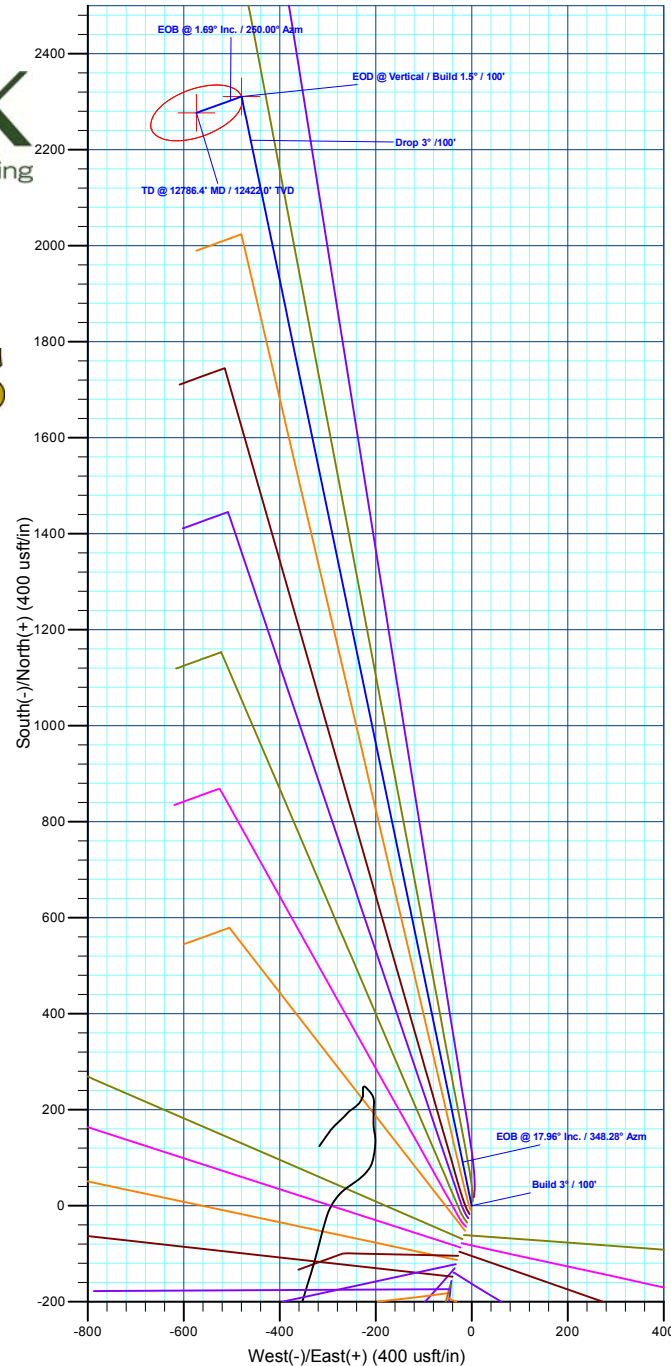
+N-S	+E-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	12C-23
0.0	0.0		14423985.70	2445099.50	39.684479	-108.140073	12C-23

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3546.0	3691.8	Wasatch
5946.0	6214.7	Wasatch G
6246.0	6530.1	Fort Union
8186.0	8549.0	Ohio Creek
8186.0	8549.0	TOG
8640.0	9003.0	William Fork
11422.0	11785.9	Cameo
11922.0	12286.2	Rollins



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 #2 (BJU M23A FED 12C-23 496/Wellbore #1)

Created By: Will Jircik

Date: 13:02, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 12C-23 496 - Slot 12C-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 12C-23 496 - Slot 12C-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 12C-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 12C-23 496 - Slot 12C-23					
Well Position	+N/-S	-42.5 usft	Northing:	14,423,985.70 usft	Latitude:	39.684479
	+E/-W	-11.5 usft	Easting:	2,445,099.50 usft	Longitude:	-108.140073
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	345.87

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		
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00		
898.6	17.96	348.28	888.8	91.1	-18.9	3.00	3.00	0.00	348.28		
7,950.4	17.96	348.28	7,597.2	2,219.9	-460.4	0.00	0.00	0.00	0.00		
8,549.0	0.00	0.00	8,186.0	2,311.0	-479.3	3.00	-3.00	0.00	180.00	OHCR - 12C-23	
10,237.9	1.69	250.00	9,874.6	2,302.5	-502.7	0.10	0.10	-6.51	250.00		
12,786.4	1.69	250.00	12,422.0	2,276.8	-573.3	0.00	0.00	0.00	0.00	PBHL - 12C-23	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12C-23 496 - Slot 12C-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 12C-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	0.00
100.0	0.00	0.00	100.0	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	0.0	0.00	0.00	0.00	0.00
Build 3° / 100'										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
400.0	3.00	348.28	400.0	2.6	-0.5	2.6	3.00	3.00	3.00	0.00
500.0	6.00	348.28	499.6	10.2	-2.1	10.5	3.00	3.00	3.00	0.00
600.0	9.00	348.28	598.8	23.0	-4.8	23.5	3.00	3.00	3.00	0.00
700.0	12.00	348.28	697.1	40.9	-8.5	41.7	3.00	3.00	3.00	0.00
800.0	15.00	348.28	794.3	63.7	-13.2	65.0	3.00	3.00	3.00	0.00
EOB @ 17.96° Inc. / 348.28° Azm										
898.6	17.96	348.28	888.8	91.1	-18.9	93.0	3.00	3.00	3.00	0.00
900.0	17.96	348.28	890.2	91.5	-19.0	93.4	0.00	0.00	0.00	0.00
1,000.0	17.96	348.28	985.3	121.7	-25.2	124.2	0.00	0.00	0.00	0.00
1,100.0	17.96	348.28	1,080.4	151.9	-31.5	155.0	0.00	0.00	0.00	0.00
1,200.0	17.96	348.28	1,175.6	182.1	-37.8	185.8	0.00	0.00	0.00	0.00
1,300.0	17.96	348.28	1,270.7	212.3	-44.0	216.6	0.00	0.00	0.00	0.00
1,400.0	17.96	348.28	1,365.8	242.5	-50.3	247.4	0.00	0.00	0.00	0.00
1,500.0	17.96	348.28	1,461.0	272.7	-56.6	278.2	0.00	0.00	0.00	0.00
1,600.0	17.96	348.28	1,556.1	302.8	-62.8	309.0	0.00	0.00	0.00	0.00
1,700.0	17.96	348.28	1,651.2	333.0	-69.1	339.8	0.00	0.00	0.00	0.00
1,800.0	17.96	348.28	1,746.3	363.2	-75.3	370.6	0.00	0.00	0.00	0.00
1,900.0	17.96	348.28	1,841.5	393.4	-81.6	401.4	0.00	0.00	0.00	0.00
2,000.0	17.96	348.28	1,936.6	423.6	-87.9	432.2	0.00	0.00	0.00	0.00
2,100.0	17.96	348.28	2,031.7	453.8	-94.1	463.0	0.00	0.00	0.00	0.00
2,200.0	17.96	348.28	2,126.9	484.0	-100.4	493.8	0.00	0.00	0.00	0.00
2,300.0	17.96	348.28	2,222.0	514.2	-106.6	524.6	0.00	0.00	0.00	0.00
2,400.0	17.96	348.28	2,317.1	544.4	-112.9	555.4	0.00	0.00	0.00	0.00
2,500.0	17.96	348.28	2,412.2	574.5	-119.2	586.2	0.00	0.00	0.00	0.00
2,600.0	17.96	348.28	2,507.4	604.7	-125.4	617.1	0.00	0.00	0.00	0.00
2,700.0	17.96	348.28	2,602.5	634.9	-131.7	647.9	0.00	0.00	0.00	0.00
2,800.0	17.96	348.28	2,697.6	665.1	-137.9	678.7	0.00	0.00	0.00	0.00
2,900.0	17.96	348.28	2,792.8	695.3	-144.2	709.5	0.00	0.00	0.00	0.00
3,000.0	17.96	348.28	2,887.9	725.5	-150.5	740.3	0.00	0.00	0.00	0.00
3,100.0	17.96	348.28	2,983.0	755.7	-156.7	771.1	0.00	0.00	0.00	0.00
3,200.0	17.96	348.28	3,078.1	785.9	-163.0	801.9	0.00	0.00	0.00	0.00
3,300.0	17.96	348.28	3,173.3	816.0	-169.3	832.7	0.00	0.00	0.00	0.00
3,400.0	17.96	348.28	3,268.4	846.2	-175.5	863.5	0.00	0.00	0.00	0.00
3,500.0	17.96	348.28	3,363.5	876.4	-181.8	894.3	0.00	0.00	0.00	0.00
3,600.0	17.96	348.28	3,458.7	906.6	-188.0	925.1	0.00	0.00	0.00	0.00
Wasatch										
3,691.8	17.96	348.28	3,546.0	934.3	-193.8	953.4	0.00	0.00	0.00	0.00
3,700.0	17.96	348.28	3,553.8	936.8	-194.3	955.9	0.00	0.00	0.00	0.00
3,800.0	17.96	348.28	3,648.9	967.0	-200.6	986.7	0.00	0.00	0.00	0.00
3,900.0	17.96	348.28	3,744.0	997.2	-206.8	1,017.5	0.00	0.00	0.00	0.00
4,000.0	17.96	348.28	3,839.2	1,027.4	-213.1	1,048.3	0.00	0.00	0.00	0.00
4,100.0	17.96	348.28	3,934.3	1,057.6	-219.3	1,079.1	0.00	0.00	0.00	0.00
4,200.0	17.96	348.28	4,029.4	1,087.7	-225.6	1,109.9	0.00	0.00	0.00	0.00
4,300.0	17.96	348.28	4,124.6	1,117.9	-231.9	1,140.7	0.00	0.00	0.00	0.00
4,400.0	17.96	348.28	4,219.7	1,148.1	-238.1	1,171.5	0.00	0.00	0.00	0.00
4,500.0	17.96	348.28	4,314.8	1,178.3	-244.4	1,202.3	0.00	0.00	0.00	0.00
4,600.0	17.96	348.28	4,409.9	1,208.5	-250.6	1,233.1	0.00	0.00	0.00	0.00
4,700.0	17.96	348.28	4,505.1	1,238.7	-256.9	1,263.9	0.00	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 12C-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)
4,800.0	17.96	348.28	4,600.2	1,268.9	-263.2	1,294.7	0.00	0.00	0.00
4,900.0	17.96	348.28	4,695.3	1,299.1	-269.4	1,325.5	0.00	0.00	0.00
5,000.0	17.96	348.28	4,790.5	1,329.2	-275.7	1,356.3	0.00	0.00	0.00
5,100.0	17.96	348.28	4,885.6	1,359.4	-282.0	1,387.1	0.00	0.00	0.00
5,200.0	17.96	348.28	4,980.7	1,389.6	-288.2	1,417.9	0.00	0.00	0.00
5,300.0	17.96	348.28	5,075.8	1,419.8	-294.5	1,448.7	0.00	0.00	0.00
5,400.0	17.96	348.28	5,171.0	1,450.0	-300.7	1,479.5	0.00	0.00	0.00
5,500.0	17.96	348.28	5,266.1	1,480.2	-307.0	1,510.4	0.00	0.00	0.00
5,600.0	17.96	348.28	5,361.2	1,510.4	-313.3	1,541.2	0.00	0.00	0.00
5,700.0	17.96	348.28	5,456.4	1,540.6	-319.5	1,572.0	0.00	0.00	0.00
5,800.0	17.96	348.28	5,551.5	1,570.8	-325.8	1,602.8	0.00	0.00	0.00
5,900.0	17.96	348.28	5,646.6	1,600.9	-332.0	1,633.6	0.00	0.00	0.00
6,000.0	17.96	348.28	5,741.7	1,631.1	-338.3	1,664.4	0.00	0.00	0.00
6,100.0	17.96	348.28	5,836.9	1,661.3	-344.6	1,695.2	0.00	0.00	0.00
6,200.0	17.96	348.28	5,932.0	1,691.5	-350.8	1,726.0	0.00	0.00	0.00
Wasatch G									
6,214.7	17.96	348.28	5,946.0	1,696.0	-351.8	1,730.5	0.00	0.00	0.00
6,300.0	17.96	348.28	6,027.1	1,721.7	-357.1	1,756.8	0.00	0.00	0.00
6,400.0	17.96	348.28	6,122.3	1,751.9	-363.4	1,787.6	0.00	0.00	0.00
6,500.0	17.96	348.28	6,217.4	1,782.1	-369.6	1,818.4	0.00	0.00	0.00
Fort Union									
6,530.1	17.96	348.28	6,246.0	1,791.2	-371.5	1,827.7	0.00	0.00	0.00
6,600.0	17.96	348.28	6,312.5	1,812.3	-375.9	1,849.2	0.00	0.00	0.00
6,700.0	17.96	348.28	6,407.6	1,842.5	-382.1	1,880.0	0.00	0.00	0.00
6,800.0	17.96	348.28	6,502.8	1,872.6	-388.4	1,910.8	0.00	0.00	0.00
6,900.0	17.96	348.28	6,597.9	1,902.8	-394.7	1,941.6	0.00	0.00	0.00
7,000.0	17.96	348.28	6,693.0	1,933.0	-400.9	1,972.4	0.00	0.00	0.00
7,100.0	17.96	348.28	6,788.2	1,963.2	-407.2	2,003.2	0.00	0.00	0.00
7,200.0	17.96	348.28	6,883.3	1,993.4	-413.4	2,034.0	0.00	0.00	0.00
7,300.0	17.96	348.28	6,978.4	2,023.6	-419.7	2,064.8	0.00	0.00	0.00
7,400.0	17.96	348.28	7,073.5	2,053.8	-426.0	2,095.6	0.00	0.00	0.00
7,500.0	17.96	348.28	7,168.7	2,084.0	-432.2	2,126.4	0.00	0.00	0.00
7,600.0	17.96	348.28	7,263.8	2,114.1	-438.5	2,157.2	0.00	0.00	0.00
7,700.0	17.96	348.28	7,358.9	2,144.3	-444.7	2,188.0	0.00	0.00	0.00
7,800.0	17.96	348.28	7,454.1	2,174.5	-451.0	2,218.8	0.00	0.00	0.00
7,900.0	17.96	348.28	7,549.2	2,204.7	-457.3	2,249.6	0.00	0.00	0.00
Drop 3° / 100'									
7,950.4	17.96	348.28	7,597.2	2,219.9	-460.4	2,265.2	0.00	0.00	0.00
8,000.0	16.47	348.28	7,644.5	2,234.3	-463.4	2,279.8	3.00	-3.00	0.00
8,100.0	13.47	348.28	7,741.1	2,259.6	-468.7	2,305.6	3.00	-3.00	0.00
8,200.0	10.47	348.28	7,838.9	2,279.9	-472.9	2,326.4	3.00	-3.00	0.00
8,300.0	7.47	348.28	7,937.7	2,295.2	-476.0	2,341.9	3.00	-3.00	0.00
8,400.0	4.47	348.28	8,037.1	2,305.3	-478.1	2,352.3	3.00	-3.00	0.00
8,500.0	1.47	348.28	8,137.0	2,310.4	-479.2	2,357.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,549.0	0.00	0.00	8,186.0	2,311.0	-479.3	2,358.1	3.00	-3.00	0.00
8,600.0	0.05	250.00	8,237.0	2,311.0	-479.3	2,358.1	0.10	0.10	0.00
8,700.0	0.15	250.00	8,337.0	2,311.0	-479.5	2,358.1	0.10	0.10	0.00
8,800.0	0.25	250.00	8,437.0	2,310.9	-479.8	2,358.1	0.10	0.10	0.00
8,900.0	0.35	250.00	8,537.0	2,310.7	-480.3	2,358.0	0.10	0.10	0.00
9,000.0	0.45	250.00	8,637.0	2,310.4	-481.0	2,357.9	0.10	0.10	0.00
William Fork									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12C-23 496 - Slot 12C-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 12C-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)
9,003.0	0.45	250.00	8,640.0	2,310.4	-481.0	2,357.9	0.00	0.00	0.00
9,100.0	0.55	250.00	8,737.0	2,310.1	-481.8	2,357.9	0.10	0.10	0.00
9,200.0	0.65	250.00	8,837.0	2,309.8	-482.8	2,357.7	0.10	0.10	0.00
9,300.0	0.75	250.00	8,937.0	2,309.4	-483.9	2,357.6	0.10	0.10	0.00
9,400.0	0.85	250.00	9,036.9	2,308.9	-485.3	2,357.5	0.10	0.10	0.00
9,500.0	0.95	250.00	9,136.9	2,308.3	-486.7	2,357.3	0.10	0.10	0.00
9,600.0	1.05	250.00	9,236.9	2,307.7	-488.4	2,357.1	0.10	0.10	0.00
9,700.0	1.15	250.00	9,336.9	2,307.1	-490.2	2,356.9	0.10	0.10	0.00
9,800.0	1.25	250.00	9,436.9	2,306.4	-492.2	2,356.7	0.10	0.10	0.00
9,900.0	1.35	250.00	9,536.9	2,305.6	-494.3	2,356.5	0.10	0.10	0.00
10,000.0	1.45	250.00	9,636.8	2,304.8	-496.6	2,356.2	0.10	0.10	0.00
10,100.0	1.55	250.00	9,736.8	2,303.9	-499.0	2,356.0	0.10	0.10	0.00
10,200.0	1.65	250.00	9,836.7	2,302.9	-501.7	2,355.7	0.10	0.10	0.00
EOB @ 1.69° Inc. / 250.00° Azm									
10,237.9	1.69	250.00	9,874.6	2,302.5	-502.7	2,355.6	0.10	0.10	0.00
10,300.0	1.69	250.00	9,936.7	2,301.9	-504.4	2,355.4	0.00	0.00	0.00
10,400.0	1.69	250.00	10,036.7	2,300.9	-507.2	2,355.1	0.00	0.00	0.00
10,500.0	1.69	250.00	10,136.6	2,299.9	-510.0	2,354.8	0.00	0.00	0.00
10,600.0	1.69	250.00	10,236.6	2,298.9	-512.7	2,354.5	0.00	0.00	0.00
10,700.0	1.69	250.00	10,336.5	2,297.9	-515.5	2,354.2	0.00	0.00	0.00
10,800.0	1.69	250.00	10,436.5	2,296.9	-518.3	2,353.9	0.00	0.00	0.00
10,900.0	1.69	250.00	10,536.4	2,295.9	-521.0	2,353.6	0.00	0.00	0.00
11,000.0	1.69	250.00	10,636.4	2,294.8	-523.8	2,353.3	0.00	0.00	0.00
11,100.0	1.69	250.00	10,736.4	2,293.8	-526.6	2,353.0	0.00	0.00	0.00
11,200.0	1.69	250.00	10,836.3	2,292.8	-529.4	2,352.7	0.00	0.00	0.00
11,300.0	1.69	250.00	10,936.3	2,291.8	-532.1	2,352.4	0.00	0.00	0.00
11,400.0	1.69	250.00	11,036.2	2,290.8	-534.9	2,352.1	0.00	0.00	0.00
11,500.0	1.69	250.00	11,136.2	2,289.8	-537.7	2,351.8	0.00	0.00	0.00
11,600.0	1.69	250.00	11,236.1	2,288.8	-540.4	2,351.5	0.00	0.00	0.00
11,700.0	1.69	250.00	11,336.1	2,287.8	-543.2	2,351.2	0.00	0.00	0.00
Cameo									
11,785.9	1.69	250.00	11,422.0	2,286.9	-545.6	2,350.9	0.00	0.00	0.00
11,800.0	1.69	250.00	11,436.1	2,286.8	-546.0	2,350.9	0.00	0.00	0.00
11,900.0	1.69	250.00	11,536.0	2,285.8	-548.7	2,350.6	0.00	0.00	0.00
12,000.0	1.69	250.00	11,636.0	2,284.8	-551.5	2,350.3	0.00	0.00	0.00
12,100.0	1.69	250.00	11,735.9	2,283.8	-554.3	2,350.0	0.00	0.00	0.00
12,200.0	1.69	250.00	11,835.9	2,282.7	-557.1	2,349.7	0.00	0.00	0.00
Rollins									
12,286.2	1.69	250.00	11,922.0	2,281.9	-559.4	2,349.4	0.00	0.00	0.00
12,300.0	1.69	250.00	11,935.8	2,281.7	-559.8	2,349.4	0.00	0.00	0.00
12,400.0	1.69	250.00	12,035.8	2,280.7	-562.6	2,349.1	0.00	0.00	0.00
12,500.0	1.69	250.00	12,135.7	2,279.7	-565.4	2,348.8	0.00	0.00	0.00
12,600.0	1.69	250.00	12,235.7	2,278.7	-568.1	2,348.5	0.00	0.00	0.00
12,700.0	1.69	250.00	12,335.7	2,277.7	-570.9	2,348.2	0.00	0.00	0.00
TD @ 12786.4' MD / 12422.0' TVD									
12,786.4	1.69	250.00	12,422.0	2,276.8	-573.3	2,347.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 12C-23 496 - Slot 12C-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 12C-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 - 12C-23 - plan hits target center - Point	0.00	0.00	8,186.0	2,311.0	-479.3	14,426,280.28	2,444,546.73	39.690822	-108.141775
PBHL - 12C-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,422.0	2,276.8	-573.3	14,426,243.10	2,444,453.90	39.690728	-108.142109

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,691.8	3,546.0	Wasatch			
6,214.7	5,946.0	Wasatch G			
6,530.1	6,246.0	Fort Union			
8,549.0	8,186.0	Ohio Creek			
8,549.0	8,186.0	TOG			
9,003.0	8,640.0	William Fork			
11,785.9	11,422.0	Cameo			
12,286.2	11,922.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.0	300.0	0.0	0.0	Build 3° / 100'
898.6	888.8	91.1	-18.9	EOB @ 17.96° Inc. / 348.28° Azm
7,950.4	7,597.2	2,219.9	-460.4	Drop 3° / 100'
8,549.0	8,186.0	2,311.0	-479.3	EOD @ Vertical / Build 1.5° / 100'
10,237.9	9,874.6	2,302.5	-502.7	EOB @ 1.69° Inc. / 250.00° Azm
12,786.4	12,422.0	2,276.8	-573.3	TD @ 12786.4' MD / 12422.0' TVD