

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 25A-23 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.684265
 Longitude: -108.140148
 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 - 25A-23(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8134.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3458.0	3561.0	Wasatch
5858.0	6055.9	Wasatch G
6158.0	6367.8	Fort Union
8126.0	8399.7	Ohio Creek
8126.0	8399.7	TOG
8505.0	8778.8	William Fork
11438.0	11712.6	Cameo
11938.0	12212.7	Rollins

SECTION DETAILS

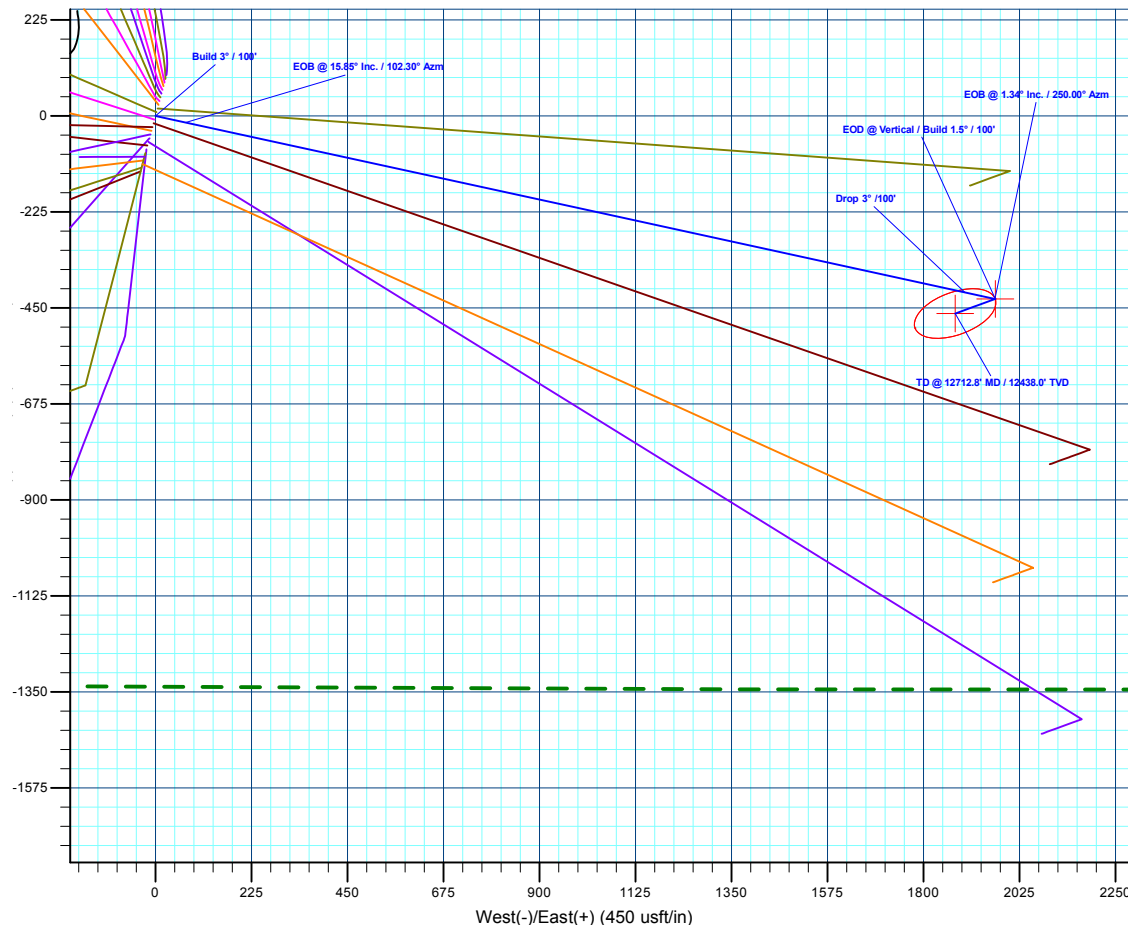
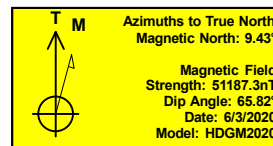
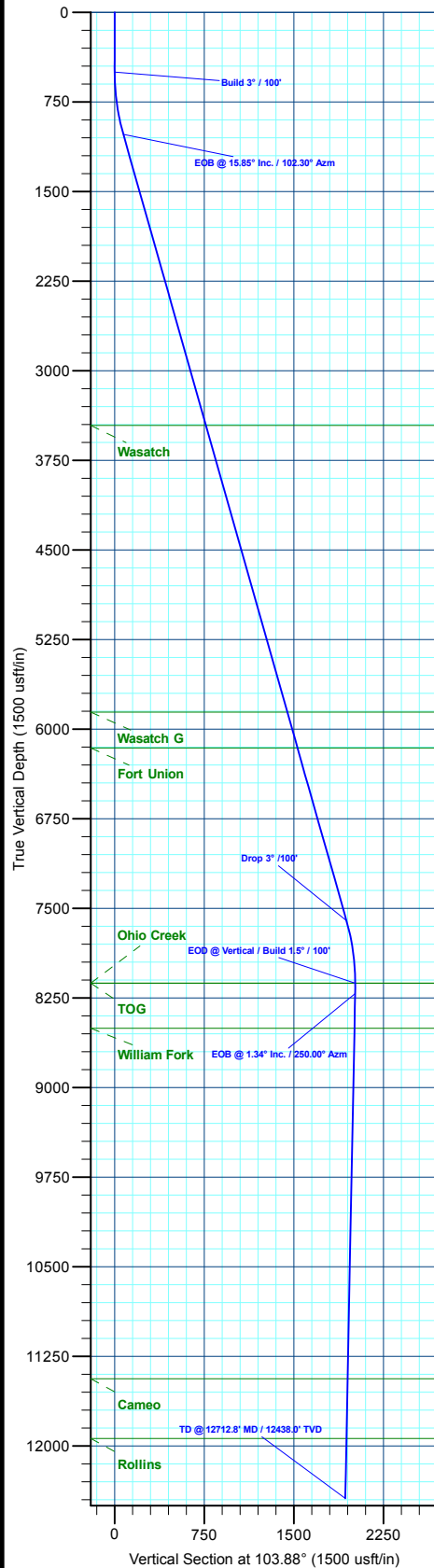
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3" / 100'
1028.4	15.85	102.30	1021.7	-15.5	71.0	3.00	102.30	72.6	EOB @ 15.85° Inc. / 102.30° Azm
7871.3	15.85	102.30	7604.3	-413.5	1897.3	0.00	0.00	1941.1	Drop 3" / 100'
8399.7	0.00	0.00	8126.0	-429.0	1968.3	3.00	180.00	2013.7	EOD @ Vertical / Build 1.5" / 100'
8489.2	1.34	250.00	8215.5	-429.4	1967.3	1.50	250.00	2012.8	EOB @ 1.34° Inc. / 250.00° Azm
12712.8	1.34	250.00	12438.0	-463.2	1874.3	0.00	0.00	1930.7	TD @ 12712.8' MD / 12438.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25A-23	8126.0	-429.0	1968.3	14423540.88	2447061.73	39.683087	-108.133157
PBHL - 25A-23	12438.0	-463.2	1874.3	14423503.70	2446968.90	39.682993	-108.133491

WELL DETAILS: BJU M23A FED 25A-23 496

Ground Level : 8104.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	14423906.90	2445080.80	39.684265	-108.140148	25A-23	



Plan: Design #2 (BJU M23A FED 25A-23 496/Wellbore #1)

Created By: Will Jircik

Date: 16:01, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 25A-23 496 - Slot 25A-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 25A-23 496 - Slot 25A-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 25A-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
From:	Map	Easting:	2,445,109.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.684596
		Longitude:	-108.140032
		Grid Convergence:	1.83 °

Well	BJU M23A FED 25A-23 496 - Slot 25A-23		
Well Position	+N/-S	-120.6 usft	Northing: 14,423,906.90 usft
	+E/-W	-32.7 usft	Easting: 2,445,080.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.684265
			Longitude: -108.140148
			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	103.88	

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	
1,028.4	15.85	102.30	1,021.7	-15.5	71.0	3.00	3.00	0.00	102.30	
7,871.3	15.85	102.30	7,604.3	-413.5	1,897.3	0.00	0.00	0.00	0.00	
8,399.7	0.00	0.00	8,126.0	-429.0	1,968.3	3.00	-3.00	0.00	180.00	OHCR - 25A-23
8,489.2	1.34	250.00	8,215.5	-429.4	1,967.3	1.50	1.50	-122.91	250.00	
12,712.8	1.34	250.00	12,438.0	-463.2	1,874.3	0.00	0.00	0.00	0.00	PBHL - 25A-23

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25A-23 496 - Slot 25A-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 25A-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	
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	102.30	600.0	-0.6	2.6	2.6	3.00	3.00	0.00	
700.0	6.00	102.30	699.6	-2.2	10.2	10.5	3.00	3.00	0.00	
800.0	9.00	102.30	798.8	-5.0	23.0	23.5	3.00	3.00	0.00	
900.0	12.00	102.30	897.1	-8.9	40.8	41.7	3.00	3.00	0.00	
1,000.0	15.00	102.30	994.3	-13.9	63.6	65.1	3.00	3.00	0.00	
EOB @ 15.85° Inc. / 102.30° Azm										
1,028.4	15.85	102.30	1,021.7	-15.5	71.0	72.6	3.00	3.00	0.00	
1,100.0	15.85	102.30	1,090.6	-19.6	90.1	92.2	0.00	0.00	0.00	
1,200.0	15.85	102.30	1,186.8	-25.4	116.8	119.5	0.00	0.00	0.00	
1,300.0	15.85	102.30	1,283.0	-31.3	143.5	146.8	0.00	0.00	0.00	
1,400.0	15.85	102.30	1,379.2	-37.1	170.1	174.1	0.00	0.00	0.00	
1,500.0	15.85	102.30	1,475.3	-42.9	196.8	201.4	0.00	0.00	0.00	
1,600.0	15.85	102.30	1,571.5	-48.7	223.5	228.7	0.00	0.00	0.00	
1,700.0	15.85	102.30	1,667.7	-54.5	250.2	256.0	0.00	0.00	0.00	
1,800.0	15.85	102.30	1,763.9	-60.4	276.9	283.3	0.00	0.00	0.00	
1,900.0	15.85	102.30	1,860.1	-66.2	303.6	310.6	0.00	0.00	0.00	
2,000.0	15.85	102.30	1,956.3	-72.0	330.3	337.9	0.00	0.00	0.00	
2,100.0	15.85	102.30	2,052.5	-77.8	357.0	365.2	0.00	0.00	0.00	
2,200.0	15.85	102.30	2,148.7	-83.6	383.7	392.5	0.00	0.00	0.00	
2,300.0	15.85	102.30	2,244.9	-89.4	410.3	419.8	0.00	0.00	0.00	
2,400.0	15.85	102.30	2,341.1	-95.3	437.0	447.1	0.00	0.00	0.00	
2,500.0	15.85	102.30	2,437.3	-101.1	463.7	474.4	0.00	0.00	0.00	
2,600.0	15.85	102.30	2,533.5	-106.9	490.4	501.7	0.00	0.00	0.00	
2,700.0	15.85	102.30	2,629.7	-112.7	517.1	529.0	0.00	0.00	0.00	
2,800.0	15.85	102.30	2,725.9	-118.5	543.8	556.3	0.00	0.00	0.00	
2,900.0	15.85	102.30	2,822.1	-124.3	570.5	583.7	0.00	0.00	0.00	
3,000.0	15.85	102.30	2,918.3	-130.2	597.2	611.0	0.00	0.00	0.00	
3,100.0	15.85	102.30	3,014.5	-136.0	623.9	638.3	0.00	0.00	0.00	
3,200.0	15.85	102.30	3,110.7	-141.8	650.6	665.6	0.00	0.00	0.00	
3,300.0	15.85	102.30	3,206.9	-147.6	677.2	692.9	0.00	0.00	0.00	
3,400.0	15.85	102.30	3,303.1	-153.4	703.9	720.2	0.00	0.00	0.00	
3,500.0	15.85	102.30	3,399.3	-159.2	730.6	747.5	0.00	0.00	0.00	
Wasatch										
3,561.0	15.85	102.30	3,458.0	-162.8	746.9	764.2	0.00	0.00	0.00	
3,600.0	15.85	102.30	3,495.5	-165.1	757.3	774.8	0.00	0.00	0.00	
3,700.0	15.85	102.30	3,591.7	-170.9	784.0	802.1	0.00	0.00	0.00	
3,800.0	15.85	102.30	3,687.9	-176.7	810.7	829.4	0.00	0.00	0.00	
3,900.0	15.85	102.30	3,784.1	-182.5	837.4	856.7	0.00	0.00	0.00	
4,000.0	15.85	102.30	3,880.3	-188.3	864.1	884.0	0.00	0.00	0.00	
4,100.0	15.85	102.30	3,976.5	-194.1	890.8	911.3	0.00	0.00	0.00	
4,200.0	15.85	102.30	4,072.7	-200.0	917.4	938.6	0.00	0.00	0.00	
4,300.0	15.85	102.30	4,168.9	-205.8	944.1	965.9	0.00	0.00	0.00	
4,400.0	15.85	102.30	4,265.1	-211.6	970.8	993.2	0.00	0.00	0.00	
4,500.0	15.85	102.30	4,361.3	-217.4	997.5	1,020.5	0.00	0.00	0.00	
4,600.0	15.85	102.30	4,457.5	-223.2	1,024.2	1,047.8	0.00	0.00	0.00	
4,700.0	15.85	102.30	4,553.6	-229.1	1,050.9	1,075.2	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 25A-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	15.85	102.30	4,649.8	-234.9	1,077.6	1,102.5	0.00	0.00	0.00
4,900.0	15.85	102.30	4,746.0	-240.7	1,104.3	1,129.8	0.00	0.00	0.00
5,000.0	15.85	102.30	4,842.2	-246.5	1,131.0	1,157.1	0.00	0.00	0.00
5,100.0	15.85	102.30	4,938.4	-252.3	1,157.7	1,184.4	0.00	0.00	0.00
5,200.0	15.85	102.30	5,034.6	-258.1	1,184.3	1,211.7	0.00	0.00	0.00
5,300.0	15.85	102.30	5,130.8	-264.0	1,211.0	1,239.0	0.00	0.00	0.00
5,400.0	15.85	102.30	5,227.0	-269.8	1,237.7	1,266.3	0.00	0.00	0.00
5,500.0	15.85	102.30	5,323.2	-275.6	1,264.4	1,293.6	0.00	0.00	0.00
5,600.0	15.85	102.30	5,419.4	-281.4	1,291.1	1,320.9	0.00	0.00	0.00
5,700.0	15.85	102.30	5,515.6	-287.2	1,317.8	1,348.2	0.00	0.00	0.00
5,800.0	15.85	102.30	5,611.8	-293.0	1,344.5	1,375.5	0.00	0.00	0.00
5,900.0	15.85	102.30	5,708.0	-298.9	1,371.2	1,402.8	0.00	0.00	0.00
6,000.0	15.85	102.30	5,804.2	-304.7	1,397.9	1,430.1	0.00	0.00	0.00
Wasatch G									
6,055.9	15.85	102.30	5,858.0	-307.9	1,412.8	1,445.4	0.00	0.00	0.00
6,100.0	15.85	102.30	5,900.4	-310.5	1,424.5	1,457.4	0.00	0.00	0.00
6,200.0	15.85	102.30	5,996.6	-316.3	1,451.2	1,484.7	0.00	0.00	0.00
6,300.0	15.85	102.30	6,092.8	-322.1	1,477.9	1,512.0	0.00	0.00	0.00
Fort Union									
6,367.8	15.85	102.30	6,158.0	-326.1	1,496.0	1,530.5	0.00	0.00	0.00
6,400.0	15.85	102.30	6,189.0	-327.9	1,504.6	1,539.3	0.00	0.00	0.00
6,500.0	15.85	102.30	6,285.2	-333.8	1,531.3	1,566.7	0.00	0.00	0.00
6,600.0	15.85	102.30	6,381.4	-339.6	1,558.0	1,594.0	0.00	0.00	0.00
6,700.0	15.85	102.30	6,477.6	-345.4	1,584.7	1,621.3	0.00	0.00	0.00
6,800.0	15.85	102.30	6,573.8	-351.2	1,611.4	1,648.6	0.00	0.00	0.00
6,900.0	15.85	102.30	6,670.0	-357.0	1,638.1	1,675.9	0.00	0.00	0.00
7,000.0	15.85	102.30	6,766.2	-362.8	1,664.7	1,703.2	0.00	0.00	0.00
7,100.0	15.85	102.30	6,862.4	-368.7	1,691.4	1,730.5	0.00	0.00	0.00
7,200.0	15.85	102.30	6,958.6	-374.5	1,718.1	1,757.8	0.00	0.00	0.00
7,300.0	15.85	102.30	7,054.8	-380.3	1,744.8	1,785.1	0.00	0.00	0.00
7,400.0	15.85	102.30	7,151.0	-386.1	1,771.5	1,812.4	0.00	0.00	0.00
7,500.0	15.85	102.30	7,247.2	-391.9	1,798.2	1,839.7	0.00	0.00	0.00
7,600.0	15.85	102.30	7,343.4	-397.7	1,824.9	1,867.0	0.00	0.00	0.00
7,700.0	15.85	102.30	7,439.6	-403.6	1,851.6	1,894.3	0.00	0.00	0.00
7,800.0	15.85	102.30	7,535.8	-409.4	1,878.3	1,921.6	0.00	0.00	0.00
Drop 3° /100'									
7,871.3	15.85	102.30	7,604.3	-413.5	1,897.3	1,941.1	0.00	0.00	0.00
7,900.0	14.99	102.30	7,632.0	-415.2	1,904.8	1,948.7	3.00	-3.00	0.00
8,000.0	11.99	102.30	7,729.2	-420.1	1,927.5	1,972.0	3.00	-3.00	0.00
8,100.0	8.99	102.30	7,827.6	-424.0	1,945.3	1,990.2	3.00	-3.00	0.00
8,200.0	5.99	102.30	7,926.7	-426.8	1,958.1	2,003.3	3.00	-3.00	0.00
8,300.0	2.99	102.30	8,026.4	-428.4	1,965.7	2,011.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek - TOG									
8,399.7	0.00	0.00	8,126.0	-429.0	1,968.3	2,013.7	3.00	-3.00	0.00
EOB @ 1.34° Inc. / 250.00° Azm									
8,489.2	1.34	250.00	8,215.5	-429.4	1,967.3	2,012.8	1.50	1.50	0.00
8,500.0	1.34	250.00	8,226.3	-429.4	1,967.0	2,012.6	0.00	0.00	0.00
8,600.0	1.34	250.00	8,326.3	-430.2	1,964.8	2,010.7	0.00	0.00	0.00
8,700.0	1.34	250.00	8,426.3	-431.0	1,962.6	2,008.7	0.00	0.00	0.00
William Fork									
8,778.8	1.34	250.00	8,505.0	-431.7	1,960.9	2,007.2	0.00	0.00	0.00
8,800.0	1.34	250.00	8,526.2	-431.8	1,960.4	2,006.8	0.00	0.00	0.00

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Project:	Garfield County, CO	MD Reference:	RKB @ 8134.0usft (30')
Site:	BJU M23A 496 Pad	North Reference:	True
Well:	BJU M23A FED 25A-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)
8,900.0	1.34	250.00	8,626.2	-432.6	1,958.2	2,004.8	0.00	0.00	0.00
9,000.0	1.34	250.00	8,726.2	-433.4	1,956.0	2,002.9	0.00	0.00	0.00
9,100.0	1.34	250.00	8,826.1	-434.2	1,953.8	2,000.9	0.00	0.00	0.00
9,200.0	1.34	250.00	8,926.1	-435.1	1,951.6	1,999.0	0.00	0.00	0.00
9,300.0	1.34	250.00	9,026.1	-435.9	1,949.4	1,997.0	0.00	0.00	0.00
9,400.0	1.34	250.00	9,126.1	-436.7	1,947.2	1,995.1	0.00	0.00	0.00
9,500.0	1.34	250.00	9,226.0	-437.5	1,945.0	1,993.2	0.00	0.00	0.00
9,600.0	1.34	250.00	9,326.0	-438.3	1,942.8	1,991.2	0.00	0.00	0.00
9,700.0	1.34	250.00	9,426.0	-439.1	1,940.6	1,989.3	0.00	0.00	0.00
9,800.0	1.34	250.00	9,526.0	-439.9	1,938.4	1,987.3	0.00	0.00	0.00
9,900.0	1.34	250.00	9,625.9	-440.7	1,936.2	1,985.4	0.00	0.00	0.00
10,000.0	1.34	250.00	9,725.9	-441.5	1,934.0	1,983.4	0.00	0.00	0.00
10,100.0	1.34	250.00	9,825.9	-442.3	1,931.8	1,981.5	0.00	0.00	0.00
10,200.0	1.34	250.00	9,925.8	-443.1	1,929.6	1,979.5	0.00	0.00	0.00
10,300.0	1.34	250.00	10,025.8	-443.9	1,927.4	1,977.6	0.00	0.00	0.00
10,400.0	1.34	250.00	10,125.8	-444.7	1,925.2	1,975.7	0.00	0.00	0.00
10,500.0	1.34	250.00	10,225.8	-445.5	1,923.0	1,973.7	0.00	0.00	0.00
10,600.0	1.34	250.00	10,325.7	-446.3	1,920.8	1,971.8	0.00	0.00	0.00
10,700.0	1.34	250.00	10,425.7	-447.1	1,918.6	1,969.8	0.00	0.00	0.00
10,800.0	1.34	250.00	10,525.7	-447.9	1,916.4	1,967.9	0.00	0.00	0.00
10,900.0	1.34	250.00	10,625.7	-448.7	1,914.2	1,965.9	0.00	0.00	0.00
11,000.0	1.34	250.00	10,725.6	-449.5	1,912.0	1,964.0	0.00	0.00	0.00
11,100.0	1.34	250.00	10,825.6	-450.3	1,909.8	1,962.0	0.00	0.00	0.00
11,200.0	1.34	250.00	10,925.6	-451.1	1,907.6	1,960.1	0.00	0.00	0.00
11,300.0	1.34	250.00	11,025.5	-451.9	1,905.4	1,958.2	0.00	0.00	0.00
11,400.0	1.34	250.00	11,125.5	-452.7	1,903.2	1,956.2	0.00	0.00	0.00
11,500.0	1.34	250.00	11,225.5	-453.5	1,901.0	1,954.3	0.00	0.00	0.00
11,600.0	1.34	250.00	11,325.5	-454.3	1,898.8	1,952.3	0.00	0.00	0.00
11,700.0	1.34	250.00	11,425.4	-455.1	1,896.6	1,950.4	0.00	0.00	0.00
Cameo									
11,712.6	1.34	250.00	11,438.0	-455.2	1,896.3	1,950.1	0.00	0.00	0.00
11,800.0	1.34	250.00	11,525.4	-455.9	1,894.4	1,948.4	0.00	0.00	0.00
11,900.0	1.34	250.00	11,625.4	-456.7	1,892.2	1,946.5	0.00	0.00	0.00
12,000.0	1.34	250.00	11,725.4	-457.5	1,890.0	1,944.5	0.00	0.00	0.00
12,100.0	1.34	250.00	11,825.3	-458.3	1,887.8	1,942.6	0.00	0.00	0.00
12,200.0	1.34	250.00	11,925.3	-459.1	1,885.6	1,940.6	0.00	0.00	0.00
Rollins									
12,212.7	1.34	250.00	11,938.0	-459.2	1,885.3	1,940.4	0.00	0.00	0.00
12,300.0	1.34	250.00	12,025.3	-459.9	1,883.4	1,938.7	0.00	0.00	0.00
12,400.0	1.34	250.00	12,125.2	-460.7	1,881.2	1,936.8	0.00	0.00	0.00
12,500.0	1.34	250.00	12,225.2	-461.5	1,879.0	1,934.8	0.00	0.00	0.00
12,600.0	1.34	250.00	12,325.2	-462.3	1,876.8	1,932.9	0.00	0.00	0.00
12,700.0	1.34	250.00	12,425.2	-463.1	1,874.6	1,930.9	0.00	0.00	0.00
TD @ 12712.8' MD / 12438.0' TVD									
12,712.8	1.34	250.00	12,438.0	-463.2	1,874.3	1,930.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25A-23 496 - Slot 25A-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 25A-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 - 25A-23 - plan hits target center - Point	0.00	0.00	8,126.0	-429.0	1,968.3	14,423,540.88	2,447,061.73	39.683087	-108.133158
PBHL - 25A-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,438.0	-463.2	1,874.3	14,423,503.70	2,446,968.90	39.682993	-108.133491

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,561.0	3,458.0	Wasatch			
6,055.9	5,858.0	Wasatch G			
6,367.8	6,158.0	Fort Union			
8,399.7	8,126.0	Ohio Creek			
8,399.7	8,126.0	TOG			
8,778.8	8,505.0	William Fork			
11,712.6	11,438.0	Cameo			
12,212.7	11,938.0	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'
1,028.4	1,021.7	-15.5	71.0	EOB @ 15.85° Inc. / 102.30° Azm
7,871.3	7,604.3	-413.5	1,897.3	Drop 3° / 100'
8,399.7	8,126.0	-429.0	1,968.3	EOD @ Vertical / Build 1.5° / 100'
8,489.2	8,215.5	-429.4	1,967.3	EOB @ 1.34° Inc. / 250.00° Azm
12,712.8	12,438.0	-463.2	1,874.3	TD @ 12712.8' MD / 12438.0' TVD