

Project: Garfield County, CO
Site: BJU M23A 496 Pad
Well: BJU M23A FED 15B-23 496
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.684026
Longitude: -108.140231
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 - 15B-23(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8134.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3318.0	3344.0	Wasatch
5718.0	5756.5	Wasatch G
6018.0	6056.5	Fort Union
8032.0	8070.5	Ohio Creek
8032.0	8070.5	TOG
8379.0	8417.6	William Fork
11261.0	11300.4	Cameo
11761.0	11800.5	Rollins

SECTION DETAILS

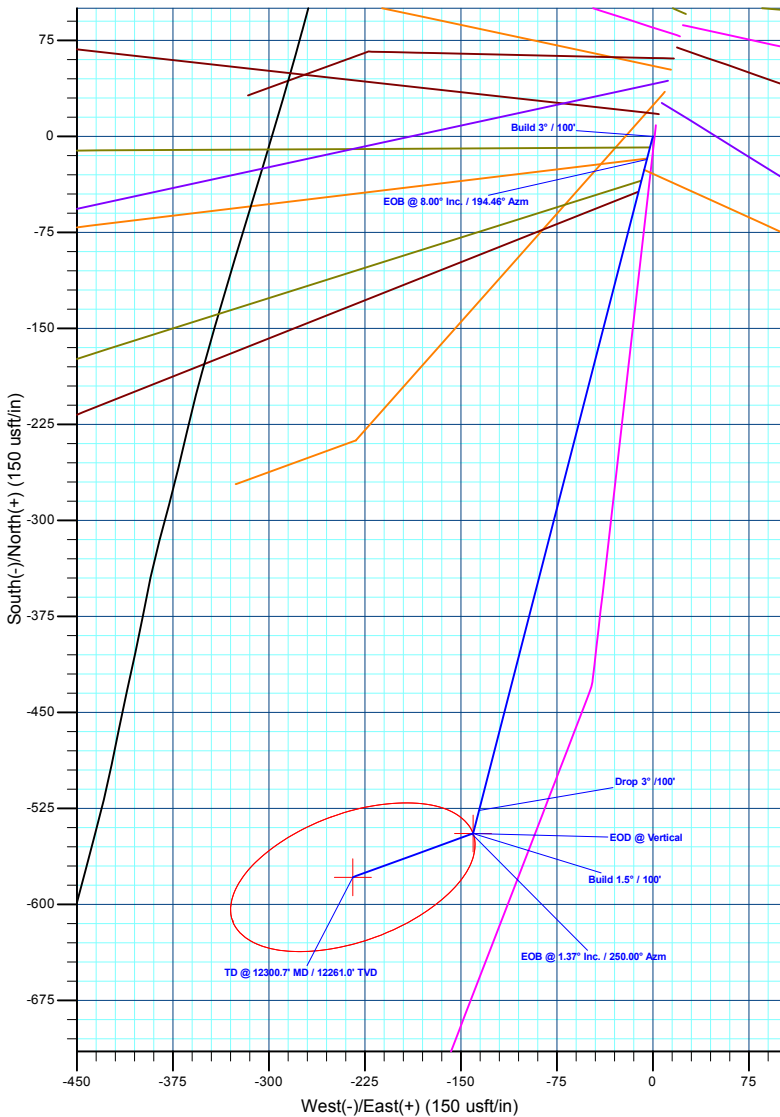
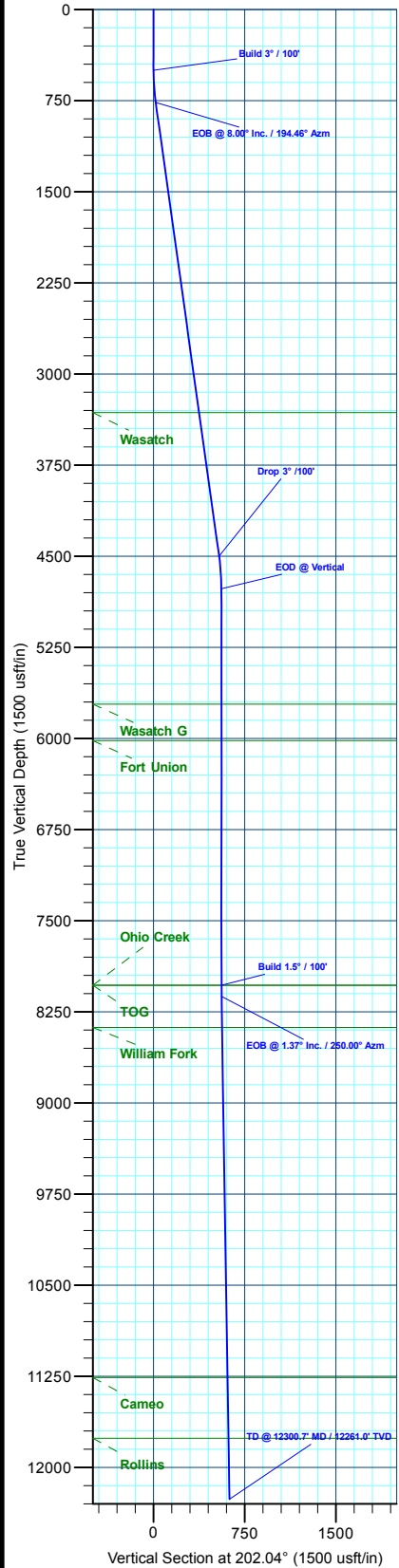
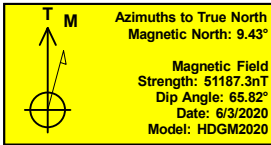
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3" / 100'
766.8	8.00	194.46	765.9	-18.0	-4.6	3.00	194.46	18.4	EOB @ 8.00" Inc. / 194.46" Azm
4538.7	8.00	194.46	4501.1	-526.6	-135.8	0.00	0.00	539.1	Drop 3" / 100'
4805.5	0.00	0.00	4767.0	-544.6	-140.4	3.00	180.00	557.5	EOD @ Vertical
8070.5	0.00	0.00	8032.0	-544.6	-140.4	0.00	0.00	557.5	Build 1.5" / 100'
8161.8	1.37	250.00	8123.3	-545.0	-141.4	1.50	250.00	558.2	EOB @ 1.37" Inc. / 250.00" Azm
12300.7	1.37	250.00	12261.0	-578.8	-234.4	0.00	0.00	624.5	TD @ 12300.7 MD / 12261.0" TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 15B-23	8032.0	-544.6	-140.4	14423270.48	2444937.13	39.682532	-108.140730
PBHL - 15B-23	12261.0	-578.8	-234.4	14423233.30	2444844.30	39.682438	-108.141064

WELL DETAILS: BJU M23A FED 15B-23 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14423819.30	2445060.10	39.684026	-108.140231 15B-23



Plan: Design #2 (BJU M23A FED 15B-23 496/Wellbore #1)

Created By: Will Jircik

Date: 15:03, July 18 2022



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 15B-23 496 - Slot 15B-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 15B-23 496 - Slot 15B-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 15B-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 15B-23 496 - Slot 15B-23			
Well Position	+N/-S	-207.5 usft	Northing:	14,423,819.30 usft
	+E/-W	-56.1 usft	Easting:	2,445,060.10 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	Latitude: 39.684026
				Longitude: -108.140232
				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	202.04

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
766.8	8.00	194.46	765.9	-18.0	-4.6	3.00	3.00	0.00	194.46	
4,538.7	8.00	194.46	4,501.1	-526.6	-135.8	0.00	0.00	0.00	0.00	
4,805.5	0.00	0.00	4,767.0	-544.6	-140.4	3.00	-3.00	0.00	180.00	
8,070.5	0.00	0.00	8,032.0	-544.6	-140.4	0.00	0.00	0.00	0.00	OHCR - 15B-23
8,161.8	1.37	250.00	8,123.3	-545.0	-141.4	1.50	1.50	-120.50	250.00	
12,300.7	1.37	250.00	12,261.0	-578.8	-234.4	0.00	0.00	0.00	0.00	PBHL - 15B-23

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 15B-23 496 - Slot 15B-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 15B-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	194.46	600.0	-2.5	-0.7	2.6	3.00	3.00	0.00
700.0	6.00	194.46	699.6	-10.1	-2.6	10.4	3.00	3.00	0.00
EOB @ 8.00° Inc. / 194.46° Azm									
766.8	8.00	194.46	765.9	-18.0	-4.6	18.4	3.00	3.00	0.00
800.0	8.00	194.46	798.8	-22.5	-5.8	23.0	0.00	0.00	0.00
900.0	8.00	194.46	897.8	-36.0	-9.3	36.8	0.00	0.00	0.00
1,000.0	8.00	194.46	996.9	-49.5	-12.8	50.6	0.00	0.00	0.00
1,100.0	8.00	194.46	1,095.9	-62.9	-16.2	64.4	0.00	0.00	0.00
1,200.0	8.00	194.46	1,194.9	-76.4	-19.7	78.2	0.00	0.00	0.00
1,300.0	8.00	194.46	1,293.9	-89.9	-23.2	92.0	0.00	0.00	0.00
1,400.0	8.00	194.46	1,393.0	-103.4	-26.7	105.8	0.00	0.00	0.00
1,500.0	8.00	194.46	1,492.0	-116.9	-30.1	119.6	0.00	0.00	0.00
1,600.0	8.00	194.46	1,591.0	-130.4	-33.6	133.4	0.00	0.00	0.00
1,700.0	8.00	194.46	1,690.0	-143.8	-37.1	147.2	0.00	0.00	0.00
1,800.0	8.00	194.46	1,789.1	-157.3	-40.6	161.1	0.00	0.00	0.00
1,900.0	8.00	194.46	1,888.1	-170.8	-44.0	174.9	0.00	0.00	0.00
2,000.0	8.00	194.46	1,987.1	-184.3	-47.5	188.7	0.00	0.00	0.00
2,100.0	8.00	194.46	2,086.1	-197.8	-51.0	202.5	0.00	0.00	0.00
2,200.0	8.00	194.46	2,185.2	-211.3	-54.5	216.3	0.00	0.00	0.00
2,300.0	8.00	194.46	2,284.2	-224.7	-57.9	230.1	0.00	0.00	0.00
2,400.0	8.00	194.46	2,383.2	-238.2	-61.4	243.9	0.00	0.00	0.00
2,500.0	8.00	194.46	2,482.2	-251.7	-64.9	257.7	0.00	0.00	0.00
2,600.0	8.00	194.46	2,581.3	-265.2	-68.4	271.5	0.00	0.00	0.00
2,700.0	8.00	194.46	2,680.3	-278.7	-71.8	285.3	0.00	0.00	0.00
2,800.0	8.00	194.46	2,779.3	-292.2	-75.3	299.1	0.00	0.00	0.00
2,900.0	8.00	194.46	2,878.4	-305.6	-78.8	312.9	0.00	0.00	0.00
3,000.0	8.00	194.46	2,977.4	-319.1	-82.3	326.7	0.00	0.00	0.00
3,100.0	8.00	194.46	3,076.4	-332.6	-85.8	340.5	0.00	0.00	0.00
3,200.0	8.00	194.46	3,175.4	-346.1	-89.2	354.3	0.00	0.00	0.00
3,300.0	8.00	194.46	3,274.5	-359.6	-92.7	368.1	0.00	0.00	0.00
Wasatch									
3,344.0	8.00	194.46	3,318.0	-365.5	-94.2	374.2	0.00	0.00	0.00
3,400.0	8.00	194.46	3,373.5	-373.1	-96.2	381.9	0.00	0.00	0.00
3,500.0	8.00	194.46	3,472.5	-386.6	-99.7	395.7	0.00	0.00	0.00
3,600.0	8.00	194.46	3,571.5	-400.0	-103.1	409.5	0.00	0.00	0.00
3,700.0	8.00	194.46	3,670.6	-413.5	-106.6	423.3	0.00	0.00	0.00
3,800.0	8.00	194.46	3,769.6	-427.0	-110.1	437.1	0.00	0.00	0.00
3,900.0	8.00	194.46	3,868.6	-440.5	-113.6	450.9	0.00	0.00	0.00
4,000.0	8.00	194.46	3,967.6	-454.0	-117.0	464.7	0.00	0.00	0.00
4,100.0	8.00	194.46	4,066.7	-467.5	-120.5	478.5	0.00	0.00	0.00
4,200.0	8.00	194.46	4,165.7	-480.9	-124.0	492.3	0.00	0.00	0.00
4,300.0	8.00	194.46	4,264.7	-494.4	-127.5	506.1	0.00	0.00	0.00
4,400.0	8.00	194.46	4,363.7	-507.9	-130.9	519.9	0.00	0.00	0.00
4,500.0	8.00	194.46	4,462.8	-521.4	-134.4	533.7	0.00	0.00	0.00
Drop 3° /100'									
4,538.7	8.00	194.46	4,501.1	-526.6	-135.8	539.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 15B-23 496 - Slot 15B-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 15B-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	6.16	194.46	4,561.9	-533.9	-137.6	546.6	3.00	-3.00	0.00
4,700.0	3.16	194.46	4,661.6	-541.8	-139.7	554.6	3.00	-3.00	0.00
EOD @ Vertical									
4,805.5	0.00	0.00	4,767.0	-544.6	-140.4	557.5	3.00	-3.00	0.00
4,900.0	0.00	0.00	4,861.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,961.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,061.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,161.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,261.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,361.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,461.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,561.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,661.5	-544.6	-140.4	557.5	0.00	0.00	0.00
Wasatch G									
5,756.5	0.00	0.00	5,718.0	-544.6	-140.4	557.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,761.5	-544.6	-140.4	557.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,861.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,961.5	-544.6	-140.4	557.5	0.00	0.00	0.00
Fort Union									
6,056.5	0.00	0.00	6,018.0	-544.6	-140.4	557.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,061.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,161.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,261.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,361.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,461.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,561.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,661.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,761.5	-544.6	-140.4	557.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,861.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,961.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,061.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,161.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,261.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,361.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,461.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,561.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,661.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,761.5	-544.6	-140.4	557.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,861.5	-544.6	-140.4	557.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,961.5	-544.6	-140.4	557.5	0.00	0.00	0.00
Build 1.5° / 100' - Ohio Creek - TOG									
8,070.5	0.00	0.00	8,032.0	-544.6	-140.4	557.5	0.00	0.00	0.00
8,100.0	0.44	250.00	8,061.5	-544.7	-140.5	557.6	1.50	1.50	0.00
EOB @ 1.37° Inc. / 250.00° Azm									
8,161.8	1.37	250.00	8,123.3	-545.0	-141.4	558.2	1.50	1.50	0.00
8,200.0	1.37	250.00	8,161.5	-545.3	-142.3	558.8	0.00	0.00	0.00
8,300.0	1.37	250.00	8,261.5	-546.1	-144.5	560.4	0.00	0.00	0.00
8,400.0	1.37	250.00	8,361.4	-546.9	-146.8	562.0	0.00	0.00	0.00
William Fork									
8,417.6	1.37	250.00	8,379.0	-547.1	-147.2	562.3	0.00	0.00	0.00
8,500.0	1.37	250.00	8,461.4	-547.8	-149.0	563.6	0.00	0.00	0.00
8,600.0	1.37	250.00	8,561.4	-548.6	-151.3	565.2	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 15B-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)
8,700.0	1.37	250.00	8,661.4	-549.4	-153.5	566.8	0.00	0.00	0.00
8,800.0	1.37	250.00	8,761.3	-550.2	-155.8	568.4	0.00	0.00	0.00
8,900.0	1.37	250.00	8,861.3	-551.0	-158.0	570.0	0.00	0.00	0.00
9,000.0	1.37	250.00	8,961.3	-551.8	-160.3	571.6	0.00	0.00	0.00
9,100.0	1.37	250.00	9,061.2	-552.7	-162.5	573.2	0.00	0.00	0.00
9,200.0	1.37	250.00	9,161.2	-553.5	-164.7	574.8	0.00	0.00	0.00
9,300.0	1.37	250.00	9,261.2	-554.3	-167.0	576.5	0.00	0.00	0.00
9,400.0	1.37	250.00	9,361.2	-555.1	-169.2	578.1	0.00	0.00	0.00
9,500.0	1.37	250.00	9,461.1	-555.9	-171.5	579.7	0.00	0.00	0.00
9,600.0	1.37	250.00	9,561.1	-556.7	-173.7	581.3	0.00	0.00	0.00
9,700.0	1.37	250.00	9,661.1	-557.6	-176.0	582.9	0.00	0.00	0.00
9,800.0	1.37	250.00	9,761.0	-558.4	-178.2	584.5	0.00	0.00	0.00
9,900.0	1.37	250.00	9,861.0	-559.2	-180.5	586.1	0.00	0.00	0.00
10,000.0	1.37	250.00	9,961.0	-560.0	-182.7	587.7	0.00	0.00	0.00
10,100.0	1.37	250.00	10,061.0	-560.8	-185.0	589.3	0.00	0.00	0.00
10,200.0	1.37	250.00	10,160.9	-561.7	-187.2	590.9	0.00	0.00	0.00
10,300.0	1.37	250.00	10,260.9	-562.5	-189.4	592.5	0.00	0.00	0.00
10,400.0	1.37	250.00	10,360.9	-563.3	-191.7	594.1	0.00	0.00	0.00
10,500.0	1.37	250.00	10,460.8	-564.1	-193.9	595.7	0.00	0.00	0.00
10,600.0	1.37	250.00	10,560.8	-564.9	-196.2	597.3	0.00	0.00	0.00
10,700.0	1.37	250.00	10,660.8	-565.7	-198.4	598.9	0.00	0.00	0.00
10,800.0	1.37	250.00	10,760.8	-566.6	-200.7	600.5	0.00	0.00	0.00
10,900.0	1.37	250.00	10,860.7	-567.4	-202.9	602.1	0.00	0.00	0.00
11,000.0	1.37	250.00	10,960.7	-568.2	-205.2	603.7	0.00	0.00	0.00
11,100.0	1.37	250.00	11,060.7	-569.0	-207.4	605.3	0.00	0.00	0.00
11,200.0	1.37	250.00	11,160.6	-569.8	-209.7	606.9	0.00	0.00	0.00
11,300.0	1.37	250.00	11,260.6	-570.6	-211.9	608.5	0.00	0.00	0.00
Cameo									
11,300.4	1.37	250.00	11,261.0	-570.6	-211.9	608.5	0.00	0.00	0.00
11,400.0	1.37	250.00	11,360.6	-571.5	-214.1	610.1	0.00	0.00	0.00
11,500.0	1.37	250.00	11,460.6	-572.3	-216.4	611.7	0.00	0.00	0.00
11,600.0	1.37	250.00	11,560.5	-573.1	-218.6	613.3	0.00	0.00	0.00
11,700.0	1.37	250.00	11,660.5	-573.9	-220.9	614.9	0.00	0.00	0.00
11,800.0	1.37	250.00	11,760.5	-574.7	-223.1	616.5	0.00	0.00	0.00
Rollins									
11,800.5	1.37	250.00	11,761.0	-574.7	-223.1	616.5	0.00	0.00	0.00
11,900.0	1.37	250.00	11,860.4	-575.5	-225.4	618.1	0.00	0.00	0.00
12,000.0	1.37	250.00	11,960.4	-576.4	-227.6	619.7	0.00	0.00	0.00
12,100.0	1.37	250.00	12,060.4	-577.2	-229.9	621.3	0.00	0.00	0.00
12,200.0	1.37	250.00	12,160.4	-578.0	-232.1	622.9	0.00	0.00	0.00
TD @ 12300.7' MD / 12261.0' TVD									
12,300.7	1.37	250.00	12,261.0	-578.8	-234.4	624.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 15B-23 496 - Slot 15B-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 15B-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 - 15B-23 - plan hits target center - Point	0.00	0.00	8,032.0	-544.6	-140.4	14,423,270.48	2,444,937.13	39.682532	-108.140730
PBHL - 15B-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,261.0	-578.8	-234.4	14,423,233.30	2,444,844.30	39.682438	-108.141064

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,344.0	3,318.0	Wasatch			
5,756.5	5,718.0	Wasatch G			
6,056.5	6,018.0	Fort Union			
8,070.5	8,032.0	Ohio Creek			
8,070.5	8,032.0	TOG			
8,417.6	8,379.0	William Fork			
11,300.4	11,261.0	Cameo			
11,800.5	11,761.0	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'
766.8	765.9	-18.0	-4.6	EOB @ 8.00° Inc. / 194.46° Azm
4,538.7	4,501.1	-526.6	-135.8	Drop 3° / 100'
4,805.5	4,767.0	-544.6	-140.4	EOD @ Vertical
8,070.5	8,032.0	-544.6	-140.4	Build 1.5° / 100'
8,161.8	8,123.3	-545.0	-141.4	EOB @ 1.37° Inc. / 250.00° Azm
12,300.7	12,261.0	-578.8	-234.4	TD @ 12300.7' MD / 12261.0' TVD