

Project: Garfield County, CO
 Site: BJU M23A 496 Pad
 Well: BJU M23A FED 13A-23 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.684432
 Longitude: -108.140089
 Ground Level: 8104.0
 RKB @ 8134.0usft (30')

PROJECT DETAILS: Garfield County, US

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 - 13A-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	Dleg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
415.0	0.00	0.00	415.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1056.0	19.23	341.24	1044.1	100.9	-34.3	3.00	341.24	106.5	EOB @ 19.23° Inc. / 341.24° Azm
7937.9	19.23	341.24	7541.9	2247.2	-763.3	0.00	0.00	2371.4	Drop 3° / 100'
8579.0	0.00	0.00	8171.0	2348.1	-797.6	3.00	180.00	2477.9	EOD @ Vertical / Build 1.5° / 100'
8669.7	1.36	250.00	8261.7	2347.7	-798.6	1.50	250.00	2477.9	EOB @ 1.36° Inc. / 250.00° Azm
12835.1	1.36	250.00	12426.0	2313.9	-891.6	0.00	0.00	2479.7	TD @ 12835.1' MD / 12426.0' TVD

DESIGN TARGET DETAILS

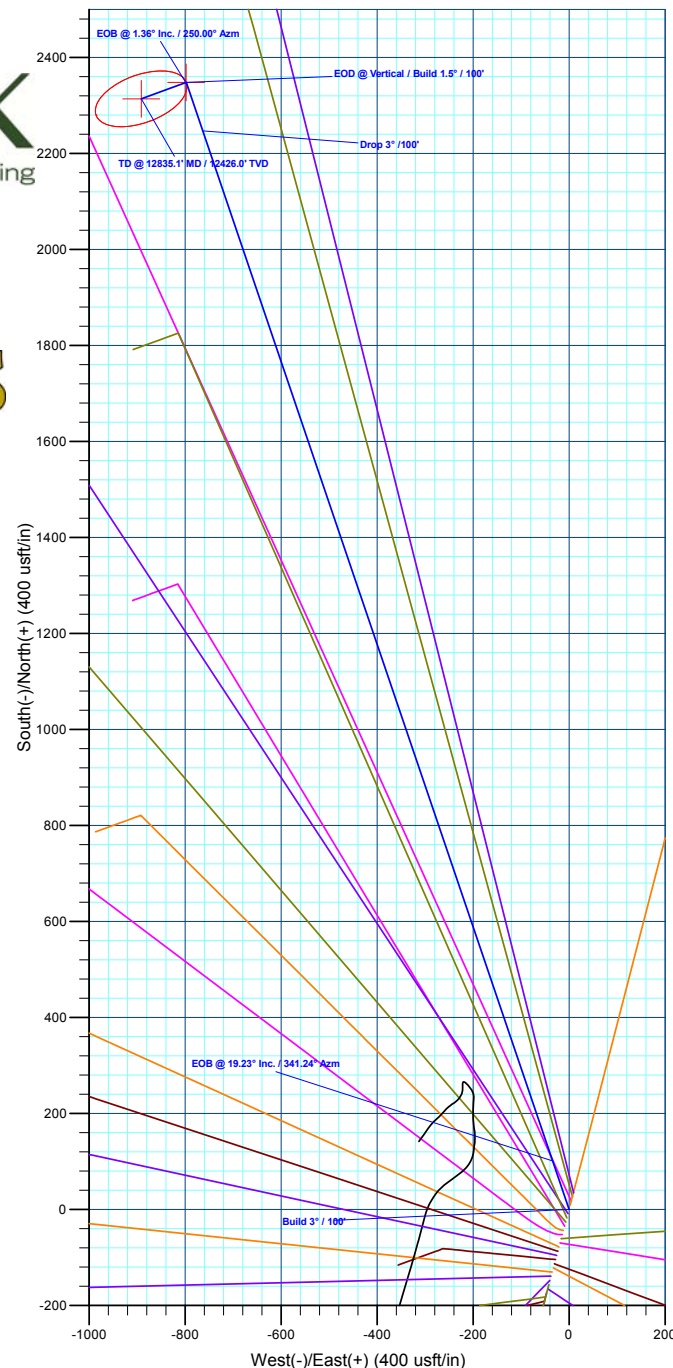
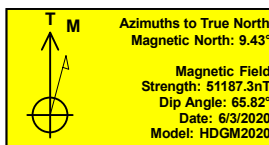
Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
OHCR - 13A-23	8171.0	2348.1	-797.6	14426289.68	2444223.33	39.690876	-108.142922
PBHL - 13A-23	12426.0	2313.9	-891.6	14426252.50	2444130.50	39.690782	-108.143256

WELL DETAILS: BJU M23A FED 13A-23 496

+N/-S	+E/-W	Ground Level : 8104.0	North	East	Latitude	Longitude
0.0	0.0		14423968.20	2445095.40	39.684432	-108.140089
						13A-23

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3522.0	3680.4	Wasatch
5922.0	6222.2	Wasatch G
6222.0	6540.0	Fort Union
8171.0	8579.0	Ohio Creek
8616.0	9024.1	Williams Fork
11426.0	11834.9	Cameo
11926.0	12335.0	Rollins

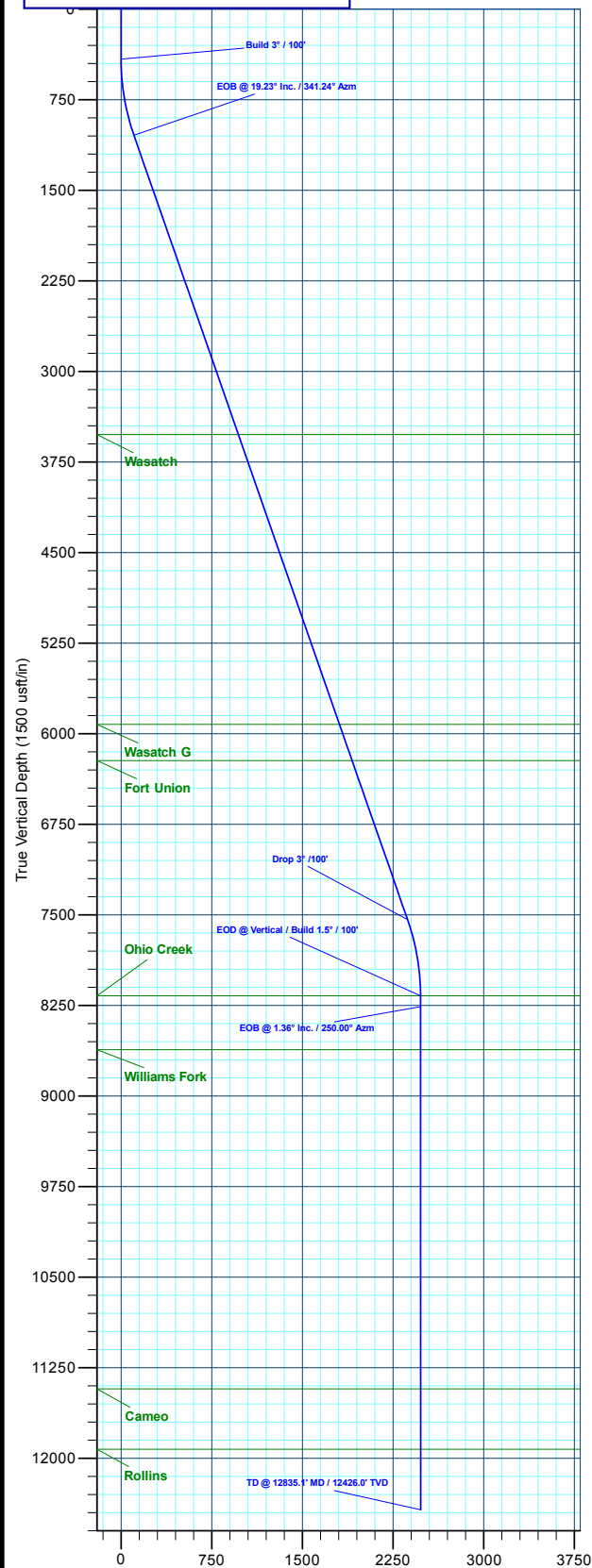


Plan: Design #3 (BJU M23A FED 13A-23 496/Wellbore #1)

Created By: Will Jircik

Date: 22:41, January 04 2023

Vertical Section at 338.93° (1500 usft/in)





Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 13A-23 496 - Slot 13A-23

Wellbore #1

Plan: Design #3

KLX Well Planning Report

04 January, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13A-23 496 - Slot 13A-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 13A-23 496	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
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 13A-23 496 - Slot 13A-23		
Well Position	+N/-S	-59.8 usft	Northing: 14,423,968.20 usft
	+E/-W	-16.1 usft	Easting: 2,445,095.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.684432
			Longitude: -108.140089
			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	338.93	

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	
415.0	0.00	0.00	415.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,056.0	19.23	341.24	1,044.1	100.9	-34.3	3.00	3.00	0.00	341.24	
7,937.9	19.23	341.24	7,541.9	2,247.2	-763.3	0.00	0.00	0.00	0.00	
8,579.0	0.00	0.00	8,171.0	2,348.1	-797.6	3.00	-3.00	0.00	180.00	OHCR - 13A-23
8,669.7	1.36	250.00	8,261.7	2,347.7	-798.6	1.50	1.50	-121.25	250.00	
12,835.1	1.36	250.00	12,426.0	2,313.9	-891.6	0.00	0.00	0.00	0.00	PBHL - 13A-23

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13A-23 496 - Slot 13A-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 13A-23 496	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'									
415.0	0.00	0.00	415.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	2.55	341.24	500.0	1.8	-0.6	1.9	3.00	3.00	0.00
600.0	5.55	341.24	599.7	8.5	-2.9	8.9	3.00	3.00	0.00
700.0	8.55	341.24	698.9	20.1	-6.8	21.2	3.00	3.00	0.00
800.0	11.55	341.24	797.4	36.6	-12.4	38.6	3.00	3.00	0.00
900.0	14.55	341.24	894.8	58.0	-19.7	61.2	3.00	3.00	0.00
1,000.0	17.55	341.24	990.9	84.2	-28.6	88.8	3.00	3.00	0.00
EOB @ 19.23° Inc. / 341.24° Azm									
1,056.0	19.23	341.24	1,044.1	100.9	-34.3	106.5	3.00	3.00	0.00
1,100.0	19.23	341.24	1,085.6	114.6	-38.9	121.0	0.00	0.00	0.00
1,200.0	19.23	341.24	1,180.0	145.8	-49.5	153.9	0.00	0.00	0.00
1,300.0	19.23	341.24	1,274.4	177.0	-60.1	186.8	0.00	0.00	0.00
1,400.0	19.23	341.24	1,368.8	208.2	-70.7	219.7	0.00	0.00	0.00
1,500.0	19.23	341.24	1,463.3	239.4	-81.3	252.6	0.00	0.00	0.00
1,600.0	19.23	341.24	1,557.7	270.6	-91.9	285.5	0.00	0.00	0.00
1,700.0	19.23	341.24	1,652.1	301.7	-102.5	318.4	0.00	0.00	0.00
1,800.0	19.23	341.24	1,746.5	332.9	-113.1	351.3	0.00	0.00	0.00
1,900.0	19.23	341.24	1,840.9	364.1	-123.7	384.2	0.00	0.00	0.00
2,000.0	19.23	341.24	1,935.4	395.3	-134.3	417.2	0.00	0.00	0.00
2,100.0	19.23	341.24	2,029.8	426.5	-144.9	450.1	0.00	0.00	0.00
2,200.0	19.23	341.24	2,124.2	457.7	-155.5	483.0	0.00	0.00	0.00
2,300.0	19.23	341.24	2,218.6	488.9	-166.1	515.9	0.00	0.00	0.00
2,400.0	19.23	341.24	2,313.0	520.1	-176.7	548.8	0.00	0.00	0.00
2,500.0	19.23	341.24	2,407.5	551.2	-187.2	581.7	0.00	0.00	0.00
2,600.0	19.23	341.24	2,501.9	582.4	-197.8	614.6	0.00	0.00	0.00
2,700.0	19.23	341.24	2,596.3	613.6	-208.4	647.5	0.00	0.00	0.00
2,800.0	19.23	341.24	2,690.7	644.8	-219.0	680.4	0.00	0.00	0.00
2,900.0	19.23	341.24	2,785.1	676.0	-229.6	713.4	0.00	0.00	0.00
3,000.0	19.23	341.24	2,879.6	707.2	-240.2	746.3	0.00	0.00	0.00
3,100.0	19.23	341.24	2,974.0	738.4	-250.8	779.2	0.00	0.00	0.00
3,200.0	19.23	341.24	3,068.4	769.6	-261.4	812.1	0.00	0.00	0.00
3,300.0	19.23	341.24	3,162.8	800.7	-272.0	845.0	0.00	0.00	0.00
3,400.0	19.23	341.24	3,257.2	831.9	-282.6	877.9	0.00	0.00	0.00
3,500.0	19.23	341.24	3,351.7	863.1	-293.2	910.8	0.00	0.00	0.00
3,600.0	19.23	341.24	3,446.1	894.3	-303.8	943.7	0.00	0.00	0.00
Wasatch									
3,680.4	19.23	341.24	3,522.0	919.4	-312.3	970.2	0.00	0.00	0.00
3,700.0	19.23	341.24	3,540.5	925.5	-314.4	976.6	0.00	0.00	0.00
3,800.0	19.23	341.24	3,634.9	956.7	-325.0	1,009.5	0.00	0.00	0.00
3,900.0	19.23	341.24	3,729.3	987.9	-335.6	1,042.5	0.00	0.00	0.00
4,000.0	19.23	341.24	3,823.8	1,019.1	-346.2	1,075.4	0.00	0.00	0.00
4,100.0	19.23	341.24	3,918.2	1,050.2	-356.7	1,108.3	0.00	0.00	0.00
4,200.0	19.23	341.24	4,012.6	1,081.4	-367.3	1,141.2	0.00	0.00	0.00
4,300.0	19.23	341.24	4,107.0	1,112.6	-377.9	1,174.1	0.00	0.00	0.00
4,400.0	19.23	341.24	4,201.4	1,143.8	-388.5	1,207.0	0.00	0.00	0.00
4,500.0	19.23	341.24	4,295.9	1,175.0	-399.1	1,239.9	0.00	0.00	0.00
4,600.0	19.23	341.24	4,390.3	1,206.2	-409.7	1,272.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13A-23 496 - Slot 13A-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 13A-23 496	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	19.23	341.24	4,484.7	1,237.4	-420.3	1,305.7	0.00	0.00	0.00
4,800.0	19.23	341.24	4,579.1	1,268.6	-430.9	1,338.7	0.00	0.00	0.00
4,900.0	19.23	341.24	4,673.5	1,299.7	-441.5	1,371.6	0.00	0.00	0.00
5,000.0	19.23	341.24	4,768.0	1,330.9	-452.1	1,404.5	0.00	0.00	0.00
5,100.0	19.23	341.24	4,862.4	1,362.1	-462.7	1,437.4	0.00	0.00	0.00
5,200.0	19.23	341.24	4,956.8	1,393.3	-473.3	1,470.3	0.00	0.00	0.00
5,300.0	19.23	341.24	5,051.2	1,424.5	-483.9	1,503.2	0.00	0.00	0.00
5,400.0	19.23	341.24	5,145.6	1,455.7	-494.5	1,536.1	0.00	0.00	0.00
5,500.0	19.23	341.24	5,240.1	1,486.9	-505.1	1,569.0	0.00	0.00	0.00
5,600.0	19.23	341.24	5,334.5	1,518.1	-515.7	1,601.9	0.00	0.00	0.00
5,700.0	19.23	341.24	5,428.9	1,549.2	-526.2	1,634.9	0.00	0.00	0.00
5,800.0	19.23	341.24	5,523.3	1,580.4	-536.8	1,667.8	0.00	0.00	0.00
5,900.0	19.23	341.24	5,617.7	1,611.6	-547.4	1,700.7	0.00	0.00	0.00
6,000.0	19.23	341.24	5,712.2	1,642.8	-558.0	1,733.6	0.00	0.00	0.00
6,100.0	19.23	341.24	5,806.6	1,674.0	-568.6	1,766.5	0.00	0.00	0.00
6,200.0	19.23	341.24	5,901.0	1,705.2	-579.2	1,799.4	0.00	0.00	0.00
Wasatch G									
6,222.2	19.23	341.24	5,922.0	1,712.1	-581.6	1,806.7	0.00	0.00	0.00
6,300.0	19.23	341.24	5,995.4	1,736.4	-589.8	1,832.3	0.00	0.00	0.00
6,400.0	19.23	341.24	6,089.8	1,767.6	-600.4	1,865.2	0.00	0.00	0.00
6,500.0	19.23	341.24	6,184.3	1,798.7	-611.0	1,898.1	0.00	0.00	0.00
Fort Union									
6,540.0	19.23	341.24	6,222.0	1,811.2	-615.2	1,911.3	0.00	0.00	0.00
6,600.0	19.23	341.24	6,278.7	1,829.9	-621.6	1,931.1	0.00	0.00	0.00
6,700.0	19.23	341.24	6,373.1	1,861.1	-632.2	1,964.0	0.00	0.00	0.00
6,800.0	19.23	341.24	6,467.5	1,892.3	-642.8	1,996.9	0.00	0.00	0.00
6,900.0	19.23	341.24	6,561.9	1,923.5	-653.4	2,029.8	0.00	0.00	0.00
7,000.0	19.23	341.24	6,656.4	1,954.7	-664.0	2,062.7	0.00	0.00	0.00
7,100.0	19.23	341.24	6,750.8	1,985.9	-674.6	2,095.6	0.00	0.00	0.00
7,200.0	19.23	341.24	6,845.2	2,017.1	-685.2	2,128.5	0.00	0.00	0.00
7,300.0	19.23	341.24	6,939.6	2,048.2	-695.7	2,161.4	0.00	0.00	0.00
7,400.0	19.23	341.24	7,034.0	2,079.4	-706.3	2,194.3	0.00	0.00	0.00
7,500.0	19.23	341.24	7,128.5	2,110.6	-716.9	2,227.2	0.00	0.00	0.00
7,600.0	19.23	341.24	7,222.9	2,141.8	-727.5	2,260.2	0.00	0.00	0.00
7,700.0	19.23	341.24	7,317.3	2,173.0	-738.1	2,293.1	0.00	0.00	0.00
7,800.0	19.23	341.24	7,411.7	2,204.2	-748.7	2,326.0	0.00	0.00	0.00
7,900.0	19.23	341.24	7,506.1	2,235.4	-759.3	2,358.9	0.00	0.00	0.00
Drop 3° /100'									
7,937.9	19.23	341.24	7,541.9	2,247.2	-763.3	2,371.4	0.00	0.00	0.00
8,000.0	17.37	341.24	7,600.9	2,265.7	-769.6	2,390.8	3.00	-3.00	0.00
8,100.0	14.37	341.24	7,697.1	2,291.5	-778.4	2,418.2	3.00	-3.00	0.00
8,200.0	11.37	341.24	7,794.5	2,312.6	-785.6	2,440.4	3.00	-3.00	0.00
8,300.0	8.37	341.24	7,893.0	2,328.9	-791.1	2,457.5	3.00	-3.00	0.00
8,400.0	5.37	341.24	7,992.3	2,340.2	-794.9	2,469.5	3.00	-3.00	0.00
8,500.0	2.37	341.24	8,092.1	2,346.6	-797.1	2,476.2	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,579.0	0.00	0.00	8,171.0	2,348.1	-797.6	2,477.9	3.00	-3.00	0.00
8,600.0	0.32	250.00	8,192.0	2,348.1	-797.7	2,477.9	1.50	1.50	0.00
EOB @ 1.36° Inc. / 250.00° Azm									
8,669.7	1.36	250.00	8,261.7	2,347.7	-798.6	2,477.9	1.50	1.50	0.00
8,700.0	1.36	250.00	8,292.0	2,347.5	-799.3	2,477.9	0.00	0.00	0.00
8,800.0	1.36	250.00	8,392.0	2,346.7	-801.5	2,477.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13A-23 496 - Slot 13A-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 13A-23 496	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)
8,900.0	1.36	250.00	8,492.0	2,345.9	-803.8	2,478.0	0.00	0.00	0.00
9,000.0	1.36	250.00	8,591.9	2,345.1	-806.0	2,478.0	0.00	0.00	0.00
Williams Fork									
9,024.1	1.36	250.00	8,616.0	2,344.9	-806.5	2,478.0	0.00	0.00	0.00
9,100.0	1.36	250.00	8,691.9	2,344.2	-808.2	2,478.1	0.00	0.00	0.00
9,200.0	1.36	250.00	8,791.9	2,343.4	-810.5	2,478.1	0.00	0.00	0.00
9,300.0	1.36	250.00	8,891.9	2,342.6	-812.7	2,478.2	0.00	0.00	0.00
9,400.0	1.36	250.00	8,991.8	2,341.8	-814.9	2,478.2	0.00	0.00	0.00
9,500.0	1.36	250.00	9,091.8	2,341.0	-817.1	2,478.2	0.00	0.00	0.00
9,600.0	1.36	250.00	9,191.8	2,340.2	-819.4	2,478.3	0.00	0.00	0.00
9,700.0	1.36	250.00	9,291.7	2,339.4	-821.6	2,478.3	0.00	0.00	0.00
9,800.0	1.36	250.00	9,391.7	2,338.6	-823.8	2,478.4	0.00	0.00	0.00
9,900.0	1.36	250.00	9,491.7	2,337.7	-826.1	2,478.4	0.00	0.00	0.00
10,000.0	1.36	250.00	9,591.7	2,336.9	-828.3	2,478.5	0.00	0.00	0.00
10,100.0	1.36	250.00	9,691.6	2,336.1	-830.5	2,478.5	0.00	0.00	0.00
10,200.0	1.36	250.00	9,791.6	2,335.3	-832.8	2,478.6	0.00	0.00	0.00
10,300.0	1.36	250.00	9,891.6	2,334.5	-835.0	2,478.6	0.00	0.00	0.00
10,400.0	1.36	250.00	9,991.5	2,333.7	-837.2	2,478.6	0.00	0.00	0.00
10,500.0	1.36	250.00	10,091.5	2,332.9	-839.5	2,478.7	0.00	0.00	0.00
10,600.0	1.36	250.00	10,191.5	2,332.1	-841.7	2,478.7	0.00	0.00	0.00
10,700.0	1.36	250.00	10,291.5	2,331.2	-843.9	2,478.8	0.00	0.00	0.00
10,800.0	1.36	250.00	10,391.4	2,330.4	-846.2	2,478.8	0.00	0.00	0.00
10,900.0	1.36	250.00	10,491.4	2,329.6	-848.4	2,478.9	0.00	0.00	0.00
11,000.0	1.36	250.00	10,591.4	2,328.8	-850.6	2,478.9	0.00	0.00	0.00
11,100.0	1.36	250.00	10,691.4	2,328.0	-852.9	2,479.0	0.00	0.00	0.00
11,200.0	1.36	250.00	10,791.3	2,327.2	-855.1	2,479.0	0.00	0.00	0.00
11,300.0	1.36	250.00	10,891.3	2,326.4	-857.3	2,479.0	0.00	0.00	0.00
11,400.0	1.36	250.00	10,991.3	2,325.6	-859.5	2,479.1	0.00	0.00	0.00
11,500.0	1.36	250.00	11,091.2	2,324.7	-861.8	2,479.1	0.00	0.00	0.00
11,600.0	1.36	250.00	11,191.2	2,323.9	-864.0	2,479.2	0.00	0.00	0.00
11,700.0	1.36	250.00	11,291.2	2,323.1	-866.2	2,479.2	0.00	0.00	0.00
11,800.0	1.36	250.00	11,391.2	2,322.3	-868.5	2,479.3	0.00	0.00	0.00
Cameo									
11,834.9	1.36	250.00	11,426.0	2,322.0	-869.3	2,479.3	0.00	0.00	0.00
11,900.0	1.36	250.00	11,491.1	2,321.5	-870.7	2,479.3	0.00	0.00	0.00
12,000.0	1.36	250.00	11,591.1	2,320.7	-872.9	2,479.4	0.00	0.00	0.00
12,100.0	1.36	250.00	11,691.1	2,319.9	-875.2	2,479.4	0.00	0.00	0.00
12,200.0	1.36	250.00	11,791.0	2,319.1	-877.4	2,479.4	0.00	0.00	0.00
12,300.0	1.36	250.00	11,891.0	2,318.3	-879.6	2,479.5	0.00	0.00	0.00
Rollins									
12,335.0	1.36	250.00	11,926.0	2,318.0	-880.4	2,479.5	0.00	0.00	0.00
12,400.0	1.36	250.00	11,991.0	2,317.4	-881.9	2,479.5	0.00	0.00	0.00
12,500.0	1.36	250.00	12,091.0	2,316.6	-884.1	2,479.6	0.00	0.00	0.00
12,600.0	1.36	250.00	12,190.9	2,315.8	-886.3	2,479.6	0.00	0.00	0.00
12,700.0	1.36	250.00	12,290.9	2,315.0	-888.6	2,479.7	0.00	0.00	0.00
12,800.0	1.36	250.00	12,390.9	2,314.2	-890.8	2,479.7	0.00	0.00	0.00
TD @ 12835.1' MD / 12426.0' TVD									
12,835.1	1.36	250.00	12,426.0	2,313.9	-891.6	2,479.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 13A-23 496 - Slot 13A-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 13A-23 496	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 - 13A-23 - plan hits target center - Point	0.00	0.00	8,171.0	2,348.1	-797.6	14,426,289.68	2,444,223.33	39.690876	-108.142923
PBHL - 13A-23 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,426.0	2,313.9	-891.6	14,426,252.50	2,444,130.50	39.690782	-108.143256

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,680.4	3,522.0	Wasatch			
6,222.2	5,922.0	Wasatch G			
6,540.0	6,222.0	Fort Union			
8,579.0	8,171.0	Ohio Creek			
9,024.1	8,616.0	Williams Fork			
11,834.9	11,426.0	Cameo			
12,335.0	11,926.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
415.0	415.0	0.0	0.0	Build 3° / 100'
1,056.0	1,044.1	100.9	-34.3	EOB @ 19.23° Inc. / 341.24° Azm
7,937.9	7,541.9	2,247.2	-763.3	Drop 3° / 100'
8,579.0	8,171.0	2,348.1	-797.6	EOD @ Vertical / Build 1.5° / 100'
8,669.7	8,261.7	2,347.7	-798.6	EOB @ 1.36° Inc. / 250.00° Azm
12,835.1	12,426.0	2,313.9	-891.6	TD @ 12835.1' MD / 12426.0' TVD