

Project: Garfield County, CO
Site: BJU M23A 496 Pad
Well: BJU M23A FED 25C-22 496
Wellbore: Wellbore #1
Design: Design #3
Latitude: 39.684050
Longitude: -108.140223
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 - 25C-22(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8134.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3311.0	3435.6	Wasatch
5711.0	5949.0	Wasatch G
6011.0	6263.2	Fort Union
8002.0	8330.1	Ohio Creek
8392.0	8720.2	Williams Fork
11171.0	11500.0	Cameo
11671.0	12000.2	Rollins

SECTION DETAILS

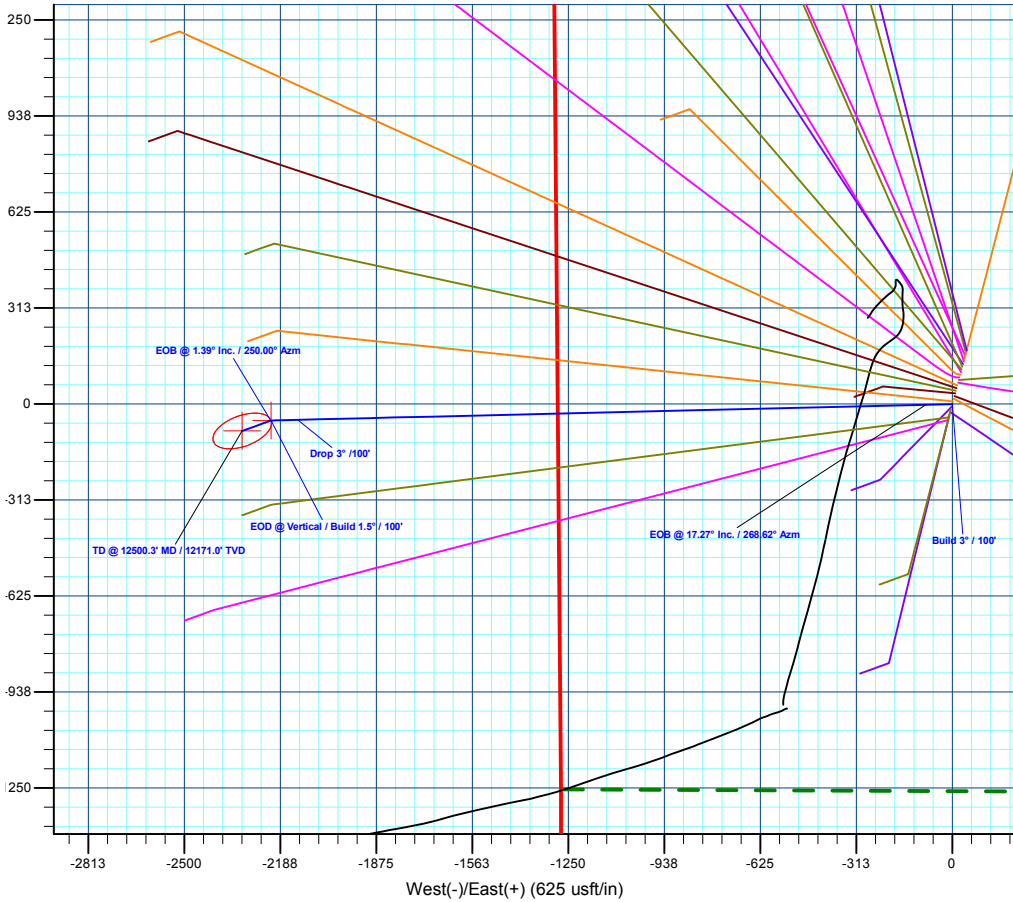
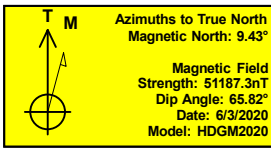
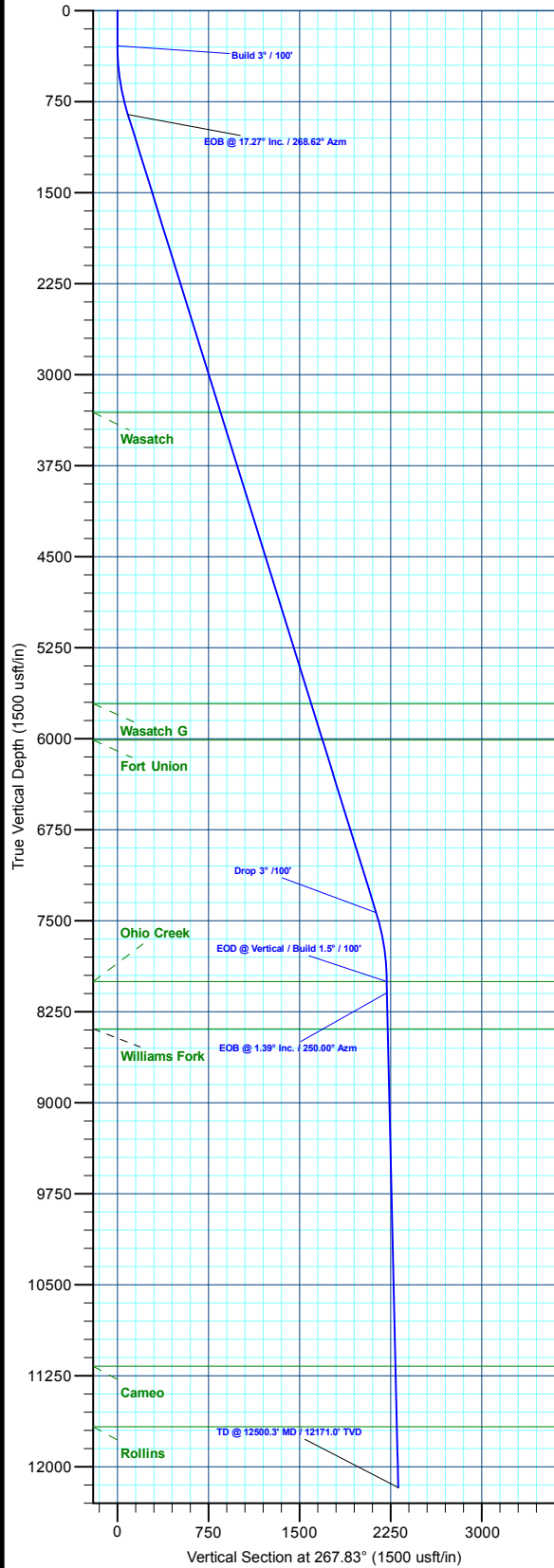
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
290.0	0.00	0.00	290.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
865.8	17.28	268.62	857.2	-2.1	-86.1	3.00	268.62	86.1	EOB @ 17.27° Inc. / 268.62° Azm
7754.3	17.28	268.62	7434.8	-51.2	-2131.2	0.00	0.00	2131.6	Drop 3° / 100'
8330.1	0.00	0.00	8002.0	-53.3	-2217.3	3.00	180.00	2217.7	EOD @ Vertical / Build 1.5° / 100'
8422.8	1.39	250.00	8094.6	-53.6	-2218.4	1.50	250.00	2218.8	EOB @ 1.39° Inc. / 250.00° Azm
12500.3	1.39	250.00	12171.0	-87.5	-2311.3	0.00	0.00	2312.9	TD @ 12500.3' MD / 12171.0° TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 25C-22	8002.0	-53.3	-2217.3	14423704.08	2442847.73	39.683903	-108.148098
PBHL - 25C-22	12171.0	-87.5	-2311.3	14423666.90	2442754.90	39.683810	-108.148432

WELL DETAILS: BJU M23A FED 25C-22 496

+N/-S	+E/-W	Ground Level : 8104.0	Northing	Easting	Latitude	Longitude	
0.0	0.0		14423828.00	2445062.20	39.684050	-108.140223	25C-22



Plan: Design #3 (BJU M23A FED 25C-22 496/Wellbore #1)

Created By: Will Jircik Date: 9:29, January 05 2023



Caerus Oil & Gas

Garfield County, CO

BJU M23A 496 Pad

BJU M23A FED 25C-22 496 - Slot 25C-22

Wellbore #1

Plan: Design #3

KLX Well Planning Report

05 January, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25C-22 496 - Slot 25C-22
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 25C-22 496	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 25C-22 496 - Slot 25C-22		
Well Position	+N/-S	-198.9 usft	Northing: 14,423,828.00 usft
	+E/-W	-53.8 usft	Easting: 2,445,062.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.684050
			Longitude: -108.140223
			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	267.83	

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		
290.0	0.00	0.00	290.0	0.0	0.0	0.00	0.00	0.00	0.00		
865.8	17.28	268.62	857.2	-2.1	-86.1	3.00	3.00	0.00	268.62		
7,754.3	17.28	268.62	7,434.8	-51.2	-2,131.2	0.00	0.00	0.00	0.00		
8,330.1	0.00	0.00	8,002.0	-53.3	-2,217.3	3.00	-3.00	0.00	180.00	OHCR - 25C-22	
8,422.8	1.39	250.00	8,094.6	-53.6	-2,218.4	1.50	1.50	-118.75	250.00		
12,500.3	1.39	250.00	12,171.0	-87.5	-2,311.3	0.00	0.00	0.00	0.00	PBHL - 25C-22	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25C-22 496 - Slot 25C-22
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 25C-22 496	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
Build 3° / 100'									
290.0	0.00	0.00	290.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.30	268.62	300.0	0.0	0.0	0.0	3.00	3.00	0.00
400.0	3.30	268.62	399.9	-0.1	-3.2	3.2	3.00	3.00	0.00
500.0	6.30	268.62	499.6	-0.3	-11.5	11.5	3.00	3.00	0.00
600.0	9.30	268.62	598.6	-0.6	-25.1	25.1	3.00	3.00	0.00
700.0	12.30	268.62	696.9	-1.1	-43.8	43.8	3.00	3.00	0.00
800.0	15.30	268.62	794.0	-1.6	-67.7	67.7	3.00	3.00	0.00
EOB @ 17.27° Inc. / 268.62° Azm									
865.8	17.28	268.62	857.2	-2.1	-86.1	86.1	3.00	3.00	0.00
900.0	17.28	268.62	889.8	-2.3	-96.3	96.3	0.00	0.00	0.00
1,000.0	17.28	268.62	985.3	-3.0	-126.0	126.0	0.00	0.00	0.00
1,100.0	17.28	268.62	1,080.8	-3.7	-155.6	155.7	0.00	0.00	0.00
1,200.0	17.28	268.62	1,176.2	-4.5	-185.3	185.4	0.00	0.00	0.00
1,300.0	17.28	268.62	1,271.7	-5.2	-215.0	215.1	0.00	0.00	0.00
1,400.0	17.28	268.62	1,367.2	-5.9	-244.7	244.8	0.00	0.00	0.00
1,500.0	17.28	268.62	1,462.7	-6.6	-274.4	274.5	0.00	0.00	0.00
1,600.0	17.28	268.62	1,558.2	-7.3	-304.1	304.1	0.00	0.00	0.00
1,700.0	17.28	268.62	1,653.7	-8.0	-333.8	333.8	0.00	0.00	0.00
1,800.0	17.28	268.62	1,749.2	-8.7	-363.5	363.5	0.00	0.00	0.00
1,900.0	17.28	268.62	1,844.7	-9.4	-393.2	393.2	0.00	0.00	0.00
2,000.0	17.28	268.62	1,940.2	-10.2	-422.8	422.9	0.00	0.00	0.00
2,100.0	17.28	268.62	2,035.6	-10.9	-452.5	452.6	0.00	0.00	0.00
2,200.0	17.28	268.62	2,131.1	-11.6	-482.2	482.3	0.00	0.00	0.00
2,300.0	17.28	268.62	2,226.6	-12.3	-511.9	512.0	0.00	0.00	0.00
2,400.0	17.28	268.62	2,322.1	-13.0	-541.6	541.7	0.00	0.00	0.00
2,500.0	17.28	268.62	2,417.6	-13.7	-571.3	571.4	0.00	0.00	0.00
2,600.0	17.28	268.62	2,513.1	-14.4	-601.0	601.1	0.00	0.00	0.00
2,700.0	17.28	268.62	2,608.6	-15.1	-630.7	630.8	0.00	0.00	0.00
2,800.0	17.28	268.62	2,704.1	-15.9	-660.3	660.5	0.00	0.00	0.00
2,900.0	17.28	268.62	2,799.6	-16.6	-690.0	690.2	0.00	0.00	0.00
3,000.0	17.28	268.62	2,895.0	-17.3	-719.7	719.9	0.00	0.00	0.00
3,100.0	17.28	268.62	2,990.5	-18.0	-749.4	749.6	0.00	0.00	0.00
3,200.0	17.28	268.62	3,086.0	-18.7	-779.1	779.2	0.00	0.00	0.00
3,300.0	17.28	268.62	3,181.5	-19.4	-808.8	808.9	0.00	0.00	0.00
3,400.0	17.28	268.62	3,277.0	-20.1	-838.5	838.6	0.00	0.00	0.00
Wasatch									
3,435.6	17.28	268.62	3,311.0	-20.4	-849.0	849.2	0.00	0.00	0.00
3,500.0	17.28	268.62	3,372.5	-20.8	-868.2	868.3	0.00	0.00	0.00
3,600.0	17.28	268.62	3,468.0	-21.6	-897.8	898.0	0.00	0.00	0.00
3,700.0	17.28	268.62	3,563.5	-22.3	-927.5	927.7	0.00	0.00	0.00
3,800.0	17.28	268.62	3,659.0	-23.0	-957.2	957.4	0.00	0.00	0.00
3,900.0	17.28	268.62	3,754.4	-23.7	-986.9	987.1	0.00	0.00	0.00
4,000.0	17.28	268.62	3,849.9	-24.4	-1,016.6	1,016.8	0.00	0.00	0.00
4,100.0	17.28	268.62	3,945.4	-25.1	-1,046.3	1,046.5	0.00	0.00	0.00
4,200.0	17.28	268.62	4,040.9	-25.8	-1,076.0	1,076.2	0.00	0.00	0.00
4,300.0	17.28	268.62	4,136.4	-26.6	-1,105.7	1,105.9	0.00	0.00	0.00
4,400.0	17.28	268.62	4,231.9	-27.3	-1,135.3	1,135.6	0.00	0.00	0.00
4,500.0	17.28	268.62	4,327.4	-28.0	-1,165.0	1,165.3	0.00	0.00	0.00
4,600.0	17.28	268.62	4,422.9	-28.7	-1,194.7	1,195.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25C-22 496 - Slot 25C-22
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 25C-22 496	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	17.28	268.62	4,518.3	-29.4	-1,224.4	1,224.6	0.00	0.00	0.00
4,800.0	17.28	268.62	4,613.8	-30.1	-1,254.1	1,254.3	0.00	0.00	0.00
4,900.0	17.28	268.62	4,709.3	-30.8	-1,283.8	1,284.0	0.00	0.00	0.00
5,000.0	17.28	268.62	4,804.8	-31.5	-1,313.5	1,313.7	0.00	0.00	0.00
5,100.0	17.28	268.62	4,900.3	-32.3	-1,343.2	1,343.4	0.00	0.00	0.00
5,200.0	17.28	268.62	4,995.8	-33.0	-1,372.9	1,373.1	0.00	0.00	0.00
5,300.0	17.28	268.62	5,091.3	-33.7	-1,402.5	1,402.8	0.00	0.00	0.00
5,400.0	17.28	268.62	5,186.8	-34.4	-1,432.2	1,432.5	0.00	0.00	0.00
5,500.0	17.28	268.62	5,282.3	-35.1	-1,461.9	1,462.2	0.00	0.00	0.00
5,600.0	17.28	268.62	5,377.7	-35.8	-1,491.6	1,491.9	0.00	0.00	0.00
5,700.0	17.28	268.62	5,473.2	-36.5	-1,521.3	1,521.6	0.00	0.00	0.00
5,800.0	17.28	268.62	5,568.7	-37.2	-1,551.0	1,551.3	0.00	0.00	0.00
5,900.0	17.28	268.62	5,664.2	-38.0	-1,580.7	1,581.0	0.00	0.00	0.00
Wasatch G									
5,949.0	17.28	268.62	5,711.0	-38.3	-1,595.2	1,595.5	0.00	0.00	0.00
6,000.0	17.28	268.62	5,759.7	-38.7	-1,610.4	1,610.7	0.00	0.00	0.00
6,100.0	17.28	268.62	5,855.2	-39.4	-1,640.0	1,640.4	0.00	0.00	0.00
6,200.0	17.28	268.62	5,950.7	-40.1	-1,669.7	1,670.1	0.00	0.00	0.00
Fort Union									
6,263.2	17.28	268.62	6,011.0	-40.6	-1,688.5	1,688.8	0.00	0.00	0.00
6,300.0	17.28	268.62	6,046.2	-40.8	-1,699.4	1,699.7	0.00	0.00	0.00
6,400.0	17.28	268.62	6,141.7	-41.5	-1,729.1	1,729.4	0.00	0.00	0.00
6,500.0	17.28	268.62	6,237.1	-42.2	-1,758.8	1,759.1	0.00	0.00	0.00
6,600.0	17.28	268.62	6,332.6	-43.0	-1,788.5	1,788.8	0.00	0.00	0.00
6,700.0	17.28	268.62	6,428.1	-43.7	-1,818.2	1,818.5	0.00	0.00	0.00
6,800.0	17.28	268.62	6,523.6	-44.4	-1,847.9	1,848.2	0.00	0.00	0.00
6,900.0	17.28	268.62	6,619.1	-45.1	-1,877.5	1,877.9	0.00	0.00	0.00
7,000.0	17.28	268.62	6,714.6	-45.8	-1,907.2	1,907.6	0.00	0.00	0.00
7,100.0	17.28	268.62	6,810.1	-46.5	-1,936.9	1,937.3	0.00	0.00	0.00
7,200.0	17.28	268.62	6,905.6	-47.2	-1,966.6	1,967.0	0.00	0.00	0.00
7,300.0	17.28	268.62	7,001.1	-47.9	-1,996.3	1,996.7	0.00	0.00	0.00
7,400.0	17.28	268.62	7,096.5	-48.7	-2,026.0	2,026.4	0.00	0.00	0.00
7,500.0	17.28	268.62	7,192.0	-49.4	-2,055.7	2,056.1	0.00	0.00	0.00
7,600.0	17.28	268.62	7,287.5	-50.1	-2,085.4	2,085.8	0.00	0.00	0.00
7,700.0	17.28	268.62	7,383.0	-50.8	-2,115.1	2,115.5	0.00	0.00	0.00
Drop 3° /100'									
7,754.3	17.28	268.62	7,434.8	-51.2	-2,131.2	2,131.6	0.00	0.00	0.00
7,800.0	15.90	268.62	7,478.7	-51.5	-2,144.2	2,144.6	3.00	-3.00	0.00
7,900.0	12.90	268.62	7,575.5	-52.1	-2,169.1	2,169.5	3.00	-3.00	0.00
8,000.0	9.90	268.62	7,673.5	-52.6	-2,188.8	2,189.3	3.00	-3.00	0.00
8,100.0	6.90	268.62	7,772.4	-52.9	-2,203.5	2,203.9	3.00	-3.00	0.00
8,200.0	3.90	268.62	7,872.0	-53.1	-2,212.9	2,213.3	3.00	-3.00	0.00
8,300.0	0.90	268.62	7,971.9	-53.2	-2,217.1	2,217.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,330.1	0.00	0.00	8,002.0	-53.3	-2,217.3	2,217.7	3.00	-3.00	0.00
8,400.0	1.05	250.00	8,071.9	-53.5	-2,217.9	2,218.3	1.50	1.50	0.00
EOB @ 1.39° Inc. / 250.00° Azm									
8,422.8	1.39	250.00	8,094.6	-53.6	-2,218.4	2,218.8	1.50	1.50	0.00
8,500.0	1.39	250.00	8,171.8	-54.3	-2,220.1	2,220.6	0.00	0.00	0.00
8,600.0	1.39	250.00	8,271.8	-55.1	-2,222.4	2,222.9	0.00	0.00	0.00
8,700.0	1.39	250.00	8,371.8	-55.9	-2,224.7	2,225.2	0.00	0.00	0.00
Williams Fork									

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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 25C-22 496	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)
8,720.2	1.39	250.00	8,392.0	-56.1	-2,225.1	2,225.7	0.00	0.00	0.00
8,800.0	1.39	250.00	8,471.8	-56.8	-2,226.9	2,227.5	0.00	0.00	0.00
8,900.0	1.39	250.00	8,571.7	-57.6	-2,229.2	2,229.8	0.00	0.00	0.00
9,000.0	1.39	250.00	8,671.7	-58.4	-2,231.5	2,232.1	0.00	0.00	0.00
9,100.0	1.39	250.00	8,771.7	-59.3	-2,233.8	2,234.4	0.00	0.00	0.00
9,200.0	1.39	250.00	8,871.6	-60.1	-2,236.1	2,236.7	0.00	0.00	0.00
9,300.0	1.39	250.00	8,971.6	-60.9	-2,238.3	2,239.0	0.00	0.00	0.00
9,400.0	1.39	250.00	9,071.6	-61.7	-2,240.6	2,241.4	0.00	0.00	0.00
9,500.0	1.39	250.00	9,171.6	-62.6	-2,242.9	2,243.7	0.00	0.00	0.00
9,600.0	1.39	250.00	9,271.5	-63.4	-2,245.2	2,246.0	0.00	0.00	0.00
9,700.0	1.39	250.00	9,371.5	-64.2	-2,247.5	2,248.3	0.00	0.00	0.00
9,800.0	1.39	250.00	9,471.5	-65.1	-2,249.7	2,250.6	0.00	0.00	0.00
9,900.0	1.39	250.00	9,571.4	-65.9	-2,252.0	2,252.9	0.00	0.00	0.00
10,000.0	1.39	250.00	9,671.4	-66.7	-2,254.3	2,255.2	0.00	0.00	0.00
10,100.0	1.39	250.00	9,771.4	-67.5	-2,256.6	2,257.5	0.00	0.00	0.00
10,200.0	1.39	250.00	9,871.3	-68.4	-2,258.8	2,259.8	0.00	0.00	0.00
10,300.0	1.39	250.00	9,971.3	-69.2	-2,261.1	2,262.1	0.00	0.00	0.00
10,400.0	1.39	250.00	10,071.3	-70.0	-2,263.4	2,264.4	0.00	0.00	0.00
10,500.0	1.39	250.00	10,171.3	-70.9	-2,265.7	2,266.7	0.00	0.00	0.00
10,600.0	1.39	250.00	10,271.2	-71.7	-2,268.0	2,269.1	0.00	0.00	0.00
10,700.0	1.39	250.00	10,371.2	-72.5	-2,270.2	2,271.4	0.00	0.00	0.00
10,800.0	1.39	250.00	10,471.2	-73.4	-2,272.5	2,273.7	0.00	0.00	0.00
10,900.0	1.39	250.00	10,571.1	-74.2	-2,274.8	2,276.0	0.00	0.00	0.00
11,000.0	1.39	250.00	10,671.1	-75.0	-2,277.1	2,278.3	0.00	0.00	0.00
11,100.0	1.39	250.00	10,771.1	-75.8	-2,279.4	2,280.6	0.00	0.00	0.00
11,200.0	1.39	250.00	10,871.1	-76.7	-2,281.6	2,282.9	0.00	0.00	0.00
11,300.0	1.39	250.00	10,971.0	-77.5	-2,283.9	2,285.2	0.00	0.00	0.00
11,400.0	1.39	250.00	11,071.0	-78.3	-2,286.2	2,287.5	0.00	0.00	0.00
Cameo									
11,500.0	1.39	250.00	11,171.0	-79.2	-2,288.5	2,289.8	0.00	0.00	0.00
11,600.0	1.39	250.00	11,270.9	-80.0	-2,290.7	2,292.1	0.00	0.00	0.00
11,700.0	1.39	250.00	11,370.9	-80.8	-2,293.0	2,294.4	0.00	0.00	0.00
11,800.0	1.39	250.00	11,470.9	-81.6	-2,295.3	2,296.8	0.00	0.00	0.00
11,900.0	1.39	250.00	11,570.8	-82.5	-2,297.6	2,299.1	0.00	0.00	0.00
12,000.0	1.39	250.00	11,670.8	-83.3	-2,299.9	2,301.4	0.00	0.00	0.00
Rollins									
12,000.2	1.39	250.00	11,671.0	-83.3	-2,299.9	2,301.4	0.00	0.00	0.00
12,100.0	1.39	250.00	11,770.8	-84.1	-2,302.1	2,303.7	0.00	0.00	0.00
12,200.0	1.39	250.00	11,870.8	-85.0	-2,304.4	2,306.0	0.00	0.00	0.00
12,300.0	1.39	250.00	11,970.7	-85.8	-2,306.7	2,308.3	0.00	0.00	0.00
12,400.0	1.39	250.00	12,070.7	-86.6	-2,309.0	2,310.6	0.00	0.00	0.00
TD @ 12500.3' MD / 12171.0' TVD									
12,500.3	1.39	250.00	12,171.0	-87.5	-2,311.3	2,312.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BJU M23A FED 25C-22 496 - Slot 25C-22
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 25C-22 496	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 - 25C-22 - plan hits target center - Point	0.00	0.00	8,002.0	-53.3	-2,217.3	14,423,704.08	2,442,847.73	39.683904	-108.148098
PBHL - 25C-22 - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,171.0	-87.5	-2,311.3	14,423,666.90	2,442,754.90	39.683810	-108.148432

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,435.6	3,311.0	Wasatch			
5,949.0	5,711.0	Wasatch G			
6,263.2	6,011.0	Fort Union			
8,330.1	8,002.0	Ohio Creek			
8,720.2	8,392.0	Williams Fork			
11,500.0	11,171.0	Cameo			
12,000.2	11,671.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
290.0	290.0	0.0	0.0	Build 3° / 100'
865.8	857.2	-2.1	-86.1	EOB @ 17.27° Inc. / 268.62° Azm
7,754.3	7,434.8	-51.2	-2,131.2	Drop 3° / 100'
8,330.1	8,002.0	-53.3	-2,217.3	EOD @ Vertical / Build 1.5° / 100'
8,422.8	8,094.6	-53.6	-2,218.4	EOB @ 1.39° Inc. / 250.00° Azm
12,500.3	12,171.0	-87.5	-2,311.3	TD @ 12500.3' MD / 12171.0' TVD