

Project: Rio Blanco County, CO
Site: ELU O13 496 Pad
Well: ELU O13 FED 23B-13 496
Wellbore: Wellbore #1
Design: Design #4
Latitude: 39.698715
Longitude: -108.114634
Ground Level: 8118.0
RKB @ 8143.0usft (25')

PROJECT DETAILS: Rio Blanco County, CO

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1886
Zone: Zone 12N (114 W to 108 W)
System Datum: Mean Sea Level

REFERENCE INFORMATION

Vertical (TVD) Reference: RKB @ 8143.0usft (25')
Section (VS) Reference: Slot - 23B-13(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8143.0usft (25')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4066.0	4218.0	Wasatch
6466.0	6732.6	Wasatch G
6766.0	7047.0	Fort Union
8694.0	9048.7	Ohio Creek
9218.0	9572.8	Williams Fork
11805.0	12160.6	Cameo
12355.0	12710.7	Rollins

SECTION DETAILS

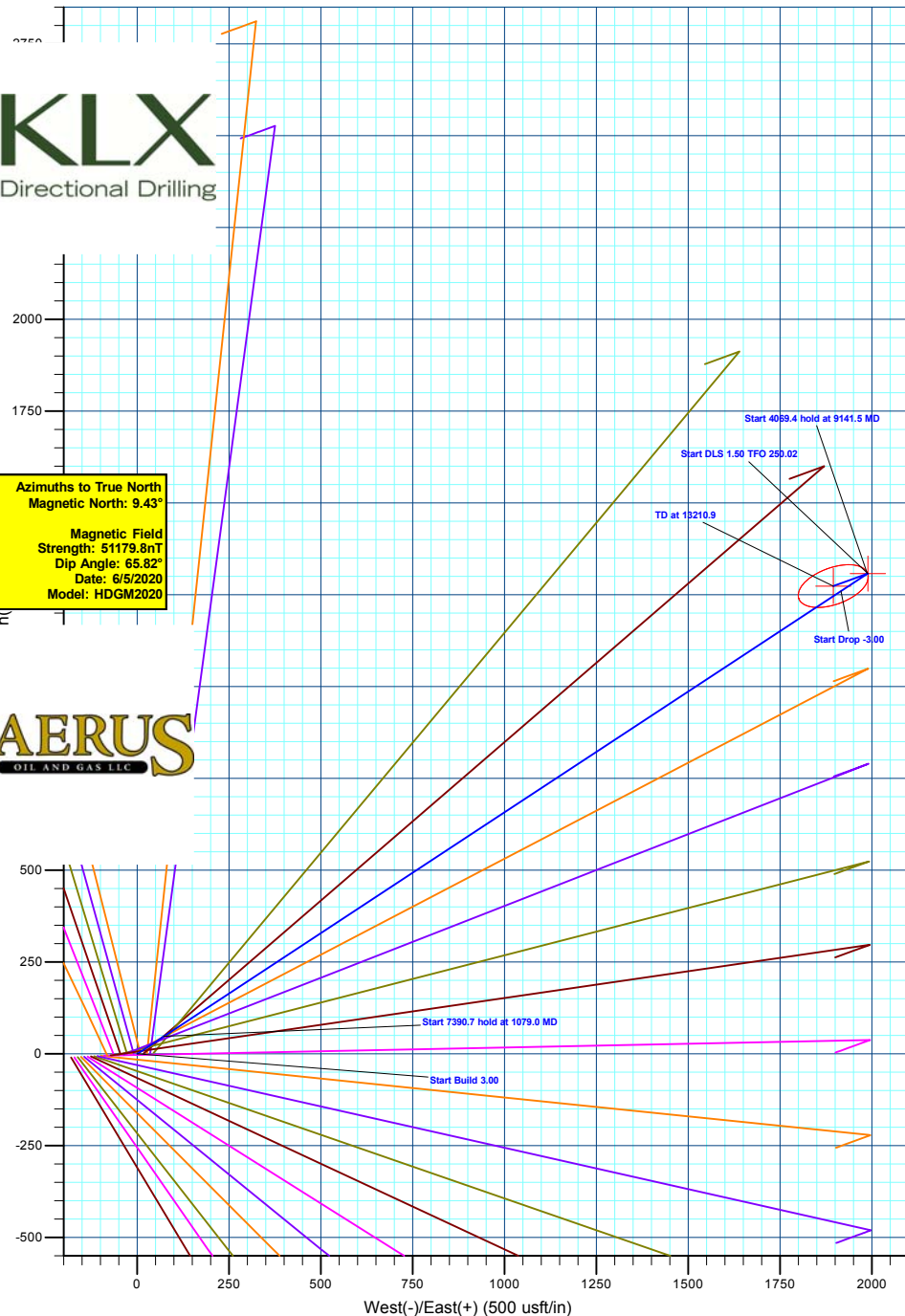
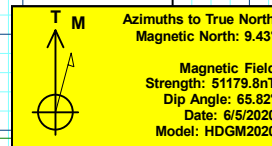
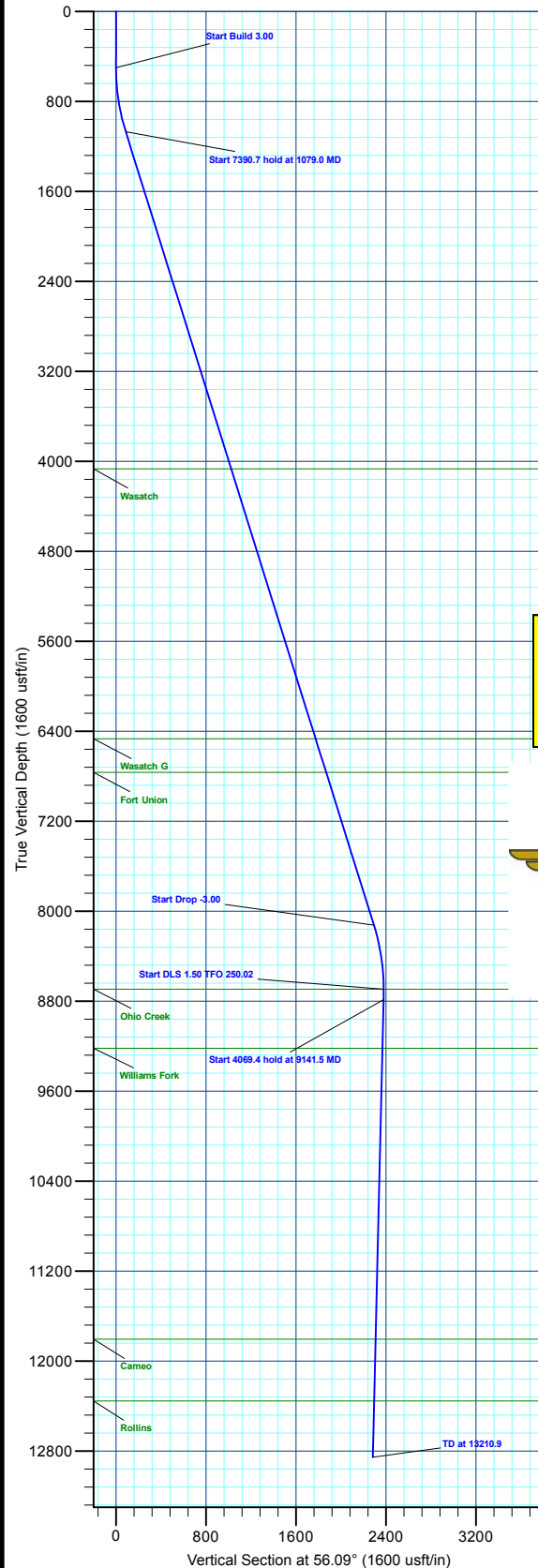
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1079.0	17.37	56.67	1070.2	47.9	72.8	3.00	56.67	87.1	Start 7390.7 hold at 1079.0 MD
8469.7	17.37	56.67	8123.8	1260.1	1916.3	0.00	0.00	2293.3	Start Drop -3.00
9048.7	0.00	0.00	8694.0	1308.0	1989.0	3.00	180.00	2380.4	Start DLS 1.50 TFO 250.02
9141.5	1.39	250.02	8786.8	1307.6	1988.0	1.50	250.02	2379.3	Start 4069.4 hold at 9141.5 MD
13210.9	1.39	250.02	12855.0	1273.8	1895.1	0.00	0.00	2283.4	TD at 13210.9

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
23B-13 - OHCR	8694.0	1308.0	1989.0	14430770.98	2454037.23	39.702304	-108.107567
23B-13 - PBHL	12855.0	1273.8	1895.1	14430733.80	2453944.40	39.702210	-108.107901

WELL DETAILS: ELU O13 FED 23B-13 496

+N/-S	+E/-W	Ground Level : 8118.0	Northing	Easting	Latitude	Longitude	
0.0	0.0		14429399.70	2452091.30	39.698715	-108.114634	23B-13



Plan: Design #4 (ELU O13 FED 23B-13 496/Wellbore #1)

Created By: Will Jircik Date: 12:33, February 28 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 23B-13 496 - Slot 23B-13

Wellbore #1

Plan: Design #4

KLX Well Planning Report

27 February, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 23B-13 496 - Slot 23B-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 23B-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

Project	Rio Blanco 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		ELU O13 496 Pad			
Site Position:		Northing:	14,429,398.00 usft	Latitude:	39.698712
From:	Map	Easting:	2,452,071.40 usft	Longitude:	-108.114705
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.84 °

Well	ELU O13 FED 23B-13 496 - Slot 23B-13					
Well Position	+N/-S	1.1 usft	Northing:	14,429,399.70 usft	Latitude:	39.698715
	+E/-W	19.9 usft	Easting:	2,452,091.30 usft	Longitude:	-108.114634
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,118.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	6/5/2020	9.43	65.82	51,179.80000000

Design	Design #4			
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	56.09

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	
1,079.0	17.37	56.67	1,070.2	47.9	72.8	3.00	3.00	0.00	56.67	
8,469.7	17.37	56.67	8,123.8	1,260.1	1,916.3	0.00	0.00	0.00	0.00	
9,048.7	0.00	0.00	8,694.0	1,308.0	1,989.0	3.00	-3.00	0.00	180.00	23B-13 - OHCR
9,141.5	1.39	250.02	8,786.8	1,307.6	1,988.0	1.50	1.50	-118.50	250.02	
13,210.9	1.39	250.02	12,855.0	1,273.8	1,895.1	0.00	0.00	0.00	0.00	23B-13 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 23B-13 496 - Slot 23B-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 23B-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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
Start Build 3.00									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	56.67	600.0	1.4	2.2	2.6	3.00	3.00	0.00
700.0	6.00	56.67	699.6	5.7	8.7	10.5	3.00	3.00	0.00
800.0	9.00	56.67	798.8	12.9	19.6	23.5	3.00	3.00	0.00
900.0	12.00	56.67	897.1	22.9	34.9	41.7	3.00	3.00	0.00
1,000.0	15.00	56.67	994.3	35.8	54.4	65.1	3.00	3.00	0.00
Start 7390.7 hold at 1079.0 MD									
1,079.0	17.37	56.67	1,070.2	47.9	72.8	87.1	3.00	3.00	0.00
1,100.0	17.37	56.67	1,090.2	51.3	78.0	93.4	0.00	0.00	0.00
1,200.0	17.37	56.67	1,185.7	67.7	103.0	123.2	0.00	0.00	0.00
1,300.0	17.37	56.67	1,281.1	84.1	127.9	153.1	0.00	0.00	0.00
1,400.0	17.37	56.67	1,376.5	100.5	152.8	182.9	0.00	0.00	0.00
1,500.0	17.37	56.67	1,472.0	116.9	177.8	212.8	0.00	0.00	0.00
1,600.0	17.37	56.67	1,567.4	133.3	202.7	242.6	0.00	0.00	0.00
1,700.0	17.37	56.67	1,662.9	149.7	227.7	272.5	0.00	0.00	0.00
1,800.0	17.37	56.67	1,758.3	166.1	252.6	302.3	0.00	0.00	0.00
1,900.0	17.37	56.67	1,853.7	182.5	277.6	332.2	0.00	0.00	0.00
2,000.0	17.37	56.67	1,949.2	198.9	302.5	362.0	0.00	0.00	0.00
2,100.0	17.37	56.67	2,044.6	215.3	327.4	391.9	0.00	0.00	0.00
2,200.0	17.37	56.67	2,140.1	231.7	352.4	421.7	0.00	0.00	0.00
2,300.0	17.37	56.67	2,235.5	248.1	377.3	451.6	0.00	0.00	0.00
2,400.0	17.37	56.67	2,330.9	264.5	402.3	481.4	0.00	0.00	0.00
2,500.0	17.37	56.67	2,426.4	280.9	427.2	511.3	0.00	0.00	0.00
2,600.0	17.37	56.67	2,521.8	297.3	452.2	541.1	0.00	0.00	0.00
2,700.0	17.37	56.67	2,617.3	313.7	477.1	571.0	0.00	0.00	0.00
2,800.0	17.37	56.67	2,712.7	330.1	502.1	600.8	0.00	0.00	0.00
2,900.0	17.37	56.67	2,808.1	346.5	527.0	630.7	0.00	0.00	0.00
3,000.0	17.37	56.67	2,903.6	362.9	551.9	660.5	0.00	0.00	0.00
3,100.0	17.37	56.67	2,999.0	379.3	576.9	690.4	0.00	0.00	0.00
3,200.0	17.37	56.67	3,094.5	395.7	601.8	720.2	0.00	0.00	0.00
3,300.0	17.37	56.67	3,189.9	412.1	626.8	750.1	0.00	0.00	0.00
3,400.0	17.37	56.67	3,285.3	428.6	651.7	780.0	0.00	0.00	0.00
3,500.0	17.37	56.67	3,380.8	445.0	676.7	809.8	0.00	0.00	0.00
3,600.0	17.37	56.67	3,476.2	461.4	701.6	839.7	0.00	0.00	0.00
3,700.0	17.37	56.67	3,571.7	477.8	726.5	869.5	0.00	0.00	0.00
3,800.0	17.37	56.67	3,667.1	494.2	751.5	899.4	0.00	0.00	0.00
3,900.0	17.37	56.67	3,762.5	510.6	776.4	929.2	0.00	0.00	0.00
4,000.0	17.37	56.67	3,858.0	527.0	801.4	959.1	0.00	0.00	0.00
4,100.0	17.37	56.67	3,953.4	543.4	826.3	988.9	0.00	0.00	0.00
4,200.0	17.37	56.67	4,048.9	559.8	851.3	1,018.8	0.00	0.00	0.00
Wasatch									
4,218.0	17.37	56.67	4,066.0	562.7	855.7	1,024.1	0.00	0.00	0.00
4,300.0	17.37	56.67	4,144.3	576.2	876.2	1,048.6	0.00	0.00	0.00
4,400.0	17.37	56.67	4,239.7	592.6	901.2	1,078.5	0.00	0.00	0.00
4,500.0	17.37	56.67	4,335.2	609.0	926.1	1,108.3	0.00	0.00	0.00
4,600.0	17.37	56.67	4,430.6	625.4	951.0	1,138.2	0.00	0.00	0.00
4,700.0	17.37	56.67	4,526.1	641.8	976.0	1,168.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 23B-13 496 - Slot 23B-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 23B-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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	17.37	56.67	4,621.5	658.2	1,000.9	1,197.9	0.00	0.00	0.00
4,900.0	17.37	56.67	4,716.9	674.6	1,025.9	1,227.7	0.00	0.00	0.00
5,000.0	17.37	56.67	4,812.4	691.0	1,050.8	1,257.6	0.00	0.00	0.00
5,100.0	17.37	56.67	4,907.8	707.4	1,075.8	1,287.4	0.00	0.00	0.00
5,200.0	17.37	56.67	5,003.3	723.8	1,100.7	1,317.3	0.00	0.00	0.00
5,300.0	17.37	56.67	5,098.7	740.2	1,125.6	1,347.1	0.00	0.00	0.00
5,400.0	17.37	56.67	5,194.1	756.6	1,150.6	1,377.0	0.00	0.00	0.00
5,500.0	17.37	56.67	5,289.6	773.0	1,175.5	1,406.8	0.00	0.00	0.00
5,600.0	17.37	56.67	5,385.0	789.4	1,200.5	1,436.7	0.00	0.00	0.00
5,700.0	17.37	56.67	5,480.4	805.8	1,225.4	1,466.5	0.00	0.00	0.00
5,800.0	17.37	56.67	5,575.9	822.2	1,250.4	1,496.4	0.00	0.00	0.00
5,900.0	17.37	56.67	5,671.3	838.6	1,275.3	1,526.2	0.00	0.00	0.00
6,000.0	17.37	56.67	5,766.8	855.0	1,300.2	1,556.1	0.00	0.00	0.00
6,100.0	17.37	56.67	5,862.2	871.4	1,325.2	1,586.0	0.00	0.00	0.00
6,200.0	17.37	56.67	5,957.6	887.8	1,350.1	1,615.8	0.00	0.00	0.00
6,300.0	17.37	56.67	6,053.1	904.2	1,375.1	1,645.7	0.00	0.00	0.00
6,400.0	17.37	56.67	6,148.5	920.6	1,400.0	1,675.5	0.00	0.00	0.00
6,500.0	17.37	56.67	6,244.0	937.0	1,425.0	1,705.4	0.00	0.00	0.00
6,600.0	17.37	56.67	6,339.4	953.4	1,449.9	1,735.2	0.00	0.00	0.00
6,700.0	17.37	56.67	6,434.8	969.8	1,474.9	1,765.1	0.00	0.00	0.00
Wasatch G									
6,732.6	17.37	56.67	6,466.0	975.2	1,483.0	1,774.8	0.00	0.00	0.00
6,800.0	17.37	56.67	6,530.3	986.2	1,499.8	1,794.9	0.00	0.00	0.00
6,900.0	17.37	56.67	6,625.7	1,002.6	1,524.7	1,824.8	0.00	0.00	0.00
7,000.0	17.37	56.67	6,721.2	1,019.0	1,549.7	1,854.6	0.00	0.00	0.00
Fort Union									
7,047.0	17.37	56.67	6,766.0	1,026.7	1,561.4	1,868.6	0.00	0.00	0.00
7,100.0	17.37	56.67	6,816.6	1,035.4	1,574.6	1,884.5	0.00	0.00	0.00
7,200.0	17.37	56.67	6,912.0	1,051.8	1,599.6	1,914.3	0.00	0.00	0.00
7,300.0	17.37	56.67	7,007.5	1,068.2	1,624.5	1,944.2	0.00	0.00	0.00
7,400.0	17.37	56.67	7,102.9	1,084.6	1,649.5	1,974.0	0.00	0.00	0.00
7,500.0	17.37	56.67	7,198.4	1,101.0	1,674.4	2,003.9	0.00	0.00	0.00
7,600.0	17.37	56.67	7,293.8	1,117.4	1,699.3	2,033.7	0.00	0.00	0.00
7,700.0	17.37	56.67	7,389.2	1,133.9	1,724.3	2,063.6	0.00	0.00	0.00
7,800.0	17.37	56.67	7,484.7	1,150.3	1,749.2	2,093.4	0.00	0.00	0.00
7,900.0	17.37	56.67	7,580.1	1,166.7	1,774.2	2,123.3	0.00	0.00	0.00
8,000.0	17.37	56.67	7,675.6	1,183.1	1,799.1	2,153.1	0.00	0.00	0.00
8,100.0	17.37	56.67	7,771.0	1,199.5	1,824.1	2,183.0	0.00	0.00	0.00
8,200.0	17.37	56.67	7,866.4	1,215.9	1,849.0	2,212.8	0.00	0.00	0.00
8,300.0	17.37	56.67	7,961.9	1,232.3	1,874.0	2,242.7	0.00	0.00	0.00
8,400.0	17.37	56.67	8,057.3	1,248.7	1,898.9	2,272.5	0.00	0.00	0.00
Start Drop -3.00									
8,469.7	17.37	56.67	8,123.8	1,260.1	1,916.3	2,293.3	0.00	0.00	0.00
8,500.0	16.46	56.67	8,152.8	1,264.9	1,923.6	2,302.2	3.00	-3.00	0.00
8,600.0	13.46	56.67	8,249.4	1,279.1	1,945.2	2,328.0	3.00	-3.00	0.00
8,700.0	10.46	56.67	8,347.3	1,290.5	1,962.5	2,348.7	3.00	-3.00	0.00
8,800.0	7.46	56.67	8,446.0	1,299.1	1,975.5	2,364.3	3.00	-3.00	0.00
8,900.0	4.46	56.67	8,545.5	1,304.8	1,984.2	2,374.7	3.00	-3.00	0.00
9,000.0	1.46	56.67	8,645.3	1,307.6	1,988.5	2,379.8	3.00	-3.00	0.00
Start DLS 1.50 TFO 250.02 - Ohio Creek									
9,048.7	0.00	0.00	8,694.0	1,308.0	1,989.0	2,380.4	3.00	-3.00	0.00
9,100.0	0.77	250.02	8,745.3	1,307.8	1,988.7	2,380.1	1.50	1.50	0.00
Start 4069.4 hold at 9141.5 MD									
9,141.5	1.39	250.02	8,786.8	1,307.6	1,988.0	2,379.3	1.50	1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 23B-13 496 - Slot 23B-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 23B-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
9,200.0	1.39	250.02	8,845.3	1,307.1	1,986.7	2,378.0	0.00	0.00	0.00
9,300.0	1.39	250.02	8,945.3	1,306.2	1,984.4	2,375.6	0.00	0.00	0.00
9,400.0	1.39	250.02	9,045.2	1,305.4	1,982.1	2,373.2	0.00	0.00	0.00
9,500.0	1.39	250.02	9,145.2	1,304.6	1,979.8	2,370.9	0.00	0.00	0.00
Williams Fork									
9,572.8	1.39	250.02	9,218.0	1,304.0	1,978.1	2,369.2	0.00	0.00	0.00
9,600.0	1.39	250.02	9,245.2	1,303.8	1,977.5	2,368.5	0.00	0.00	0.00
9,700.0	1.39	250.02	9,345.1	1,302.9	1,975.2	2,366.2	0.00	0.00	0.00
9,800.0	1.39	250.02	9,445.1	1,302.1	1,973.0	2,363.8	0.00	0.00	0.00
9,900.0	1.39	250.02	9,545.1	1,301.3	1,970.7	2,361.5	0.00	0.00	0.00
10,000.0	1.39	250.02	9,645.1	1,300.4	1,968.4	2,359.1	0.00	0.00	0.00
10,100.0	1.39	250.02	9,745.0	1,299.6	1,966.1	2,356.7	0.00	0.00	0.00
10,200.0	1.39	250.02	9,845.0	1,298.8	1,963.8	2,354.4	0.00	0.00	0.00
10,300.0	1.39	250.02	9,945.0	1,297.9	1,961.5	2,352.0	0.00	0.00	0.00
10,400.0	1.39	250.02	10,044.9	1,297.1	1,959.3	2,349.7	0.00	0.00	0.00
10,500.0	1.39	250.02	10,144.9	1,296.3	1,957.0	2,347.3	0.00	0.00	0.00
10,600.0	1.39	250.02	10,244.9	1,295.5	1,954.7	2,344.9	0.00	0.00	0.00
10,700.0	1.39	250.02	10,344.9	1,294.6	1,952.4	2,342.6	0.00	0.00	0.00
10,800.0	1.39	250.02	10,444.8	1,293.8	1,950.1	2,340.2	0.00	0.00	0.00
10,900.0	1.39	250.02	10,544.8	1,293.0	1,947.8	2,337.9	0.00	0.00	0.00
11,000.0	1.39	250.02	10,644.8	1,292.1	1,945.6	2,335.5	0.00	0.00	0.00
11,100.0	1.39	250.02	10,744.7	1,291.3	1,943.3	2,333.2	0.00	0.00	0.00
11,200.0	1.39	250.02	10,844.7	1,290.5	1,941.0	2,330.8	0.00	0.00	0.00
11,300.0	1.39	250.02	10,944.7	1,289.6	1,938.7	2,328.4	0.00	0.00	0.00
11,400.0	1.39	250.02	11,044.6	1,288.8	1,936.4	2,326.1	0.00	0.00	0.00
11,500.0	1.39	250.02	11,144.6	1,288.0	1,934.1	2,323.7	0.00	0.00	0.00
11,600.0	1.39	250.02	11,244.6	1,287.2	1,931.9	2,321.4	0.00	0.00	0.00
11,700.0	1.39	250.02	11,344.6	1,286.3	1,929.6	2,319.0	0.00	0.00	0.00
11,800.0	1.39	250.02	11,444.5	1,285.5	1,927.3	2,316.6	0.00	0.00	0.00
11,900.0	1.39	250.02	11,544.5	1,284.7	1,925.0	2,314.3	0.00	0.00	0.00
12,000.0	1.39	250.02	11,644.5	1,283.8	1,922.7	2,311.9	0.00	0.00	0.00
12,100.0	1.39	250.02	11,744.4	1,283.0	1,920.4	2,309.6	0.00	0.00	0.00
Cameo									
12,160.6	1.39	250.02	11,805.0	1,282.5	1,919.1	2,308.1	0.00	0.00	0.00
12,200.0	1.39	250.02	11,844.4	1,282.2	1,918.2	2,307.2	0.00	0.00	0.00
12,300.0	1.39	250.02	11,944.4	1,281.3	1,915.9	2,304.9	0.00	0.00	0.00
12,400.0	1.39	250.02	12,044.4	1,280.5	1,913.6	2,302.5	0.00	0.00	0.00
12,500.0	1.39	250.02	12,144.3	1,279.7	1,911.3	2,300.1	0.00	0.00	0.00
12,600.0	1.39	250.02	12,244.3	1,278.8	1,909.0	2,297.8	0.00	0.00	0.00
12,700.0	1.39	250.02	12,344.3	1,278.0	1,906.7	2,295.4	0.00	0.00	0.00
Rollins									
12,710.7	1.39	250.02	12,355.0	1,277.9	1,906.5	2,295.2	0.00	0.00	0.00
12,800.0	1.39	250.02	12,444.2	1,277.2	1,904.5	2,293.1	0.00	0.00	0.00
12,900.0	1.39	250.02	12,544.2	1,276.4	1,902.2	2,290.7	0.00	0.00	0.00
13,000.0	1.39	250.02	12,644.2	1,275.5	1,899.9	2,288.3	0.00	0.00	0.00
13,100.0	1.39	250.02	12,744.1	1,274.7	1,897.6	2,286.0	0.00	0.00	0.00
13,200.0	1.39	250.02	12,844.1	1,273.9	1,895.3	2,283.6	0.00	0.00	0.00
TD at 13210.9									
13,210.9	1.39	250.02	12,855.0	1,273.8	1,895.1	2,283.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 23B-13 496 - Slot 23B-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 23B-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
23B-13 - OHCR	0.00	0.00	8,694.0	1,308.0	1,989.0	14,430,770.98	2,454,037.23	39.702304	-108.107568
- plan hits target center									
- Point									
23B-13 - PBHL	0.00	0.00	12,855.0	1,273.8	1,895.1	14,430,733.80	2,453,944.40	39.702210	-108.107902
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 250.00 azi)									

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
4,218.0	4,066.0	Wasatch			
6,732.6	6,466.0	Wasatch G			
7,047.0	6,766.0	Fort Union			
9,048.7	8,694.0	Ohio Creek			
9,572.8	9,218.0	Williams Fork			
12,160.6	11,805.0	Cameo			
12,710.7	12,355.0	Rollins			

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	Start Build 3.00
1,079.0	1,070.2	47.9	72.8	Start 7390.7 hold at 1079.0 MD
8,469.7	8,123.8	1,260.1	1,916.3	Start Drop -3.00
9,048.7	8,694.0	1,308.0	1,989.0	Start DLS 1.50 TFO 250.02
9,141.5	8,786.8	1,307.6	1,988.0	Start 4069.4 hold at 9141.5 MD
13,210.9	12,855.0	1,273.8	1,895.1	TD at 13210.9