

Project: Rio Blanco County, CO
Site: ELU O13 496 Pad
Well: ELU O13 FED 12C-13 496
Wellbore: Wellbore #1
Design: Design #4
Latitude: 39.698714
Longitude: -108.114666
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 - 12C-13(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8143.0usft (25')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4037.0	4165.1	Wasatch
6437.0	6661.8	Wasatch G
6737.0	6973.8	Fort Union
8614.0	8912.1	Ohio Creek
9157.0	9455.3	Williams Fork
11803.0	12102.0	Cameo
12353.0	12652.2	Rollings

SECTION DETAILS

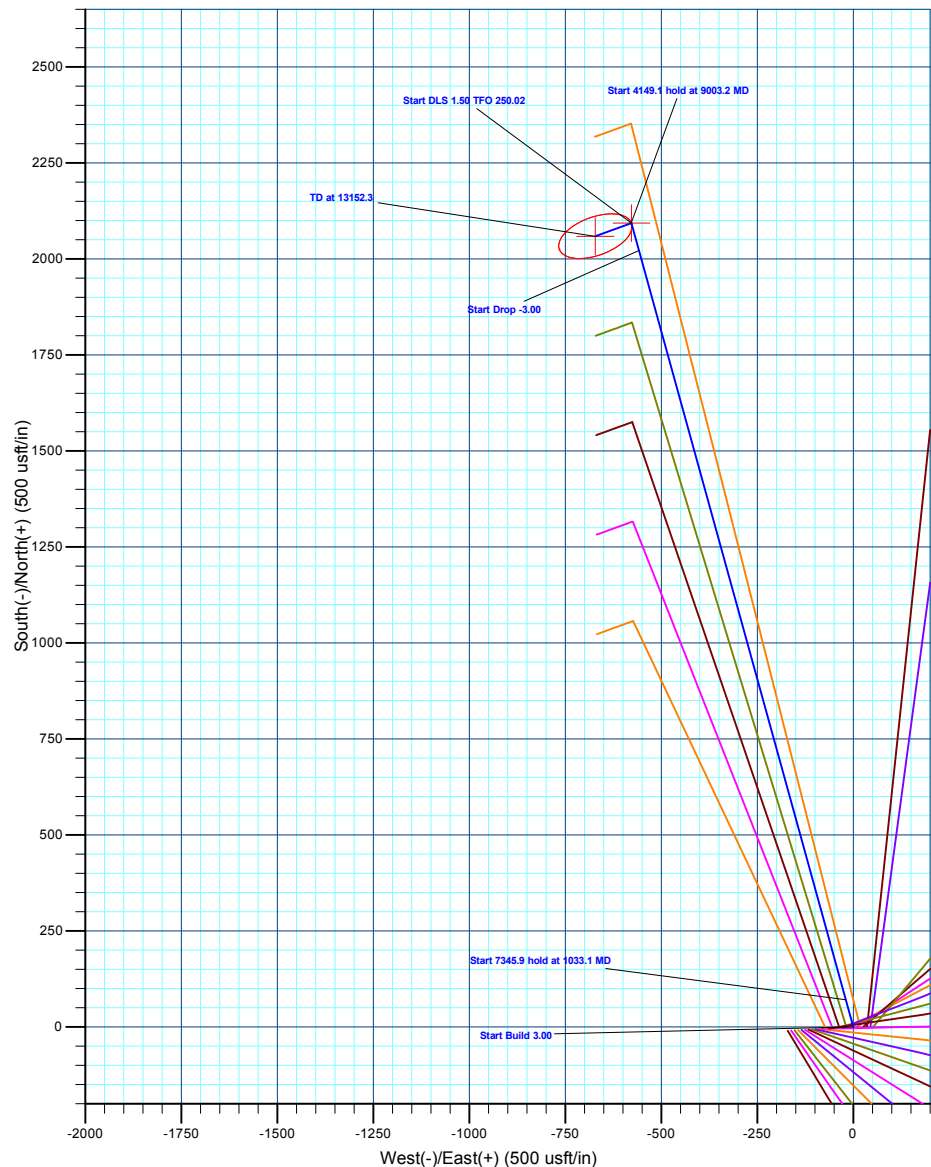
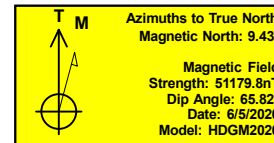
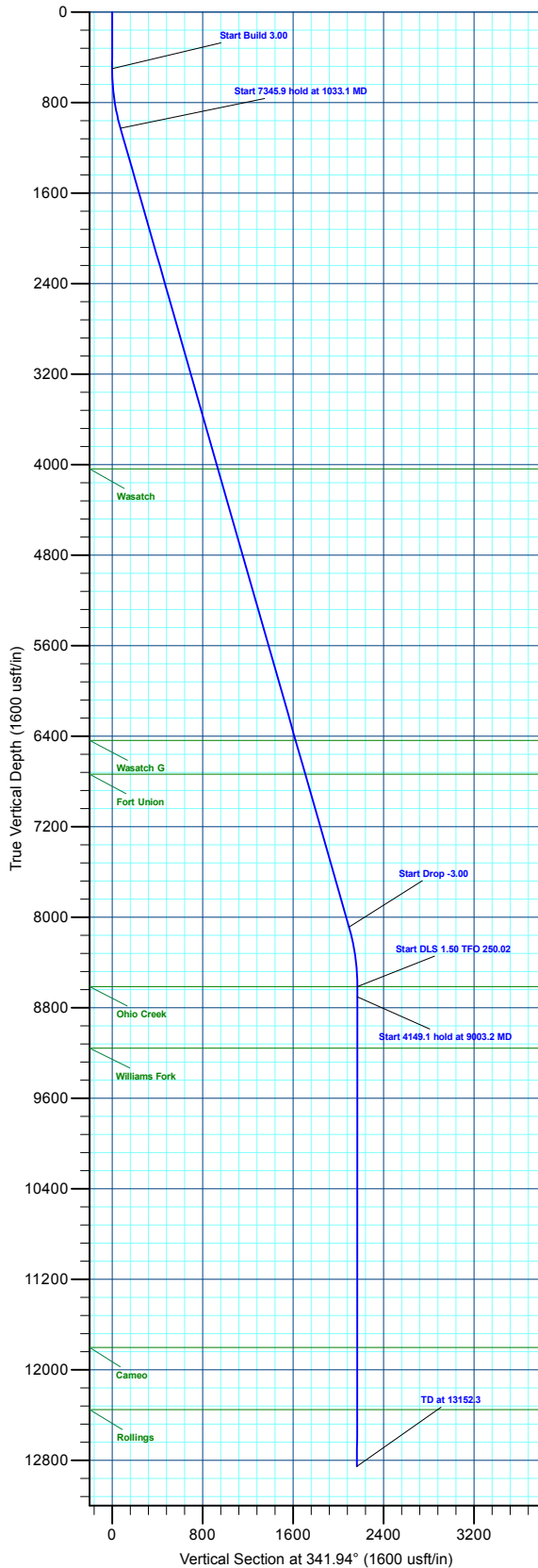
MD	Inc	Azi	TVD	+N/-S	+E/-W	Ddeg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1033.1	15.99	344.58	1026.2	71.3	-19.7	3.00	344.58	73.8	Start 7345.9 hold at 1033.1 MD
8379.0	15.99	344.58	8087.8	2022.4	-557.9	0.00	0.00	2095.7	Start Drop -3.00
8912.1	0.00	0.00	8614.0	2093.7	-577.6	3.00	180.00	2169.6	Start DLS 1.50 TFO 250.02
9003.2	1.37	250.02	8705.1	2093.3	-578.6	1.50	250.02	2169.5	Start 4149.1 hold at 9003.2 MD
13152.3	1.37	250.02	12853.0	2059.5	-671.6	0.00	0.00	2166.2	TD at 13152.3

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
12C-13 - OHCR	8614.0	2093.7	-577.6	14431472.98	2451437.63	39.704459	-108.116718
12C-13 - PBHL	12853.0	2059.5	-671.6	14431435.80	2451344.80	39.704365	-108.117052

WELL DETAILS: ELU O13 FED 12C-13 496

Ground Level : 8118.0					
Northing	Easting	Latitude	Longitude		
14429399.00	2452082.30	39.698714	-108.114666	12C-13	



Plan: Design #4 (ELU O13 FED 12C-13 496/Wellbore #1)

Created By: Will Jircik

Date: 11:45, February 28 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 12C-13 496 - Slot 12C-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 12C-13 496 - Slot 12C-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 12C-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 12C-13 496 - Slot 12C-13					
Well Position	+N/-S	0.6 usft	Northing:	14,429,399.00 usft	Latitude:	39.698714
	+E/-W	10.9 usft	Easting:	2,452,082.30 usft	Longitude:	-108.114666
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	341.94

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	
1,033.1	15.99	344.58	1,026.2	71.3	-19.7	3.00	3.00	0.00	344.58	
8,379.0	15.99	344.58	8,087.8	2,022.4	-557.9	0.00	0.00	0.00	0.00	
8,912.1	0.00	0.00	8,614.0	2,093.7	-577.6	3.00	-3.00	0.00	180.00	12C-13 - OHCR
9,003.2	1.37	250.02	8,705.1	2,093.3	-578.6	1.50	1.50	-120.77	250.02	
13,152.3	1.37	250.02	12,853.0	2,059.5	-671.6	0.00	0.00	0.00	0.00	12C-13 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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	344.58	600.0	2.5	-0.7	2.6	3.00	3.00	0.00
700.0	6.00	344.58	699.6	10.1	-2.8	10.5	3.00	3.00	0.00
800.0	9.00	344.58	798.8	22.7	-6.3	23.5	3.00	3.00	0.00
900.0	12.00	344.58	897.1	40.2	-11.1	41.7	3.00	3.00	0.00
1,000.0	15.00	344.58	994.3	62.7	-17.3	65.0	3.00	3.00	0.00
Start 7345.9 hold at 1033.1 MD									
1,033.1	15.99	344.58	1,026.2	71.3	-19.7	73.8	3.00	3.00	0.00
1,100.0	15.99	344.58	1,090.5	89.0	-24.6	92.3	0.00	0.00	0.00
1,200.0	15.99	344.58	1,186.6	115.6	-31.9	119.8	0.00	0.00	0.00
1,300.0	15.99	344.58	1,282.8	142.1	-39.2	147.3	0.00	0.00	0.00
1,400.0	15.99	344.58	1,378.9	168.7	-46.5	174.8	0.00	0.00	0.00
1,500.0	15.99	344.58	1,475.0	195.3	-53.9	202.4	0.00	0.00	0.00
1,600.0	15.99	344.58	1,571.2	221.8	-61.2	229.9	0.00	0.00	0.00
1,700.0	15.99	344.58	1,667.3	248.4	-68.5	257.4	0.00	0.00	0.00
1,800.0	15.99	344.58	1,763.4	275.0	-75.9	284.9	0.00	0.00	0.00
1,900.0	15.99	344.58	1,859.5	301.5	-83.2	312.4	0.00	0.00	0.00
2,000.0	15.99	344.58	1,955.7	328.1	-90.5	340.0	0.00	0.00	0.00
2,100.0	15.99	344.58	2,051.8	354.6	-97.8	367.5	0.00	0.00	0.00
2,200.0	15.99	344.58	2,147.9	381.2	-105.2	395.0	0.00	0.00	0.00
2,300.0	15.99	344.58	2,244.1	407.8	-112.5	422.5	0.00	0.00	0.00
2,400.0	15.99	344.58	2,340.2	434.3	-119.8	450.1	0.00	0.00	0.00
2,500.0	15.99	344.58	2,436.3	460.9	-127.1	477.6	0.00	0.00	0.00
2,600.0	15.99	344.58	2,532.5	487.4	-134.5	505.1	0.00	0.00	0.00
2,700.0	15.99	344.58	2,628.6	514.0	-141.8	532.6	0.00	0.00	0.00
2,800.0	15.99	344.58	2,724.7	540.6	-149.1	560.2	0.00	0.00	0.00
2,900.0	15.99	344.58	2,820.8	567.1	-156.5	587.7	0.00	0.00	0.00
3,000.0	15.99	344.58	2,917.0	593.7	-163.8	615.2	0.00	0.00	0.00
3,100.0	15.99	344.58	3,013.1	620.2	-171.1	642.7	0.00	0.00	0.00
3,200.0	15.99	344.58	3,109.2	646.8	-178.4	670.3	0.00	0.00	0.00
3,300.0	15.99	344.58	3,205.4	673.4	-185.8	697.8	0.00	0.00	0.00
3,400.0	15.99	344.58	3,301.5	699.9	-193.1	725.3	0.00	0.00	0.00
3,500.0	15.99	344.58	3,397.6	726.5	-200.4	752.8	0.00	0.00	0.00
3,600.0	15.99	344.58	3,493.7	753.0	-207.8	780.4	0.00	0.00	0.00
3,700.0	15.99	344.58	3,589.9	779.6	-215.1	807.9	0.00	0.00	0.00
3,800.0	15.99	344.58	3,686.0	806.2	-222.4	835.4	0.00	0.00	0.00
3,900.0	15.99	344.58	3,782.1	832.7	-229.7	862.9	0.00	0.00	0.00
4,000.0	15.99	344.58	3,878.3	859.3	-237.1	890.4	0.00	0.00	0.00
4,100.0	15.99	344.58	3,974.4	885.8	-244.4	918.0	0.00	0.00	0.00
Wasatch									
4,165.1	15.99	344.58	4,037.0	903.1	-249.2	935.9	0.00	0.00	0.00
4,200.0	15.99	344.58	4,070.5	912.4	-251.7	945.5	0.00	0.00	0.00
4,300.0	15.99	344.58	4,166.7	939.0	-259.0	973.0	0.00	0.00	0.00
4,400.0	15.99	344.58	4,262.8	965.5	-266.4	1,000.5	0.00	0.00	0.00
4,500.0	15.99	344.58	4,358.9	992.1	-273.7	1,028.1	0.00	0.00	0.00
4,600.0	15.99	344.58	4,455.0	1,018.7	-281.0	1,055.6	0.00	0.00	0.00
4,700.0	15.99	344.58	4,551.2	1,045.2	-288.4	1,083.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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	15.99	344.58	4,647.3	1,071.8	-295.7	1,110.6	0.00	0.00	0.00
4,900.0	15.99	344.58	4,743.4	1,098.3	-303.0	1,138.2	0.00	0.00	0.00
5,000.0	15.99	344.58	4,839.6	1,124.9	-310.3	1,165.7	0.00	0.00	0.00
5,100.0	15.99	344.58	4,935.7	1,151.5	-317.7	1,193.2	0.00	0.00	0.00
5,200.0	15.99	344.58	5,031.8	1,178.0	-325.0	1,220.7	0.00	0.00	0.00
5,300.0	15.99	344.58	5,127.9	1,204.6	-332.3	1,248.3	0.00	0.00	0.00
5,400.0	15.99	344.58	5,224.1	1,231.1	-339.6	1,275.8	0.00	0.00	0.00
5,500.0	15.99	344.58	5,320.2	1,257.7	-347.0	1,303.3	0.00	0.00	0.00
5,600.0	15.99	344.58	5,416.3	1,284.3	-354.3	1,330.8	0.00	0.00	0.00
5,700.0	15.99	344.58	5,512.5	1,310.8	-361.6	1,358.3	0.00	0.00	0.00
5,800.0	15.99	344.58	5,608.6	1,337.4	-369.0	1,385.9	0.00	0.00	0.00
5,900.0	15.99	344.58	5,704.7	1,363.9	-376.3	1,413.4	0.00	0.00	0.00
6,000.0	15.99	344.58	5,800.8	1,390.5	-383.6	1,440.9	0.00	0.00	0.00
6,100.0	15.99	344.58	5,897.0	1,417.1	-390.9	1,468.4	0.00	0.00	0.00
6,200.0	15.99	344.58	5,993.1	1,443.6	-398.3	1,496.0	0.00	0.00	0.00
6,300.0	15.99	344.58	6,089.2	1,470.2	-405.6	1,523.5	0.00	0.00	0.00
6,400.0	15.99	344.58	6,185.4	1,496.7	-412.9	1,551.0	0.00	0.00	0.00
6,500.0	15.99	344.58	6,281.5	1,523.3	-420.3	1,578.5	0.00	0.00	0.00
6,600.0	15.99	344.58	6,377.6	1,549.9	-427.6	1,606.1	0.00	0.00	0.00
Wasatch G									
6,661.8	15.99	344.58	6,437.0	1,566.3	-432.1	1,623.1	0.00	0.00	0.00
6,700.0	15.99	344.58	6,473.8	1,576.4	-434.9	1,633.6	0.00	0.00	0.00
6,800.0	15.99	344.58	6,569.9	1,603.0	-442.2	1,661.1	0.00	0.00	0.00
6,900.0	15.99	344.58	6,666.0	1,629.6	-449.6	1,688.6	0.00	0.00	0.00
Fort Union									
6,973.8	15.99	344.58	6,737.0	1,649.2	-455.0	1,709.0	0.00	0.00	0.00
7,000.0	15.99	344.58	6,762.1	1,656.1	-456.9	1,716.2	0.00	0.00	0.00
7,100.0	15.99	344.58	6,858.3	1,682.7	-464.2	1,743.7	0.00	0.00	0.00
7,200.0	15.99	344.58	6,954.4	1,709.2	-471.5	1,771.2	0.00	0.00	0.00
7,300.0	15.99	344.58	7,050.5	1,735.8	-478.9	1,798.7	0.00	0.00	0.00
7,400.0	15.99	344.58	7,146.7	1,762.4	-486.2	1,826.3	0.00	0.00	0.00
7,500.0	15.99	344.58	7,242.8	1,788.9	-493.5	1,853.8	0.00	0.00	0.00
7,600.0	15.99	344.58	7,338.9	1,815.5	-500.9	1,881.3	0.00	0.00	0.00
7,700.0	15.99	344.58	7,435.0	1,842.0	-508.2	1,908.8	0.00	0.00	0.00
7,800.0	15.99	344.58	7,531.2	1,868.6	-515.5	1,936.3	0.00	0.00	0.00
7,900.0	15.99	344.58	7,627.3	1,895.2	-522.8	1,963.9	0.00	0.00	0.00
8,000.0	15.99	344.58	7,723.4	1,921.7	-530.2	1,991.4	0.00	0.00	0.00
8,100.0	15.99	344.58	7,819.6	1,948.3	-537.5	2,018.9	0.00	0.00	0.00
8,200.0	15.99	344.58	7,915.7	1,974.8	-544.8	2,046.4	0.00	0.00	0.00
8,300.0	15.99	344.58	8,011.8	2,001.4	-552.1	2,074.0	0.00	0.00	0.00
Start Drop -3.00									
8,379.0	15.99	344.58	8,087.8	2,022.4	-557.9	2,095.7	0.00	0.00	0.00
8,400.0	15.36	344.58	8,108.0	2,027.9	-559.4	2,101.4	3.00	-3.00	0.00
8,500.0	12.36	344.58	8,205.1	2,051.0	-565.8	2,125.3	3.00	-3.00	0.00
8,600.0	9.36	344.58	8,303.3	2,069.1	-570.8	2,144.1	3.00	-3.00	0.00
8,700.0	6.36	344.58	8,402.3	2,082.3	-574.5	2,157.8	3.00	-3.00	0.00
8,800.0	3.36	344.58	8,501.9	2,090.5	-576.7	2,166.3	3.00	-3.00	0.00
8,900.0	0.36	344.58	8,601.9	2,093.6	-577.6	2,169.5	3.00	-3.00	0.00
Start DLS 1.50 TFO 250.02 - Ohio Creek									
8,912.1	0.00	0.00	8,614.0	2,093.7	-577.6	2,169.6	3.00	-3.00	0.00
Start 4149.1 hold at 9003.2 MD									
9,003.2	1.37	250.02	8,705.1	2,093.3	-578.6	2,169.5	1.50	1.50	0.00
9,100.0	1.37	250.02	8,801.8	2,092.5	-580.8	2,169.4	0.00	0.00	0.00
9,200.0	1.37	250.02	8,901.8	2,091.7	-583.0	2,169.4	0.00	0.00	0.00

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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 12C-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)
9,300.0	1.37	250.02	9,001.8	2,090.9	-585.3	2,169.3	0.00	0.00	0.00
9,400.0	1.37	250.02	9,101.7	2,090.0	-587.5	2,169.2	0.00	0.00	0.00
Williams Fork									
9,455.3	1.37	250.02	9,157.0	2,089.6	-588.7	2,169.2	0.00	0.00	0.00
9,500.0	1.37	250.02	9,201.7	2,089.2	-589.7	2,169.1	0.00	0.00	0.00
9,600.0	1.37	250.02	9,301.7	2,088.4	-592.0	2,169.0	0.00	0.00	0.00
9,700.0	1.37	250.02	9,401.7	2,087.6	-594.2	2,169.0	0.00	0.00	0.00
9,800.0	1.37	250.02	9,501.6	2,086.8	-596.5	2,168.9	0.00	0.00	0.00
9,900.0	1.37	250.02	9,601.6	2,086.0	-598.7	2,168.8	0.00	0.00	0.00
10,000.0	1.37	250.02	9,701.6	2,085.2	-600.9	2,168.7	0.00	0.00	0.00
10,100.0	1.37	250.02	9,801.5	2,084.3	-603.2	2,168.6	0.00	0.00	0.00
10,200.0	1.37	250.02	9,901.5	2,083.5	-605.4	2,168.6	0.00	0.00	0.00
10,300.0	1.37	250.02	10,001.5	2,082.7	-607.7	2,168.5	0.00	0.00	0.00
10,400.0	1.37	250.02	10,101.5	2,081.9	-609.9	2,168.4	0.00	0.00	0.00
10,500.0	1.37	250.02	10,201.4	2,081.1	-612.2	2,168.3	0.00	0.00	0.00
10,600.0	1.37	250.02	10,301.4	2,080.3	-614.4	2,168.2	0.00	0.00	0.00
10,700.0	1.37	250.02	10,401.4	2,079.5	-616.6	2,168.2	0.00	0.00	0.00
10,800.0	1.37	250.02	10,501.3	2,078.6	-618.9	2,168.1	0.00	0.00	0.00
10,900.0	1.37	250.02	10,601.3	2,077.8	-621.1	2,168.0	0.00	0.00	0.00
11,000.0	1.37	250.02	10,701.3	2,077.0	-623.4	2,167.9	0.00	0.00	0.00
11,100.0	1.37	250.02	10,801.3	2,076.2	-625.6	2,167.8	0.00	0.00	0.00
11,200.0	1.37	250.02	10,901.2	2,075.4	-627.8	2,167.8	0.00	0.00	0.00
11,300.0	1.37	250.02	11,001.2	2,074.6	-630.1	2,167.7	0.00	0.00	0.00
11,400.0	1.37	250.02	11,101.2	2,073.8	-632.3	2,167.6	0.00	0.00	0.00
11,500.0	1.37	250.02	11,201.1	2,072.9	-634.6	2,167.5	0.00	0.00	0.00
11,600.0	1.37	250.02	11,301.1	2,072.1	-636.8	2,167.5	0.00	0.00	0.00
11,700.0	1.37	250.02	11,401.1	2,071.3	-639.0	2,167.4	0.00	0.00	0.00
11,800.0	1.37	250.02	11,501.1	2,070.5	-641.3	2,167.3	0.00	0.00	0.00
11,900.0	1.37	250.02	11,601.0	2,069.7	-643.5	2,167.2	0.00	0.00	0.00
12,000.0	1.37	250.02	11,701.0	2,068.9	-645.8	2,167.1	0.00	0.00	0.00
12,100.0	1.37	250.02	11,801.0	2,068.1	-648.0	2,167.1	0.00	0.00	0.00
Cameo									
12,102.0	1.37	250.02	11,803.0	2,068.0	-648.0	2,167.0	0.00	0.00	0.00
12,200.0	1.37	250.02	11,900.9	2,067.2	-650.2	2,167.0	0.00	0.00	0.00
12,300.0	1.37	250.02	12,000.9	2,066.4	-652.5	2,166.9	0.00	0.00	0.00
12,400.0	1.37	250.02	12,100.9	2,065.6	-654.7	2,166.8	0.00	0.00	0.00
12,500.0	1.37	250.02	12,200.9	2,064.8	-657.0	2,166.7	0.00	0.00	0.00
12,600.0	1.37	250.02	12,300.8	2,064.0	-659.2	2,166.7	0.00	0.00	0.00
Rollings									
12,652.2	1.37	250.02	12,353.0	2,063.6	-660.4	2,166.6	0.00	0.00	0.00
12,700.0	1.37	250.02	12,400.8	2,063.2	-661.4	2,166.6	0.00	0.00	0.00
12,800.0	1.37	250.02	12,500.8	2,062.3	-663.7	2,166.5	0.00	0.00	0.00
12,900.0	1.37	250.02	12,600.7	2,061.5	-665.9	2,166.4	0.00	0.00	0.00
13,000.0	1.37	250.02	12,700.7	2,060.7	-668.2	2,166.3	0.00	0.00	0.00
13,100.0	1.37	250.02	12,800.7	2,059.9	-670.4	2,166.3	0.00	0.00	0.00
TD at 13152.3									
13,152.3	1.37	250.02	12,853.0	2,059.5	-671.6	2,166.2	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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)		
12C-13 - OHCR	0.00	0.00	8,614.0	2,093.7	-577.6	14,431,472.98	2,451,437.63	39.704459	-108.116718
- plan hits target center									
- Point									
12C-13 - PBHL	0.00	0.00	12,853.0	2,059.5	-671.6	14,431,435.80	2,451,344.80	39.704366	-108.117052
- 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)			(°)	(°)
4,165.1	4,037.0	Wasatch			
6,661.8	6,437.0	Wasatch G			
6,973.8	6,737.0	Fort Union			
8,912.1	8,614.0	Ohio Creek			
9,455.3	9,157.0	Williams Fork			
12,102.0	11,803.0	Cameo			
12,652.2	12,353.0	Rollings			

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
500.0	500.0	0.0	0.0	Start Build 3.00
1,033.1	1,026.2	71.3	-19.7	Start 7345.9 hold at 1033.1 MD
8,379.0	8,087.8	2,022.4	-557.9	Start Drop -3.00
8,912.1	8,614.0	2,093.7	-577.6	Start DLS 1.50 TFO 250.02
9,003.2	8,705.1	2,093.3	-578.6	Start 4149.1 hold at 9003.2 MD
13,152.3	12,853.0	2,059.5	-671.6	TD at 13152.3