

Project: Rio Blanco County, CO
 Site: ELU O13 496 Pad
 Well: ELU O13 FED 21C-24 496
 Wellbore: Wellbore #1
 Design: Design #4
 Latitude: 39.698690
 Longitude: -108.115208
 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 - 21C-24(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8143.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3917.0	4101.5	Wasatch
6317.0	6650.1	Wasatch G
6617.0	6968.7	Fort Union
8592.0	9038.9	Ohio Creek
9076.0	9523.1	Williams Fork
11773.0	12220.8	Cameo
12323.0	12771.0	Rollins

SECTION DETAILS

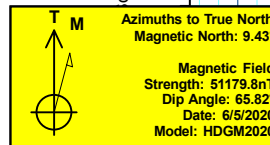
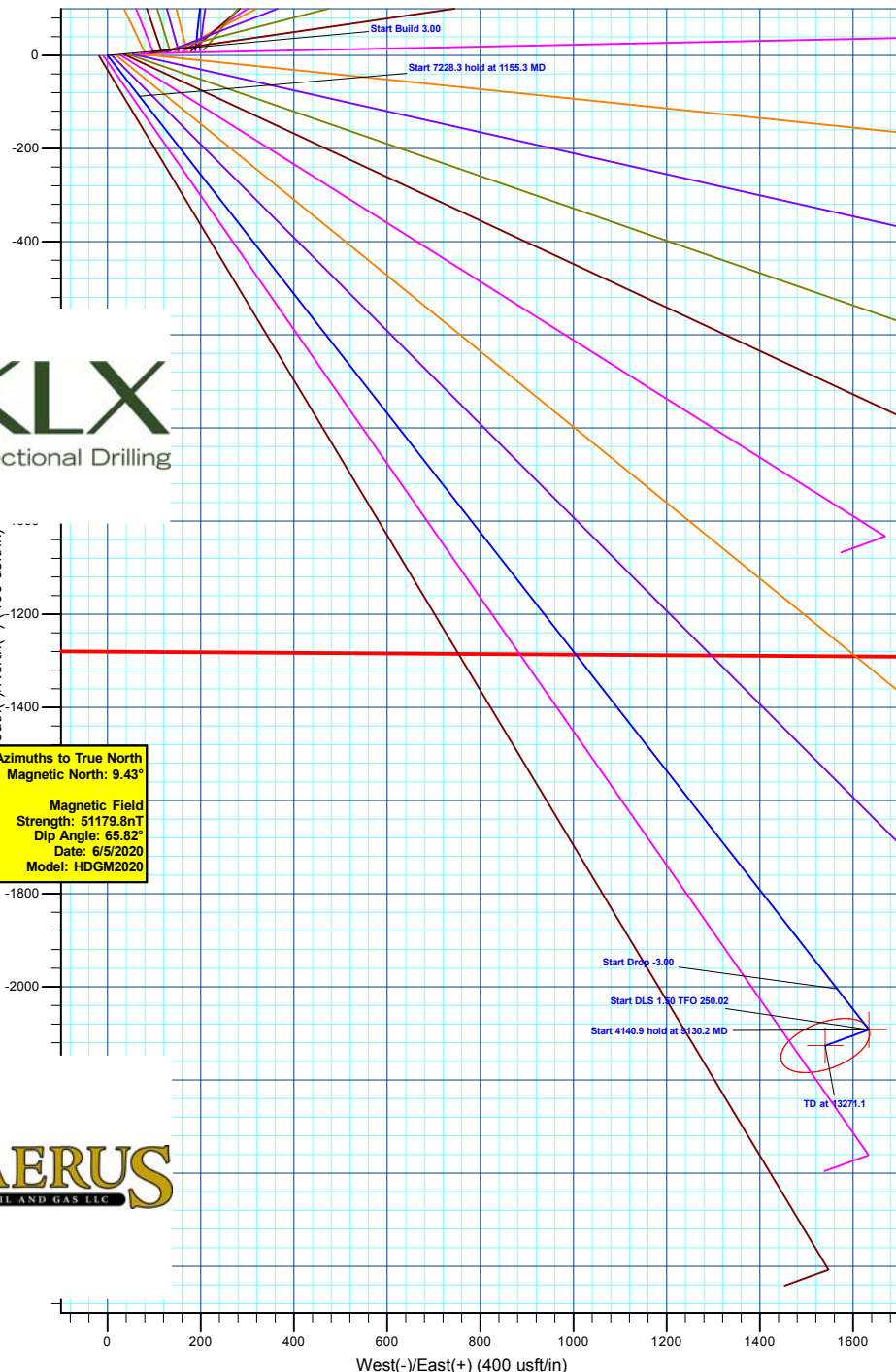
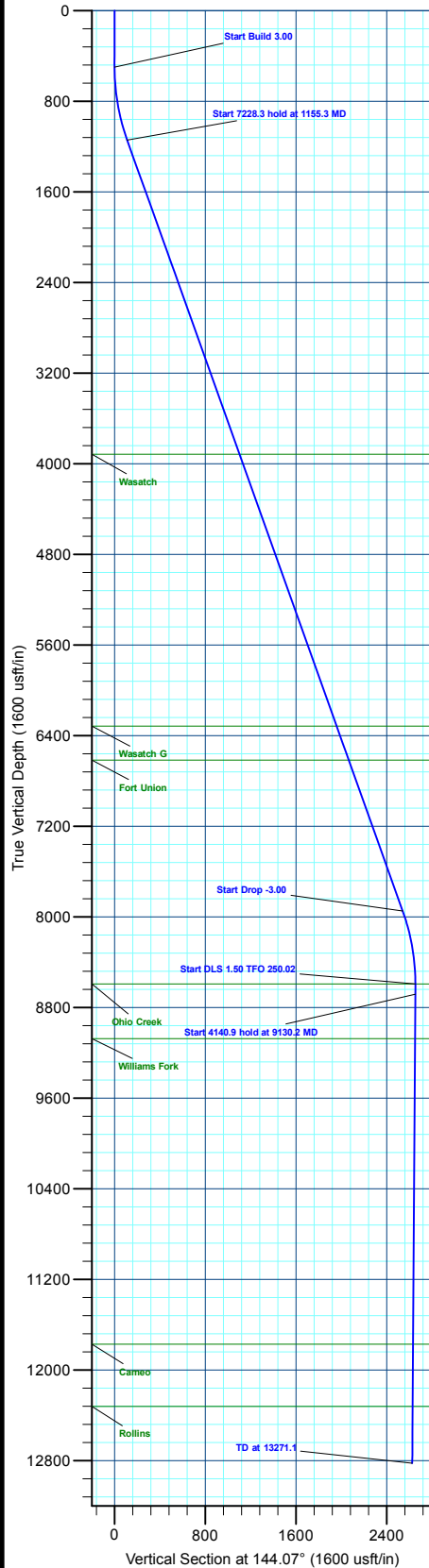
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1155.3	19.66	142.00	1142.6	-87.7	68.5	3.00	142.00	111.3	Start 7228.3 hold at 1155.3 MD
8383.6	19.66	142.00	7949.4	-2004.1	1565.8	0.00	0.00	2541.6	Start Drop -3.00
9038.9	0.00	0.00	8592.0	-2091.8	1634.4	3.00	180.00	2652.8	Start DLS 1.50 TFO 250.02
9130.2	1.37	250.02	8683.2	-2092.2	1633.4	1.50	250.02	2652.5	Start 4140.9 hold at 9130.2 MD
13271.1	1.37	250.02	12623.0	-2126.0	1540.4	0.00	0.00	2625.4	TD at 13271.1

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
21C-24 - OHCR	8592.0	-2091.8	1634.4	14427347.48	2453630.73	39.692950	-108.109403
21C-24 - PBHL	12623.0	-2126.0	1540.4	14427310.30	2453537.90	39.692656	-108.109737

WELL DETAILS: ELU O13 FED 21C-24 496

+N/-S	+E/-W	Ground Level : 8118.0	Latitude	Longitude
0.0	0.0	Northing 14429385.60 Easting 2451929.90	39.698690	-108.115208



Plan: Design #4 (ELU O13 FED 21C-24 496/Wellbore #1)

Created By: Will Jircik Date: 12:13, February 28 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 21C-24 496 - Slot 21C-24

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 21C-24 496 - Slot 21C-24
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 21C-24 496	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 21C-24 496 - Slot 21C-24					
Well Position	+N/-S	-7.8 usft	Northing:	14,429,385.60 usft	Latitude:	39.698690
	+E/-W	-141.8 usft	Easting:	2,451,929.90 usft	Longitude:	-108.115209
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	144.07

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	
1,155.3	19.66	142.00	1,142.6	-87.7	68.5	3.00	3.00	0.00	142.00	
8,383.6	19.66	142.00	7,949.4	-2,004.1	1,565.8	0.00	0.00	0.00	0.00	
9,038.9	0.00	0.00	8,592.0	-2,091.8	1,634.4	3.00	-3.00	0.00	180.00	21C-24 - OHCR
9,130.2	1.37	250.02	8,683.2	-2,092.2	1,633.4	1.50	1.50	-120.54	250.02	
13,271.1	1.37	250.02	12,823.0	-2,126.0	1,540.4	0.00	0.00	0.00	0.00	21C-24 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21C-24 496 - Slot 21C-24
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 21C-24 496	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	142.00	600.0	-2.1	1.6	2.6	3.00	3.00	0.00
700.0	6.00	142.00	699.6	-8.2	6.4	10.5	3.00	3.00	0.00
800.0	9.00	142.00	798.8	-18.5	14.5	23.5	3.00	3.00	0.00
900.0	12.00	142.00	897.1	-32.9	25.7	41.7	3.00	3.00	0.00
1,000.0	15.00	142.00	994.3	-51.3	40.1	65.0	3.00	3.00	0.00
1,100.0	18.00	142.00	1,090.2	-73.7	57.6	93.4	3.00	3.00	0.00
Start 7228.3 hold at 1155.3 MD									
1,155.3	19.66	142.00	1,142.6	-87.7	68.5	111.3	3.00	3.00	0.00
1,200.0	19.66	142.00	1,184.6	-99.6	77.8	126.3	0.00	0.00	0.00
1,300.0	19.66	142.00	1,278.8	-126.1	98.5	159.9	0.00	0.00	0.00
1,400.0	19.66	142.00	1,373.0	-152.6	119.2	193.5	0.00	0.00	0.00
1,500.0	19.66	142.00	1,467.1	-179.1	139.9	227.1	0.00	0.00	0.00
1,600.0	19.66	142.00	1,561.3	-205.6	160.7	260.8	0.00	0.00	0.00
1,700.0	19.66	142.00	1,655.5	-232.1	181.4	294.4	0.00	0.00	0.00
1,800.0	19.66	142.00	1,749.6	-258.6	202.1	328.0	0.00	0.00	0.00
1,900.0	19.66	142.00	1,843.8	-285.2	222.8	361.6	0.00	0.00	0.00
2,000.0	19.66	142.00	1,938.0	-311.7	243.5	395.3	0.00	0.00	0.00
2,100.0	19.66	142.00	2,032.1	-338.2	264.2	428.9	0.00	0.00	0.00
2,200.0	19.66	142.00	2,126.3	-364.7	284.9	462.5	0.00	0.00	0.00
2,300.0	19.66	142.00	2,220.5	-391.2	305.7	496.1	0.00	0.00	0.00
2,400.0	19.66	142.00	2,314.7	-417.7	326.4	529.7	0.00	0.00	0.00
2,500.0	19.66	142.00	2,408.8	-444.2	347.1	563.4	0.00	0.00	0.00
2,600.0	19.66	142.00	2,503.0	-470.7	367.8	597.0	0.00	0.00	0.00
2,700.0	19.66	142.00	2,597.2	-497.2	388.5	630.6	0.00	0.00	0.00
2,800.0	19.66	142.00	2,691.3	-523.8	409.2	664.2	0.00	0.00	0.00
2,900.0	19.66	142.00	2,785.5	-550.3	429.9	697.9	0.00	0.00	0.00
3,000.0	19.66	142.00	2,879.7	-576.8	450.7	731.5	0.00	0.00	0.00
3,100.0	19.66	142.00	2,973.8	-603.3	471.4	765.1	0.00	0.00	0.00
3,200.0	19.66	142.00	3,068.0	-629.8	492.1	798.7	0.00	0.00	0.00
3,300.0	19.66	142.00	3,162.2	-656.3	512.8	832.3	0.00	0.00	0.00
3,400.0	19.66	142.00	3,256.4	-682.8	533.5	866.0	0.00	0.00	0.00
3,500.0	19.66	142.00	3,350.5	-709.3	554.2	899.6	0.00	0.00	0.00
3,600.0	19.66	142.00	3,444.7	-735.8	574.9	933.2	0.00	0.00	0.00
3,700.0	19.66	142.00	3,538.9	-762.4	595.7	966.8	0.00	0.00	0.00
3,800.0	19.66	142.00	3,633.0	-788.9	616.4	1,000.5	0.00	0.00	0.00
3,900.0	19.66	142.00	3,727.2	-815.4	637.1	1,034.1	0.00	0.00	0.00
4,000.0	19.66	142.00	3,821.4	-841.9	657.8	1,067.7	0.00	0.00	0.00
4,100.0	19.66	142.00	3,915.6	-868.4	678.5	1,101.3	0.00	0.00	0.00
Wasatch									
4,101.5	19.66	142.00	3,917.0	-868.8	678.8	1,101.8	0.00	0.00	0.00
4,200.0	19.66	142.00	4,009.7	-894.9	699.2	1,134.9	0.00	0.00	0.00
4,300.0	19.66	142.00	4,103.9	-921.4	719.9	1,168.6	0.00	0.00	0.00
4,400.0	19.66	142.00	4,198.1	-947.9	740.7	1,202.2	0.00	0.00	0.00
4,500.0	19.66	142.00	4,292.2	-974.5	761.4	1,235.8	0.00	0.00	0.00
4,600.0	19.66	142.00	4,386.4	-1,001.0	782.1	1,269.4	0.00	0.00	0.00
4,700.0	19.66	142.00	4,480.6	-1,027.5	802.8	1,303.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21C-24 496 - Slot 21C-24
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 21C-24 496	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	19.66	142.00	4,574.7	-1,054.0	823.5	1,336.7	0.00	0.00	0.00
4,900.0	19.66	142.00	4,668.9	-1,080.5	844.2	1,370.3	0.00	0.00	0.00
5,000.0	19.66	142.00	4,763.1	-1,107.0	864.9	1,403.9	0.00	0.00	0.00
5,100.0	19.66	142.00	4,857.3	-1,133.5	885.7	1,437.5	0.00	0.00	0.00
5,200.0	19.66	142.00	4,951.4	-1,160.0	906.4	1,471.2	0.00	0.00	0.00
5,300.0	19.66	142.00	5,045.6	-1,186.5	927.1	1,504.8	0.00	0.00	0.00
5,400.0	19.66	142.00	5,139.8	-1,213.1	947.8	1,538.4	0.00	0.00	0.00
5,500.0	19.66	142.00	5,233.9	-1,239.6	968.5	1,572.0	0.00	0.00	0.00
5,600.0	19.66	142.00	5,328.1	-1,266.1	989.2	1,605.7	0.00	0.00	0.00
5,700.0	19.66	142.00	5,422.3	-1,292.6	1,009.9	1,639.3	0.00	0.00	0.00
5,800.0	19.66	142.00	5,516.4	-1,319.1	1,030.7	1,672.9	0.00	0.00	0.00
5,900.0	19.66	142.00	5,610.6	-1,345.6	1,051.4	1,706.5	0.00	0.00	0.00
6,000.0	19.66	142.00	5,704.8	-1,372.1	1,072.1	1,740.1	0.00	0.00	0.00
6,100.0	19.66	142.00	5,799.0	-1,398.6	1,092.8	1,773.8	0.00	0.00	0.00
6,200.0	19.66	142.00	5,893.1	-1,425.1	1,113.5	1,807.4	0.00	0.00	0.00
6,300.0	19.66	142.00	5,987.3	-1,451.7	1,134.2	1,841.0	0.00	0.00	0.00
6,400.0	19.66	142.00	6,081.5	-1,478.2	1,154.9	1,874.6	0.00	0.00	0.00
6,500.0	19.66	142.00	6,175.6	-1,504.7	1,175.7	1,908.3	0.00	0.00	0.00
6,600.0	19.66	142.00	6,269.8	-1,531.2	1,196.4	1,941.9	0.00	0.00	0.00
Wasatch G									
6,650.1	19.66	142.00	6,317.0	-1,544.5	1,206.7	1,958.7	0.00	0.00	0.00
6,700.0	19.66	142.00	6,364.0	-1,557.7	1,217.1	1,975.5	0.00	0.00	0.00
6,800.0	19.66	142.00	6,458.2	-1,584.2	1,237.8	2,009.1	0.00	0.00	0.00
6,900.0	19.66	142.00	6,552.3	-1,610.7	1,258.5	2,042.7	0.00	0.00	0.00
Fort Union									
6,968.7	19.66	142.00	6,617.0	-1,628.9	1,272.7	2,065.8	0.00	0.00	0.00
7,000.0	19.66	142.00	6,646.5	-1,637.2	1,279.2	2,076.4	0.00	0.00	0.00
7,100.0	19.66	142.00	6,740.7	-1,663.7	1,299.9	2,110.0	0.00	0.00	0.00
7,200.0	19.66	142.00	6,834.8	-1,690.3	1,320.7	2,143.6	0.00	0.00	0.00
7,300.0	19.66	142.00	6,929.0	-1,716.8	1,341.4	2,177.2	0.00	0.00	0.00
7,400.0	19.66	142.00	7,023.2	-1,743.3	1,362.1	2,210.9	0.00	0.00	0.00
7,500.0	19.66	142.00	7,117.3	-1,769.8	1,382.8	2,244.5	0.00	0.00	0.00
7,600.0	19.66	142.00	7,211.5	-1,796.3	1,403.5	2,278.1	0.00	0.00	0.00
7,700.0	19.66	142.00	7,305.7	-1,822.8	1,424.2	2,311.7	0.00	0.00	0.00
7,800.0	19.66	142.00	7,399.9	-1,849.3	1,444.9	2,345.3	0.00	0.00	0.00
7,900.0	19.66	142.00	7,494.0	-1,875.8	1,465.7	2,379.0	0.00	0.00	0.00
8,000.0	19.66	142.00	7,588.2	-1,902.4	1,486.4	2,412.6	0.00	0.00	0.00
8,100.0	19.66	142.00	7,682.4	-1,928.9	1,507.1	2,446.2	0.00	0.00	0.00
8,200.0	19.66	142.00	7,776.5	-1,955.4	1,527.8	2,479.8	0.00	0.00	0.00
8,300.0	19.66	142.00	7,870.7	-1,981.9	1,548.5	2,513.5	0.00	0.00	0.00
Start Drop -3.00									
8,383.6	19.66	142.00	7,949.4	-2,004.1	1,565.8	2,541.6	0.00	0.00	0.00
8,400.0	19.17	142.00	7,964.9	-2,008.3	1,569.2	2,547.0	3.00	-3.00	0.00
8,500.0	16.17	142.00	8,060.2	-2,032.3	1,587.9	2,577.3	3.00	-3.00	0.00
8,600.0	13.17	142.00	8,156.9	-2,052.2	1,603.5	2,602.6	3.00	-3.00	0.00
8,700.0	10.17	142.00	8,254.8	-2,068.1	1,615.9	2,622.9	3.00	-3.00	0.00
8,800.0	7.17	142.00	8,353.7	-2,080.0	1,625.2	2,637.9	3.00	-3.00	0.00
8,900.0	4.17	142.00	8,453.2	-2,087.8	1,631.3	2,647.8	3.00	-3.00	0.00
9,000.0	1.17	142.00	8,553.1	-2,091.5	1,634.1	2,652.4	3.00	-3.00	0.00
Start DLS 1.50 TFO 250.02 - Ohio Creek									
9,038.9	0.00	0.00	8,592.0	-2,091.8	1,634.4	2,652.8	3.00	-3.00	0.00
9,100.0	0.92	250.02	8,653.0	-2,092.0	1,633.9	2,652.7	1.50	1.50	0.00
Start 4140.9 hold at 9130.2 MD									
9,130.2	1.37	250.02	8,683.2	-2,092.2	1,633.4	2,652.5	1.50	1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21C-24 496 - Slot 21C-24
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 21C-24 496	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	1.37	250.02	8,753.0	-2,092.7	1,631.8	2,652.1	0.00	0.00	0.00
9,300.0	1.37	250.02	8,853.0	-2,093.5	1,629.5	2,651.4	0.00	0.00	0.00
9,400.0	1.37	250.02	8,953.0	-2,094.4	1,627.3	2,650.8	0.00	0.00	0.00
9,500.0	1.37	250.02	9,052.9	-2,095.2	1,625.1	2,650.1	0.00	0.00	0.00
Williams Fork									
9,523.1	1.37	250.02	9,076.0	-2,095.4	1,624.5	2,650.0	0.00	0.00	0.00
9,600.0	1.37	250.02	9,152.9	-2,096.0	1,622.8	2,649.4	0.00	0.00	0.00
9,700.0	1.37	250.02	9,252.9	-2,096.8	1,620.6	2,648.8	0.00	0.00	0.00
9,800.0	1.37	250.02	9,352.9	-2,097.6	1,618.3	2,648.1	0.00	0.00	0.00
9,900.0	1.37	250.02	9,452.8	-2,098.4	1,616.1	2,647.5	0.00	0.00	0.00
10,000.0	1.37	250.02	9,552.8	-2,099.3	1,613.8	2,646.8	0.00	0.00	0.00
10,100.0	1.37	250.02	9,652.8	-2,100.1	1,611.6	2,646.2	0.00	0.00	0.00
10,200.0	1.37	250.02	9,752.7	-2,100.9	1,609.3	2,645.5	0.00	0.00	0.00
10,300.0	1.37	250.02	9,852.7	-2,101.7	1,607.1	2,644.9	0.00	0.00	0.00
10,400.0	1.37	250.02	9,952.7	-2,102.5	1,604.8	2,644.2	0.00	0.00	0.00
10,500.0	1.37	250.02	10,052.7	-2,103.3	1,602.6	2,643.5	0.00	0.00	0.00
10,600.0	1.37	250.02	10,152.6	-2,104.2	1,600.4	2,642.9	0.00	0.00	0.00
10,700.0	1.37	250.02	10,252.6	-2,105.0	1,598.1	2,642.2	0.00	0.00	0.00
10,800.0	1.37	250.02	10,352.6	-2,105.8	1,595.9	2,641.6	0.00	0.00	0.00
10,900.0	1.37	250.02	10,452.5	-2,106.6	1,593.6	2,640.9	0.00	0.00	0.00
11,000.0	1.37	250.02	10,552.5	-2,107.4	1,591.4	2,640.3	0.00	0.00	0.00
11,100.0	1.37	250.02	10,652.5	-2,108.2	1,589.1	2,639.6	0.00	0.00	0.00
11,200.0	1.37	250.02	10,752.5	-2,109.1	1,586.9	2,639.0	0.00	0.00	0.00
11,300.0	1.37	250.02	10,852.4	-2,109.9	1,584.6	2,638.3	0.00	0.00	0.00
11,400.0	1.37	250.02	10,952.4	-2,110.7	1,582.4	2,637.6	0.00	0.00	0.00
11,500.0	1.37	250.02	11,052.4	-2,111.5	1,580.2	2,637.0	0.00	0.00	0.00
11,600.0	1.37	250.02	11,152.3	-2,112.3	1,577.9	2,636.3	0.00	0.00	0.00
11,700.0	1.37	250.02	11,252.3	-2,113.1	1,575.7	2,635.7	0.00	0.00	0.00
11,800.0	1.37	250.02	11,352.3	-2,114.0	1,573.4	2,635.0	0.00	0.00	0.00
11,900.0	1.37	250.02	11,452.3	-2,114.8	1,571.2	2,634.4	0.00	0.00	0.00
12,000.0	1.37	250.02	11,552.2	-2,115.6	1,568.9	2,633.7	0.00	0.00	0.00
12,100.0	1.37	250.02	11,652.2	-2,116.4	1,566.7	2,633.0	0.00	0.00	0.00
12,200.0	1.37	250.02	11,752.2	-2,117.2	1,564.4	2,632.4	0.00	0.00	0.00
Cameo									
12,220.8	1.37	250.02	11,773.0	-2,117.4	1,564.0	2,632.3	0.00	0.00	0.00
12,300.0	1.37	250.02	11,852.1	-2,118.0	1,562.2	2,631.7	0.00	0.00	0.00
12,400.0	1.37	250.02	11,952.1	-2,118.8	1,560.0	2,631.1	0.00	0.00	0.00
12,500.0	1.37	250.02	12,052.1	-2,119.7	1,557.7	2,630.4	0.00	0.00	0.00
12,600.0	1.37	250.02	12,152.1	-2,120.5	1,555.5	2,629.8	0.00	0.00	0.00
12,700.0	1.37	250.02	12,252.0	-2,121.3	1,553.2	2,629.1	0.00	0.00	0.00
Rollins									
12,771.0	1.37	250.02	12,323.0	-2,121.9	1,551.6	2,628.6	0.00	0.00	0.00
12,800.0	1.37	250.02	12,352.0	-2,122.1	1,551.0	2,628.5	0.00	0.00	0.00
12,900.0	1.37	250.02	12,452.0	-2,122.9	1,548.7	2,627.8	0.00	0.00	0.00
13,000.0	1.37	250.02	12,551.9	-2,123.7	1,546.5	2,627.1	0.00	0.00	0.00
13,100.0	1.37	250.02	12,651.9	-2,124.6	1,544.2	2,626.5	0.00	0.00	0.00
13,200.0	1.37	250.02	12,751.9	-2,125.4	1,542.0	2,625.8	0.00	0.00	0.00
TD at 13271.1									
13,271.1	1.37	250.02	12,823.0	-2,126.0	1,540.4	2,625.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21C-24 496 - Slot 21C-24
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 21C-24 496	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)		
21C-24 - OHCR	0.00	0.00	8,592.0	-2,091.8	1,634.4	14,427,347.48	2,453,630.73	39.692950	-108.109403
- plan hits target center									
- Point									
21C-24 - PBHL	0.00	0.00	12,823.0	-2,126.0	1,540.4	14,427,310.30	2,453,537.90	39.692856	-108.109737
- 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)			(°)	(°)
4,101.5	3,917.0	Wasatch			
6,650.1	6,317.0	Wasatch G			
6,968.7	6,617.0	Fort Union			
9,038.9	8,592.0	Ohio Creek			
9,523.1	9,076.0	Williams Fork			
12,220.8	11,773.0	Cameo			
12,771.0	12,323.0	Rollins			

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
1,155.3	1,142.6	-87.7	68.5	Start 7228.3 hold at 1155.3 MD
8,383.6	7,949.4	-2,004.1	1,565.8	Start Drop -3.00
9,038.9	8,592.0	-2,091.8	1,634.4	Start DLS 1.50 TFO 250.02
9,130.2	8,683.2	-2,092.2	1,633.4	Start 4140.9 hold at 9130.2 MD
13,271.1	12,823.0	-2,126.0	1,540.4	TD at 13271.1