

Project: Rio Blanco County, CO
 Site: ELU O13 496 Pad
 Well: ELU O13 FED 21A-24 496
 Wellbore: Wellbore #1
 Design: Design #4
 Latitude: 39.698693
 Longitude: -108.115145
 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 - 21A-24(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8143.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3955.0	4139.3	Wasatch
6355.0	6685.6	Wasatch G
6555.0	7003.9	Fort Union
8621.0	9063.3	Ohio Creek
9121.0	9563.5	Williams Fork
11776.0	12219.2	Cameo
12326.0	12769.4	Rollins

SECTION DETAILS

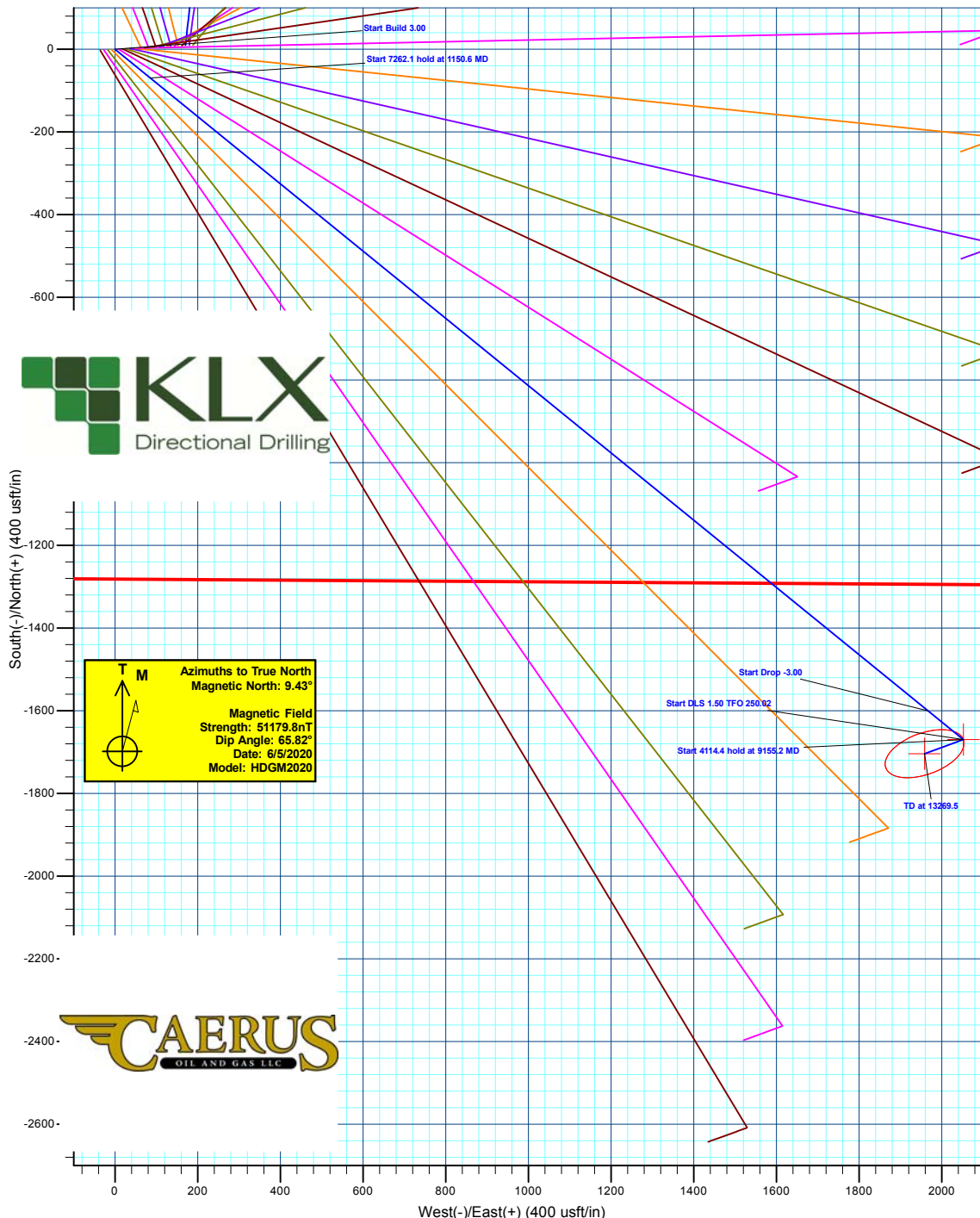
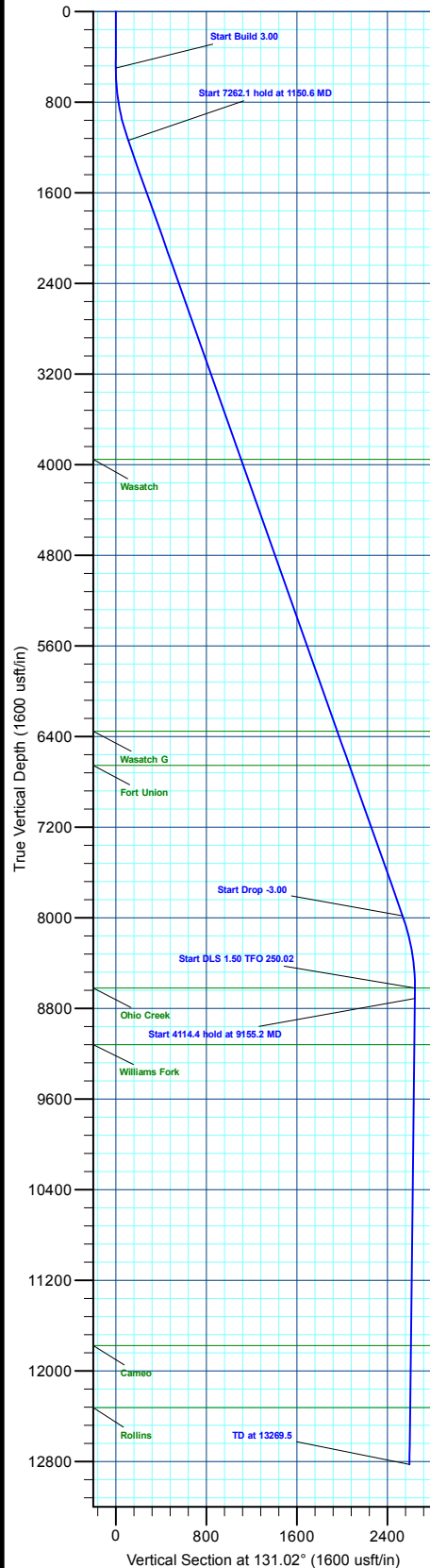
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 3.00
1150.6	19.52	129.12	1138.1	-69.3	85.1	3.00	129.12	109.7	Start 7262.1 hold at 1150.6 MD
8412.7	19.52	129.12	7982.9	-1600.3	1967.4	0.00	0.00	2534.7	Start Drop -3.00
9063.3	0.00	0.00	8621.0	-1669.5	2052.6	3.00	180.00	2644.4	Start DLS 1.50 TFO 250.02
9155.2	1.38	250.02	8712.8	-1669.9	2051.5	1.50	250.02	2643.8	Start 4114.4 hold at 9155.2 MD
13269.5	1.38	250.02	12826.0	-1703.7	1958.6	0.00	0.00	2595.9	TD at 13269.5

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
21A-24 - OHCR	8621.0	-1669.5	2052.6	14427784.58	2454053.03	39.694111	-108.107854
21A-24 - PBHL	12826.0	-1703.7	1958.6	14427747.40	2453960.20	39.694017	-108.108187

WELL DETAILS: ELU O13 FED 21A-24 496

+N/-S	+E/-W	Ground Level : 8118.0	Latitude	Longitude
0.0	0.0	Northing 14429387.20 Easting 2451947.80	39.698693	-108.115145



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

Created By: Will Jircik Date: 12:05, February 28 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 21A-24 496 - Slot 21A-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 21A-24 496 - Slot 21A-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 21A-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 21A-24 496 - Slot 21A-24					
Well Position	+N/-S	-6.8 usft	Northing:	14,429,387.20 usft	Latitude:	39.698693
	+E/-W	-123.9 usft	Easting:	2,451,947.80 usft	Longitude:	-108.115145
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	131.02

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	
1,150.6	19.52	129.12	1,138.1	-69.3	85.1	3.00	3.00	0.00	129.12	
8,412.7	19.52	129.12	7,982.9	-1,600.3	1,967.4	0.00	0.00	0.00	0.00	
9,063.3	0.00	0.00	8,621.0	-1,669.5	2,052.6	3.00	-3.00	0.00	180.00	21A-24 - OHCR
9,155.2	1.38	250.02	8,712.8	-1,669.9	2,051.5	1.50	1.50	-119.78	250.02	
13,269.5	1.38	250.02	12,826.0	-1,703.7	1,958.6	0.00	0.00	0.00	0.00	21A-24 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21A-24 496 - Slot 21A-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 21A-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	129.12	600.0	-1.7	2.0	2.6	3.00	3.00	0.00
700.0	6.00	129.12	699.6	-6.6	8.1	10.5	3.00	3.00	0.00
800.0	9.00	129.12	798.8	-14.8	18.2	23.5	3.00	3.00	0.00
900.0	12.00	129.12	897.1	-26.3	32.4	41.7	3.00	3.00	0.00
1,000.0	15.00	129.12	994.3	-41.1	50.5	65.0	3.00	3.00	0.00
1,100.0	18.00	129.12	1,090.2	-59.0	72.5	93.4	3.00	3.00	0.00
Start 7262.1 hold at 1150.6 MD									
1,150.6	19.52	129.12	1,138.1	-69.3	85.1	109.7	3.00	3.00	0.00
1,200.0	19.52	129.12	1,184.7	-79.7	97.9	126.2	0.00	0.00	0.00
1,300.0	19.52	129.12	1,278.9	-100.7	123.9	159.6	0.00	0.00	0.00
1,400.0	19.52	129.12	1,373.2	-121.8	149.8	193.0	0.00	0.00	0.00
1,500.0	19.52	129.12	1,467.4	-142.9	175.7	226.4	0.00	0.00	0.00
1,600.0	19.52	129.12	1,561.7	-164.0	201.6	259.8	0.00	0.00	0.00
1,700.0	19.52	129.12	1,655.9	-185.1	227.5	293.1	0.00	0.00	0.00
1,800.0	19.52	129.12	1,750.2	-206.2	253.5	326.5	0.00	0.00	0.00
1,900.0	19.52	129.12	1,844.4	-227.2	279.4	359.9	0.00	0.00	0.00
2,000.0	19.52	129.12	1,938.7	-248.3	305.3	393.3	0.00	0.00	0.00
2,100.0	19.52	129.12	2,032.9	-269.4	331.2	426.7	0.00	0.00	0.00
2,200.0	19.52	129.12	2,127.2	-290.5	357.1	460.1	0.00	0.00	0.00
2,300.0	19.52	129.12	2,221.4	-311.6	383.1	493.5	0.00	0.00	0.00
2,400.0	19.52	129.12	2,315.7	-332.7	409.0	526.9	0.00	0.00	0.00
2,500.0	19.52	129.12	2,409.9	-353.7	434.9	560.3	0.00	0.00	0.00
2,600.0	19.52	129.12	2,504.2	-374.8	460.8	593.7	0.00	0.00	0.00
2,700.0	19.52	129.12	2,598.5	-395.9	486.7	627.1	0.00	0.00	0.00
2,800.0	19.52	129.12	2,692.7	-417.0	512.7	660.5	0.00	0.00	0.00
2,900.0	19.52	129.12	2,787.0	-438.1	538.6	693.9	0.00	0.00	0.00
3,000.0	19.52	129.12	2,881.2	-459.1	564.5	727.2	0.00	0.00	0.00
3,100.0	19.52	129.12	2,975.5	-480.2	590.4	760.6	0.00	0.00	0.00
3,200.0	19.52	129.12	3,069.7	-501.3	616.3	794.0	0.00	0.00	0.00
3,300.0	19.52	129.12	3,164.0	-522.4	642.2	827.4	0.00	0.00	0.00
3,400.0	19.52	129.12	3,258.2	-543.5	668.2	860.8	0.00	0.00	0.00
3,500.0	19.52	129.12	3,352.5	-564.6	694.1	894.2	0.00	0.00	0.00
3,600.0	19.52	129.12	3,446.7	-585.6	720.0	927.6	0.00	0.00	0.00
3,700.0	19.52	129.12	3,541.0	-606.7	745.9	961.0	0.00	0.00	0.00
3,800.0	19.52	129.12	3,635.2	-627.8	771.8	994.4	0.00	0.00	0.00
3,900.0	19.52	129.12	3,729.5	-648.9	797.8	1,027.8	0.00	0.00	0.00
4,000.0	19.52	129.12	3,823.7	-670.0	823.7	1,061.2	0.00	0.00	0.00
4,100.0	19.52	129.12	3,918.0	-691.1	849.6	1,094.6	0.00	0.00	0.00
Wasatch									
4,139.3	19.52	129.12	3,955.0	-699.3	859.8	1,107.7	0.00	0.00	0.00
4,200.0	19.52	129.12	4,012.3	-712.1	875.5	1,128.0	0.00	0.00	0.00
4,300.0	19.52	129.12	4,106.5	-733.2	901.4	1,161.3	0.00	0.00	0.00
4,400.0	19.52	129.12	4,200.8	-754.3	927.4	1,194.7	0.00	0.00	0.00
4,500.0	19.52	129.12	4,295.0	-775.4	953.3	1,228.1	0.00	0.00	0.00
4,600.0	19.52	129.12	4,389.3	-796.5	979.2	1,261.5	0.00	0.00	0.00
4,700.0	19.52	129.12	4,483.5	-817.5	1,005.1	1,294.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21A-24 496 - Slot 21A-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 21A-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	19.52	129.12	4,577.8	-838.6	1,031.0	1,328.3	0.00	0.00	0.00
4,900.0	19.52	129.12	4,672.0	-859.7	1,057.0	1,361.7	0.00	0.00	0.00
5,000.0	19.52	129.12	4,766.3	-880.8	1,082.9	1,395.1	0.00	0.00	0.00
5,100.0	19.52	129.12	4,860.5	-901.9	1,108.8	1,428.5	0.00	0.00	0.00
5,200.0	19.52	129.12	4,954.8	-923.0	1,134.7	1,461.9	0.00	0.00	0.00
5,300.0	19.52	129.12	5,049.0	-944.0	1,160.6	1,495.3	0.00	0.00	0.00
5,400.0	19.52	129.12	5,143.3	-965.1	1,186.6	1,528.7	0.00	0.00	0.00
5,500.0	19.52	129.12	5,237.6	-986.2	1,212.5	1,562.1	0.00	0.00	0.00
5,600.0	19.52	129.12	5,331.8	-1,007.3	1,238.4	1,595.4	0.00	0.00	0.00
5,700.0	19.52	129.12	5,426.1	-1,028.4	1,264.3	1,628.8	0.00	0.00	0.00
5,800.0	19.52	129.12	5,520.3	-1,049.4	1,290.2	1,662.2	0.00	0.00	0.00
5,900.0	19.52	129.12	5,614.6	-1,070.5	1,316.2	1,695.6	0.00	0.00	0.00
6,000.0	19.52	129.12	5,708.8	-1,091.6	1,342.1	1,729.0	0.00	0.00	0.00
6,100.0	19.52	129.12	5,803.1	-1,112.7	1,368.0	1,762.4	0.00	0.00	0.00
6,200.0	19.52	129.12	5,897.3	-1,133.8	1,393.9	1,795.8	0.00	0.00	0.00
6,300.0	19.52	129.12	5,991.6	-1,154.9	1,419.8	1,829.2	0.00	0.00	0.00
6,400.0	19.52	129.12	6,085.8	-1,175.9	1,445.7	1,862.6	0.00	0.00	0.00
6,500.0	19.52	129.12	6,180.1	-1,197.0	1,471.7	1,896.0	0.00	0.00	0.00
6,600.0	19.52	129.12	6,274.3	-1,218.1	1,497.6	1,929.4	0.00	0.00	0.00
Wasatch G									
6,685.6	19.52	129.12	6,355.0	-1,236.1	1,519.8	1,957.9	0.00	0.00	0.00
6,700.0	19.52	129.12	6,368.6	-1,239.2	1,523.5	1,962.8	0.00	0.00	0.00
6,800.0	19.52	129.12	6,462.8	-1,260.3	1,549.4	1,996.2	0.00	0.00	0.00
6,900.0	19.52	129.12	6,557.1	-1,281.4	1,575.3	2,029.6	0.00	0.00	0.00
7,000.0	19.52	129.12	6,651.4	-1,302.4	1,601.3	2,062.9	0.00	0.00	0.00
Fort Union									
7,003.9	19.52	129.12	6,655.0	-1,303.3	1,602.3	2,064.2	0.00	0.00	0.00
7,100.0	19.52	129.12	6,745.6	-1,323.5	1,627.2	2,096.3	0.00	0.00	0.00
7,200.0	19.52	129.12	6,839.9	-1,344.6	1,653.1	2,129.7	0.00	0.00	0.00
7,300.0	19.52	129.12	6,934.1	-1,365.7	1,679.0	2,163.1	0.00	0.00	0.00
7,400.0	19.52	129.12	7,028.4	-1,386.8	1,704.9	2,196.5	0.00	0.00	0.00
7,500.0	19.52	129.12	7,122.6	-1,407.8	1,730.9	2,229.9	0.00	0.00	0.00
7,600.0	19.52	129.12	7,216.9	-1,428.9	1,756.8	2,263.3	0.00	0.00	0.00
7,700.0	19.52	129.12	7,311.1	-1,450.0	1,782.7	2,296.7	0.00	0.00	0.00
7,800.0	19.52	129.12	7,405.4	-1,471.1	1,808.6	2,330.1	0.00	0.00	0.00
7,900.0	19.52	129.12	7,499.6	-1,492.2	1,834.5	2,363.5	0.00	0.00	0.00
8,000.0	19.52	129.12	7,593.9	-1,513.3	1,860.5	2,396.9	0.00	0.00	0.00
8,100.0	19.52	129.12	7,688.1	-1,534.3	1,886.4	2,430.3	0.00	0.00	0.00
8,200.0	19.52	129.12	7,782.4	-1,555.4	1,912.3	2,463.7	0.00	0.00	0.00
8,300.0	19.52	129.12	7,876.7	-1,576.5	1,938.2	2,497.0	0.00	0.00	0.00
8,400.0	19.52	129.12	7,970.9	-1,597.6	1,964.1	2,530.4	0.00	0.00	0.00
Start Drop -3.00									
8,412.7	19.52	129.12	7,982.9	-1,600.3	1,967.4	2,534.7	0.00	0.00	0.00
8,500.0	16.90	129.12	8,065.8	-1,617.5	1,988.6	2,561.9	3.00	-3.00	0.00
8,600.0	13.90	129.12	8,162.2	-1,634.2	2,009.2	2,588.5	3.00	-3.00	0.00
8,700.0	10.90	129.12	8,259.8	-1,647.8	2,025.8	2,609.9	3.00	-3.00	0.00
8,800.0	7.90	129.12	8,358.5	-1,658.1	2,038.5	2,626.3	3.00	-3.00	0.00
8,900.0	4.90	129.12	8,457.9	-1,665.1	2,047.2	2,637.4	3.00	-3.00	0.00
9,000.0	1.90	129.12	8,557.7	-1,668.9	2,051.8	2,643.3	3.00	-3.00	0.00
Start DLS 1.50 TFO 250.02 - Ohio Creek									
9,063.3	0.00	0.00	8,621.0	-1,669.5	2,052.6	2,644.4	3.00	-3.00	0.00
9,100.0	0.55	250.02	8,657.7	-1,669.6	2,052.4	2,644.3	1.50	1.50	0.00
Start 4114.4 hold at 9155.2 MD									
9,155.2	1.38	250.02	8,712.8	-1,669.9	2,051.5	2,643.8	1.50	1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21A-24 496 - Slot 21A-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 21A-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	1.38	250.02	8,757.6	-1,670.3	2,050.5	2,643.3	0.00	0.00	0.00
9,300.0	1.38	250.02	8,857.6	-1,671.1	2,048.3	2,642.2	0.00	0.00	0.00
9,400.0	1.38	250.02	8,957.6	-1,671.9	2,046.0	2,641.0	0.00	0.00	0.00
9,500.0	1.38	250.02	9,057.6	-1,672.7	2,043.8	2,639.8	0.00	0.00	0.00
Williams Fork									
9,563.5	1.38	250.02	9,121.0	-1,673.3	2,042.3	2,639.1	0.00	0.00	0.00
9,600.0	1.38	250.02	9,157.5	-1,673.6	2,041.5	2,638.7	0.00	0.00	0.00
9,700.0	1.38	250.02	9,257.5	-1,674.4	2,039.2	2,637.5	0.00	0.00	0.00
9,800.0	1.38	250.02	9,357.5	-1,675.2	2,037.0	2,636.3	0.00	0.00	0.00
9,900.0	1.38	250.02	9,457.4	-1,676.0	2,034.7	2,635.2	0.00	0.00	0.00
10,000.0	1.38	250.02	9,557.4	-1,676.8	2,032.5	2,634.0	0.00	0.00	0.00
10,100.0	1.38	250.02	9,657.4	-1,677.7	2,030.2	2,632.8	0.00	0.00	0.00
10,200.0	1.38	250.02	9,757.4	-1,678.5	2,027.9	2,631.7	0.00	0.00	0.00
10,300.0	1.38	250.02	9,857.3	-1,679.3	2,025.7	2,630.5	0.00	0.00	0.00
10,400.0	1.38	250.02	9,957.3	-1,680.1	2,023.4	2,629.3	0.00	0.00	0.00
10,500.0	1.38	250.02	10,057.3	-1,680.9	2,021.2	2,628.2	0.00	0.00	0.00
10,600.0	1.38	250.02	10,157.2	-1,681.8	2,018.9	2,627.0	0.00	0.00	0.00
10,700.0	1.38	250.02	10,257.2	-1,682.6	2,016.6	2,625.8	0.00	0.00	0.00
10,800.0	1.38	250.02	10,357.2	-1,683.4	2,014.4	2,624.7	0.00	0.00	0.00
10,900.0	1.38	250.02	10,457.1	-1,684.2	2,012.1	2,623.5	0.00	0.00	0.00
11,000.0	1.38	250.02	10,557.1	-1,685.1	2,009.9	2,622.3	0.00	0.00	0.00
11,100.0	1.38	250.02	10,657.1	-1,685.9	2,007.6	2,621.2	0.00	0.00	0.00
11,200.0	1.38	250.02	10,757.1	-1,686.7	2,005.3	2,620.0	0.00	0.00	0.00
11,300.0	1.38	250.02	10,857.0	-1,687.5	2,003.1	2,618.9	0.00	0.00	0.00
11,400.0	1.38	250.02	10,957.0	-1,688.3	2,000.8	2,617.7	0.00	0.00	0.00
11,500.0	1.38	250.02	11,057.0	-1,689.2	1,998.6	2,616.5	0.00	0.00	0.00
11,600.0	1.38	250.02	11,156.9	-1,690.0	1,996.3	2,615.4	0.00	0.00	0.00
11,700.0	1.38	250.02	11,256.9	-1,690.8	1,994.1	2,614.2	0.00	0.00	0.00
11,800.0	1.38	250.02	11,356.9	-1,691.6	1,991.8	2,613.0	0.00	0.00	0.00
11,900.0	1.38	250.02	11,456.9	-1,692.4	1,989.5	2,611.9	0.00	0.00	0.00
12,000.0	1.38	250.02	11,556.8	-1,693.3	1,987.3	2,610.7	0.00	0.00	0.00
12,100.0	1.38	250.02	11,656.8	-1,694.1	1,985.0	2,609.5	0.00	0.00	0.00
12,200.0	1.38	250.02	11,756.8	-1,694.9	1,982.8	2,608.4	0.00	0.00	0.00
Cameo									
12,219.2	1.38	250.02	11,776.0	-1,695.1	1,982.3	2,608.1	0.00	0.00	0.00
12,300.0	1.38	250.02	11,856.7	-1,695.7	1,980.5	2,607.2	0.00	0.00	0.00
12,400.0	1.38	250.02	11,956.7	-1,696.6	1,978.2	2,606.0	0.00	0.00	0.00
12,500.0	1.38	250.02	12,056.7	-1,697.4	1,976.0	2,604.9	0.00	0.00	0.00
12,600.0	1.38	250.02	12,156.7	-1,698.2	1,973.7	2,603.7	0.00	0.00	0.00
12,700.0	1.38	250.02	12,256.6	-1,699.0	1,971.5	2,602.5	0.00	0.00	0.00
Rollins									
12,769.4	1.38	250.02	12,326.0	-1,699.6	1,969.9	2,601.7	0.00	0.00	0.00
12,800.0	1.38	250.02	12,356.6	-1,699.8	1,969.2	2,601.4	0.00	0.00	0.00
12,900.0	1.38	250.02	12,456.6	-1,700.7	1,966.9	2,600.2	0.00	0.00	0.00
13,000.0	1.38	250.02	12,556.5	-1,701.5	1,964.7	2,599.0	0.00	0.00	0.00
13,100.0	1.38	250.02	12,656.5	-1,702.3	1,962.4	2,597.9	0.00	0.00	0.00
13,200.0	1.38	250.02	12,756.5	-1,703.1	1,960.2	2,596.7	0.00	0.00	0.00
TD at 13269.5									
13,269.5	1.38	250.02	12,826.0	-1,703.7	1,958.6	2,595.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 21A-24 496 - Slot 21A-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 21A-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)		
21A-24 - OHCR	0.00	0.00	8,621.0	-1,669.5	2,052.6	14,427,784.58	2,454,053.03	39.694111	-108.107854
- plan hits target center									
- Point									
21A-24 - PBHL	0.00	0.00	12,826.0	-1,703.7	1,958.6	14,427,747.40	2,453,960.20	39.694018	-108.108188
- 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)			(°)	(°)
4,139.3	3,955.0	Wasatch			
6,685.6	6,355.0	Wasatch G			
7,003.9	6,655.0	Fort Union			
9,063.3	8,621.0	Ohio Creek			
9,563.5	9,121.0	Williams Fork			
12,219.2	11,776.0	Cameo			
12,769.4	12,326.0	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
1,150.6	1,138.1	-69.3	85.1	Start 7262.1 hold at 1150.6 MD
8,412.7	7,982.9	-1,600.3	1,967.4	Start Drop -3.00
9,063.3	8,621.0	-1,669.5	2,052.6	Start DLS 1.50 TFO 250.02
9,155.2	8,712.8	-1,669.9	2,051.5	Start 4114.4 hold at 9155.2 MD
13,269.5	12,826.0	-1,703.7	1,958.6	TD at 13269.5