

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 21A-13-496
Wellbore: OH
Design: Design #5
Latitude: 39.708969
Longitude: -108.103807
Ground Level: 8029.0
RKB=30' @ 8059.0usft (TBD)

PROJECT DETAILS: Rio Blanco 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=30' @ 8059.0usft (TBD)
Section (VS) Reference: Slot - 21A-13(0.0N, 0.0E)
Measured Depth Reference: RKB=30' @ 8059.0usft (TBD)
Calculation Method: Minimum Curvature

SECTION DETAILS

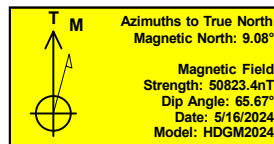
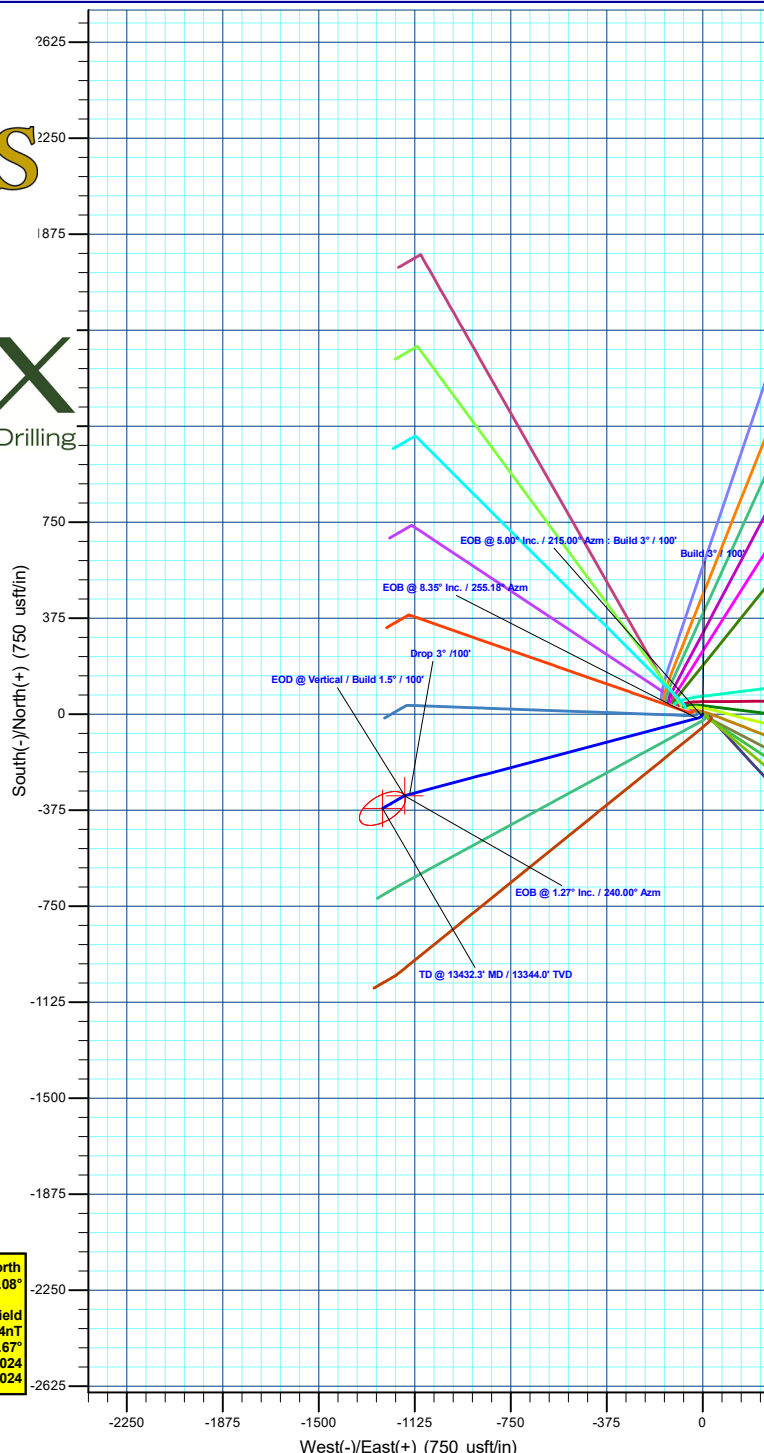
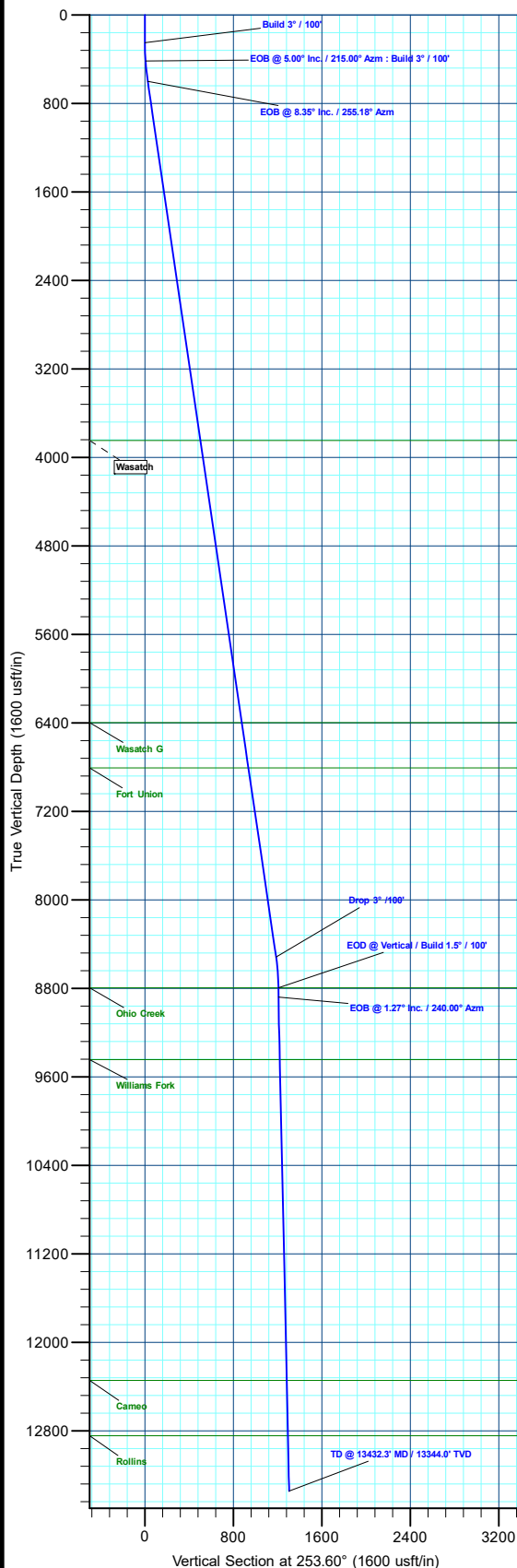
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
416.7	5.00	215.00	416.5	-6.0	-4.2	3.00	215.00	5.7	EOB @ 5.00° Inc. / 215.00° Azm : Build 3° / 100'
601.8	8.35	255.18	600.4	-16.0	-21.8	3.00	75.47	25.4	EOB @ 8.35° Inc. / 255.18° Azm
8602.9	8.35	255.18	8516.7	-313.1	-1145.0	0.00	0.00	1186.8	Drop 3° / 100'
8881.2	0.00	0.00	8794.0	-318.3	-1164.5	3.00	180.00	1207.0	EOD @ Vertical / Build 1.5° / 100'
8965.9	1.27	240.00	8878.7	-318.8	-1165.3	1.50	240.00	1207.9	EOB @ 1.27° Inc. / 240.00° Azm
13432.3	1.27	240.00	13344.0	-368.3	-1251.1	0.00	0.00	1304.2	TD @ 13432.3' MD / 13344.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
21A-13 - OHCR	8794.0	-318.3	-1164.5	14432876.87	2453863.14	39.708096	-108.107944
21A-13 - PBHL	13344.0	-368.3	-1251.1	14432824.10	2453778.20	39.707958	-108.108252

WELL DETAILS: ELU A18 FED 21A-13-496

+N/-S	+E/-W	Ground Level : 8029.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14433232.62	2455016.78	39.708969	-108.103807
						21A-13



Plan: Design #5 (ELU A18 FED 21A-13-496/OH)

Created By: Will Jircik Date: 22:13, June 09 2024



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 21A-13-496 - Slot 21A-13

OH

Plan: Design #5

KLX Well Planning Report

09 June, 2024



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 21A-13-496 - Slot 21A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB=30' @ 8059.0usft (TBD)
Project:	Rio Blanco County, CO	MD Reference:	RKB=30' @ 8059.0usft (TBD)
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 21A-13-496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #5		

Project	Rio Blanco County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site		ELU A18 495 Pad			
Site Position:		Northing:	14,433,285.62 usft	Latitude:	39.709129
From:	Map	Easting:	2,454,854.21 usft	Longitude:	-108.104378
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.85 °

Well		ELU A18 FED 21A-13-496 - Slot 21A-13				
Well Position	+N/-S	-58.2 usft	Northing:	14,433,232.62 usft	Latitude:	39.708969
	+E/-W	160.8 usft	Easting:	2,455,016.78 usft	Longitude:	-108.103807
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,029.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	5/16/2024	9.08	65.67	50,823.40000000

Design	Design #5			
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	253.60

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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
416.7	5.00	215.00	416.5	-6.0	-4.2	3.00	3.00	0.00	215.00	
601.8	8.35	255.18	600.4	-16.0	-21.8	3.00	1.81	21.70	75.47	
8,602.9	8.35	255.18	8,516.7	-313.1	-1,145.0	0.00	0.00	0.00	0.00	
8,881.2	0.00	0.00	8,794.0	-318.3	-1,164.5	3.00	-3.00	0.00	180.00	21A-13 - OHCR
8,965.9	1.27	240.00	8,878.7	-318.8	-1,165.3	1.50	1.50	-141.63	240.00	
13,432.3	1.27	240.00	13,344.0	-368.3	-1,251.1	0.00	0.00	0.00	0.00	21A-13 - PBHL

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 21A-13-496 - Slot 21A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB=30' @ 8059.0usft (TBD)
Project:	Rio Blanco County, CO	MD Reference:	RKB=30' @ 8059.0usft (TBD)
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 21A-13-496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #5		

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'									
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	1.50	215.00	300.0	-0.5	-0.4	0.5	3.00	3.00	0.00
400.0	4.50	215.00	399.8	-4.8	-3.4	4.6	3.00	3.00	0.00
EOB @ 5.00° Inc. / 215.00° Azm : Build 3° / 100'									
416.7	5.00	215.00	416.5	-6.0	-4.2	5.7	3.00	3.00	0.00
500.0	6.12	238.31	499.4	-11.3	-10.0	12.8	3.00	1.35	27.98
EOB @ 8.35° Inc. / 255.18° Azm									
601.8	8.35	255.18	600.4	-16.0	-21.8	25.4	3.00	2.19	16.57
700.0	8.35	255.18	697.6	-19.7	-35.6	39.7	0.00	0.00	0.00
800.0	8.35	255.18	796.5	-23.4	-49.6	54.2	0.00	0.00	0.00
900.0	8.35	255.18	895.4	-27.1	-63.7	68.7	0.00	0.00	0.00
1,000.0	8.35	255.18	994.4	-30.8	-77.7	83.2	0.00	0.00	0.00
1,100.0	8.35	255.18	1,093.3	-34.5	-91.7	97.7	0.00	0.00	0.00
1,200.0	8.35	255.18	1,192.3	-38.2	-105.8	112.3	0.00	0.00	0.00
1,300.0	8.35	255.18	1,291.2	-41.9	-119.8	126.8	0.00	0.00	0.00
1,400.0	8.35	255.18	1,390.1	-45.6	-133.9	141.3	0.00	0.00	0.00
1,500.0	8.35	255.18	1,489.1	-49.4	-147.9	155.8	0.00	0.00	0.00
1,600.0	8.35	255.18	1,588.0	-53.1	-161.9	170.3	0.00	0.00	0.00
1,700.0	8.35	255.18	1,687.0	-56.8	-176.0	184.8	0.00	0.00	0.00
1,800.0	8.35	255.18	1,785.9	-60.5	-190.0	199.4	0.00	0.00	0.00
1,900.0	8.35	255.18	1,884.8	-64.2	-204.0	213.9	0.00	0.00	0.00
2,000.0	8.35	255.18	1,983.8	-67.9	-218.1	228.4	0.00	0.00	0.00
2,100.0	8.35	255.18	2,082.7	-71.6	-232.1	242.9	0.00	0.00	0.00
2,200.0	8.35	255.18	2,181.7	-75.4	-246.2	257.4	0.00	0.00	0.00
2,300.0	8.35	255.18	2,280.6	-79.1	-260.2	271.9	0.00	0.00	0.00
2,400.0	8.35	255.18	2,379.5	-82.8	-274.2	286.4	0.00	0.00	0.00
2,500.0	8.35	255.18	2,478.5	-86.5	-288.3	301.0	0.00	0.00	0.00
2,600.0	8.35	255.18	2,577.4	-90.2	-302.3	315.5	0.00	0.00	0.00
2,700.0	8.35	255.18	2,676.4	-93.9	-316.3	330.0	0.00	0.00	0.00
2,800.0	8.35	255.18	2,775.3	-97.6	-330.4	344.5	0.00	0.00	0.00
2,900.0	8.35	255.18	2,874.2	-101.3	-344.4	359.0	0.00	0.00	0.00
3,000.0	8.35	255.18	2,973.2	-105.1	-358.5	373.5	0.00	0.00	0.00
3,100.0	8.35	255.18	3,072.1	-108.8	-372.5	388.0	0.00	0.00	0.00
3,200.0	8.35	255.18	3,171.1	-112.5	-386.5	402.6	0.00	0.00	0.00
3,300.0	8.35	255.18	3,270.0	-116.2	-400.6	417.1	0.00	0.00	0.00
3,400.0	8.35	255.18	3,368.9	-119.9	-414.6	431.6	0.00	0.00	0.00
3,500.0	8.35	255.18	3,467.9	-123.6	-428.6	446.1	0.00	0.00	0.00
3,600.0	8.35	255.18	3,566.8	-127.3	-442.7	460.6	0.00	0.00	0.00
3,700.0	8.35	255.18	3,665.8	-131.1	-456.7	475.1	0.00	0.00	0.00
3,800.0	8.35	255.18	3,764.7	-134.8	-470.8	489.7	0.00	0.00	0.00
Wasatch									
3,883.2	8.35	255.18	3,847.0	-137.9	-482.4	501.7	0.00	0.00	0.00
3,900.0	8.35	255.18	3,863.6	-138.5	-484.8	504.2	0.00	0.00	0.00
4,000.0	8.35	255.18	3,962.6	-142.2	-498.8	518.7	0.00	0.00	0.00
4,100.0	8.35	255.18	4,061.5	-145.9	-512.9	533.2	0.00	0.00	0.00
4,200.0	8.35	255.18	4,160.5	-149.6	-526.9	547.7	0.00	0.00	0.00
4,300.0	8.35	255.18	4,259.4	-153.3	-540.9	562.2	0.00	0.00	0.00
4,400.0	8.35	255.18	4,358.3	-157.0	-555.0	576.7	0.00	0.00	0.00
4,500.0	8.35	255.18	4,457.3	-160.8	-569.0	591.3	0.00	0.00	0.00
4,600.0	8.35	255.18	4,556.2	-164.5	-583.1	605.8	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 21A-13-496 - Slot 21A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB=30' @ 8059.0usft (TBD)
Project:	Rio Blanco County, CO	MD Reference:	RKB=30' @ 8059.0usft (TBD)
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 21A-13-496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #5		

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	8.35	255.18	4,655.2	-168.2	-597.1	620.3	0.00	0.00	0.00
4,800.0	8.35	255.18	4,754.1	-171.9	-611.1	634.8	0.00	0.00	0.00
4,900.0	8.35	255.18	4,853.0	-175.6	-625.2	649.3	0.00	0.00	0.00
5,000.0	8.35	255.18	4,952.0	-179.3	-639.2	663.8	0.00	0.00	0.00
5,100.0	8.35	255.18	5,050.9	-183.0	-653.2	678.3	0.00	0.00	0.00
5,200.0	8.35	255.18	5,149.9	-186.8	-667.3	692.9	0.00	0.00	0.00
5,300.0	8.35	255.18	5,248.8	-190.5	-681.3	707.4	0.00	0.00	0.00
5,400.0	8.35	255.18	5,347.7	-194.2	-695.4	721.9	0.00	0.00	0.00
5,500.0	8.35	255.18	5,446.7	-197.9	-709.4	736.4	0.00	0.00	0.00
5,600.0	8.35	255.18	5,545.6	-201.6	-723.4	750.9	0.00	0.00	0.00
5,700.0	8.35	255.18	5,644.6	-205.3	-737.5	765.4	0.00	0.00	0.00
5,800.0	8.35	255.18	5,743.5	-209.0	-751.5	779.9	0.00	0.00	0.00
5,900.0	8.35	255.18	5,842.4	-212.7	-765.5	794.5	0.00	0.00	0.00
6,000.0	8.35	255.18	5,941.4	-216.5	-779.6	809.0	0.00	0.00	0.00
6,100.0	8.35	255.18	6,040.3	-220.2	-793.6	823.5	0.00	0.00	0.00
6,200.0	8.35	255.18	6,139.3	-223.9	-807.7	838.0	0.00	0.00	0.00
6,300.0	8.35	255.18	6,238.2	-227.6	-821.7	852.5	0.00	0.00	0.00
6,400.0	8.35	255.18	6,337.1	-231.3	-835.7	867.0	0.00	0.00	0.00
Wasatch G									
6,460.5	8.35	255.18	6,397.0	-233.6	-844.2	875.8	0.00	0.00	0.00
6,500.0	8.35	255.18	6,436.1	-235.0	-849.8	881.6	0.00	0.00	0.00
6,600.0	8.35	255.18	6,535.0	-238.7	-863.8	896.1	0.00	0.00	0.00
6,700.0	8.35	255.18	6,634.0	-242.5	-877.8	910.6	0.00	0.00	0.00
6,800.0	8.35	255.18	6,732.9	-246.2	-891.9	925.1	0.00	0.00	0.00
Fort Union									
6,874.9	8.35	255.18	6,807.0	-249.0	-902.4	936.0	0.00	0.00	0.00
6,900.0	8.35	255.18	6,831.8	-249.9	-905.9	939.6	0.00	0.00	0.00
7,000.0	8.35	255.18	6,930.8	-253.6	-920.0	954.1	0.00	0.00	0.00
7,100.0	8.35	255.18	7,029.7	-257.3	-934.0	968.6	0.00	0.00	0.00
7,200.0	8.35	255.18	7,128.7	-261.0	-948.0	983.2	0.00	0.00	0.00
7,300.0	8.35	255.18	7,227.6	-264.7	-962.1	997.7	0.00	0.00	0.00
7,400.0	8.35	255.18	7,326.6	-268.4	-976.1	1,012.2	0.00	0.00	0.00
7,500.0	8.35	255.18	7,425.5	-272.2	-990.1	1,026.7	0.00	0.00	0.00
7,600.0	8.35	255.18	7,524.4	-275.9	-1,004.2	1,041.2	0.00	0.00	0.00
7,700.0	8.35	255.18	7,623.4	-279.6	-1,018.2	1,055.7	0.00	0.00	0.00
7,800.0	8.35	255.18	7,722.3	-283.3	-1,032.3	1,070.2	0.00	0.00	0.00
7,900.0	8.35	255.18	7,821.3	-287.0	-1,046.3	1,084.8	0.00	0.00	0.00
8,000.0	8.35	255.18	7,920.2	-290.7	-1,060.3	1,099.3	0.00	0.00	0.00
8,100.0	8.35	255.18	8,019.1	-294.4	-1,074.4	1,113.8	0.00	0.00	0.00
8,200.0	8.35	255.18	8,118.1	-298.2	-1,088.4	1,128.3	0.00	0.00	0.00
8,300.0	8.35	255.18	8,217.0	-301.9	-1,102.4	1,142.8	0.00	0.00	0.00
8,400.0	8.35	255.18	8,316.0	-305.6	-1,116.5	1,157.3	0.00	0.00	0.00
8,500.0	8.35	255.18	8,414.9	-309.3	-1,130.5	1,171.8	0.00	0.00	0.00
Drop 3° /100'									
8,602.9	8.35	255.18	8,516.7	-313.1	-1,145.0	1,186.8	0.00	0.00	0.00
8,700.0	5.44	255.18	8,613.1	-316.1	-1,156.2	1,198.4	3.00	-3.00	0.00
8,800.0	2.44	255.18	8,712.8	-317.9	-1,162.9	1,205.3	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,881.2	0.00	0.00	8,794.0	-318.3	-1,164.5	1,207.0	3.00	-3.00	0.00
8,900.0	0.28	240.00	8,812.8	-318.3	-1,164.6	1,207.1	1.50	1.50	0.00
EOB @ 1.27° Inc. / 240.00° Azm									
8,965.9	1.27	240.00	8,878.7	-318.8	-1,165.3	1,207.9	1.50	1.50	0.00
9,000.0	1.27	240.00	8,912.8	-319.1	-1,166.0	1,208.7	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 21A-13-496 - Slot 21A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB=30' @ 8059.0usft (TBD)
Project:	Rio Blanco County, CO	MD Reference:	RKB=30' @ 8059.0usft (TBD)
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 21A-13-496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #5		

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)
9,100.0	1.27	240.00	9,012.8	-320.3	-1,167.9	1,210.8	0.00	0.00	0.00
9,200.0	1.27	240.00	9,112.8	-321.4	-1,169.8	1,213.0	0.00	0.00	0.00
9,300.0	1.27	240.00	9,212.7	-322.5	-1,171.8	1,215.1	0.00	0.00	0.00
9,400.0	1.27	240.00	9,312.7	-323.6	-1,173.7	1,217.3	0.00	0.00	0.00
9,500.0	1.27	240.00	9,412.7	-324.7	-1,175.6	1,219.4	0.00	0.00	0.00
Williams Fork									
9,531.3	1.27	240.00	9,444.0	-325.0	-1,176.2	1,220.1	0.00	0.00	0.00
9,600.0	1.27	240.00	9,512.7	-325.8	-1,177.5	1,221.6	0.00	0.00	0.00
9,700.0	1.27	240.00	9,612.6	-326.9	-1,179.4	1,223.8	0.00	0.00	0.00
9,800.0	1.27	240.00	9,712.6	-328.0	-1,181.4	1,225.9	0.00	0.00	0.00
9,900.0	1.27	240.00	9,812.6	-329.1	-1,183.3	1,228.1	0.00	0.00	0.00
10,000.0	1.27	240.00	9,912.6	-330.2	-1,185.2	1,230.2	0.00	0.00	0.00
10,100.0	1.27	240.00	10,012.5	-331.3	-1,187.1	1,232.4	0.00	0.00	0.00
10,200.0	1.27	240.00	10,112.5	-332.4	-1,189.0	1,234.5	0.00	0.00	0.00
10,300.0	1.27	240.00	10,212.5	-333.6	-1,191.0	1,236.7	0.00	0.00	0.00
10,400.0	1.27	240.00	10,312.5	-334.7	-1,192.9	1,238.8	0.00	0.00	0.00
10,500.0	1.27	240.00	10,412.4	-335.8	-1,194.8	1,241.0	0.00	0.00	0.00
10,600.0	1.27	240.00	10,512.4	-336.9	-1,196.7	1,243.2	0.00	0.00	0.00
10,700.0	1.27	240.00	10,612.4	-338.0	-1,198.7	1,245.3	0.00	0.00	0.00
10,800.0	1.27	240.00	10,712.4	-339.1	-1,200.6	1,247.5	0.00	0.00	0.00
10,900.0	1.27	240.00	10,812.3	-340.2	-1,202.5	1,249.6	0.00	0.00	0.00
11,000.0	1.27	240.00	10,912.3	-341.3	-1,204.4	1,251.8	0.00	0.00	0.00
11,100.0	1.27	240.00	11,012.3	-342.4	-1,206.3	1,253.9	0.00	0.00	0.00
11,200.0	1.27	240.00	11,112.3	-343.5	-1,208.3	1,256.1	0.00	0.00	0.00
11,300.0	1.27	240.00	11,212.2	-344.6	-1,210.2	1,258.2	0.00	0.00	0.00
11,400.0	1.27	240.00	11,312.2	-345.8	-1,212.1	1,260.4	0.00	0.00	0.00
11,500.0	1.27	240.00	11,412.2	-346.9	-1,214.0	1,262.6	0.00	0.00	0.00
11,600.0	1.27	240.00	11,512.2	-348.0	-1,215.9	1,264.7	0.00	0.00	0.00
11,700.0	1.27	240.00	11,612.1	-349.1	-1,217.9	1,266.9	0.00	0.00	0.00
11,800.0	1.27	240.00	11,712.1	-350.2	-1,219.8	1,269.0	0.00	0.00	0.00
11,900.0	1.27	240.00	11,812.1	-351.3	-1,221.7	1,271.2	0.00	0.00	0.00
12,000.0	1.27	240.00	11,912.1	-352.4	-1,223.6	1,273.3	0.00	0.00	0.00
12,100.0	1.27	240.00	12,012.0	-353.5	-1,225.5	1,275.5	0.00	0.00	0.00
12,200.0	1.27	240.00	12,112.0	-354.6	-1,227.5	1,277.6	0.00	0.00	0.00
12,300.0	1.27	240.00	12,212.0	-355.7	-1,229.4	1,279.8	0.00	0.00	0.00
12,400.0	1.27	240.00	12,312.0	-356.8	-1,231.3	1,282.0	0.00	0.00	0.00
Cameo									
12,432.0	1.27	240.00	12,344.0	-357.2	-1,231.9	1,282.6	0.00	0.00	0.00
12,500.0	1.27	240.00	12,411.9	-358.0	-1,233.2	1,284.1	0.00	0.00	0.00
12,600.0	1.27	240.00	12,511.9	-359.1	-1,235.1	1,286.3	0.00	0.00	0.00
12,700.0	1.27	240.00	12,611.9	-360.2	-1,237.1	1,288.4	0.00	0.00	0.00
12,800.0	1.27	240.00	12,711.9	-361.3	-1,239.0	1,290.6	0.00	0.00	0.00
12,900.0	1.27	240.00	12,811.8	-362.4	-1,240.9	1,292.7	0.00	0.00	0.00
Rollins									
12,932.2	1.27	240.00	12,844.0	-362.7	-1,241.5	1,293.4	0.00	0.00	0.00
13,000.0	1.27	240.00	12,911.8	-363.5	-1,242.8	1,294.9	0.00	0.00	0.00
13,100.0	1.27	240.00	13,011.8	-364.6	-1,244.7	1,297.0	0.00	0.00	0.00
13,200.0	1.27	240.00	13,111.8	-365.7	-1,246.7	1,299.2	0.00	0.00	0.00
13,300.0	1.27	240.00	13,211.7	-366.8	-1,248.6	1,301.4	0.00	0.00	0.00
13,400.0	1.27	240.00	13,311.7	-367.9	-1,250.5	1,303.5	0.00	0.00	0.00
TD @ 13432.3' MD / 13344.0' TVD									
13,432.3	1.27	240.00	13,344.0	-368.3	-1,251.1	1,304.2	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 21A-13-496 - Slot 21A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB=30' @ 8059.0usft (TBD)
Project:	Rio Blanco County, CO	MD Reference:	RKB=30' @ 8059.0usft (TBD)
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 21A-13-496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #5		

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-13 - OHCR	0.00	0.00	8,794.0	-318.3	-1,164.5	14,432,876.87	2,453,863.15	39.708096	-108.107945
- plan hits target center									
- Point									
21A-13 - PBHL	0.00	0.00	13,344.0	-368.3	-1,251.1	14,432,824.10	2,453,778.20	39.707958	-108.108252
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 240.00 azi)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,883.2	3,847.0	Wasatch				
6,460.5	6,397.0	Wasatch G				
6,874.9	6,807.0	Fort Union				
8,881.2	8,794.0	Ohio Creek				
9,531.3	9,444.0	Williams Fork				
12,432.0	12,344.0	Cameo				
12,932.2	12,844.0	Rollins				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
250.0	250.0	0.0	0.0	Build 3° / 100'
416.7	416.5	-6.0	-4.2	EOB @ 5.00° Inc. / 215.00° Azm : Build 3° / 100'
601.8	600.4	-16.0	-21.8	EOB @ 8.35° Inc. / 255.18° Azm
8,602.9	8,516.7	-313.1	-1,145.0	Drop 3° /100'
8,881.2	8,794.0	-318.3	-1,164.5	EOD @ Vertical / Build 1.5° / 100'
8,965.9	8,878.7	-318.8	-1,165.3	EOB @ 1.27° Inc. / 240.00° Azm
13,432.3	13,344.0	-368.3	-1,251.1	TD @ 13432.3' MD / 13344.0' TVD