

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 11B-18-495
Wellbore: OH
Design: Design #5
Latitude: 39.709045
Longitude: -108.104077
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 - 11B-18(0.0N, 0.0E)
Measured Depth Reference: RKB=30' @ 8059.0usft (TBD)
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3968.0	4152.5	Wasatch
6518.0	6846.2	Wasatch G
6928.0	7279.3	Fort Union
8960.0	9400.6	Ohio Creek
9616.0	10058.8	Williams Fork
12516.0	12959.5	Cameo
13016.0	13459.6	Rollins

SECTION DETAILS

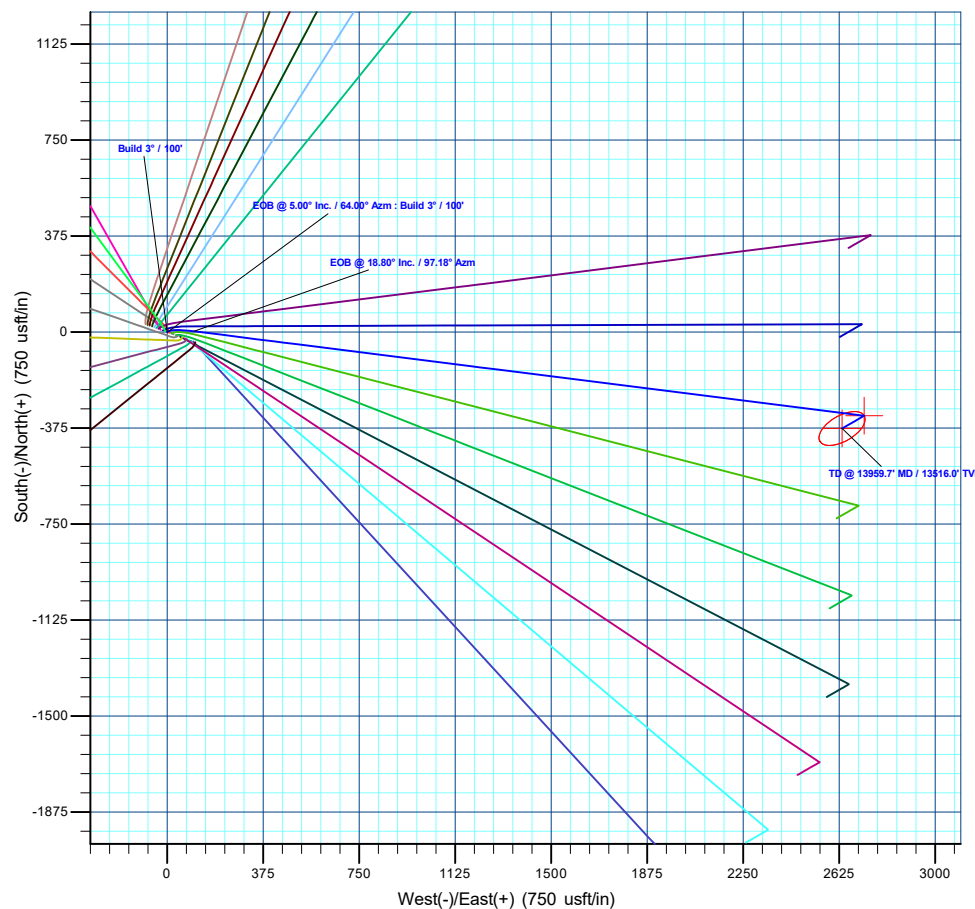
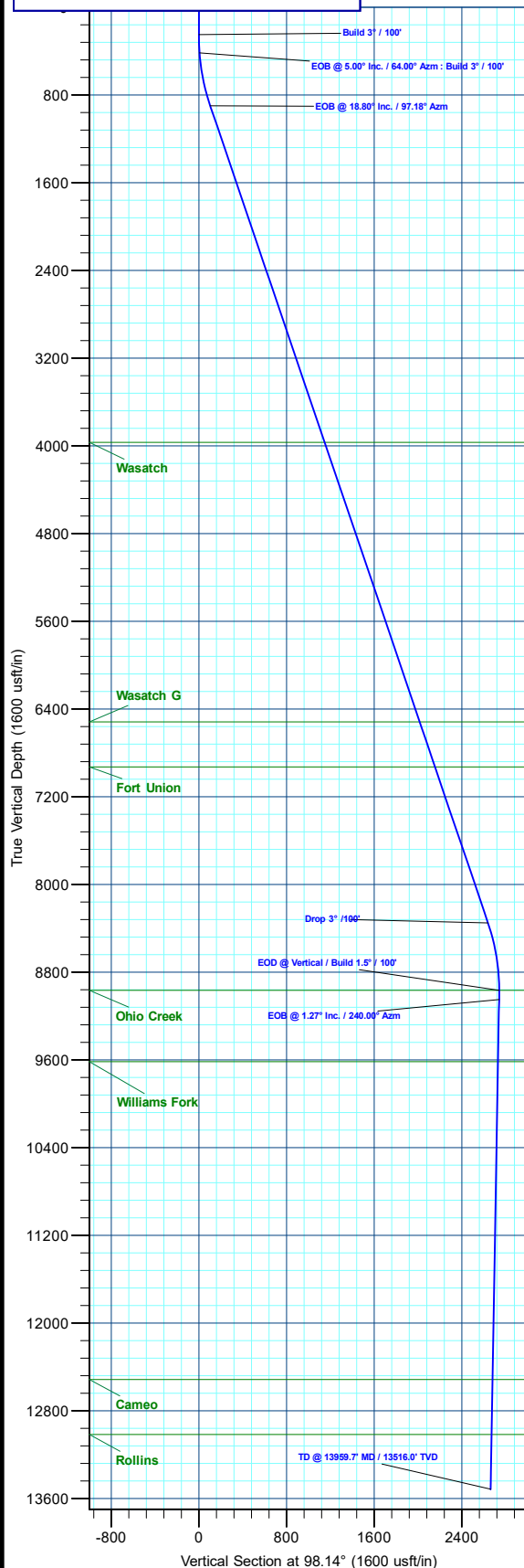
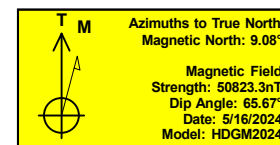
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
416.7	5.00	64.00	416.5	3.2	6.5	3.00	64.00	6.0	EOB @ 5.00° Inc. / 64.00° Azm : Build 3° / 100'
912.0	18.80	97.18	900.3	2.7	105.7	3.00	43.45	104.2	EOB @ 18.80° Inc. / 97.18° Azm
8782.0	18.80	97.18	8350.6	-314.3	2621.9	0.00	0.00	2639.9	Drop 3° / 100'
9408.6	0.00	0.00	8966.0	-327.0	2722.9	3.00	180.00	2741.8	EOD @ Vertical / Build 1.5° / 100'
9493.4	1.27	240.00	9050.7	-327.5	2722.1	1.50	240.00	2741.1	EOB @ 1.27° Inc. / 240.00° Azm
13959.7	1.27	240.00	13516.0	-377.0	2636.3	0.00	0.00	2663.1	TD @ 13959.7 MD / 13516.0° TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
11B-18 - OHCR	8966.0	-327.0	2722.9	14433018.87	2457671.84	39.708147	-108.094403
11B-18 - PBHL	13516.0	-377.0	2636.3	14432966.10	2457586.90	39.708010	-108.094711

WELL DETAILS: ELU A18 FED 11B-18-495

+N/-S	+E/-W	Ground Level : 8029.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14433257.72	2454939.77	39.709045	-108.104077



Plan: Design #5 (ELU A18 FED 11B-18-495/OH)

Created By: Will Jircik

Date: 20:39, June 09 2024



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 11B-18-495 - Slot 11B-18

OH

Plan: Design #5

KLX Well Planning Report

09 June, 2024



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 11B-18-495 - Slot 11B-18
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 11B-18-495	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 11B-18-495 - Slot 11B-18					
Well Position	+N/-S	-30.6 usft	Northing:	14,433,257.72 usft	Latitude:	39.709045
	+E/-W	84.6 usft	Easting:	2,454,939.77 usft	Longitude:	-108.104078
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	50,823.30000000

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	98.14

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	64.00	416.5	3.2	6.5	3.00	3.00	0.00	64.00	
912.0	18.80	97.18	900.3	2.7	105.7	3.00	2.79	6.70	43.45	
8,782.0	18.80	97.18	8,350.6	-314.3	2,621.9	0.00	0.00	0.00	0.00	
9,408.6	0.00	0.00	8,966.0	-327.0	2,722.9	3.00	-3.00	0.00	180.00	11B-18 - OHCR
9,493.4	1.27	240.00	9,050.7	-327.5	2,722.1	1.50	1.50	-141.63	240.00	
13,959.7	1.27	240.00	13,516.0	-377.0	2,636.3	0.00	0.00	0.00	0.00	11B-18 - PBHL

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 11B-18-495 - Slot 11B-18
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 11B-18-495	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	64.00	300.0	0.3	0.6	0.5	3.00	3.00	0.00
400.0	4.50	64.00	399.8	2.6	5.3	4.9	3.00	3.00	0.00
EOB @ 5.00° Inc. / 64.00° Azm : Build 3° / 100'									
416.7	5.00	64.00	416.5	3.2	6.5	6.0	3.00	3.00	0.00
500.0	7.03	78.19	499.3	5.8	14.8	13.8	3.00	2.43	17.03
600.0	9.75	86.90	598.3	7.5	29.2	27.9	3.00	2.73	8.70
700.0	12.60	91.76	696.3	7.7	48.6	47.0	3.00	2.85	4.87
800.0	15.51	94.84	793.3	6.2	72.8	71.2	3.00	2.91	3.08
900.0	18.45	96.97	889.0	3.1	101.9	100.4	3.00	2.94	2.12
EOB @ 18.80° Inc. / 97.18° Azm									
912.0	18.80	97.18	900.3	2.7	105.7	104.2	3.00	2.95	1.76
1,000.0	18.80	97.18	983.7	-0.9	133.8	132.6	0.00	0.00	0.00
1,100.0	18.80	97.18	1,078.3	-4.9	165.8	164.8	0.00	0.00	0.00
1,200.0	18.80	97.18	1,173.0	-8.9	197.8	197.0	0.00	0.00	0.00
1,300.0	18.80	97.18	1,267.7	-13.0	229.7	229.2	0.00	0.00	0.00
1,400.0	18.80	97.18	1,362.3	-17.0	261.7	261.5	0.00	0.00	0.00
1,500.0	18.80	97.18	1,457.0	-21.0	293.7	293.7	0.00	0.00	0.00
1,600.0	18.80	97.18	1,551.6	-25.0	325.6	325.9	0.00	0.00	0.00
1,700.0	18.80	97.18	1,646.3	-29.1	357.6	358.1	0.00	0.00	0.00
1,800.0	18.80	97.18	1,741.0	-33.1	389.6	390.3	0.00	0.00	0.00
1,900.0	18.80	97.18	1,835.6	-37.1	421.6	422.6	0.00	0.00	0.00
2,000.0	18.80	97.18	1,930.3	-41.1	453.5	454.8	0.00	0.00	0.00
2,100.0	18.80	97.18	2,025.0	-45.2	485.5	487.0	0.00	0.00	0.00
2,200.0	18.80	97.18	2,119.6	-49.2	517.5	519.2	0.00	0.00	0.00
2,300.0	18.80	97.18	2,214.3	-53.2	549.4	551.4	0.00	0.00	0.00
2,400.0	18.80	97.18	2,309.0	-57.3	581.4	583.7	0.00	0.00	0.00
2,500.0	18.80	97.18	2,403.6	-61.3	613.4	615.9	0.00	0.00	0.00
2,600.0	18.80	97.18	2,498.3	-65.3	645.4	648.1	0.00	0.00	0.00
2,700.0	18.80	97.18	2,593.0	-69.3	677.3	680.3	0.00	0.00	0.00
2,800.0	18.80	97.18	2,687.6	-73.4	709.3	712.5	0.00	0.00	0.00
2,900.0	18.80	97.18	2,782.3	-77.4	741.3	744.8	0.00	0.00	0.00
3,000.0	18.80	97.18	2,877.0	-81.4	773.2	777.0	0.00	0.00	0.00
3,100.0	18.80	97.18	2,971.6	-85.4	805.2	809.2	0.00	0.00	0.00
3,200.0	18.80	97.18	3,066.3	-89.5	837.2	841.4	0.00	0.00	0.00
3,300.0	18.80	97.18	3,161.0	-93.5	869.2	873.6	0.00	0.00	0.00
3,400.0	18.80	97.18	3,255.6	-97.5	901.1	905.9	0.00	0.00	0.00
3,500.0	18.80	97.18	3,350.3	-101.5	933.1	938.1	0.00	0.00	0.00
3,600.0	18.80	97.18	3,445.0	-105.6	965.1	970.3	0.00	0.00	0.00
3,700.0	18.80	97.18	3,539.6	-109.6	997.0	1,002.5	0.00	0.00	0.00
3,800.0	18.80	97.18	3,634.3	-113.6	1,029.0	1,034.7	0.00	0.00	0.00
3,900.0	18.80	97.18	3,729.0	-117.7	1,061.0	1,067.0	0.00	0.00	0.00
4,000.0	18.80	97.18	3,823.6	-121.7	1,093.0	1,099.2	0.00	0.00	0.00
4,100.0	18.80	97.18	3,918.3	-125.7	1,124.9	1,131.4	0.00	0.00	0.00
Wasatch									
4,152.5	18.80	97.18	3,968.0	-127.8	1,141.7	1,148.3	0.00	0.00	0.00
4,200.0	18.80	97.18	4,013.0	-129.7	1,156.9	1,163.6	0.00	0.00	0.00
4,300.0	18.80	97.18	4,107.6	-133.8	1,188.9	1,195.8	0.00	0.00	0.00
4,400.0	18.80	97.18	4,202.3	-137.8	1,220.8	1,228.1	0.00	0.00	0.00
4,500.0	18.80	97.18	4,297.0	-141.8	1,252.8	1,260.3	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 11B-18-495 - Slot 11B-18
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 11B-18-495	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)
4,600.0	18.80	97.18	4,391.6	-145.8	1,284.8	1,292.5	0.00	0.00	0.00
4,700.0	18.80	97.18	4,486.3	-149.9	1,316.8	1,324.7	0.00	0.00	0.00
4,800.0	18.80	97.18	4,581.0	-153.9	1,348.7	1,356.9	0.00	0.00	0.00
4,900.0	18.80	97.18	4,675.6	-157.9	1,380.7	1,389.2	0.00	0.00	0.00
5,000.0	18.80	97.18	4,770.3	-162.0	1,412.7	1,421.4	0.00	0.00	0.00
5,100.0	18.80	97.18	4,864.9	-166.0	1,444.6	1,453.6	0.00	0.00	0.00
5,200.0	18.80	97.18	4,959.6	-170.0	1,476.6	1,485.8	0.00	0.00	0.00
5,300.0	18.80	97.18	5,054.3	-174.0	1,508.6	1,518.0	0.00	0.00	0.00
5,400.0	18.80	97.18	5,148.9	-178.1	1,540.6	1,550.3	0.00	0.00	0.00
5,500.0	18.80	97.18	5,243.6	-182.1	1,572.5	1,582.5	0.00	0.00	0.00
5,600.0	18.80	97.18	5,338.3	-186.1	1,604.5	1,614.7	0.00	0.00	0.00
5,700.0	18.80	97.18	5,432.9	-190.1	1,636.5	1,646.9	0.00	0.00	0.00
5,800.0	18.80	97.18	5,527.6	-194.2	1,668.5	1,679.1	0.00	0.00	0.00
5,900.0	18.80	97.18	5,622.3	-198.2	1,700.4	1,711.4	0.00	0.00	0.00
6,000.0	18.80	97.18	5,716.9	-202.2	1,732.4	1,743.6	0.00	0.00	0.00
6,100.0	18.80	97.18	5,811.6	-206.2	1,764.4	1,775.8	0.00	0.00	0.00
6,200.0	18.80	97.18	5,906.3	-210.3	1,796.3	1,808.0	0.00	0.00	0.00
6,300.0	18.80	97.18	6,000.9	-214.3	1,828.3	1,840.2	0.00	0.00	0.00
6,400.0	18.80	97.18	6,095.6	-218.3	1,860.3	1,872.5	0.00	0.00	0.00
6,500.0	18.80	97.18	6,190.3	-222.4	1,892.3	1,904.7	0.00	0.00	0.00
6,600.0	18.80	97.18	6,284.9	-226.4	1,924.2	1,936.9	0.00	0.00	0.00
6,700.0	18.80	97.18	6,379.6	-230.4	1,956.2	1,969.1	0.00	0.00	0.00
6,800.0	18.80	97.18	6,474.3	-234.4	1,988.2	2,001.3	0.00	0.00	0.00
Wasatch G									
6,846.2	18.80	97.18	6,518.0	-236.3	2,002.9	2,016.2	0.00	0.00	0.00
6,900.0	18.80	97.18	6,568.9	-238.5	2,020.1	2,033.6	0.00	0.00	0.00
7,000.0	18.80	97.18	6,663.6	-242.5	2,052.1	2,065.8	0.00	0.00	0.00
7,100.0	18.80	97.18	6,758.3	-246.5	2,084.1	2,098.0	0.00	0.00	0.00
7,200.0	18.80	97.18	6,852.9	-250.5	2,116.1	2,130.2	0.00	0.00	0.00
Fort Union									
7,279.3	18.80	97.18	6,928.0	-253.7	2,141.4	2,155.8	0.00	0.00	0.00
7,300.0	18.80	97.18	6,947.6	-254.6	2,148.0	2,162.4	0.00	0.00	0.00
7,400.0	18.80	97.18	7,042.3	-258.6	2,180.0	2,194.7	0.00	0.00	0.00
7,500.0	18.80	97.18	7,136.9	-262.6	2,212.0	2,226.9	0.00	0.00	0.00
7,600.0	18.80	97.18	7,231.6	-266.7	2,243.9	2,259.1	0.00	0.00	0.00
7,700.0	18.80	97.18	7,326.3	-270.7	2,275.9	2,291.3	0.00	0.00	0.00
7,800.0	18.80	97.18	7,420.9	-274.7	2,307.9	2,323.5	0.00	0.00	0.00
7,900.0	18.80	97.18	7,515.6	-278.7	2,339.9	2,355.7	0.00	0.00	0.00
8,000.0	18.80	97.18	7,610.3	-282.8	2,371.8	2,388.0	0.00	0.00	0.00
8,100.0	18.80	97.18	7,704.9	-286.8	2,403.8	2,420.2	0.00	0.00	0.00
8,200.0	18.80	97.18	7,799.6	-290.8	2,435.8	2,452.4	0.00	0.00	0.00
8,300.0	18.80	97.18	7,894.3	-294.8	2,467.7	2,484.6	0.00	0.00	0.00
8,400.0	18.80	97.18	7,988.9	-298.9	2,499.7	2,516.8	0.00	0.00	0.00
8,500.0	18.80	97.18	8,083.6	-302.9	2,531.7	2,549.1	0.00	0.00	0.00
8,600.0	18.80	97.18	8,178.2	-306.9	2,563.7	2,581.3	0.00	0.00	0.00
8,700.0	18.80	97.18	8,272.9	-310.9	2,595.6	2,613.5	0.00	0.00	0.00
Drop 3° /100'									
8,782.0	18.80	97.18	8,350.6	-314.3	2,621.9	2,639.9	0.00	0.00	0.00
8,800.0	18.26	97.18	8,367.6	-315.0	2,627.5	2,645.6	3.00	-3.00	0.00
8,900.0	15.26	97.18	8,463.3	-318.6	2,656.1	2,674.5	3.00	-3.00	0.00
9,000.0	12.26	97.18	8,560.5	-321.5	2,679.7	2,698.3	3.00	-3.00	0.00
9,100.0	9.26	97.18	8,658.7	-323.9	2,698.2	2,716.9	3.00	-3.00	0.00
9,200.0	6.26	97.18	8,757.8	-325.6	2,711.6	2,730.4	3.00	-3.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 11B-18-495 - Slot 11B-18
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 11B-18-495	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)
9,300.0	3.26	97.18	8,857.4	-326.6	2,719.9	2,738.7	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
9,408.6	0.00	0.00	8,966.0	-327.0	2,722.9	2,741.8	3.00	-3.00	0.00
EOB @ 1.27° Inc. / 240.00° Azm									
9,493.4	1.27	240.00	9,050.7	-327.5	2,722.1	2,741.1	1.50	1.50	0.00
9,500.0	1.27	240.00	9,057.3	-327.5	2,722.0	2,740.9	0.00	0.00	0.00
9,600.0	1.27	240.00	9,157.3	-328.6	2,720.1	2,739.2	0.00	0.00	0.00
9,700.0	1.27	240.00	9,257.3	-329.7	2,718.1	2,737.5	0.00	0.00	0.00
9,800.0	1.27	240.00	9,357.3	-330.9	2,716.2	2,735.7	0.00	0.00	0.00
9,900.0	1.27	240.00	9,457.3	-332.0	2,714.3	2,734.0	0.00	0.00	0.00
10,000.0	1.27	240.00	9,557.2	-333.1	2,712.4	2,732.2	0.00	0.00	0.00
Williams Fork									
10,058.8	1.27	240.00	9,616.0	-333.7	2,711.3	2,731.2	0.00	0.00	0.00
10,100.0	1.27	240.00	9,657.2	-334.2	2,710.5	2,730.5	0.00	0.00	0.00
10,200.0	1.27	240.00	9,757.2	-335.3	2,708.5	2,728.7	0.00	0.00	0.00
10,300.0	1.27	240.00	9,857.2	-336.4	2,706.6	2,727.0	0.00	0.00	0.00
10,400.0	1.27	240.00	9,957.1	-337.5	2,704.7	2,725.2	0.00	0.00	0.00
10,500.0	1.27	240.00	10,057.1	-338.6	2,702.8	2,723.5	0.00	0.00	0.00
10,600.0	1.27	240.00	10,157.1	-339.7	2,700.9	2,721.8	0.00	0.00	0.00
10,700.0	1.27	240.00	10,257.1	-340.8	2,698.9	2,720.0	0.00	0.00	0.00
10,800.0	1.27	240.00	10,357.0	-341.9	2,697.0	2,718.3	0.00	0.00	0.00
10,900.0	1.27	240.00	10,457.0	-343.1	2,695.1	2,716.5	0.00	0.00	0.00
11,000.0	1.27	240.00	10,557.0	-344.2	2,693.2	2,714.8	0.00	0.00	0.00
11,100.0	1.27	240.00	10,657.0	-345.3	2,691.3	2,713.0	0.00	0.00	0.00
11,200.0	1.27	240.00	10,756.9	-346.4	2,689.3	2,711.3	0.00	0.00	0.00
11,300.0	1.27	240.00	10,856.9	-347.5	2,687.4	2,709.5	0.00	0.00	0.00
11,400.0	1.27	240.00	10,956.9	-348.6	2,685.5	2,707.8	0.00	0.00	0.00
11,500.0	1.27	240.00	11,056.9	-349.7	2,683.6	2,706.1	0.00	0.00	0.00
11,600.0	1.27	240.00	11,156.8	-350.8	2,681.7	2,704.3	0.00	0.00	0.00
11,700.0	1.27	240.00	11,256.8	-351.9	2,679.7	2,702.6	0.00	0.00	0.00
11,800.0	1.27	240.00	11,356.8	-353.0	2,677.8	2,700.8	0.00	0.00	0.00
11,900.0	1.27	240.00	11,456.8	-354.1	2,675.9	2,699.1	0.00	0.00	0.00
12,000.0	1.27	240.00	11,556.7	-355.2	2,674.0	2,697.3	0.00	0.00	0.00
12,100.0	1.27	240.00	11,656.7	-356.4	2,672.0	2,695.6	0.00	0.00	0.00
12,200.0	1.27	240.00	11,756.7	-357.5	2,670.1	2,693.8	0.00	0.00	0.00
12,300.0	1.27	240.00	11,856.7	-358.6	2,668.2	2,692.1	0.00	0.00	0.00
12,400.0	1.27	240.00	11,956.6	-359.7	2,666.3	2,690.4	0.00	0.00	0.00
12,500.0	1.27	240.00	12,056.6	-360.8	2,664.4	2,688.6	0.00	0.00	0.00
12,600.0	1.27	240.00	12,156.6	-361.9	2,662.4	2,686.9	0.00	0.00	0.00
12,700.0	1.27	240.00	12,256.6	-363.0	2,660.5	2,685.1	0.00	0.00	0.00
12,800.0	1.27	240.00	12,356.5	-364.1	2,658.6	2,683.4	0.00	0.00	0.00
12,900.0	1.27	240.00	12,456.5	-365.2	2,656.7	2,681.6	0.00	0.00	0.00
Cameo									
12,959.5	1.27	240.00	12,516.0	-365.9	2,655.5	2,680.6	0.00	0.00	0.00
13,000.0	1.27	240.00	12,556.5	-366.3	2,654.8	2,679.9	0.00	0.00	0.00
13,100.0	1.27	240.00	12,656.5	-367.4	2,652.8	2,678.1	0.00	0.00	0.00
13,200.0	1.27	240.00	12,756.4	-368.6	2,650.9	2,676.4	0.00	0.00	0.00
13,300.0	1.27	240.00	12,856.4	-369.7	2,649.0	2,674.7	0.00	0.00	0.00
13,400.0	1.27	240.00	12,956.4	-370.8	2,647.1	2,672.9	0.00	0.00	0.00
Rollins									
13,459.6	1.27	240.00	13,016.0	-371.4	2,645.9	2,671.9	0.00	0.00	0.00
13,500.0	1.27	240.00	13,056.4	-371.9	2,645.2	2,671.2	0.00	0.00	0.00
13,600.0	1.27	240.00	13,156.3	-373.0	2,643.2	2,669.4	0.00	0.00	0.00
13,700.0	1.27	240.00	13,256.3	-374.1	2,641.3	2,667.7	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 11B-18-495 - Slot 11B-18
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 11B-18-495	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)
13,800.0	1.27	240.00	13,356.3	-375.2	2,639.4	2,665.9	0.00	0.00	0.00
13,900.0	1.27	240.00	13,456.3	-376.3	2,637.5	2,664.2	0.00	0.00	0.00
TD @ 13959.7' MD / 13516.0' TVD									
13,959.7	1.27	240.00	13,516.0	-377.0	2,636.3	2,663.1	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
11B-18 - OHCR - plan hits target center - Point	0.00	0.00	8,966.0	-327.0	2,722.9	14,433,018.87	2,457,671.85	39.708147	-108.094403
11B-18 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,516.0	-377.0	2,636.3	14,432,966.10	2,457,586.90	39.708010	-108.094711

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,152.5	3,968.0	Wasatch				
6,846.2	6,518.0	Wasatch G				
7,279.3	6,928.0	Fort Union				
9,408.6	8,966.0	Ohio Creek				
10,058.8	9,616.0	Williams Fork				
12,959.5	12,516.0	Cameo				
13,459.6	13,016.0	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	3.2	6.5	EOB @ 5.00° Inc. / 64.00° Azm : Build 3° / 100'
912.0	900.3	2.7	105.7	EOB @ 18.80° Inc. / 97.18° Azm
8,782.0	8,350.6	-314.3	2,621.9	Drop 3° / 100'
9,408.6	8,966.0	-327.0	2,722.9	EOD @ Vertical / Build 1.5° / 100'
9,493.4	9,050.7	-327.5	2,722.1	EOB @ 1.27° Inc. / 240.00° Azm
13,959.7	13,516.0	-377.0	2,636.3	TD @ 13959.7' MD / 13516.0' TVD