

Project: Rio Blanco County, CO  
Site: ELU A18 495 Pad  
Well: ELU A18 FED 11D-18-495  
Wellbore: OH  
Design: Design #5  
Latitude: 39.709011  
Longitude: -108.103957  
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 - 11D-18(0.0N, 0.0E)  
Measured Depth Reference: RKB=30' @ 8059.0usft (TBD)  
Calculation Method: Minimum Curvature

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3935.0	4130.7	Wasatch
6485.0	6838.3	Wasatch G
6895.0	7273.6	Fort Union
8921.0	9397.9	Ohio Creek
9571.0	10048.1	Williams Fork
12471.0	12948.8	Cameo
12971.0	13448.9	Rollins

## SECTION DETAILS

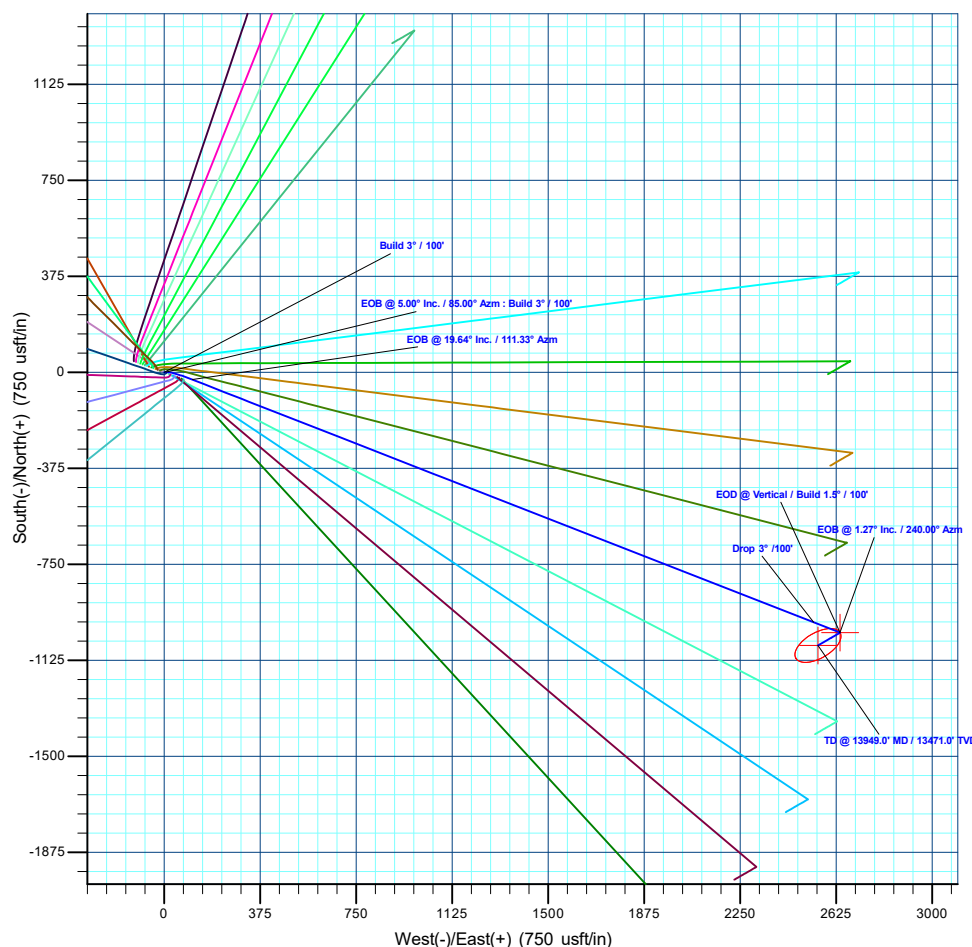
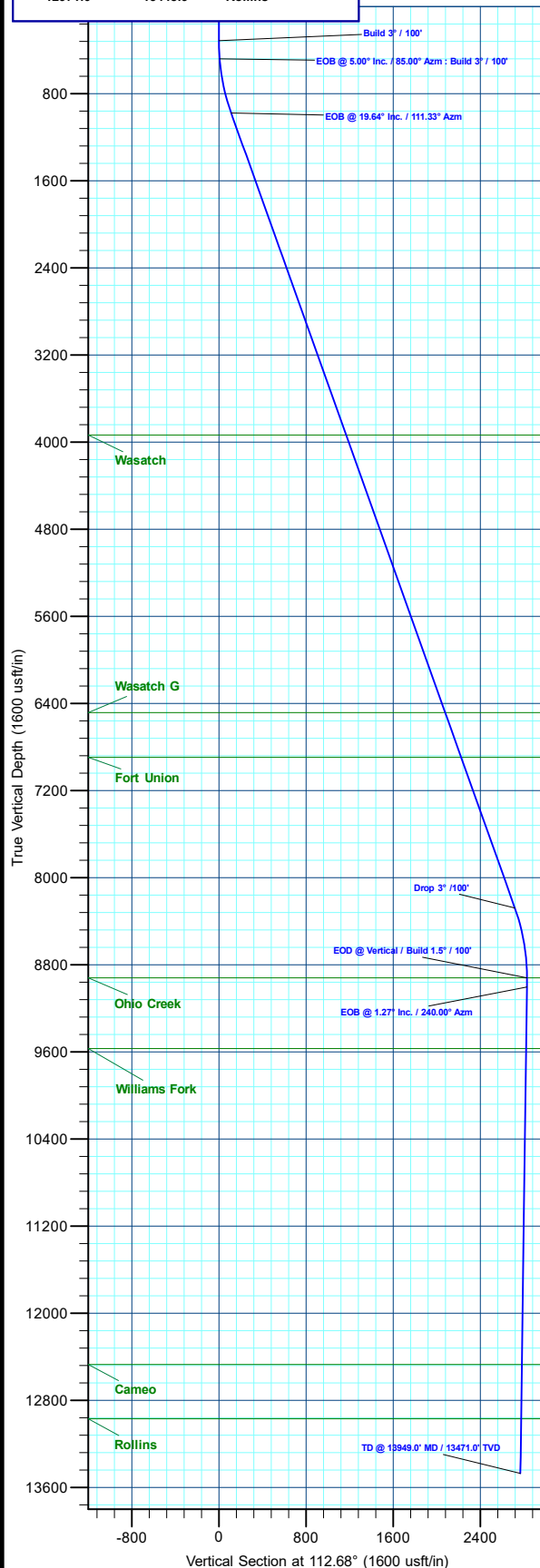
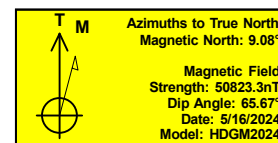
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
315.0	0.00	0.00	315.0	0.0	0.0	0.00	0.00	0.0	Build 3' / 100'
481.7	5.00	85.00	481.5	0.6	7.2	3.00	85.00	6.4	EOB @ 5.00° Inc. / 85.00° Azm : Build 3' / 100'
992.2	19.64	111.33	979.2	-28.8	110.0	3.00	34.37	112.6	EOB @ 19.64° Inc. / 111.33° Azm
8743.1	19.64	111.33	8279.0	-976.7	2537.0	0.00	0.00	2717.5	Drop 3' / 100'
9397.9	0.00	0.00	8921.0	-1017.1	2640.6	3.00	180.00	2828.6	EOD @ Vertical / Build 1.5' / 100'
9482.6	1.27	240.00	9005.7	-1017.6	2639.7	1.50	240.00	2828.0	EOB @ 1.27° Inc. / 240.00° Azm
13949.0	1.27	240.00	13471.0	-1067.1	2554.0	0.00	0.00	2767.9	TD @ 13949.0' MD / 13471.0' TVD

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
11D-18 - OHCR	8921.0	-1017.1	2640.6	14432315.27	2457646.04	39.706220	-108.094576
11D-18 - PBHL	13471.0	-1067.1	2554.0	14432262.50	2457561.10	39.706082	-108.094884

## WELL DETAILS: ELU A18 FED 11D-18-495

Ground Level : 8029.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	14433246.57	2454974.00	39.709011	-108.103957	11D-18	



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

Created By: Will Jircik

Date: 20:48, June 09 2024



## **Caerus Oil & Gas**

**Rio Blanco County, CO**

**ELU A18 495 Pad**

**ELU A18 FED 11D-18-495 - Slot 11D-18**

**OH**

**Plan: Design #5**

## **KLX Well Planning Report**

**09 June, 2024**



<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 11D-18-495 - Slot 11D-18
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Site:</b>	ELU A18 495 Pad	<b>North Reference:</b>	True
<b>Well:</b>	ELU A18 FED 11D-18-495	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Design #5		

<b>Project</b>	Rio Blanco County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	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 11D-18-495 - Slot 11D-18				
Well Position	+N/-S	-42.9 usft	Northing:	14,433,246.57 usft	Latitude:	39.709011
	+E/-W	118.5 usft	Easting:	2,454,974.00 usft	Longitude:	-108.103957
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,029.0 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2024	5/16/2024	9.08	65.67	50,823.30000000

<b>Design</b>	Design #5			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	112.68

<b>Plan Sections</b>										
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	
315.0	0.00	0.00	315.0	0.0	0.0	0.00	0.00	0.00	0.00	
481.7	5.00	85.00	481.5	0.6	7.2	3.00	3.00	0.00	85.00	
992.2	19.64	111.33	979.2	-28.8	110.0	3.00	2.87	5.16	34.37	
8,743.1	19.64	111.33	8,279.0	-976.7	2,537.0	0.00	0.00	0.00	0.00	
9,397.9	0.00	0.00	8,921.0	-1,017.1	2,640.6	3.00	-3.00	0.00	180.00	11D-18 - OHCR
9,482.6	1.27	240.00	9,005.7	-1,017.6	2,639.7	1.50	1.50	-141.63	240.00	
13,949.0	1.27	240.00	13,471.0	-1,067.1	2,554.0	0.00	0.00	0.00	0.00	11D-18 - PBHL

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 11D-18-495 - Slot 11D-18
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Site:</b>	ELU A18 495 Pad	<b>North Reference:</b>	True
<b>Well:</b>	ELU A18 FED 11D-18-495	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Build 3° / 100'</b>									
315.0	0.00	0.00	315.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.55	85.00	400.0	0.2	1.9	1.7	3.00	3.00	0.00
<b>EOB @ 5.00° Inc. / 85.00° Azm : Build 3° / 100'</b>									
481.7	5.00	85.00	481.5	0.6	7.2	6.4	3.00	3.00	0.00
500.0	5.46	88.26	499.7	0.7	8.9	7.9	3.00	2.52	17.80
600.0	8.18	99.22	599.0	-0.3	20.7	19.2	3.00	2.72	10.96
700.0	11.04	104.64	697.6	-3.8	37.0	35.6	3.00	2.86	5.42
800.0	13.96	107.84	795.2	-9.9	57.7	57.1	3.00	2.92	3.19
900.0	16.91	109.94	891.6	-18.6	82.9	83.7	3.00	2.95	2.10
<b>EOB @ 19.64° Inc. / 111.33° Azm</b>									
992.2	19.64	111.33	979.2	-28.8	110.0	112.6	3.00	2.96	1.51
1,000.0	19.64	111.33	986.5	-29.8	112.4	115.2	0.00	0.00	0.00
1,100.0	19.64	111.33	1,080.7	-42.0	143.7	148.8	0.00	0.00	0.00
1,200.0	19.64	111.33	1,174.8	-54.2	175.0	182.4	0.00	0.00	0.00
1,300.0	19.64	111.33	1,269.0	-66.5	206.3	216.0	0.00	0.00	0.00
1,400.0	19.64	111.33	1,363.2	-78.7	237.6	249.6	0.00	0.00	0.00
1,500.0	19.64	111.33	1,457.4	-90.9	269.0	283.2	0.00	0.00	0.00
1,600.0	19.64	111.33	1,551.6	-103.1	300.3	316.8	0.00	0.00	0.00
1,700.0	19.64	111.33	1,645.7	-115.4	331.6	350.4	0.00	0.00	0.00
1,800.0	19.64	111.33	1,739.9	-127.6	362.9	384.0	0.00	0.00	0.00
1,900.0	19.64	111.33	1,834.1	-139.8	394.2	417.6	0.00	0.00	0.00
2,000.0	19.64	111.33	1,928.3	-152.1	425.5	451.3	0.00	0.00	0.00
2,100.0	19.64	111.33	2,022.5	-164.3	456.8	484.9	0.00	0.00	0.00
2,200.0	19.64	111.33	2,116.6	-176.5	488.1	518.5	0.00	0.00	0.00
2,300.0	19.64	111.33	2,210.8	-188.8	519.5	552.1	0.00	0.00	0.00
2,400.0	19.64	111.33	2,305.0	-201.0	550.8	585.7	0.00	0.00	0.00
2,500.0	19.64	111.33	2,399.2	-213.2	582.1	619.3	0.00	0.00	0.00
2,600.0	19.64	111.33	2,493.4	-225.4	613.4	652.9	0.00	0.00	0.00
2,700.0	19.64	111.33	2,587.5	-237.7	644.7	686.5	0.00	0.00	0.00
2,800.0	19.64	111.33	2,681.7	-249.9	676.0	720.1	0.00	0.00	0.00
2,900.0	19.64	111.33	2,775.9	-262.1	707.3	753.7	0.00	0.00	0.00
3,000.0	19.64	111.33	2,870.1	-274.4	738.7	787.3	0.00	0.00	0.00
3,100.0	19.64	111.33	2,964.3	-286.6	770.0	820.9	0.00	0.00	0.00
3,200.0	19.64	111.33	3,058.4	-298.8	801.3	854.5	0.00	0.00	0.00
3,300.0	19.64	111.33	3,152.6	-311.0	832.6	888.1	0.00	0.00	0.00
3,400.0	19.64	111.33	3,246.8	-323.3	863.9	921.8	0.00	0.00	0.00
3,500.0	19.64	111.33	3,341.0	-335.5	895.2	955.4	0.00	0.00	0.00
3,600.0	19.64	111.33	3,435.2	-347.7	926.5	989.0	0.00	0.00	0.00
3,700.0	19.64	111.33	3,529.3	-360.0	957.8	1,022.6	0.00	0.00	0.00
3,800.0	19.64	111.33	3,623.5	-372.2	989.2	1,056.2	0.00	0.00	0.00
3,900.0	19.64	111.33	3,717.7	-384.4	1,020.5	1,089.8	0.00	0.00	0.00
4,000.0	19.64	111.33	3,811.9	-396.7	1,051.8	1,123.4	0.00	0.00	0.00
4,100.0	19.64	111.33	3,906.1	-408.9	1,083.1	1,157.0	0.00	0.00	0.00
<b>Wasatch</b>									
4,130.7	19.64	111.33	3,935.0	-412.6	1,092.7	1,167.3	0.00	0.00	0.00
4,200.0	19.64	111.33	4,000.2	-421.1	1,114.4	1,190.6	0.00	0.00	0.00
4,300.0	19.64	111.33	4,094.4	-433.3	1,145.7	1,224.2	0.00	0.00	0.00
4,400.0	19.64	111.33	4,188.6	-445.6	1,177.0	1,257.8	0.00	0.00	0.00
4,500.0	19.64	111.33	4,282.8	-457.8	1,208.4	1,291.4	0.00	0.00	0.00

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 11D-18-495 - Slot 11D-18
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Site:</b>	ELU A18 495 Pad	<b>North Reference:</b>	True
<b>Well:</b>	ELU A18 FED 11D-18-495	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	19.64	111.33	4,377.0	-470.0	1,239.7	1,325.0	0.00	0.00	0.00
4,700.0	19.64	111.33	4,471.1	-482.3	1,271.0	1,358.7	0.00	0.00	0.00
4,800.0	19.64	111.33	4,565.3	-494.5	1,302.3	1,392.3	0.00	0.00	0.00
4,900.0	19.64	111.33	4,659.5	-506.7	1,333.6	1,425.9	0.00	0.00	0.00
5,000.0	19.64	111.33	4,753.7	-518.9	1,364.9	1,459.5	0.00	0.00	0.00
5,100.0	19.64	111.33	4,847.9	-531.2	1,396.2	1,493.1	0.00	0.00	0.00
5,200.0	19.64	111.33	4,942.0	-543.4	1,427.6	1,526.7	0.00	0.00	0.00
5,300.0	19.64	111.33	5,036.2	-555.6	1,458.9	1,560.3	0.00	0.00	0.00
5,400.0	19.64	111.33	5,130.4	-567.9	1,490.2	1,593.9	0.00	0.00	0.00
5,500.0	19.64	111.33	5,224.6	-580.1	1,521.5	1,627.5	0.00	0.00	0.00
5,600.0	19.64	111.33	5,318.8	-592.3	1,552.8	1,661.1	0.00	0.00	0.00
5,700.0	19.64	111.33	5,412.9	-604.5	1,584.1	1,694.7	0.00	0.00	0.00
5,800.0	19.64	111.33	5,507.1	-616.8	1,615.4	1,728.3	0.00	0.00	0.00
5,900.0	19.64	111.33	5,601.3	-629.0	1,646.7	1,761.9	0.00	0.00	0.00
6,000.0	19.64	111.33	5,695.5	-641.2	1,678.1	1,795.6	0.00	0.00	0.00
6,100.0	19.64	111.33	5,789.7	-653.5	1,709.4	1,829.2	0.00	0.00	0.00
6,200.0	19.64	111.33	5,883.8	-665.7	1,740.7	1,862.8	0.00	0.00	0.00
6,300.0	19.64	111.33	5,978.0	-677.9	1,772.0	1,896.4	0.00	0.00	0.00
6,400.0	19.64	111.33	6,072.2	-690.2	1,803.3	1,930.0	0.00	0.00	0.00
6,500.0	19.64	111.33	6,166.4	-702.4	1,834.6	1,963.6	0.00	0.00	0.00
6,600.0	19.64	111.33	6,260.6	-714.6	1,865.9	1,997.2	0.00	0.00	0.00
6,700.0	19.64	111.33	6,354.7	-726.8	1,897.3	2,030.8	0.00	0.00	0.00
6,800.0	19.64	111.33	6,448.9	-739.1	1,928.6	2,064.4	0.00	0.00	0.00
<b>Wasatch G</b>									
6,838.3	19.64	111.33	6,485.0	-743.8	1,940.6	2,077.3	0.00	0.00	0.00
6,900.0	19.64	111.33	6,543.1	-751.3	1,959.9	2,098.0	0.00	0.00	0.00
7,000.0	19.64	111.33	6,637.3	-763.5	1,991.2	2,131.6	0.00	0.00	0.00
7,100.0	19.64	111.33	6,731.5	-775.8	2,022.5	2,165.2	0.00	0.00	0.00
7,200.0	19.64	111.33	6,825.6	-788.0	2,053.8	2,198.8	0.00	0.00	0.00
<b>Fort Union</b>									
7,273.6	19.64	111.33	6,895.0	-797.0	2,076.9	2,223.6	0.00	0.00	0.00
7,300.0	19.64	111.33	6,919.8	-800.2	2,085.1	2,232.5	0.00	0.00	0.00
7,400.0	19.64	111.33	7,014.0	-812.4	2,116.4	2,266.1	0.00	0.00	0.00
7,500.0	19.64	111.33	7,108.2	-824.7	2,147.8	2,299.7	0.00	0.00	0.00
7,600.0	19.64	111.33	7,202.4	-836.9	2,179.1	2,333.3	0.00	0.00	0.00
7,700.0	19.64	111.33	7,296.5	-849.1	2,210.4	2,366.9	0.00	0.00	0.00
7,800.0	19.64	111.33	7,390.7	-861.4	2,241.7	2,400.5	0.00	0.00	0.00
7,900.0	19.64	111.33	7,484.9	-873.6	2,273.0	2,434.1	0.00	0.00	0.00
8,000.0	19.64	111.33	7,579.1	-885.8	2,304.3	2,467.7	0.00	0.00	0.00
8,100.0	19.64	111.33	7,673.3	-898.1	2,335.6	2,501.3	0.00	0.00	0.00
8,200.0	19.64	111.33	7,767.5	-910.3	2,367.0	2,534.9	0.00	0.00	0.00
8,300.0	19.64	111.33	7,861.6	-922.5	2,398.3	2,568.5	0.00	0.00	0.00
8,400.0	19.64	111.33	7,955.8	-934.7	2,429.6	2,602.1	0.00	0.00	0.00
8,500.0	19.64	111.33	8,050.0	-947.0	2,460.9	2,635.7	0.00	0.00	0.00
8,600.0	19.64	111.33	8,144.2	-959.2	2,492.2	2,669.3	0.00	0.00	0.00
8,700.0	19.64	111.33	8,238.4	-971.4	2,523.5	2,703.0	0.00	0.00	0.00
<b>Drop 3° /100'</b>									
8,743.1	19.64	111.33	8,279.0	-976.7	2,537.0	2,717.5	0.00	0.00	0.00
8,800.0	17.94	111.33	8,332.8	-983.4	2,554.1	2,735.8	3.00	-3.00	0.00
8,900.0	14.94	111.33	8,428.7	-993.7	2,580.4	2,764.1	3.00	-3.00	0.00
9,000.0	11.94	111.33	8,526.0	-1,002.1	2,602.1	2,787.3	3.00	-3.00	0.00
9,100.0	8.94	111.33	8,624.3	-1,008.7	2,619.0	2,805.4	3.00	-3.00	0.00
9,200.0	5.94	111.33	8,723.4	-1,013.4	2,631.0	2,818.3	3.00	-3.00	0.00

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 11D-18-495 - Slot 11D-18
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Site:</b>	ELU A18 495 Pad	<b>North Reference:</b>	True
<b>Well:</b>	ELU A18 FED 11D-18-495	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	2.94	111.33	8,823.1	-1,016.2	2,638.2	2,826.1	3.00	-3.00	0.00
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b>									
9,397.9	0.00	0.00	8,921.0	-1,017.1	2,640.6	2,828.6	3.00	-3.00	0.00
9,400.0	0.03	240.00	8,923.1	-1,017.1	2,640.6	2,828.6	1.50	1.50	0.00
<b>EOB @ 1.27° Inc. / 240.00° Azm</b>									
9,482.6	1.27	240.00	9,005.7	-1,017.6	2,639.7	2,828.0	1.50	1.50	0.00
9,500.0	1.27	240.00	9,023.1	-1,017.8	2,639.4	2,827.8	0.00	0.00	0.00
9,600.0	1.27	240.00	9,123.1	-1,018.9	2,637.5	2,826.4	0.00	0.00	0.00
9,700.0	1.27	240.00	9,223.0	-1,020.0	2,635.6	2,825.1	0.00	0.00	0.00
9,800.0	1.27	240.00	9,323.0	-1,021.1	2,633.7	2,823.7	0.00	0.00	0.00
9,900.0	1.27	240.00	9,423.0	-1,022.2	2,631.7	2,822.4	0.00	0.00	0.00
10,000.0	1.27	240.00	9,523.0	-1,023.3	2,629.8	2,821.0	0.00	0.00	0.00
<b>Williams Fork</b>									
10,048.1	1.27	240.00	9,571.0	-1,023.9	2,628.9	2,820.4	0.00	0.00	0.00
10,100.0	1.27	240.00	9,622.9	-1,024.5	2,627.9	2,819.7	0.00	0.00	0.00
10,200.0	1.27	240.00	9,722.9	-1,025.6	2,626.0	2,818.4	0.00	0.00	0.00
10,300.0	1.27	240.00	9,822.9	-1,026.7	2,624.0	2,817.0	0.00	0.00	0.00
10,400.0	1.27	240.00	9,922.9	-1,027.8	2,622.1	2,815.7	0.00	0.00	0.00
10,500.0	1.27	240.00	10,022.8	-1,028.9	2,620.2	2,814.3	0.00	0.00	0.00
10,600.0	1.27	240.00	10,122.8	-1,030.0	2,618.3	2,813.0	0.00	0.00	0.00
10,700.0	1.27	240.00	10,222.8	-1,031.1	2,616.4	2,811.6	0.00	0.00	0.00
10,800.0	1.27	240.00	10,322.8	-1,032.2	2,614.4	2,810.3	0.00	0.00	0.00
10,900.0	1.27	240.00	10,422.7	-1,033.3	2,612.5	2,808.9	0.00	0.00	0.00
11,000.0	1.27	240.00	10,522.7	-1,034.4	2,610.6	2,807.6	0.00	0.00	0.00
11,100.0	1.27	240.00	10,622.7	-1,035.5	2,608.7	2,806.3	0.00	0.00	0.00
11,200.0	1.27	240.00	10,722.7	-1,036.7	2,606.8	2,804.9	0.00	0.00	0.00
11,300.0	1.27	240.00	10,822.6	-1,037.8	2,604.8	2,803.6	0.00	0.00	0.00
11,400.0	1.27	240.00	10,922.6	-1,038.9	2,602.9	2,802.2	0.00	0.00	0.00
11,500.0	1.27	240.00	11,022.6	-1,040.0	2,601.0	2,800.9	0.00	0.00	0.00
11,600.0	1.27	240.00	11,122.6	-1,041.1	2,599.1	2,799.5	0.00	0.00	0.00
11,700.0	1.27	240.00	11,222.5	-1,042.2	2,597.2	2,798.2	0.00	0.00	0.00
11,800.0	1.27	240.00	11,322.5	-1,043.3	2,595.2	2,796.8	0.00	0.00	0.00
11,900.0	1.27	240.00	11,422.5	-1,044.4	2,593.3	2,795.5	0.00	0.00	0.00
12,000.0	1.27	240.00	11,522.5	-1,045.5	2,591.4	2,794.1	0.00	0.00	0.00
12,100.0	1.27	240.00	11,622.4	-1,046.6	2,589.5	2,792.8	0.00	0.00	0.00
12,200.0	1.27	240.00	11,722.4	-1,047.7	2,587.6	2,791.5	0.00	0.00	0.00
12,300.0	1.27	240.00	11,822.4	-1,048.8	2,585.6	2,790.1	0.00	0.00	0.00
12,400.0	1.27	240.00	11,922.4	-1,050.0	2,583.7	2,788.8	0.00	0.00	0.00
12,500.0	1.27	240.00	12,022.3	-1,051.1	2,581.8	2,787.4	0.00	0.00	0.00
12,600.0	1.27	240.00	12,122.3	-1,052.2	2,579.9	2,786.1	0.00	0.00	0.00
12,700.0	1.27	240.00	12,222.3	-1,053.3	2,577.9	2,784.7	0.00	0.00	0.00
12,800.0	1.27	240.00	12,322.3	-1,054.4	2,576.0	2,783.4	0.00	0.00	0.00
12,900.0	1.27	240.00	12,422.2	-1,055.5	2,574.1	2,782.0	0.00	0.00	0.00
<b>Cameo</b>									
12,948.8	1.27	240.00	12,471.0	-1,056.0	2,573.2	2,781.4	0.00	0.00	0.00
13,000.0	1.27	240.00	12,522.2	-1,056.6	2,572.2	2,780.7	0.00	0.00	0.00
13,100.0	1.27	240.00	12,622.2	-1,057.7	2,570.3	2,779.4	0.00	0.00	0.00
13,200.0	1.27	240.00	12,722.2	-1,058.8	2,568.3	2,778.0	0.00	0.00	0.00
13,300.0	1.27	240.00	12,822.1	-1,059.9	2,566.4	2,776.7	0.00	0.00	0.00
13,400.0	1.27	240.00	12,922.1	-1,061.0	2,564.5	2,775.3	0.00	0.00	0.00
<b>Rollins</b>									
13,448.9	1.27	240.00	12,971.0	-1,061.6	2,563.6	2,774.7	0.00	0.00	0.00
13,500.0	1.27	240.00	13,022.1	-1,062.2	2,562.6	2,774.0	0.00	0.00	0.00
13,600.0	1.27	240.00	13,122.1	-1,063.3	2,560.7	2,772.6	0.00	0.00	0.00

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 11D-18-495 - Slot 11D-18
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Project:</b>	Rio Blanco County, CO	<b>MD Reference:</b>	RKB=30' @ 8059.0usft (TBD)
<b>Site:</b>	ELU A18 495 Pad	<b>North Reference:</b>	True
<b>Well:</b>	ELU A18 FED 11D-18-495	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
13,700.0	1.27	240.00	13,222.0	-1,064.4	2,558.7	2,771.3	0.00	0.00	0.00
13,800.0	1.27	240.00	13,322.0	-1,065.5	2,556.8	2,769.9	0.00	0.00	0.00
13,900.0	1.27	240.00	13,422.0	-1,066.6	2,554.9	2,768.6	0.00	0.00	0.00
TD @ 13949.0' MD / 13471.0' TVD									
13,949.0	1.27	240.00	13,471.0	-1,067.1	2,554.0	2,767.9	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
11D-18 - OHCR - plan hits target center - Point	0.00	0.00	8,921.0	-1,017.1	2,640.6	14,432,315.27	2,457,646.05	39.706220	-108.094576
11D-18 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,471.0	-1,067.1	2,554.0	14,432,262.50	2,457,561.10	39.706082	-108.094884

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,130.7	3,935.0	Wasatch				
6,838.3	6,485.0	Wasatch G				
7,273.6	6,895.0	Fort Union				
9,397.9	8,921.0	Ohio Creek				
10,048.1	9,571.0	Williams Fork				
12,948.8	12,471.0	Cameo				
13,448.9	12,971.0	Rollins				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
315.0	315.0	0.0	0.0	Build 3° / 100'
481.7	481.5	0.6	7.2	EOB @ 5.00° Inc. / 85.00° Azm : Build 3° / 100'
992.2	979.2	-28.8	110.0	EOB @ 19.64° Inc. / 111.33° Azm
8,743.1	8,279.0	-976.7	2,537.0	Drop 3° /100'
9,397.9	8,921.0	-1,017.1	2,640.6	EOD @ Vertical / Build 1.5° / 100'
9,482.6	9,005.7	-1,017.6	2,639.7	EOB @ 1.27° Inc. / 240.00° Azm
13,949.0	13,471.0	-1,067.1	2,554.0	TD @ 13949.0' MD / 13471.0' TVD