

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 15C-7-495
Wellbore: OH
Design: Design #5
Latitude: 39.709078
Longitude: -108.104198
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 - 15C-7(0.0N, 0.0E)
Measured Depth Reference: RKB=30' @ 8059.0usft (TBD)
Calculation Method: Minimum Curvature

SECTION DETAILS

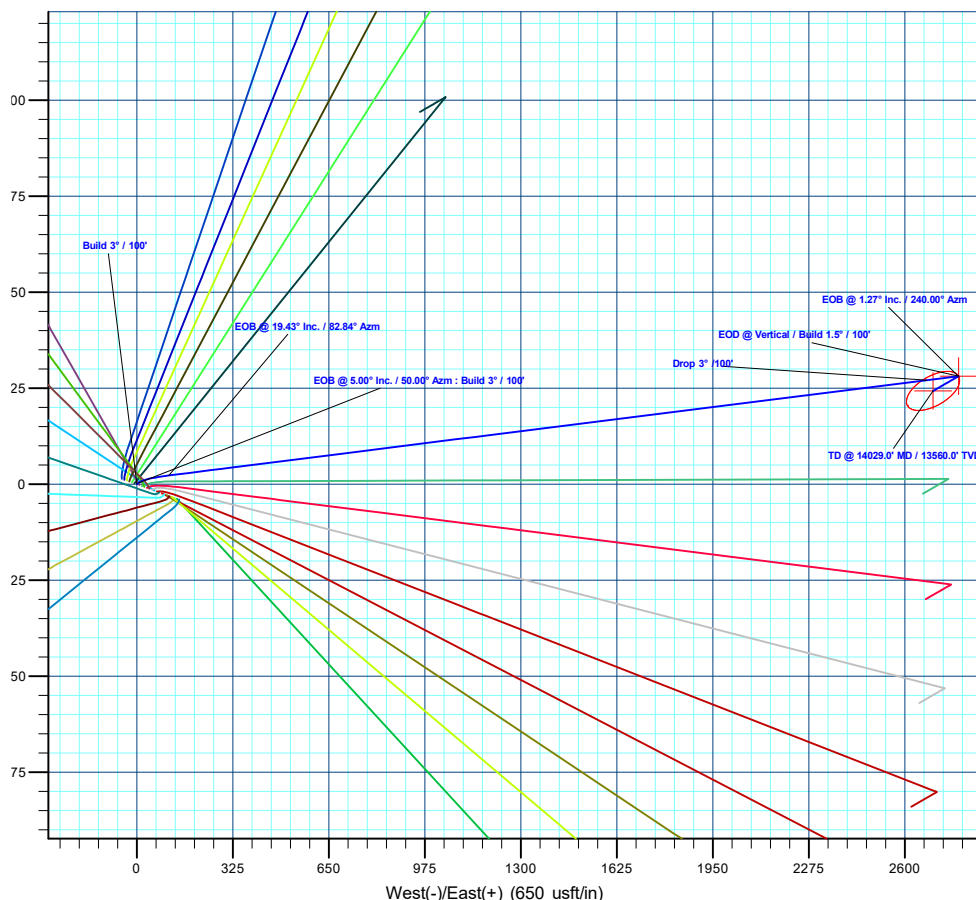
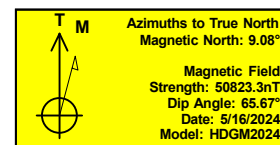
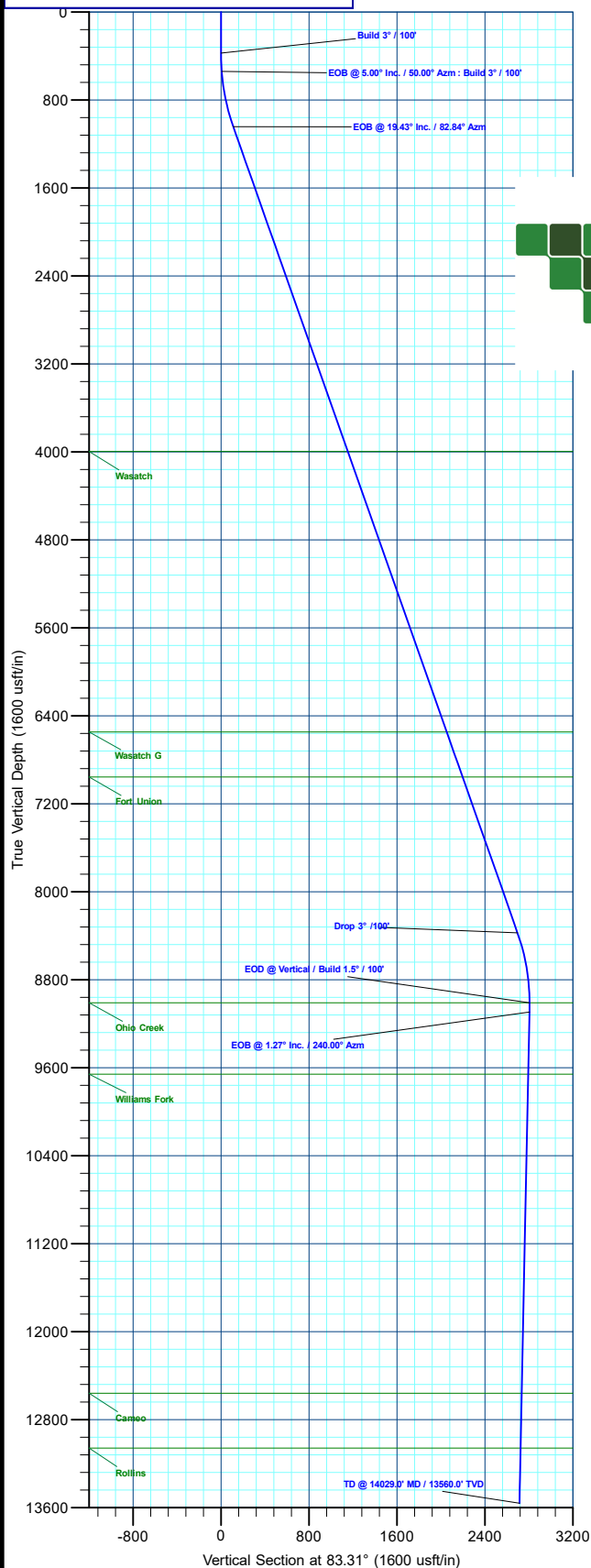
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 3' / 100'
375.0	0.00	0.00	375.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.00° Inc. / 50.00° Azm : Build 3' / 100'
541.7	5.00	50.00	541.5	4.7	5.6	3.00	50.00	6.1	EOB @ 19.43° Inc. / 82.84° Azm
1057.0	19.43	82.84	1044.2	30.0	108.4	3.00	42.59	111.2	Drop 3' / 100'
8830.2	19.43	82.84	8374.7	352.4	2674.1	0.00	0.00	2697.0	EOD @ Vertical / Build 1.5' / 100'
9477.9	0.00	0.00	9010.0	366.0	2782.1	3.00	180.00	2805.8	EOB @ 1.27° Inc. / 240.00° Azm
9562.6	1.27	240.00	9094.7	365.5	2781.3	1.50	240.00	2804.9	TD @ 14029.0' MD / 13560.0' TVD
14029.0	1.27	240.00	13560.0	316.0	2695.5	0.00	0.00	2713.9	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
15C-7 - OHCR	9010.0	366.0	2782.1	14433724.57	2457674.34	39.710083	-108.094313
15C-7 - PBHL	13560.0	316.0	2695.5	14433671.80	2457589.40	39.709945	-108.094621

WELL DETAILS: ELU A18 FED 15C-7-495

+N/-S	+E/-W	Ground Level : 8029.0	Latitude	Longitude
0.0	0.0	Northing 14433268.88	39.709078	-108.104198
		Easting 2454905.55		15C-7



Plan: Design #5 (ELU A18 FED 15C-7-495/OH)

Created By: Will Jircik Date: 22:01, June 09 2024



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 15C-7-495 - Slot 15C-7

OH

Plan: Design #5

KLX Well Planning Report

09 June, 2024



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 15C-7-495 - Slot 15C-7
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 15C-7-495	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 15C-7-495 - Slot 15C-7					
Well Position	+N/-S	-18.4 usft	Northing:	14,433,268.88 usft	Latitude:	39.709079
	+E/-W	50.8 usft	Easting:	2,454,905.55 usft	Longitude:	-108.104198
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	83.31

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	
375.0	0.00	0.00	375.0	0.0	0.0	0.00	0.00	0.00	0.00	
541.7	5.00	50.00	541.5	4.7	5.6	3.00	3.00	0.00	50.00	
1,057.0	19.43	82.84	1,044.2	30.0	108.4	3.00	2.80	6.37	42.59	
8,830.2	19.43	82.84	8,374.7	352.4	2,674.1	0.00	0.00	0.00	0.00	
9,477.9	0.00	0.00	9,010.0	366.0	2,782.1	3.00	-3.00	0.00	180.00	15C-7 - OHCR
9,562.6	1.27	240.00	9,094.7	365.5	2,781.3	1.50	1.50	-141.63	240.00	
14,029.0	1.27	240.00	13,560.0	316.0	2,695.5	0.00	0.00	0.00	0.00	15C-7 - PBHL

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 15C-7-495 - Slot 15C-7
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 15C-7-495	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
375.0	0.00	0.00	375.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.75	50.00	400.0	0.1	0.1	0.1	3.00	3.00	0.00
500.0	3.75	50.00	499.9	2.6	3.1	3.4	3.00	3.00	0.00
EOB @ 5.00° Inc. / 50.00° Azm : Build 3° / 100'									
541.7	5.00	50.00	541.5	4.7	5.6	6.1	3.00	3.00	0.00
600.0	6.40	60.69	599.5	7.9	10.3	11.2	3.00	2.40	18.32
700.0	9.08	70.79	698.6	13.2	22.7	24.1	3.00	2.68	10.10
800.0	11.92	76.22	796.9	18.3	40.2	42.0	3.00	2.84	5.43
900.0	14.82	79.57	894.2	23.1	62.8	65.0	3.00	2.90	3.35
1,000.0	17.75	81.84	990.2	27.5	90.4	93.0	3.00	2.93	2.27
EOB @ 19.43° Inc. / 82.84° Azm									
1,057.0	19.43	82.84	1,044.2	30.0	108.4	111.2	3.00	2.95	1.74
1,100.0	19.43	82.84	1,084.7	31.7	122.6	125.5	0.00	0.00	0.00
1,200.0	19.43	82.84	1,179.0	35.9	155.6	158.8	0.00	0.00	0.00
1,300.0	19.43	82.84	1,273.3	40.0	188.7	192.0	0.00	0.00	0.00
1,400.0	19.43	82.84	1,367.7	44.2	221.7	225.3	0.00	0.00	0.00
1,500.0	19.43	82.84	1,462.0	48.3	254.7	258.6	0.00	0.00	0.00
1,600.0	19.43	82.84	1,556.3	52.5	287.7	291.8	0.00	0.00	0.00
1,700.0	19.43	82.84	1,650.6	56.6	320.7	325.1	0.00	0.00	0.00
1,800.0	19.43	82.84	1,744.9	60.8	353.7	358.4	0.00	0.00	0.00
1,900.0	19.43	82.84	1,839.2	64.9	386.7	391.6	0.00	0.00	0.00
2,000.0	19.43	82.84	1,933.5	69.1	419.7	424.9	0.00	0.00	0.00
2,100.0	19.43	82.84	2,027.8	73.2	452.7	458.2	0.00	0.00	0.00
2,200.0	19.43	82.84	2,122.1	77.4	485.7	491.4	0.00	0.00	0.00
2,300.0	19.43	82.84	2,216.4	81.5	518.7	524.7	0.00	0.00	0.00
2,400.0	19.43	82.84	2,310.7	85.7	551.7	557.9	0.00	0.00	0.00
2,500.0	19.43	82.84	2,405.0	89.8	584.7	591.2	0.00	0.00	0.00
2,600.0	19.43	82.84	2,499.3	94.0	617.7	624.5	0.00	0.00	0.00
2,700.0	19.43	82.84	2,593.6	98.1	650.7	657.7	0.00	0.00	0.00
2,800.0	19.43	82.84	2,687.9	102.3	683.8	691.0	0.00	0.00	0.00
2,900.0	19.43	82.84	2,782.2	106.4	716.8	724.3	0.00	0.00	0.00
3,000.0	19.43	82.84	2,876.5	110.6	749.8	757.5	0.00	0.00	0.00
3,100.0	19.43	82.84	2,970.8	114.7	782.8	790.8	0.00	0.00	0.00
3,200.0	19.43	82.84	3,065.1	118.9	815.8	824.1	0.00	0.00	0.00
3,300.0	19.43	82.84	3,159.4	123.0	848.8	857.3	0.00	0.00	0.00
3,400.0	19.43	82.84	3,253.7	127.2	881.8	890.6	0.00	0.00	0.00
3,500.0	19.43	82.84	3,348.0	131.3	914.8	923.9	0.00	0.00	0.00
3,600.0	19.43	82.84	3,442.3	135.5	947.8	957.1	0.00	0.00	0.00
3,700.0	19.43	82.84	3,536.7	139.6	980.8	990.4	0.00	0.00	0.00
3,800.0	19.43	82.84	3,631.0	143.8	1,013.8	1,023.7	0.00	0.00	0.00
3,900.0	19.43	82.84	3,725.3	147.9	1,046.8	1,056.9	0.00	0.00	0.00
4,000.0	19.43	82.84	3,819.6	152.0	1,079.8	1,090.2	0.00	0.00	0.00
4,100.0	19.43	82.84	3,913.9	156.2	1,112.8	1,123.5	0.00	0.00	0.00
Wasatch									
4,189.2	19.43	82.84	3,998.0	159.9	1,142.3	1,153.1	0.00	0.00	0.00
4,200.0	19.43	82.84	4,008.2	160.3	1,145.9	1,156.7	0.00	0.00	0.00
4,300.0	19.43	82.84	4,102.5	164.5	1,178.9	1,190.0	0.00	0.00	0.00
4,400.0	19.43	82.84	4,196.8	168.6	1,211.9	1,223.3	0.00	0.00	0.00
4,500.0	19.43	82.84	4,291.1	172.8	1,244.9	1,256.5	0.00	0.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 15C-7-495 - Slot 15C-7
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 15C-7-495	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	19.43	82.84	4,385.4	176.9	1,277.9	1,289.8	0.00	0.00	0.00
4,700.0	19.43	82.84	4,479.7	181.1	1,310.9	1,323.1	0.00	0.00	0.00
4,800.0	19.43	82.84	4,574.0	185.2	1,343.9	1,356.3	0.00	0.00	0.00
4,900.0	19.43	82.84	4,668.3	189.4	1,376.9	1,389.6	0.00	0.00	0.00
5,000.0	19.43	82.84	4,762.6	193.5	1,409.9	1,422.9	0.00	0.00	0.00
5,100.0	19.43	82.84	4,856.9	197.7	1,442.9	1,456.1	0.00	0.00	0.00
5,200.0	19.43	82.84	4,951.2	201.8	1,475.9	1,489.4	0.00	0.00	0.00
5,300.0	19.43	82.84	5,045.5	206.0	1,508.9	1,522.7	0.00	0.00	0.00
5,400.0	19.43	82.84	5,139.8	210.1	1,541.9	1,555.9	0.00	0.00	0.00
5,500.0	19.43	82.84	5,234.1	214.3	1,574.9	1,589.2	0.00	0.00	0.00
5,600.0	19.43	82.84	5,328.4	218.4	1,608.0	1,622.4	0.00	0.00	0.00
5,700.0	19.43	82.84	5,422.7	222.6	1,641.0	1,655.7	0.00	0.00	0.00
5,800.0	19.43	82.84	5,517.0	226.7	1,674.0	1,689.0	0.00	0.00	0.00
5,900.0	19.43	82.84	5,611.4	230.9	1,707.0	1,722.2	0.00	0.00	0.00
6,000.0	19.43	82.84	5,705.7	235.0	1,740.0	1,755.5	0.00	0.00	0.00
6,100.0	19.43	82.84	5,800.0	239.2	1,773.0	1,788.8	0.00	0.00	0.00
6,200.0	19.43	82.84	5,894.3	243.3	1,806.0	1,822.0	0.00	0.00	0.00
6,300.0	19.43	82.84	5,988.6	247.5	1,839.0	1,855.3	0.00	0.00	0.00
6,400.0	19.43	82.84	6,082.9	251.6	1,872.0	1,888.6	0.00	0.00	0.00
6,500.0	19.43	82.84	6,177.2	255.8	1,905.0	1,921.8	0.00	0.00	0.00
6,600.0	19.43	82.84	6,271.5	259.9	1,938.0	1,955.1	0.00	0.00	0.00
6,700.0	19.43	82.84	6,365.8	264.1	1,971.0	1,988.4	0.00	0.00	0.00
6,800.0	19.43	82.84	6,460.1	268.2	2,004.0	2,021.6	0.00	0.00	0.00
Wasatch G									
6,893.2	19.43	82.84	6,548.0	272.1	2,034.8	2,052.6	0.00	0.00	0.00
6,900.0	19.43	82.84	6,554.4	272.4	2,037.0	2,054.9	0.00	0.00	0.00
7,000.0	19.43	82.84	6,648.7	276.5	2,070.0	2,088.2	0.00	0.00	0.00
7,100.0	19.43	82.84	6,743.0	280.7	2,103.1	2,121.4	0.00	0.00	0.00
7,200.0	19.43	82.84	6,837.3	284.8	2,136.1	2,154.7	0.00	0.00	0.00
7,300.0	19.43	82.84	6,931.6	289.0	2,169.1	2,188.0	0.00	0.00	0.00
Fort Union									
7,328.0	19.43	82.84	6,958.0	290.1	2,178.3	2,197.3	0.00	0.00	0.00
7,400.0	19.43	82.84	7,025.9	293.1	2,202.1	2,221.2	0.00	0.00	0.00
7,500.0	19.43	82.84	7,120.2	297.3	2,235.1	2,254.5	0.00	0.00	0.00
7,600.0	19.43	82.84	7,214.5	301.4	2,268.1	2,287.8	0.00	0.00	0.00
7,700.0	19.43	82.84	7,308.8	305.6	2,301.1	2,321.0	0.00	0.00	0.00
7,800.0	19.43	82.84	7,403.1	309.7	2,334.1	2,354.3	0.00	0.00	0.00
7,900.0	19.43	82.84	7,497.4	313.9	2,367.1	2,387.6	0.00	0.00	0.00
8,000.0	19.43	82.84	7,591.7	318.0	2,400.1	2,420.8	0.00	0.00	0.00
8,100.0	19.43	82.84	7,686.0	322.2	2,433.1	2,454.1	0.00	0.00	0.00
8,200.0	19.43	82.84	7,780.4	326.3	2,466.1	2,487.4	0.00	0.00	0.00
8,300.0	19.43	82.84	7,874.7	330.4	2,499.1	2,520.6	0.00	0.00	0.00
8,400.0	19.43	82.84	7,969.0	334.6	2,532.1	2,553.9	0.00	0.00	0.00
8,500.0	19.43	82.84	8,063.3	338.7	2,565.2	2,587.1	0.00	0.00	0.00
8,600.0	19.43	82.84	8,157.6	342.9	2,598.2	2,620.4	0.00	0.00	0.00
8,700.0	19.43	82.84	8,251.9	347.0	2,631.2	2,653.7	0.00	0.00	0.00
8,800.0	19.43	82.84	8,346.2	351.2	2,664.2	2,686.9	0.00	0.00	0.00
Drop 3° /100'									
8,830.2	19.43	82.84	8,374.7	352.4	2,674.1	2,697.0	0.00	0.00	0.00
8,900.0	17.34	82.84	8,440.9	355.2	2,696.0	2,719.0	3.00	-3.00	0.00
9,000.0	14.34	82.84	8,537.1	358.6	2,723.1	2,746.3	3.00	-3.00	0.00
9,100.0	11.34	82.84	8,634.6	361.4	2,745.1	2,768.5	3.00	-3.00	0.00
9,200.0	8.34	82.84	8,733.1	363.5	2,762.0	2,785.6	3.00	-3.00	0.00

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 15C-7-495 - Slot 15C-7
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 15C-7-495	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	5.34	82.84	8,832.4	365.0	2,773.9	2,797.5	3.00	-3.00	0.00	
9,400.0	2.34	82.84	8,932.1	365.8	2,780.5	2,804.2	3.00	-3.00	0.00	
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek										
9,477.9	0.00	0.00	9,010.0	366.0	2,782.1	2,805.8	3.00	-3.00	0.00	
9,500.0	0.33	240.00	9,032.1	366.0	2,782.0	2,805.7	1.50	1.50	0.00	
EOB @ 1.27° Inc. / 240.00° Azm										
9,562.6	1.27	240.00	9,094.7	365.5	2,781.3	2,804.9	1.50	1.50	0.00	
9,600.0	1.27	240.00	9,132.1	365.1	2,780.5	2,804.1	0.00	0.00	0.00	
9,700.0	1.27	240.00	9,232.1	364.0	2,778.6	2,802.1	0.00	0.00	0.00	
9,800.0	1.27	240.00	9,332.0	362.9	2,776.7	2,800.1	0.00	0.00	0.00	
9,900.0	1.27	240.00	9,432.0	361.8	2,774.8	2,798.0	0.00	0.00	0.00	
10,000.0	1.27	240.00	9,532.0	360.7	2,772.9	2,796.0	0.00	0.00	0.00	
10,100.0	1.27	240.00	9,632.0	359.6	2,770.9	2,794.0	0.00	0.00	0.00	
Williams Fork										
10,128.0	1.27	240.00	9,660.0	359.3	2,770.4	2,793.4	0.00	0.00	0.00	
10,200.0	1.27	240.00	9,732.0	358.5	2,769.0	2,791.9	0.00	0.00	0.00	
10,300.0	1.27	240.00	9,831.9	357.4	2,767.1	2,789.9	0.00	0.00	0.00	
10,400.0	1.27	240.00	9,931.9	356.3	2,765.2	2,787.8	0.00	0.00	0.00	
10,500.0	1.27	240.00	10,031.9	355.1	2,763.2	2,785.8	0.00	0.00	0.00	
10,600.0	1.27	240.00	10,131.9	354.0	2,761.3	2,783.8	0.00	0.00	0.00	
10,700.0	1.27	240.00	10,231.8	352.9	2,759.4	2,781.7	0.00	0.00	0.00	
10,800.0	1.27	240.00	10,331.8	351.8	2,757.5	2,779.7	0.00	0.00	0.00	
10,900.0	1.27	240.00	10,431.8	350.7	2,755.6	2,777.7	0.00	0.00	0.00	
11,000.0	1.27	240.00	10,531.8	349.6	2,753.6	2,775.6	0.00	0.00	0.00	
11,100.0	1.27	240.00	10,631.7	348.5	2,751.7	2,773.6	0.00	0.00	0.00	
11,200.0	1.27	240.00	10,731.7	347.4	2,749.8	2,771.5	0.00	0.00	0.00	
11,300.0	1.27	240.00	10,831.7	346.3	2,747.9	2,769.5	0.00	0.00	0.00	
11,400.0	1.27	240.00	10,931.7	345.2	2,746.0	2,767.5	0.00	0.00	0.00	
11,500.0	1.27	240.00	11,031.6	344.1	2,744.0	2,765.4	0.00	0.00	0.00	
11,600.0	1.27	240.00	11,131.6	342.9	2,742.1	2,763.4	0.00	0.00	0.00	
11,700.0	1.27	240.00	11,231.6	341.8	2,740.2	2,761.4	0.00	0.00	0.00	
11,800.0	1.27	240.00	11,331.6	340.7	2,738.3	2,759.3	0.00	0.00	0.00	
11,900.0	1.27	240.00	11,431.5	339.6	2,736.4	2,757.3	0.00	0.00	0.00	
12,000.0	1.27	240.00	11,531.5	338.5	2,734.4	2,755.3	0.00	0.00	0.00	
12,100.0	1.27	240.00	11,631.5	337.4	2,732.5	2,753.2	0.00	0.00	0.00	
12,200.0	1.27	240.00	11,731.5	336.3	2,730.6	2,751.2	0.00	0.00	0.00	
12,300.0	1.27	240.00	11,831.4	335.2	2,728.7	2,749.1	0.00	0.00	0.00	
12,400.0	1.27	240.00	11,931.4	334.1	2,726.8	2,747.1	0.00	0.00	0.00	
12,500.0	1.27	240.00	12,031.4	333.0	2,724.8	2,745.1	0.00	0.00	0.00	
12,600.0	1.27	240.00	12,131.4	331.9	2,722.9	2,743.0	0.00	0.00	0.00	
12,700.0	1.27	240.00	12,231.3	330.8	2,721.0	2,741.0	0.00	0.00	0.00	
12,800.0	1.27	240.00	12,331.3	329.6	2,719.1	2,739.0	0.00	0.00	0.00	
12,900.0	1.27	240.00	12,431.3	328.5	2,717.2	2,736.9	0.00	0.00	0.00	
13,000.0	1.27	240.00	12,531.3	327.4	2,715.2	2,734.9	0.00	0.00	0.00	
Cameo										
13,028.7	1.27	240.00	12,560.0	327.1	2,714.7	2,734.3	0.00	0.00	0.00	
13,100.0	1.27	240.00	12,631.2	326.3	2,713.3	2,732.8	0.00	0.00	0.00	
13,200.0	1.27	240.00	12,731.2	325.2	2,711.4	2,730.8	0.00	0.00	0.00	
13,300.0	1.27	240.00	12,831.2	324.1	2,709.5	2,728.8	0.00	0.00	0.00	
13,400.0	1.27	240.00	12,931.2	323.0	2,707.5	2,726.7	0.00	0.00	0.00	
13,500.0	1.27	240.00	13,031.1	321.9	2,705.6	2,724.7	0.00	0.00	0.00	
Rollins										
13,528.9	1.27	240.00	13,060.0	321.6	2,705.1	2,724.1	0.00	0.00	0.00	
13,600.0	1.27	240.00	13,131.1	320.8	2,703.7	2,722.7	0.00	0.00	0.00	

Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well ELU A18 FED 15C-7-495 - Slot 15C-7
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 15C-7-495	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)
13,700.0	1.27	240.00	13,231.1	319.7	2,701.8	2,720.6	0.00	0.00	0.00
13,800.0	1.27	240.00	13,331.1	318.6	2,699.9	2,718.6	0.00	0.00	0.00
13,900.0	1.27	240.00	13,431.0	317.4	2,697.9	2,716.6	0.00	0.00	0.00
14,000.0	1.27	240.00	13,531.0	316.3	2,696.0	2,714.5	0.00	0.00	0.00
TD @ 14029.0' MD / 13560.0' TVD									
14,029.0	1.27	240.00	13,560.0	316.0	2,695.5	2,713.9	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
15C-7 - OHCR - hit/miss target - Shape - Point	0.00	0.00	9,010.0	366.0	2,782.1	14,433,724.57	2,457,674.35	39.710083	-108.094313
15C-7 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,560.0	316.0	2,695.5	14,433,671.80	2,457,589.40	39.709945	-108.094621

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,189.2	3,998.0	Wasatch				
6,893.2	6,548.0	Wasatch G				
7,328.0	6,958.0	Fort Union				
9,477.9	9,010.0	Ohio Creek				
10,128.0	9,660.0	Williams Fork				
13,028.7	12,560.0	Cameo				
13,528.9	13,060.0	Rollins				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
375.0	375.0	0.0	0.0	Build 3° / 100'
541.7	541.5	4.7	5.6	EOB @ 5.00° Inc. / 50.00° Azm : Build 3° / 100'
1,057.0	1,044.2	30.0	108.4	EOB @ 19.43° Inc. / 82.84° Azm
8,830.2	8,374.7	352.4	2,674.1	Drop 3° / 100'
9,477.9	9,010.0	366.0	2,782.1	EOD @ Vertical / Build 1.5° / 100'
9,562.6	9,094.7	365.5	2,781.3	EOB @ 1.27° Inc. / 240.00° Azm
14,029.0	13,560.0	316.0	2,695.5	TD @ 14029.0' MD / 13560.0' TVD