

Project: Rio Blanco County, CO  
 Site: ELU A18 495 Pad  
 Well: ELU A18 FED 13C-7 495  
 Wellbore: OH  
 Design: Design #5  
 Latitude: 39.709146  
 Longitude: -108.104438  
 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 - z 13C-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	V Sect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
795.2	17.86	350.91	785.6	90.8	-14.5	3.00	350.91	91.9	EOB @ 17.86° Inc. / 350.91° Azm
8588.4	17.86	350.91	8203.4	2450.4	-392.0	0.00	0.00	2479.9	Drop 3° / 100'
9183.6	0.00	0.00	8789.0	2541.2	-406.5	3.00	180.00	2571.8	EOD @ Vertical / Build 1.5° / 100'
9266.3	1.24	240.00	8871.7	2540.8	-407.3	1.50	240.00	2571.5	EOB @ 1.24° Inc. / 240.00° Azm
13842.6	1.24	240.00	13447.0	2491.2	-493.1	0.00	0.00	2539.6	TD @ 13842.6' MD / 13447.0' TVD

DESIGN TARGET DETAILS

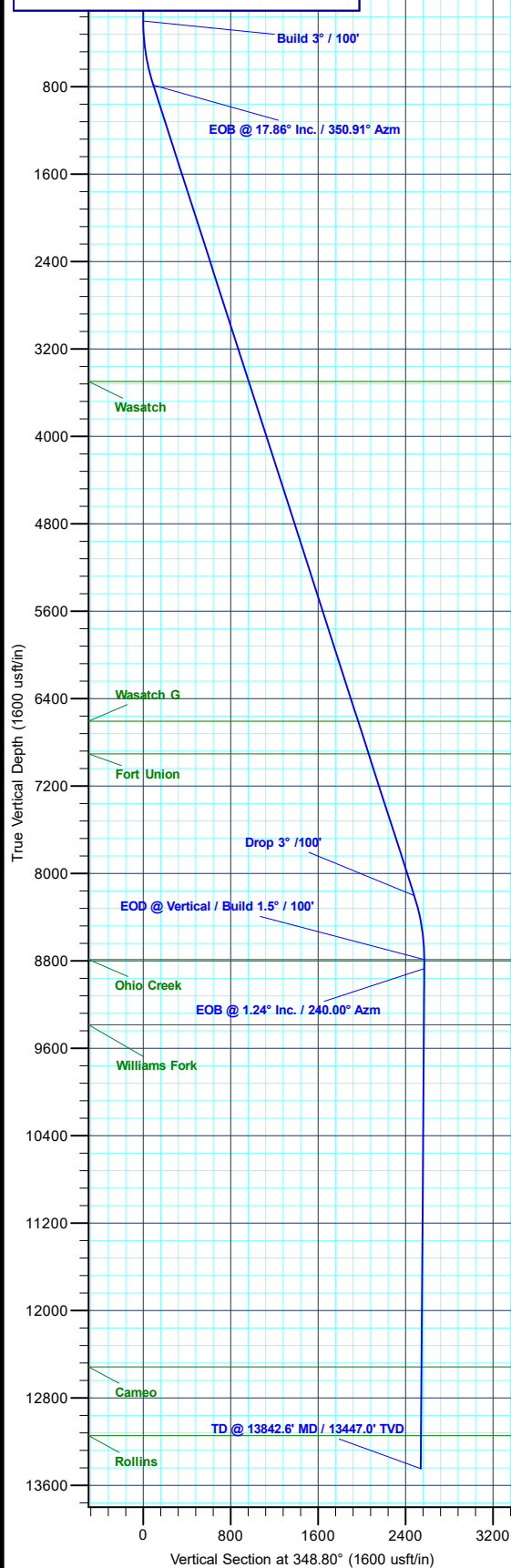
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
z 13C-7 - OHCR	8789.0	2541.2	-406.5	14435817.97	2454388.74	39.716120	-108.105883
z 13C-7 - PBHL	13447.0	2491.2	-493.1	14435765.20	2454263.80	39.715982	-108.106190

WELL DETAILS: ELU A18 FED 13C-7 495

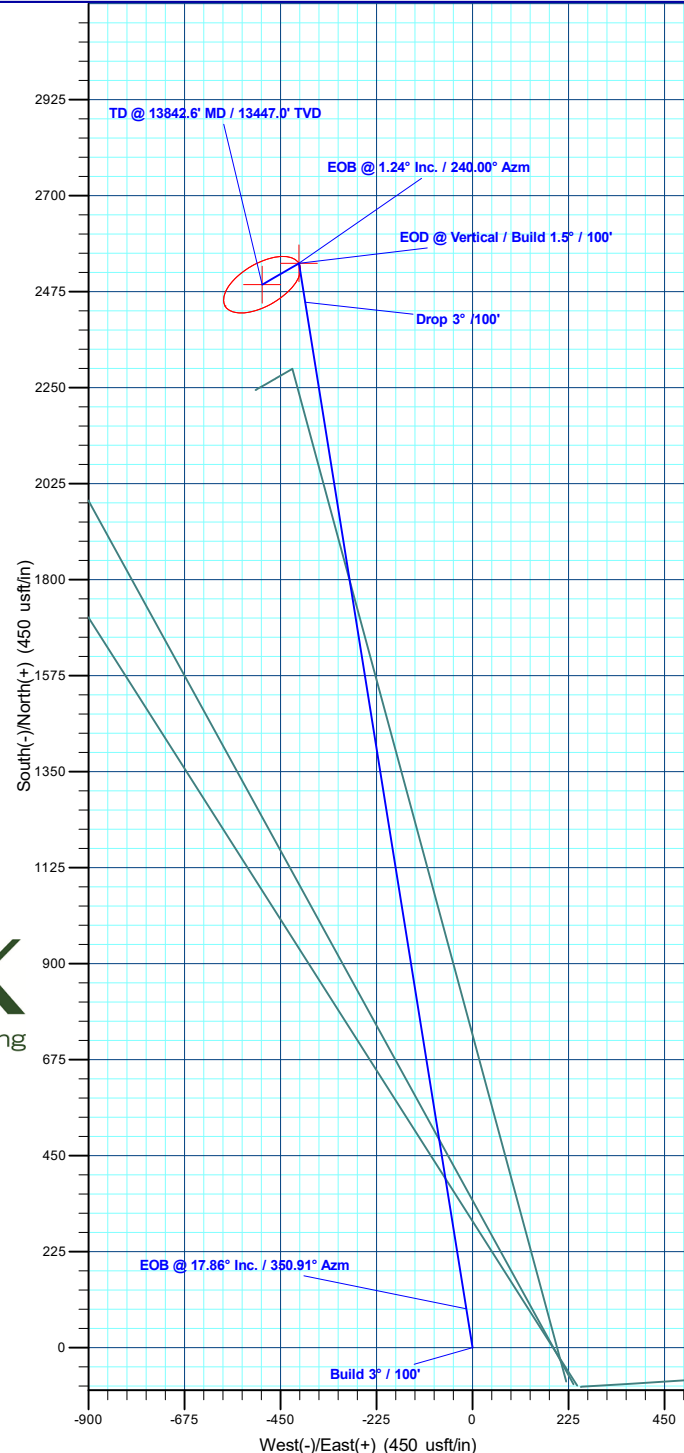
+N/-S	+E/-W	Ground Level : 8029.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14433291.20	2454837.10	39.709146	-108.104438 z 13C-7

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3498.0	3644.8	Wasatch
6607.0	6911.2	Wasatch G
6907.0	7226.4	Fort Union
8789.0	9183.6	Ohio Creek
9387.0	9781.7	Williams Fork
12517.0	12912.4	Cameo
13147.0	13542.6	Rollins



**T M** Azimuths to True North  
 Magnetic North: 9.07°  
 Magnetic Field Strength: 50801.2nT  
 Dip Angle: 65.65°  
 Date: 7/15/2024  
 Model: HDGM2024



Plan: Design #5 (ELU A18 FED 13C-7 495/OH)

Created By: Will Jircik Date: 12:44, July 15 2024



## **Caerus Oil & Gas**

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 13C-7 495 - Slot z 13C-7

OH

Plan: Design #5

## **KLX Well Planning Report**

15 July, 2024



<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 13C-7 495 - Slot z 13C-7
<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 13C-7 495	<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 Fee	<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)		

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

<b>Well</b>	ELU A18 FED 13C-7 495 - Slot z 13C-7					
<b>Well Position</b>	<b>+N/-S</b>	6.1 usft	<b>Northing:</b>	14,433,291.20 usft	<b>Latitude:</b>	39.709146
	<b>+E/-W</b>	-16.9 usft	<b>Easting:</b>	2,454,837.10 usft	<b>Longitude:</b>	-108.104438
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	8,029.0 usft

<b>Wellbore</b>	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	7/15/2024	9.07	65.65	50,801.20000000

<b>Design</b>	Design #5				
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<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	348.80	

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
795.2	17.86	350.91	785.6	90.8	-14.5	3.00	3.00	0.00	350.91	
8,588.4	17.86	350.91	8,203.4	2,450.4	-392.0	0.00	0.00	0.00	0.00	
9,183.6	0.00	0.00	8,789.0	2,541.2	-406.5	3.00	-3.00	0.00	180.00	z 13C-7 - OHCR
9,266.3	1.24	240.00	8,871.7	2,540.8	-407.3	1.50	1.50	-145.06	240.00	
13,842.6	1.24	240.00	13,447.0	2,491.2	-493.1	0.00	0.00	0.00	0.00	z 13C-7 - PBHL

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 13C-7 495 - Slot z 13C-7
<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 13C-7 495	<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
<b>Build 3° / 100'</b>									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	350.91	300.0	2.6	-0.4	2.6	3.00	3.00	0.00
400.0	6.00	350.91	399.6	10.3	-1.7	10.5	3.00	3.00	0.00
500.0	9.00	350.91	498.8	23.2	-3.7	23.5	3.00	3.00	0.00
600.0	12.00	350.91	597.1	41.2	-6.6	41.7	3.00	3.00	0.00
700.0	15.00	350.91	694.3	64.3	-10.3	65.0	3.00	3.00	0.00
<b>EOB @ 17.86° Inc. / 350.91° Azm</b>									
795.2	17.86	350.91	785.6	90.8	-14.5	91.9	3.00	3.00	0.00
800.0	17.86	350.91	790.2	92.3	-14.8	93.4	0.00	0.00	0.00
900.0	17.86	350.91	885.4	122.6	-19.6	124.0	0.00	0.00	0.00
1,000.0	17.86	350.91	980.5	152.9	-24.4	154.7	0.00	0.00	0.00
1,100.0	17.86	350.91	1,075.7	183.1	-29.3	185.3	0.00	0.00	0.00
1,200.0	17.86	350.91	1,170.9	213.4	-34.1	216.0	0.00	0.00	0.00
1,300.0	17.86	350.91	1,266.1	243.7	-39.0	246.6	0.00	0.00	0.00
1,400.0	17.86	350.91	1,361.3	274.0	-43.8	277.3	0.00	0.00	0.00
1,500.0	17.86	350.91	1,456.5	304.2	-48.7	307.9	0.00	0.00	0.00
1,600.0	17.86	350.91	1,551.6	334.5	-53.5	338.5	0.00	0.00	0.00
1,700.0	17.86	350.91	1,646.8	364.8	-58.4	369.2	0.00	0.00	0.00
1,800.0	17.86	350.91	1,742.0	395.1	-63.2	399.8	0.00	0.00	0.00
1,900.0	17.86	350.91	1,837.2	425.3	-68.0	430.5	0.00	0.00	0.00
2,000.0	17.86	350.91	1,932.4	455.6	-72.9	461.1	0.00	0.00	0.00
2,100.0	17.86	350.91	2,027.6	485.9	-77.7	491.7	0.00	0.00	0.00
2,200.0	17.86	350.91	2,122.7	516.2	-82.6	522.4	0.00	0.00	0.00
2,300.0	17.86	350.91	2,217.9	546.5	-87.4	553.0	0.00	0.00	0.00
2,400.0	17.86	350.91	2,313.1	576.7	-92.3	583.7	0.00	0.00	0.00
2,500.0	17.86	350.91	2,408.3	607.0	-97.1	614.3	0.00	0.00	0.00
2,600.0	17.86	350.91	2,503.5	637.3	-101.9	644.9	0.00	0.00	0.00
2,700.0	17.86	350.91	2,598.7	667.6	-106.8	675.6	0.00	0.00	0.00
2,800.0	17.86	350.91	2,693.8	697.8	-111.6	706.2	0.00	0.00	0.00
2,900.0	17.86	350.91	2,789.0	728.1	-116.5	736.9	0.00	0.00	0.00
3,000.0	17.86	350.91	2,884.2	758.4	-121.3	767.5	0.00	0.00	0.00
3,100.0	17.86	350.91	2,979.4	788.7	-126.2	798.2	0.00	0.00	0.00
3,200.0	17.86	350.91	3,074.6	818.9	-131.0	828.8	0.00	0.00	0.00
3,300.0	17.86	350.91	3,169.8	849.2	-135.8	859.4	0.00	0.00	0.00
3,400.0	17.86	350.91	3,264.9	879.5	-140.7	890.1	0.00	0.00	0.00
3,500.0	17.86	350.91	3,360.1	909.8	-145.5	920.7	0.00	0.00	0.00
3,600.0	17.86	350.91	3,455.3	940.1	-150.4	951.4	0.00	0.00	0.00
<b>Wasatch</b>									
3,644.8	17.86	350.91	3,498.0	953.6	-152.5	965.1	0.00	0.00	0.00
3,700.0	17.86	350.91	3,550.5	970.3	-155.2	982.0	0.00	0.00	0.00
3,800.0	17.86	350.91	3,645.7	1,000.6	-160.1	1,012.6	0.00	0.00	0.00
3,900.0	17.86	350.91	3,740.9	1,030.9	-164.9	1,043.3	0.00	0.00	0.00
4,000.0	17.86	350.91	3,836.0	1,061.2	-169.7	1,073.9	0.00	0.00	0.00
4,100.0	17.86	350.91	3,931.2	1,091.4	-174.6	1,104.6	0.00	0.00	0.00
4,200.0	17.86	350.91	4,026.4	1,121.7	-179.4	1,135.2	0.00	0.00	0.00
4,300.0	17.86	350.91	4,121.6	1,152.0	-184.3	1,165.8	0.00	0.00	0.00
4,400.0	17.86	350.91	4,216.8	1,182.3	-189.1	1,196.5	0.00	0.00	0.00
4,500.0	17.86	350.91	4,312.0	1,212.5	-194.0	1,227.1	0.00	0.00	0.00
4,600.0	17.86	350.91	4,407.1	1,242.8	-198.8	1,257.8	0.00	0.00	0.00
4,700.0	17.86	350.91	4,502.3	1,273.1	-203.6	1,288.4	0.00	0.00	0.00

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 13C-7 495 - Slot z 13C-7
<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 13C-7 495	<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)	
4,800.0	17.86	350.91	4,597.5	1,303.4	-208.5	1,319.1	0.00	0.00	0.00	
4,900.0	17.86	350.91	4,692.7	1,333.7	-213.3	1,349.7	0.00	0.00	0.00	
5,000.0	17.86	350.91	4,787.9	1,363.9	-218.2	1,380.3	0.00	0.00	0.00	
5,100.0	17.86	350.91	4,883.1	1,394.2	-223.0	1,411.0	0.00	0.00	0.00	
5,200.0	17.86	350.91	4,978.2	1,424.5	-227.9	1,441.6	0.00	0.00	0.00	
5,300.0	17.86	350.91	5,073.4	1,454.8	-232.7	1,472.3	0.00	0.00	0.00	
5,400.0	17.86	350.91	5,168.6	1,485.0	-237.5	1,502.9	0.00	0.00	0.00	
5,500.0	17.86	350.91	5,263.8	1,515.3	-242.4	1,533.5	0.00	0.00	0.00	
5,600.0	17.86	350.91	5,359.0	1,545.6	-247.2	1,564.2	0.00	0.00	0.00	
5,700.0	17.86	350.91	5,454.2	1,575.9	-252.1	1,594.8	0.00	0.00	0.00	
5,800.0	17.86	350.91	5,549.3	1,606.2	-256.9	1,625.5	0.00	0.00	0.00	
5,900.0	17.86	350.91	5,644.5	1,636.4	-261.8	1,656.1	0.00	0.00	0.00	
6,000.0	17.86	350.91	5,739.7	1,666.7	-266.6	1,686.7	0.00	0.00	0.00	
6,100.0	17.86	350.91	5,834.9	1,697.0	-271.4	1,717.4	0.00	0.00	0.00	
6,200.0	17.86	350.91	5,930.1	1,727.3	-276.3	1,748.0	0.00	0.00	0.00	
6,300.0	17.86	350.91	6,025.3	1,757.5	-281.1	1,778.7	0.00	0.00	0.00	
6,400.0	17.86	350.91	6,120.4	1,787.8	-286.0	1,809.3	0.00	0.00	0.00	
6,500.0	17.86	350.91	6,215.6	1,818.1	-290.8	1,840.0	0.00	0.00	0.00	
6,600.0	17.86	350.91	6,310.8	1,848.4	-295.7	1,870.6	0.00	0.00	0.00	
6,700.0	17.86	350.91	6,406.0	1,878.6	-300.5	1,901.2	0.00	0.00	0.00	
6,800.0	17.86	350.91	6,501.2	1,908.9	-305.3	1,931.9	0.00	0.00	0.00	
6,900.0	17.86	350.91	6,596.4	1,939.2	-310.2	1,962.5	0.00	0.00	0.00	
<b>Wasatch G</b>										
6,911.2	17.86	350.91	6,607.0	1,942.6	-310.7	1,965.9	0.00	0.00	0.00	
7,000.0	17.86	350.91	6,691.5	1,969.5	-315.0	1,993.2	0.00	0.00	0.00	
7,100.0	17.86	350.91	6,786.7	1,999.8	-319.9	2,023.8	0.00	0.00	0.00	
7,200.0	17.86	350.91	6,881.9	2,030.0	-324.7	2,054.4	0.00	0.00	0.00	
<b>Fort Union</b>										
7,226.4	17.86	350.91	6,907.0	2,038.0	-326.0	2,062.5	0.00	0.00	0.00	
7,300.0	17.86	350.91	6,977.1	2,060.3	-329.6	2,085.1	0.00	0.00	0.00	
7,400.0	17.86	350.91	7,072.3	2,090.6	-334.4	2,115.7	0.00	0.00	0.00	
7,500.0	17.86	350.91	7,167.5	2,120.9	-339.2	2,146.4	0.00	0.00	0.00	
7,600.0	17.86	350.91	7,262.6	2,151.1	-344.1	2,177.0	0.00	0.00	0.00	
7,700.0	17.86	350.91	7,357.8	2,181.4	-348.9	2,207.7	0.00	0.00	0.00	
7,800.0	17.86	350.91	7,453.0	2,211.7	-353.8	2,238.3	0.00	0.00	0.00	
7,900.0	17.86	350.91	7,548.2	2,242.0	-358.6	2,268.9	0.00	0.00	0.00	
8,000.0	17.86	350.91	7,643.4	2,272.2	-363.5	2,299.6	0.00	0.00	0.00	
8,100.0	17.86	350.91	7,738.6	2,302.5	-368.3	2,330.2	0.00	0.00	0.00	
8,200.0	17.86	350.91	7,833.7	2,332.8	-373.1	2,360.9	0.00	0.00	0.00	
8,300.0	17.86	350.91	7,928.9	2,363.1	-378.0	2,391.5	0.00	0.00	0.00	
8,400.0	17.86	350.91	8,024.1	2,393.4	-382.8	2,422.1	0.00	0.00	0.00	
8,500.0	17.86	350.91	8,119.3	2,423.6	-387.7	2,452.8	0.00	0.00	0.00	
<b>Drop 3° /100'</b>										
8,588.4	17.86	350.91	8,203.4	2,450.4	-392.0	2,479.9	0.00	0.00	0.00	
8,600.0	17.51	350.91	8,214.5	2,453.9	-392.5	2,483.4	3.00	-3.00	0.00	
8,700.0	14.51	350.91	8,310.6	2,481.1	-396.9	2,510.9	3.00	-3.00	0.00	
8,800.0	11.51	350.91	8,408.0	2,503.3	-400.4	2,533.4	3.00	-3.00	0.00	
8,900.0	8.51	350.91	8,506.5	2,520.5	-403.2	2,550.8	3.00	-3.00	0.00	
9,000.0	5.51	350.91	8,605.7	2,532.5	-405.1	2,563.0	3.00	-3.00	0.00	
9,100.0	2.51	350.91	8,705.5	2,539.4	-406.2	2,570.0	3.00	-3.00	0.00	
<b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b>										
9,183.6	0.00	0.00	8,789.0	2,541.2	-406.5	2,571.8	3.00	-3.00	0.00	
9,200.0	0.25	240.00	8,805.4	2,541.2	-406.5	2,571.8	1.50	1.50	0.00	
<b>EOB @ 1.24° Inc. / 240.00° Azm</b>										

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 13C-7 495 - Slot z 13C-7
<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 13C-7 495	<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)	
9,266.3	1.24	240.00	8,871.7	2,540.8	-407.3	2,571.5	1.50	1.50	0.00	
9,300.0	1.24	240.00	8,905.4	2,540.4	-407.9	2,571.3	0.00	0.00	0.00	
9,400.0	1.24	240.00	9,005.4	2,539.3	-409.8	2,570.6	0.00	0.00	0.00	
9,500.0	1.24	240.00	9,105.4	2,538.2	-411.6	2,569.9	0.00	0.00	0.00	
9,600.0	1.24	240.00	9,205.4	2,537.2	-413.5	2,569.2	0.00	0.00	0.00	
9,700.0	1.24	240.00	9,305.3	2,536.1	-415.4	2,568.5	0.00	0.00	0.00	
<b>Williams Fork</b>										
9,781.7	1.24	240.00	9,387.0	2,535.2	-416.9	2,567.9	0.00	0.00	0.00	
9,800.0	1.24	240.00	9,405.3	2,535.0	-417.3	2,567.8	0.00	0.00	0.00	
9,900.0	1.24	240.00	9,505.3	2,533.9	-419.1	2,567.1	0.00	0.00	0.00	
10,000.0	1.24	240.00	9,605.3	2,532.8	-421.0	2,566.4	0.00	0.00	0.00	
10,100.0	1.24	240.00	9,705.2	2,531.8	-422.9	2,565.7	0.00	0.00	0.00	
10,200.0	1.24	240.00	9,805.2	2,530.7	-424.8	2,565.0	0.00	0.00	0.00	
10,300.0	1.24	240.00	9,905.2	2,529.6	-426.6	2,564.3	0.00	0.00	0.00	
10,400.0	1.24	240.00	10,005.2	2,528.5	-428.5	2,563.6	0.00	0.00	0.00	
10,500.0	1.24	240.00	10,105.1	2,527.4	-430.4	2,562.9	0.00	0.00	0.00	
10,600.0	1.24	240.00	10,205.1	2,526.3	-432.3	2,562.2	0.00	0.00	0.00	
10,700.0	1.24	240.00	10,305.1	2,525.3	-434.2	2,561.5	0.00	0.00	0.00	
10,800.0	1.24	240.00	10,405.1	2,524.2	-436.0	2,560.8	0.00	0.00	0.00	
10,900.0	1.24	240.00	10,505.1	2,523.1	-437.9	2,560.1	0.00	0.00	0.00	
11,000.0	1.24	240.00	10,605.0	2,522.0	-439.8	2,559.4	0.00	0.00	0.00	
11,100.0	1.24	240.00	10,705.0	2,520.9	-441.7	2,558.7	0.00	0.00	0.00	
11,200.0	1.24	240.00	10,805.0	2,519.8	-443.5	2,558.0	0.00	0.00	0.00	
11,300.0	1.24	240.00	10,905.0	2,518.8	-445.4	2,557.3	0.00	0.00	0.00	
11,400.0	1.24	240.00	11,004.9	2,517.7	-447.3	2,556.6	0.00	0.00	0.00	
11,500.0	1.24	240.00	11,104.9	2,516.6	-449.2	2,555.9	0.00	0.00	0.00	
11,600.0	1.24	240.00	11,204.9	2,515.5	-451.0	2,555.2	0.00	0.00	0.00	
11,700.0	1.24	240.00	11,304.9	2,514.4	-452.9	2,554.5	0.00	0.00	0.00	
11,800.0	1.24	240.00	11,404.8	2,513.3	-454.8	2,553.8	0.00	0.00	0.00	
11,900.0	1.24	240.00	11,504.8	2,512.3	-456.7	2,553.1	0.00	0.00	0.00	
12,000.0	1.24	240.00	11,604.8	2,511.2	-458.5	2,552.4	0.00	0.00	0.00	
12,100.0	1.24	240.00	11,704.8	2,510.1	-460.4	2,551.7	0.00	0.00	0.00	
12,200.0	1.24	240.00	11,804.7	2,509.0	-462.3	2,551.0	0.00	0.00	0.00	
12,300.0	1.24	240.00	11,904.7	2,507.9	-464.2	2,550.3	0.00	0.00	0.00	
12,400.0	1.24	240.00	12,004.7	2,506.8	-466.0	2,549.6	0.00	0.00	0.00	
12,500.0	1.24	240.00	12,104.7	2,505.8	-467.9	2,548.9	0.00	0.00	0.00	
12,600.0	1.24	240.00	12,204.7	2,504.7	-469.8	2,548.2	0.00	0.00	0.00	
12,700.0	1.24	240.00	12,304.6	2,503.6	-471.7	2,547.5	0.00	0.00	0.00	
12,800.0	1.24	240.00	12,404.6	2,502.5	-473.5	2,546.8	0.00	0.00	0.00	
12,900.0	1.24	240.00	12,504.6	2,501.4	-475.4	2,546.1	0.00	0.00	0.00	
<b>Cameo</b>										
12,912.4	1.24	240.00	12,517.0	2,501.3	-475.6	2,546.0	0.00	0.00	0.00	
13,000.0	1.24	240.00	12,604.6	2,500.4	-477.3	2,545.4	0.00	0.00	0.00	
13,100.0	1.24	240.00	12,704.5	2,499.3	-479.2	2,544.7	0.00	0.00	0.00	
13,200.0	1.24	240.00	12,804.5	2,498.2	-481.0	2,544.0	0.00	0.00	0.00	
13,300.0	1.24	240.00	12,904.5	2,497.1	-482.9	2,543.3	0.00	0.00	0.00	
13,400.0	1.24	240.00	13,004.5	2,496.0	-484.8	2,542.6	0.00	0.00	0.00	
13,500.0	1.24	240.00	13,104.4	2,494.9	-486.7	2,541.9	0.00	0.00	0.00	
<b>Rollins</b>										
13,542.6	1.24	240.00	13,147.0	2,494.5	-487.5	2,541.7	0.00	0.00	0.00	
13,600.0	1.24	240.00	13,204.4	2,493.9	-488.5	2,541.3	0.00	0.00	0.00	
13,700.0	1.24	240.00	13,304.4	2,492.8	-490.4	2,540.6	0.00	0.00	0.00	
13,800.0	1.24	240.00	13,404.4	2,491.7	-492.3	2,539.9	0.00	0.00	0.00	

<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well ELU A18 FED 13C-7 495 - Slot z 13C-7
<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 13C-7 495	<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)
<b>TD @ 13842.6' MD / 13447.0' TVD</b>									
13,842.6	1.24	240.00	13,447.0	2,491.2	-493.1	2,539.6	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
z 13C-7 - OHCR - plan hits target center - Point	0.00	0.00	8,789.0	2,541.2	-406.5	14,435,817.97	2,454,348.75	39.716120	-108.105883
z 13C-7 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,447.0	2,491.2	-493.1	14,435,765.20	2,454,263.80	39.715983	-108.106191

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,644.8	3,498.0	Wasatch				
6,911.2	6,607.0	Wasatch G				
7,226.4	6,907.0	Fort Union				
9,183.6	8,789.0	Ohio Creek				
9,781.7	9,387.0	Williams Fork				
12,912.4	12,517.0	Cameo				
13,542.6	13,147.0	Rollins				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
200.0	200.0	0.0	0.0	Build 3° / 100'
795.2	785.6	90.8	-14.5	EOB @ 17.86° Inc. / 350.91° Azm
8,588.4	8,203.4	2,450.4	-392.0	Drop 3° / 100'
9,183.6	8,789.0	2,541.2	-406.5	EOD @ Vertical / Build 1.5° / 100'
9,266.3	8,871.7	2,540.8	-407.3	EOB @ 1.24° Inc. / 240.00° Azm
13,842.6	13,447.0	2,491.2	-493.1	TD @ 13842.6' MD / 13447.0' TVD