

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 15D-7 495
Wellbore: Wellbore #1
Design: Design #4
Latitude: 39.709028
Longitude: -108.104018
Ground Level: 8029.0
RKB @ 8059.0usft (30')

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 @ 8059.0usft (30')
Section (VS) Reference: Slot - 15D-7(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPth	MDPath	Formation
3375.0	3462.1	Wasatch
6593.0	6779.9	Wasatch G
6893.0	7089.2	Fort Union
8762.0	9006.5	Ohio Creek
9354.0	9598.6	Williams Fork
12477.0	12722.4	Cameo
13163.0	13408.5	Rollins

SECTION DETAILS

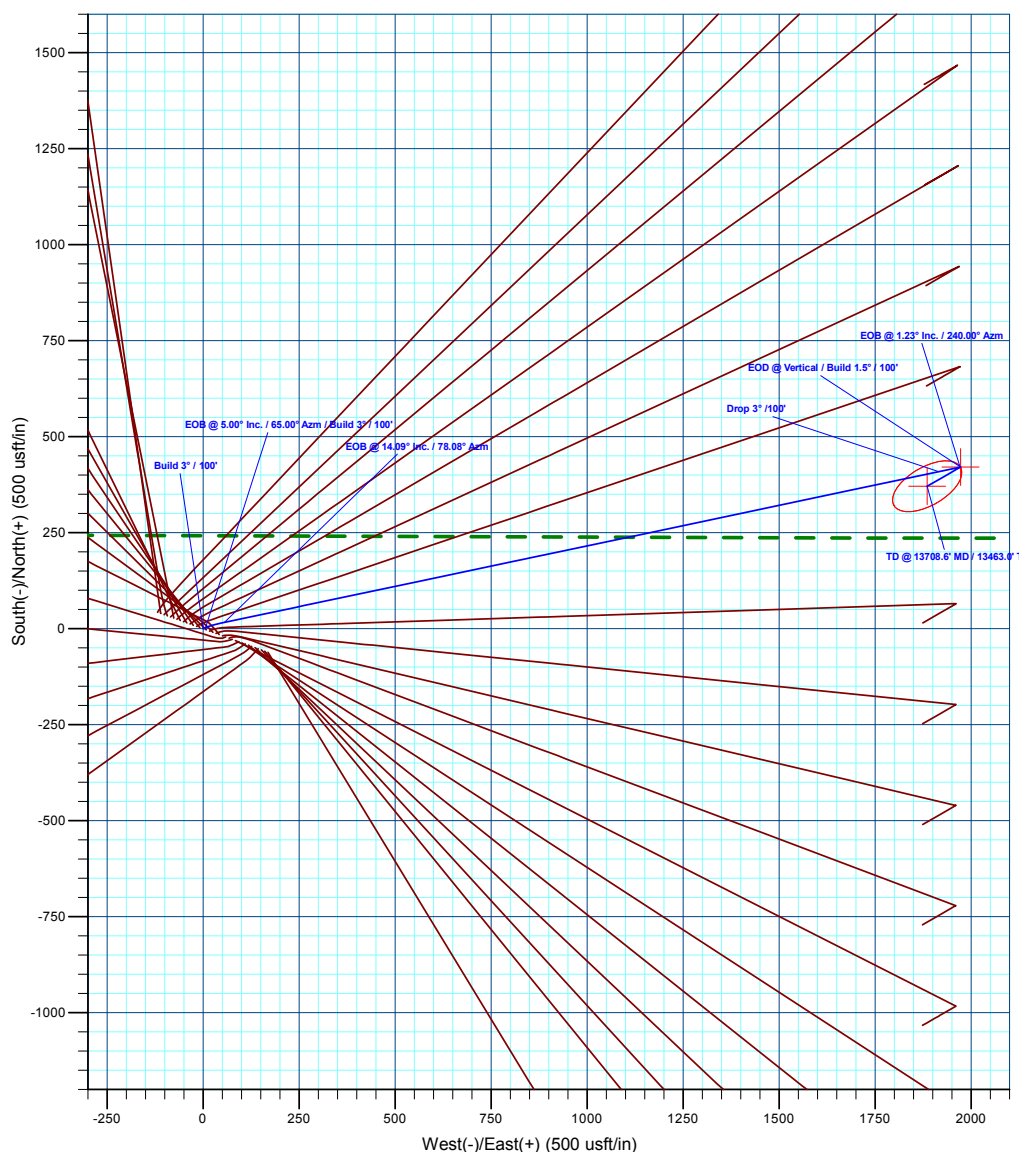
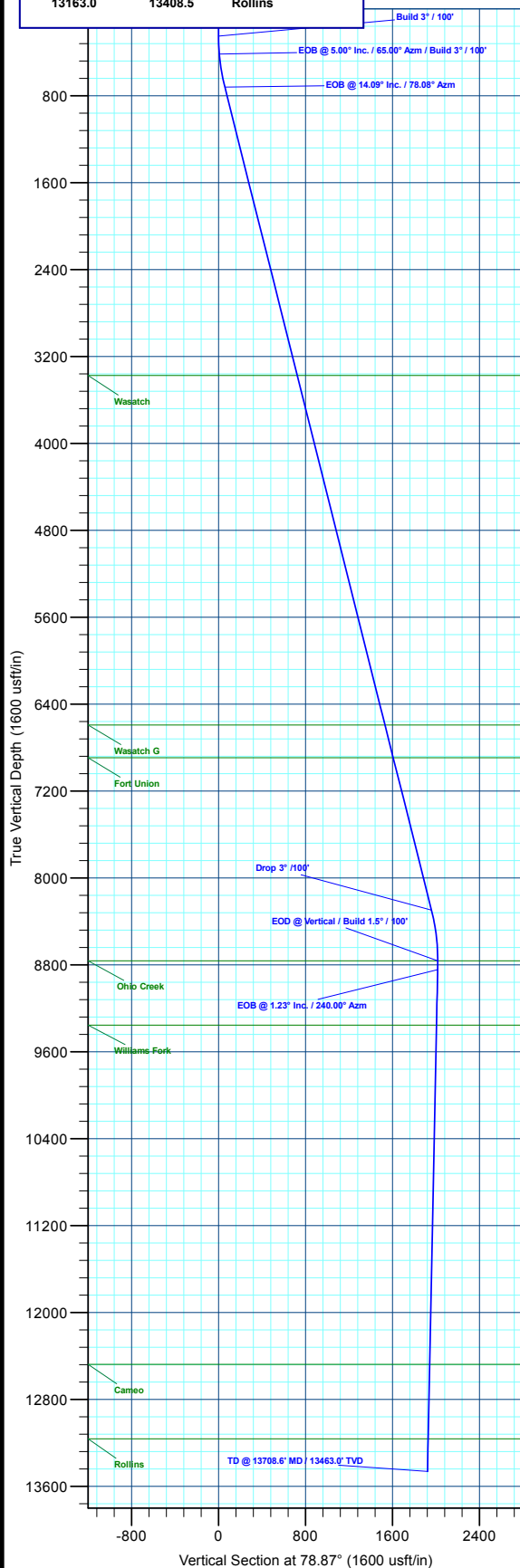
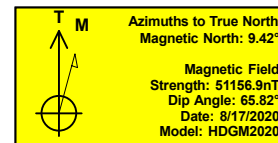
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
416.7	5.00	65.00	416.5	3.1	6.6	3.00	65.00	7.1	EOB @ 5.00° Inc. / 65.00° Azm / Build 3° / 100'
726.3	14.09	78.08	721.5	16.6	55.8	3.00	19.97	58.0	EOB @ 14.09° Inc. / 78.08° Azm
8536.8	14.09	78.08	8297.0	409.2	1916.3	0.00	0.00	1959.3	Drop 3° / 100'
9006.5	0.00	0.00	8762.0	421.1	1972.6	3.00	180.00	2016.8	EOD @ Vertical / Build 1.5° / 100'
9088.5	1.23	240.00	8843.9	420.6	1971.8	1.50	240.00	2015.9	EOB @ 1.23° Inc. / 240.00° Azm
13708.6	1.23	240.00	13463.0	371.1	1886.0	0.00	0.00	1922.1	TD @ 13708.6° MD / 13463.0° TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
15D-7 - OHCR	8762.0	421.1	1972.6	14433736.67	2456914.74	39.710183	-108.097009
15D-7 - PBHL	13463.0	371.1	1886.0	14433683.90	2456829.80	39.710046	-108.097317

WELL DETAILS: ELU A18 FED 15D-7 495

Ground Level : 8029.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	14433252.10	2454956.80	39.709028	-108.104018	15D-7	



Plan: Design #4 (ELU A18 FED 15D-7 495/Wellbore #1)

Created By: Will Jircik

Date: 19:37, October 18 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

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

Wellbore #1

Plan: Design #4

KLX Well Planning Report

18 October, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-7
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 15D-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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:	14,433,279.80 usft	Latitude:	39.709109
From:	Map	Easting:	2,454,904.40 usft	Longitude:	-108.104201
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.85 °

Well	ELU A18 FED 15D-7 495 - Slot 15D-7					
Well Position	+N/-S	-29.4 usft	Northing:	14,433,252.10 usft	Latitude:	39.709028
	+E/-W	51.5 usft	Easting:	2,454,956.80 usft	Longitude:	-108.104018
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,029.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	8/17/2020	9.42	65.82	51,156.90000000

Design	Design #4			
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	78.87

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	65.00	416.5	3.1	6.6	3.00	3.00	0.00	65.00	
726.3	14.09	78.08	721.5	16.6	55.8	3.00	2.94	4.23	19.97	
8,536.8	14.09	78.08	8,297.0	409.2	1,916.3	0.00	0.00	0.00	0.00	
9,006.5	0.00	0.00	8,762.0	421.1	1,972.6	3.00	-3.00	0.00	180.00	15D-7 - OHCR
9,088.5	1.23	240.00	8,843.9	420.6	1,971.8	1.50	1.50	-146.42	240.00	
13,708.6	1.23	240.00	13,463.0	371.1	1,886.0	0.00	0.00	0.00	0.00	15D-7 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-7
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 15D-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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	65.00	300.0	0.3	0.6	0.6	3.00	3.00	0.00
400.0	4.50	65.00	399.8	2.5	5.3	5.7	3.00	3.00	0.00
EOB @ 5.00° Inc. / 65.00° Azm / Build 3° / 100'									
416.7	5.00	65.00	416.5	3.1	6.6	7.1	3.00	3.00	0.00
500.0	7.40	71.64	499.3	6.3	15.0	15.9	3.00	2.88	7.97
600.0	10.34	75.51	598.1	10.6	29.8	31.3	3.00	2.94	3.86
700.0	13.31	77.67	696.0	15.3	49.7	51.7	3.00	2.97	2.16
EOB @ 14.09° Inc. / 78.08° Azm									
726.3	14.09	78.08	721.5	16.6	55.8	58.0	3.00	2.98	1.59
800.0	14.09	78.08	793.0	20.3	73.4	75.9	0.00	0.00	0.00
900.0	14.09	78.08	890.0	25.3	97.2	100.2	0.00	0.00	0.00
1,000.0	14.09	78.08	987.0	30.3	121.0	124.6	0.00	0.00	0.00
1,100.0	14.09	78.08	1,084.0	35.4	144.8	148.9	0.00	0.00	0.00
1,200.0	14.09	78.08	1,181.0	40.4	168.6	173.3	0.00	0.00	0.00
1,300.0	14.09	78.08	1,277.9	45.4	192.5	197.6	0.00	0.00	0.00
1,400.0	14.09	78.08	1,374.9	50.5	216.3	222.0	0.00	0.00	0.00
1,500.0	14.09	78.08	1,471.9	55.5	240.1	246.3	0.00	0.00	0.00
1,600.0	14.09	78.08	1,568.9	60.5	263.9	270.6	0.00	0.00	0.00
1,700.0	14.09	78.08	1,665.9	65.5	287.7	295.0	0.00	0.00	0.00
1,800.0	14.09	78.08	1,762.9	70.6	311.6	319.3	0.00	0.00	0.00
1,900.0	14.09	78.08	1,859.9	75.6	335.4	343.7	0.00	0.00	0.00
2,000.0	14.09	78.08	1,956.9	80.6	359.2	368.0	0.00	0.00	0.00
2,100.0	14.09	78.08	2,053.9	85.6	383.0	392.4	0.00	0.00	0.00
2,200.0	14.09	78.08	2,150.9	90.7	406.9	416.7	0.00	0.00	0.00
2,300.0	14.09	78.08	2,247.9	95.7	430.7	441.0	0.00	0.00	0.00
2,400.0	14.09	78.08	2,344.9	100.7	454.5	465.4	0.00	0.00	0.00
2,500.0	14.09	78.08	2,441.8	105.7	478.3	489.7	0.00	0.00	0.00
2,600.0	14.09	78.08	2,538.8	110.8	502.1	514.1	0.00	0.00	0.00
2,700.0	14.09	78.08	2,635.8	115.8	526.0	538.4	0.00	0.00	0.00
2,800.0	14.09	78.08	2,732.8	120.8	549.8	562.8	0.00	0.00	0.00
2,900.0	14.09	78.08	2,829.8	125.9	573.6	587.1	0.00	0.00	0.00
3,000.0	14.09	78.08	2,926.8	130.9	597.4	611.5	0.00	0.00	0.00
3,100.0	14.09	78.08	3,023.8	135.9	621.2	635.8	0.00	0.00	0.00
3,200.0	14.09	78.08	3,120.8	140.9	645.1	660.1	0.00	0.00	0.00
3,300.0	14.09	78.08	3,217.8	146.0	668.9	684.5	0.00	0.00	0.00
3,400.0	14.09	78.08	3,314.8	151.0	692.7	708.8	0.00	0.00	0.00
Wasatch									
3,462.1	14.09	78.08	3,375.0	154.1	707.5	723.9	0.00	0.00	0.00
3,500.0	14.09	78.08	3,411.8	156.0	716.5	733.2	0.00	0.00	0.00
3,600.0	14.09	78.08	3,508.7	161.0	740.3	757.5	0.00	0.00	0.00
3,700.0	14.09	78.08	3,605.7	166.1	764.2	781.9	0.00	0.00	0.00
3,800.0	14.09	78.08	3,702.7	171.1	788.0	806.2	0.00	0.00	0.00
3,900.0	14.09	78.08	3,799.7	176.1	811.8	830.5	0.00	0.00	0.00
4,000.0	14.09	78.08	3,896.7	181.1	835.6	854.9	0.00	0.00	0.00
4,100.0	14.09	78.08	3,993.7	186.2	859.5	879.2	0.00	0.00	0.00
4,200.0	14.09	78.08	4,090.7	191.2	883.3	903.6	0.00	0.00	0.00
4,300.0	14.09	78.08	4,187.7	196.2	907.1	927.9	0.00	0.00	0.00
4,400.0	14.09	78.08	4,284.7	201.3	930.9	952.3	0.00	0.00	0.00
4,500.0	14.09	78.08	4,381.7	206.3	954.7	976.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-7
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 15D-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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	14.09	78.08	4,478.7	211.3	978.6	1,000.9	0.00	0.00	0.00
4,700.0	14.09	78.08	4,575.6	216.3	1,002.4	1,025.3	0.00	0.00	0.00
4,800.0	14.09	78.08	4,672.6	221.4	1,026.2	1,049.6	0.00	0.00	0.00
4,900.0	14.09	78.08	4,769.6	226.4	1,050.0	1,074.0	0.00	0.00	0.00
5,000.0	14.09	78.08	4,866.6	231.4	1,073.8	1,098.3	0.00	0.00	0.00
5,100.0	14.09	78.08	4,963.6	236.4	1,097.7	1,122.7	0.00	0.00	0.00
5,200.0	14.09	78.08	5,060.6	241.5	1,121.5	1,147.0	0.00	0.00	0.00
5,300.0	14.09	78.08	5,157.6	246.5	1,145.3	1,171.3	0.00	0.00	0.00
5,400.0	14.09	78.08	5,254.6	251.5	1,169.1	1,195.7	0.00	0.00	0.00
5,500.0	14.09	78.08	5,351.6	256.5	1,192.9	1,220.0	0.00	0.00	0.00
5,600.0	14.09	78.08	5,448.6	261.6	1,216.8	1,244.4	0.00	0.00	0.00
5,700.0	14.09	78.08	5,545.6	266.6	1,240.6	1,268.7	0.00	0.00	0.00
5,800.0	14.09	78.08	5,642.6	271.6	1,264.4	1,293.1	0.00	0.00	0.00
5,900.0	14.09	78.08	5,739.5	276.7	1,288.2	1,317.4	0.00	0.00	0.00
6,000.0	14.09	78.08	5,836.5	281.7	1,312.1	1,341.7	0.00	0.00	0.00
6,100.0	14.09	78.08	5,933.5	286.7	1,335.9	1,366.1	0.00	0.00	0.00
6,200.0	14.09	78.08	6,030.5	291.7	1,359.7	1,390.4	0.00	0.00	0.00
6,300.0	14.09	78.08	6,127.5	296.8	1,383.5	1,414.8	0.00	0.00	0.00
6,400.0	14.09	78.08	6,224.5	301.8	1,407.3	1,439.1	0.00	0.00	0.00
6,500.0	14.09	78.08	6,321.5	306.8	1,431.2	1,463.5	0.00	0.00	0.00
6,600.0	14.09	78.08	6,418.5	311.8	1,455.0	1,487.8	0.00	0.00	0.00
6,700.0	14.09	78.08	6,515.5	316.9	1,478.8	1,512.2	0.00	0.00	0.00
Wasatch G									
6,779.9	14.09	78.08	6,593.0	320.9	1,497.8	1,531.6	0.00	0.00	0.00
6,800.0	14.09	78.08	6,612.5	321.9	1,502.6	1,536.5	0.00	0.00	0.00
6,900.0	14.09	78.08	6,709.5	326.9	1,526.4	1,560.8	0.00	0.00	0.00
7,000.0	14.09	78.08	6,806.4	331.9	1,550.3	1,585.2	0.00	0.00	0.00
Fort Union									
7,089.2	14.09	78.08	6,893.0	336.4	1,571.5	1,606.9	0.00	0.00	0.00
7,100.0	14.09	78.08	6,903.4	337.0	1,574.1	1,609.5	0.00	0.00	0.00
7,200.0	14.09	78.08	7,000.4	342.0	1,597.9	1,633.9	0.00	0.00	0.00
7,300.0	14.09	78.08	7,097.4	347.0	1,621.7	1,658.2	0.00	0.00	0.00
7,400.0	14.09	78.08	7,194.4	352.1	1,645.5	1,682.6	0.00	0.00	0.00
7,500.0	14.09	78.08	7,291.4	357.1	1,669.4	1,706.9	0.00	0.00	0.00
7,600.0	14.09	78.08	7,388.4	362.1	1,693.2	1,731.2	0.00	0.00	0.00
7,700.0	14.09	78.08	7,485.4	367.1	1,717.0	1,755.6	0.00	0.00	0.00
7,800.0	14.09	78.08	7,582.4	372.2	1,740.8	1,779.9	0.00	0.00	0.00
7,900.0	14.09	78.08	7,679.4	377.2	1,764.7	1,804.3	0.00	0.00	0.00
8,000.0	14.09	78.08	7,776.4	382.2	1,788.5	1,828.6	0.00	0.00	0.00
8,100.0	14.09	78.08	7,873.3	387.2	1,812.3	1,853.0	0.00	0.00	0.00
8,200.0	14.09	78.08	7,970.3	392.3	1,836.1	1,877.3	0.00	0.00	0.00
8,300.0	14.09	78.08	8,067.3	397.3	1,859.9	1,901.6	0.00	0.00	0.00
8,400.0	14.09	78.08	8,164.3	402.3	1,883.8	1,926.0	0.00	0.00	0.00
8,500.0	14.09	78.08	8,261.3	407.3	1,907.6	1,950.3	0.00	0.00	0.00
Drop 3° / 100'									
8,536.8	14.09	78.08	8,297.0	409.2	1,916.3	1,959.3	0.00	0.00	0.00
8,600.0	12.20	78.08	8,358.5	412.2	1,930.4	1,973.7	3.00	-3.00	0.00
8,700.0	9.20	78.08	8,456.8	416.0	1,948.6	1,992.2	3.00	-3.00	0.00
8,800.0	6.20	78.08	8,555.9	418.8	1,961.7	2,005.6	3.00	-3.00	0.00
8,900.0	3.20	78.08	8,655.5	420.5	1,969.7	2,013.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
9,006.5	0.00	0.00	8,762.0	421.1	1,972.6	2,016.8	3.00	-3.00	0.00
EOB @ 1.23° Inc. / 240.00° Azm									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-7
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 15D-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
9,088.5	1.23	240.00	8,843.9	420.6	1,971.8	2,015.9	1.50	1.50	0.00
9,100.0	1.23	240.00	8,855.5	420.5	1,971.6	2,015.7	0.00	0.00	0.00
9,200.0	1.23	240.00	8,955.5	419.4	1,969.7	2,013.7	0.00	0.00	0.00
9,300.0	1.23	240.00	9,055.4	418.4	1,967.9	2,011.6	0.00	0.00	0.00
9,400.0	1.23	240.00	9,155.4	417.3	1,966.0	2,009.6	0.00	0.00	0.00
9,500.0	1.23	240.00	9,255.4	416.2	1,964.2	2,007.6	0.00	0.00	0.00
Williams Fork									
9,598.6	1.23	240.00	9,354.0	415.2	1,962.3	2,005.6	0.00	0.00	0.00
9,600.0	1.23	240.00	9,355.4	415.1	1,962.3	2,005.5	0.00	0.00	0.00
9,700.0	1.23	240.00	9,455.3	414.1	1,960.5	2,003.5	0.00	0.00	0.00
9,800.0	1.23	240.00	9,555.3	413.0	1,958.6	2,001.5	0.00	0.00	0.00
9,900.0	1.23	240.00	9,655.3	411.9	1,956.7	1,999.4	0.00	0.00	0.00
10,000.0	1.23	240.00	9,755.3	410.8	1,954.9	1,997.4	0.00	0.00	0.00
10,100.0	1.23	240.00	9,855.2	409.8	1,953.0	1,995.4	0.00	0.00	0.00
10,200.0	1.23	240.00	9,955.2	408.7	1,951.2	1,993.4	0.00	0.00	0.00
10,300.0	1.23	240.00	10,055.2	407.6	1,949.3	1,991.3	0.00	0.00	0.00
10,400.0	1.23	240.00	10,155.2	406.6	1,947.4	1,989.3	0.00	0.00	0.00
10,500.0	1.23	240.00	10,255.2	405.5	1,945.6	1,987.3	0.00	0.00	0.00
10,600.0	1.23	240.00	10,355.1	404.4	1,943.7	1,985.2	0.00	0.00	0.00
10,700.0	1.23	240.00	10,455.1	403.3	1,941.9	1,983.2	0.00	0.00	0.00
10,800.0	1.23	240.00	10,555.1	402.3	1,940.0	1,981.2	0.00	0.00	0.00
10,900.0	1.23	240.00	10,655.1	401.2	1,938.2	1,979.1	0.00	0.00	0.00
11,000.0	1.23	240.00	10,755.0	400.1	1,936.3	1,977.1	0.00	0.00	0.00
11,100.0	1.23	240.00	10,855.0	399.0	1,934.4	1,975.1	0.00	0.00	0.00
11,200.0	1.23	240.00	10,955.0	398.0	1,932.6	1,973.1	0.00	0.00	0.00
11,300.0	1.23	240.00	11,055.0	396.9	1,930.7	1,971.0	0.00	0.00	0.00
11,400.0	1.23	240.00	11,154.9	395.8	1,928.9	1,969.0	0.00	0.00	0.00
11,500.0	1.23	240.00	11,254.9	394.8	1,927.0	1,967.0	0.00	0.00	0.00
11,600.0	1.23	240.00	11,354.9	393.7	1,925.1	1,964.9	0.00	0.00	0.00
11,700.0	1.23	240.00	11,454.9	392.6	1,923.3	1,962.9	0.00	0.00	0.00
11,800.0	1.23	240.00	11,554.9	391.5	1,921.4	1,960.9	0.00	0.00	0.00
11,900.0	1.23	240.00	11,654.8	390.5	1,919.6	1,958.8	0.00	0.00	0.00
12,000.0	1.23	240.00	11,754.8	389.4	1,917.7	1,956.8	0.00	0.00	0.00
12,100.0	1.23	240.00	11,854.8	388.3	1,915.9	1,954.8	0.00	0.00	0.00
12,200.0	1.23	240.00	11,954.8	387.2	1,914.0	1,952.8	0.00	0.00	0.00
12,300.0	1.23	240.00	12,054.7	386.2	1,912.1	1,950.7	0.00	0.00	0.00
12,400.0	1.23	240.00	12,154.7	385.1	1,910.3	1,948.7	0.00	0.00	0.00
12,500.0	1.23	240.00	12,254.7	384.0	1,908.4	1,946.7	0.00	0.00	0.00
12,600.0	1.23	240.00	12,354.7	383.0	1,906.6	1,944.6	0.00	0.00	0.00
12,700.0	1.23	240.00	12,454.6	381.9	1,904.7	1,942.6	0.00	0.00	0.00
Cameo									
12,722.4	1.23	240.00	12,477.0	381.6	1,904.3	1,942.2	0.00	0.00	0.00
12,800.0	1.23	240.00	12,554.6	380.8	1,902.9	1,940.6	0.00	0.00	0.00
12,900.0	1.23	240.00	12,654.6	379.7	1,901.0	1,938.5	0.00	0.00	0.00
13,000.0	1.23	240.00	12,754.6	378.7	1,899.1	1,936.5	0.00	0.00	0.00
13,100.0	1.23	240.00	12,854.6	377.6	1,897.3	1,934.5	0.00	0.00	0.00
13,200.0	1.23	240.00	12,954.5	376.5	1,895.4	1,932.5	0.00	0.00	0.00
13,300.0	1.23	240.00	13,054.5	375.4	1,893.6	1,930.4	0.00	0.00	0.00
13,400.0	1.23	240.00	13,154.5	374.4	1,891.7	1,928.4	0.00	0.00	0.00
Rollins									
13,408.5	1.23	240.00	13,163.0	374.3	1,891.5	1,928.2	0.00	0.00	0.00
13,500.0	1.23	240.00	13,254.5	373.3	1,889.8	1,926.4	0.00	0.00	0.00
13,600.0	1.23	240.00	13,354.4	372.2	1,888.0	1,924.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-7
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8059.0usft (30')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 15D-7 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4		

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)
TD @ 13708.6' MD / 13463.0' TVD									
13,708.6	1.23	240.00	13,463.0	371.1	1,886.0	1,922.1	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
15D-7 - OHCR - plan hits target center - Point	0.00	0.00	8,762.0	421.1	1,972.6	14,433,736.67	2,456,914.75	39.710183	-108.097009
15D-7 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,463.0	371.1	1,886.0	14,433,683.90	2,456,829.80	39.710046	-108.097317

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,462.1	3,375.0	Wasatch				
6,779.9	6,593.0	Wasatch G				
7,089.2	6,893.0	Fort Union				
9,006.5	8,762.0	Ohio Creek				
9,598.6	9,354.0	Williams Fork				
12,722.4	12,477.0	Cameo				
13,408.5	13,163.0	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	3.1	6.6	EOB @ 5.00° Inc. / 65.00° Azm / Build 3° / 100'
726.3	721.5	16.6	55.8	EOB @ 14.09° Inc. / 78.08° Azm
8,536.8	8,297.0	409.2	1,916.3	Drop 3° / 100'
9,006.5	8,762.0	421.1	1,972.6	EOD @ Vertical / Build 1.5° / 100'
9,088.5	8,843.9	420.6	1,971.8	EOB @ 1.23° Inc. / 240.00° Azm
13,708.6	13,463.0	371.1	1,886.0	TD @ 13708.6' MD / 13463.0' TVD