

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 14D-7 495
Wellbore: Wellbore #1
Design: Design #4
Latitude: 39.709095
Longitude: -108.104258
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 - 14D-7(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3403.0	3535.3	Wasatch
6621.0	6907.2	Wasatch G
6921.0	7221.6	Fort Union
8800.0	9172.1	Ohio Creek
9398.0	9770.2	Williams Fork
12512.0	12884.9	Cameo
13160.0	13533.1	Rollins

SECTION DETAILS

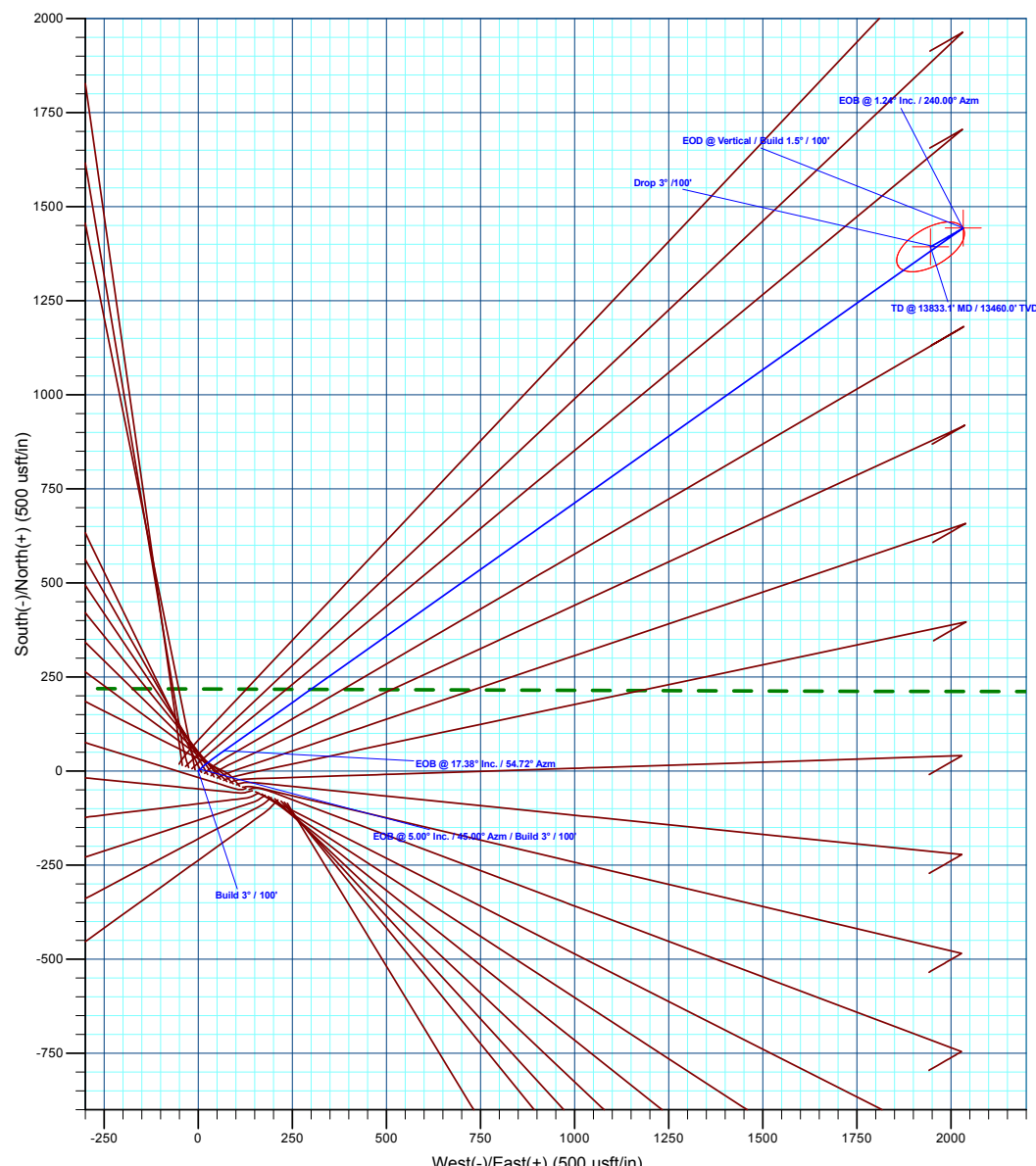
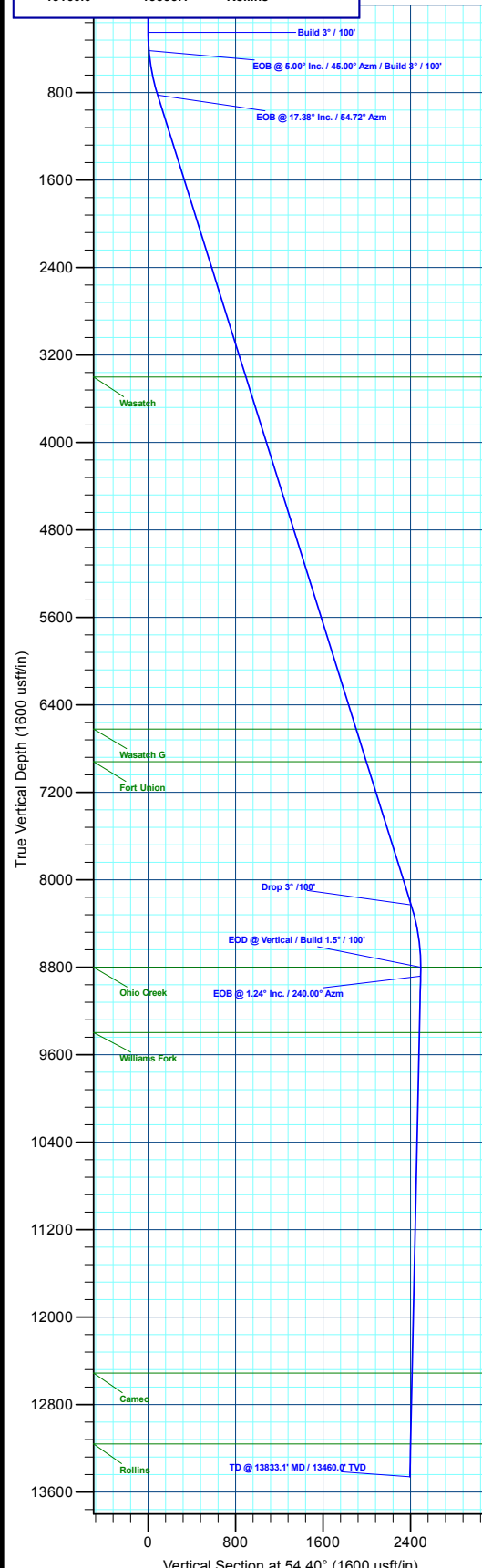
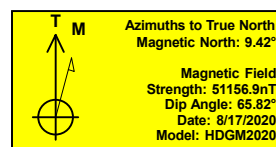
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
416.7	5.00	45.00	416.5	5.1	5.1	3.00	45.00	7.2	EOB @ 5.00° Inc. / 45.00° Azm / Build 3° / 100'
832.7	17.38	54.72	823.8	54.0	68.9	3.00	13.50	87.5	EOB @ 17.38° Inc. / 54.72° Azm
8592.7	17.38	54.72	8229.5	1392.8	1961.3	0.00	0.00	2405.5	Drop 3° / 100'
9172.1	0.00	0.00	8800.0	1443.2	2032.5	3.00	180.00	2492.7	EOD @ Vertical / Build 1.5° / 100'
9254.7	1.24	240.00	8882.7	1442.7	2031.7	1.50	240.00	2491.9	EOB @ 1.24° Inc. / 240.00° Azm
13633.1	1.24	240.00	13460.0	1393.2	1945.9	0.00	0.00	2393.2	TD @ 13633.1' MD / 13460.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
14D-7 - OHCR	8800.0	1443.2	2032.5	14434782.57	2456873.24	39.713056	-108.097036
14D-7 - PBHL	13460.0	1393.2	1945.9	14434729.80	2456788.30	39.712918	-108.097344

WELL DETAILS: ELU A18 FED 14D-7 495

Ground Level : 8029.0		Latitude	Longitude
+N/-S	+E/-W	Northing	Easting
0.0	0.0	14433274.50	2454888.40
		39.709095	-108.104258
			14D-7



Plan: Design #4 (ELU A18 FED 14D-7 495/Wellbore #1)

Created By: Will Jircik

Date: 20:10, October 18 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 14D-7 495 - Slot 14D-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 14D-7 495 - Slot 14D-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 14D-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 14D-7 495 - Slot 14D-7					
Well Position	+N/-S	-4.8 usft	Northing:	14,433,274.50 usft	Latitude:	39.709096
	+E/-W	-16.2 usft	Easting:	2,454,888.40 usft	Longitude:	-108.104258
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	54.40

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	45.00	416.5	5.1	5.1	3.00	3.00	0.00	45.00	
832.7	17.38	54.72	823.8	54.0	68.9	3.00	2.98	2.34	13.50	
8,592.7	17.38	54.72	8,229.5	1,392.8	1,961.3	0.00	0.00	0.00	0.00	
9,172.0	0.00	0.00	8,800.0	1,443.2	2,032.5	3.00	-3.00	0.00	180.00	14D-7 - OHCR
9,254.7	1.24	240.00	8,882.7	1,442.7	2,031.7	1.50	1.50	-145.12	240.00	
13,833.1	1.24	240.00	13,460.0	1,393.2	1,945.9	0.00	0.00	0.00	0.00	14D-7 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14D-7 495 - Slot 14D-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 14D-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	45.00	300.0	0.5	0.5	0.6	3.00	3.00	0.00
400.0	4.50	45.00	399.8	4.2	4.2	5.8	3.00	3.00	0.00
EOB @ 5.00° Inc. / 45.00° Azm / Build 3° / 100'									
416.7	5.00	45.00	416.5	5.1	5.1	7.2	3.00	3.00	0.00
500.0	7.45	49.50	499.3	11.2	11.8	16.1	3.00	2.94	5.40
600.0	10.43	52.10	598.1	21.0	23.9	31.6	3.00	2.97	2.60
700.0	13.41	53.55	695.9	33.4	40.4	52.3	3.00	2.99	1.45
800.0	16.40	54.49	792.5	48.5	61.2	78.0	3.00	2.99	0.93
EOB @ 17.38° Inc. / 54.72° Azm									
832.7	17.38	54.72	823.8	54.0	68.9	87.5	3.00	2.99	0.72
900.0	17.38	54.72	888.0	65.7	85.4	107.6	0.00	0.00	0.00
1,000.0	17.38	54.72	983.5	82.9	109.7	137.5	0.00	0.00	0.00
1,100.0	17.38	54.72	1,078.9	100.2	134.1	167.4	0.00	0.00	0.00
1,200.0	17.38	54.72	1,174.3	117.4	158.5	197.2	0.00	0.00	0.00
1,300.0	17.38	54.72	1,269.8	134.7	182.9	227.1	0.00	0.00	0.00
1,400.0	17.38	54.72	1,365.2	151.9	207.3	257.0	0.00	0.00	0.00
1,500.0	17.38	54.72	1,460.6	169.2	231.7	286.8	0.00	0.00	0.00
1,600.0	17.38	54.72	1,556.1	186.4	256.1	316.7	0.00	0.00	0.00
1,700.0	17.38	54.72	1,651.5	203.7	280.4	346.6	0.00	0.00	0.00
1,800.0	17.38	54.72	1,746.9	220.9	304.8	376.5	0.00	0.00	0.00
1,900.0	17.38	54.72	1,842.4	238.2	329.2	406.3	0.00	0.00	0.00
2,000.0	17.38	54.72	1,937.8	255.4	353.6	436.2	0.00	0.00	0.00
2,100.0	17.38	54.72	2,033.2	272.7	378.0	466.1	0.00	0.00	0.00
2,200.0	17.38	54.72	2,128.7	289.9	402.4	495.9	0.00	0.00	0.00
2,300.0	17.38	54.72	2,224.1	307.2	426.8	525.8	0.00	0.00	0.00
2,400.0	17.38	54.72	2,319.5	324.4	451.2	555.7	0.00	0.00	0.00
2,500.0	17.38	54.72	2,415.0	341.7	475.5	585.6	0.00	0.00	0.00
2,600.0	17.38	54.72	2,510.4	358.9	499.9	615.4	0.00	0.00	0.00
2,700.0	17.38	54.72	2,605.9	376.2	524.3	645.3	0.00	0.00	0.00
2,800.0	17.38	54.72	2,701.3	393.4	548.7	675.2	0.00	0.00	0.00
2,900.0	17.38	54.72	2,796.7	410.7	573.1	705.0	0.00	0.00	0.00
3,000.0	17.38	54.72	2,892.2	427.9	597.5	734.9	0.00	0.00	0.00
3,100.0	17.38	54.72	2,987.6	445.2	621.9	764.8	0.00	0.00	0.00
3,200.0	17.38	54.72	3,083.0	462.5	646.2	794.7	0.00	0.00	0.00
3,300.0	17.38	54.72	3,178.5	479.7	670.6	824.5	0.00	0.00	0.00
3,400.0	17.38	54.72	3,273.9	497.0	695.0	854.4	0.00	0.00	0.00
3,500.0	17.38	54.72	3,369.3	514.2	719.4	884.3	0.00	0.00	0.00
Wasatch									
3,535.3	17.38	54.72	3,403.0	520.3	728.0	894.8	0.00	0.00	0.00
3,600.0	17.38	54.72	3,464.8	531.5	743.8	914.2	0.00	0.00	0.00
3,700.0	17.38	54.72	3,560.2	548.7	768.2	944.0	0.00	0.00	0.00
3,800.0	17.38	54.72	3,655.6	566.0	792.6	973.9	0.00	0.00	0.00
3,900.0	17.38	54.72	3,751.1	583.2	816.9	1,003.8	0.00	0.00	0.00
4,000.0	17.38	54.72	3,846.5	600.5	841.3	1,033.6	0.00	0.00	0.00
4,100.0	17.38	54.72	3,941.9	617.7	865.7	1,063.5	0.00	0.00	0.00
4,200.0	17.38	54.72	4,037.4	635.0	890.1	1,093.4	0.00	0.00	0.00
4,300.0	17.38	54.72	4,132.8	652.2	914.5	1,123.3	0.00	0.00	0.00
4,400.0	17.38	54.72	4,228.2	669.5	938.9	1,153.1	0.00	0.00	0.00
4,500.0	17.38	54.72	4,323.7	686.7	963.3	1,183.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14D-7 495 - Slot 14D-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 14D-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	17.38	54.72	4,419.1	704.0	987.7	1,212.9	0.00	0.00	0.00
4,700.0	17.38	54.72	4,514.5	721.2	1,012.0	1,242.7	0.00	0.00	0.00
4,800.0	17.38	54.72	4,610.0	738.5	1,036.4	1,272.6	0.00	0.00	0.00
4,900.0	17.38	54.72	4,705.4	755.7	1,060.8	1,302.5	0.00	0.00	0.00
5,000.0	17.38	54.72	4,800.8	773.0	1,085.2	1,332.4	0.00	0.00	0.00
5,100.0	17.38	54.72	4,896.3	790.2	1,109.6	1,362.2	0.00	0.00	0.00
5,200.0	17.38	54.72	4,991.7	807.5	1,134.0	1,392.1	0.00	0.00	0.00
5,300.0	17.38	54.72	5,087.1	824.7	1,158.4	1,422.0	0.00	0.00	0.00
5,400.0	17.38	54.72	5,182.6	842.0	1,182.7	1,451.8	0.00	0.00	0.00
5,500.0	17.38	54.72	5,278.0	859.2	1,207.1	1,481.7	0.00	0.00	0.00
5,600.0	17.38	54.72	5,373.4	876.5	1,231.5	1,511.6	0.00	0.00	0.00
5,700.0	17.38	54.72	5,468.9	893.8	1,255.9	1,541.5	0.00	0.00	0.00
5,800.0	17.38	54.72	5,564.3	911.0	1,280.3	1,571.3	0.00	0.00	0.00
5,900.0	17.38	54.72	5,659.7	928.3	1,304.7	1,601.2	0.00	0.00	0.00
6,000.0	17.38	54.72	5,755.2	945.5	1,329.1	1,631.1	0.00	0.00	0.00
6,100.0	17.38	54.72	5,850.6	962.8	1,353.5	1,660.9	0.00	0.00	0.00
6,200.0	17.38	54.72	5,946.0	980.0	1,377.8	1,690.8	0.00	0.00	0.00
6,300.0	17.38	54.72	6,041.5	997.3	1,402.2	1,720.7	0.00	0.00	0.00
6,400.0	17.38	54.72	6,136.9	1,014.5	1,426.6	1,750.6	0.00	0.00	0.00
6,500.0	17.38	54.72	6,232.3	1,031.8	1,451.0	1,780.4	0.00	0.00	0.00
6,600.0	17.38	54.72	6,327.8	1,049.0	1,475.4	1,810.3	0.00	0.00	0.00
6,700.0	17.38	54.72	6,423.2	1,066.3	1,499.8	1,840.2	0.00	0.00	0.00
6,800.0	17.38	54.72	6,518.6	1,083.5	1,524.2	1,870.0	0.00	0.00	0.00
6,900.0	17.38	54.72	6,614.1	1,100.8	1,548.5	1,899.9	0.00	0.00	0.00
Wasatch G									
6,907.2	17.38	54.72	6,621.0	1,102.0	1,550.3	1,902.1	0.00	0.00	0.00
7,000.0	17.38	54.72	6,709.5	1,118.0	1,572.9	1,929.8	0.00	0.00	0.00
7,100.0	17.38	54.72	6,804.9	1,135.3	1,597.3	1,959.7	0.00	0.00	0.00
7,200.0	17.38	54.72	6,900.4	1,152.5	1,621.7	1,989.5	0.00	0.00	0.00
Fort Union									
7,221.6	17.38	54.72	6,921.0	1,156.3	1,627.0	1,996.0	0.00	0.00	0.00
7,300.0	17.38	54.72	6,995.8	1,169.8	1,646.1	2,019.4	0.00	0.00	0.00
7,400.0	17.38	54.72	7,091.3	1,187.0	1,670.5	2,049.3	0.00	0.00	0.00
7,500.0	17.38	54.72	7,186.7	1,204.3	1,694.9	2,079.1	0.00	0.00	0.00
7,600.0	17.38	54.72	7,282.1	1,221.5	1,719.2	2,109.0	0.00	0.00	0.00
7,700.0	17.38	54.72	7,377.6	1,238.8	1,743.6	2,138.9	0.00	0.00	0.00
7,800.0	17.38	54.72	7,473.0	1,256.0	1,768.0	2,168.8	0.00	0.00	0.00
7,900.0	17.38	54.72	7,568.4	1,273.3	1,792.4	2,198.6	0.00	0.00	0.00
8,000.0	17.38	54.72	7,663.9	1,290.6	1,816.8	2,228.5	0.00	0.00	0.00
8,100.0	17.38	54.72	7,759.3	1,307.8	1,841.2	2,258.4	0.00	0.00	0.00
8,200.0	17.38	54.72	7,854.7	1,325.1	1,865.6	2,288.2	0.00	0.00	0.00
8,300.0	17.38	54.72	7,950.2	1,342.3	1,890.0	2,318.1	0.00	0.00	0.00
8,400.0	17.38	54.72	8,045.6	1,359.6	1,914.3	2,348.0	0.00	0.00	0.00
8,500.0	17.38	54.72	8,141.0	1,376.8	1,938.7	2,377.9	0.00	0.00	0.00
Drop 3° /100'									
8,592.7	17.38	54.72	8,229.5	1,392.8	1,961.3	2,405.5	0.00	0.00	0.00
8,600.0	17.16	54.72	8,236.5	1,394.1	1,963.1	2,407.7	3.00	-3.00	0.00
8,700.0	14.16	54.72	8,332.7	1,409.6	1,985.1	2,434.7	3.00	-3.00	0.00
8,800.0	11.16	54.72	8,430.3	1,422.3	2,003.0	2,456.6	3.00	-3.00	0.00
8,900.0	8.16	54.72	8,528.9	1,432.0	2,016.7	2,473.4	3.00	-3.00	0.00
9,000.0	5.16	54.72	8,628.2	1,438.7	2,026.2	2,485.0	3.00	-3.00	0.00
9,100.0	2.16	54.72	8,728.0	1,442.4	2,031.4	2,491.4	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14D-7 495 - Slot 14D-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 14D-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)
9,172.0	0.00	0.00	8,800.0	1,443.2	2,032.5	2,492.7	3.00	-3.00	0.00
9,200.0	0.42	240.00	8,827.9	1,443.1	2,032.4	2,492.6	1.50	1.50	0.00
EOB @ 1.24° Inc. / 240.00° Azm									
9,254.7	1.24	240.00	8,882.7	1,442.7	2,031.7	2,491.9	1.50	1.50	0.00
9,300.0	1.24	240.00	8,927.9	1,442.2	2,030.9	2,490.9	0.00	0.00	0.00
9,400.0	1.24	240.00	9,027.9	1,441.1	2,029.0	2,488.7	0.00	0.00	0.00
9,500.0	1.24	240.00	9,127.9	1,440.1	2,027.1	2,486.6	0.00	0.00	0.00
9,600.0	1.24	240.00	9,227.9	1,439.0	2,025.3	2,484.4	0.00	0.00	0.00
9,700.0	1.24	240.00	9,327.8	1,437.9	2,023.4	2,482.3	0.00	0.00	0.00
Williams Fork									
9,770.2	1.24	240.00	9,398.0	1,437.1	2,022.1	2,480.8	0.00	0.00	0.00
9,800.0	1.24	240.00	9,427.8	1,436.8	2,021.5	2,480.1	0.00	0.00	0.00
9,900.0	1.24	240.00	9,527.8	1,435.7	2,019.7	2,478.0	0.00	0.00	0.00
10,000.0	1.24	240.00	9,627.8	1,434.7	2,017.8	2,475.8	0.00	0.00	0.00
10,100.0	1.24	240.00	9,727.7	1,433.6	2,015.9	2,473.6	0.00	0.00	0.00
10,200.0	1.24	240.00	9,827.7	1,432.5	2,014.0	2,471.5	0.00	0.00	0.00
10,300.0	1.24	240.00	9,927.7	1,431.4	2,012.2	2,469.3	0.00	0.00	0.00
10,400.0	1.24	240.00	10,027.7	1,430.3	2,010.3	2,467.2	0.00	0.00	0.00
10,500.0	1.24	240.00	10,127.7	1,429.2	2,008.4	2,465.0	0.00	0.00	0.00
10,600.0	1.24	240.00	10,227.6	1,428.2	2,006.5	2,462.9	0.00	0.00	0.00
10,700.0	1.24	240.00	10,327.6	1,427.1	2,004.7	2,460.7	0.00	0.00	0.00
10,800.0	1.24	240.00	10,427.6	1,426.0	2,002.8	2,458.6	0.00	0.00	0.00
10,900.0	1.24	240.00	10,527.6	1,424.9	2,000.9	2,456.4	0.00	0.00	0.00
11,000.0	1.24	240.00	10,627.5	1,423.8	1,999.0	2,454.3	0.00	0.00	0.00
11,100.0	1.24	240.00	10,727.5	1,422.7	1,997.2	2,452.1	0.00	0.00	0.00
11,200.0	1.24	240.00	10,827.5	1,421.7	1,995.3	2,449.9	0.00	0.00	0.00
11,300.0	1.24	240.00	10,927.5	1,420.6	1,993.4	2,447.8	0.00	0.00	0.00
11,400.0	1.24	240.00	11,027.4	1,419.5	1,991.5	2,445.6	0.00	0.00	0.00
11,500.0	1.24	240.00	11,127.4	1,418.4	1,989.7	2,443.5	0.00	0.00	0.00
11,600.0	1.24	240.00	11,227.4	1,417.3	1,987.8	2,441.3	0.00	0.00	0.00
11,700.0	1.24	240.00	11,327.4	1,416.3	1,985.9	2,439.2	0.00	0.00	0.00
11,800.0	1.24	240.00	11,427.3	1,415.2	1,984.0	2,437.0	0.00	0.00	0.00
11,900.0	1.24	240.00	11,527.3	1,414.1	1,982.2	2,434.9	0.00	0.00	0.00
12,000.0	1.24	240.00	11,627.3	1,413.0	1,980.3	2,432.7	0.00	0.00	0.00
12,100.0	1.24	240.00	11,727.3	1,411.9	1,978.4	2,430.6	0.00	0.00	0.00
12,200.0	1.24	240.00	11,827.3	1,410.8	1,976.5	2,428.4	0.00	0.00	0.00
12,300.0	1.24	240.00	11,927.2	1,409.8	1,974.7	2,426.3	0.00	0.00	0.00
12,400.0	1.24	240.00	12,027.2	1,408.7	1,972.8	2,424.1	0.00	0.00	0.00
12,500.0	1.24	240.00	12,127.2	1,407.6	1,970.9	2,421.9	0.00	0.00	0.00
12,600.0	1.24	240.00	12,227.2	1,406.5	1,969.0	2,419.8	0.00	0.00	0.00
12,700.0	1.24	240.00	12,327.1	1,405.4	1,967.2	2,417.6	0.00	0.00	0.00
12,800.0	1.24	240.00	12,427.1	1,404.4	1,965.3	2,415.5	0.00	0.00	0.00
Cameo									
12,884.9	1.24	240.00	12,512.0	1,403.4	1,963.7	2,413.7	0.00	0.00	0.00
12,900.0	1.24	240.00	12,527.1	1,403.3	1,963.4	2,413.3	0.00	0.00	0.00
13,000.0	1.24	240.00	12,627.1	1,402.2	1,961.5	2,411.2	0.00	0.00	0.00
13,100.0	1.24	240.00	12,727.0	1,401.1	1,959.7	2,409.0	0.00	0.00	0.00
13,200.0	1.24	240.00	12,827.0	1,400.0	1,957.8	2,406.9	0.00	0.00	0.00
13,300.0	1.24	240.00	12,927.0	1,398.9	1,955.9	2,404.7	0.00	0.00	0.00
13,400.0	1.24	240.00	13,027.0	1,397.9	1,954.0	2,402.6	0.00	0.00	0.00
13,500.0	1.24	240.00	13,126.9	1,396.8	1,952.2	2,400.4	0.00	0.00	0.00
Rollins									
13,533.1	1.24	240.00	13,160.0	1,396.4	1,951.5	2,399.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 14D-7 495 - Slot 14D-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 14D-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)	
13,600.0	1.24	240.00	13,226.9	1,395.7	1,950.3	2,398.2	0.00	0.00	0.00	
13,700.0	1.24	240.00	13,326.9	1,394.6	1,948.4	2,396.1	0.00	0.00	0.00	
13,800.0	1.24	240.00	13,426.9	1,393.5	1,946.5	2,393.9	0.00	0.00	0.00	
TD @ 13833.1' MD / 13460.0' TVD										
13,833.1	1.24	240.00	13,460.0	1,393.2	1,945.9	2,393.2	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		
14D-7 - OHCR	0.00	0.00	8,800.0	1,443.2	2,032.5	14,434,782.57	2,456,873.25	39.713056 -108.097036		
- hit/miss target										
- Shape										
- plan hits target center										
- Point										
14D-7 - PBHL	0.00	0.00	13,460.0	1,393.2	1,945.9	14,434,729.80	2,456,788.30	39.712919 -108.097344		
- plan hits target center										
- Ellipse (radii L100.0 W50.0 on 240.00 azi)										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,535.3	3,403.0	Wasatch				
6,907.2	6,621.0	Wasatch G				
7,221.6	6,921.0	Fort Union				
9,172.0	8,800.0	Ohio Creek				
9,770.2	9,398.0	Williams Fork				
12,884.9	12,512.0	Cameo				
13,533.1	13,160.0	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	5.1	5.1	EOB @ 5.00° Inc. / 45.00° Azm / Build 3° / 100'	
832.7	823.8	54.0	68.9	EOB @ 17.38° Inc. / 54.72° Azm	
8,592.7	8,229.5	1,392.8	1,961.3	Drop 3° / 100'	
9,172.0	8,800.0	1,443.2	2,032.5	EOD @ Vertical / Build 1.5° / 100'	
9,254.7	8,882.7	1,442.7	2,031.7	EOB @ 1.24° Inc. / 240.00° Azm	
13,833.1	13,460.0	1,393.2	1,945.9	TD @ 13833.1' MD / 13460.0' TVD	