

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 25D-12 496
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.708978
Longitude: -108.103837
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 - 25D-12(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
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	
135.0	0.00	0.00	135.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
468.3	10.00	260.00	466.6	-5.0	-28.6	3.00	260.00	27.5	EOB @ 10.00° Inc. / 260.00° Azm Build 3° / 100'
715.6	15.95	280.33	707.6	-2.7	-83.2	3.00	47.71	81.9	EOB @ 15.95° Inc. / 280.33° Azm
8422.9	15.95	280.33	8118.0	377.3	-2167.4	0.00	0.00	2199.5	Drop 3° / 100'
8954.7	0.00	0.00	8643.0	390.4	-2239.7	3.00	180.00	2273.0	EOD @ Vertical / Build 1.5° / 100'
9037.2	1.24	250.02	8725.5	390.1	-2240.6	1.50	250.02	2273.8	EOB @ 1.24° Inc. / 250.02° Azm
13626.8	1.24	250.02	13314.0	356.3	-2333.7	0.00	0.00	2360.8	TD @ 13626.8' MD / 13314.0' TVD

FORMATION TOP DETAILS

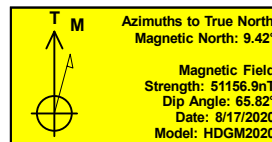
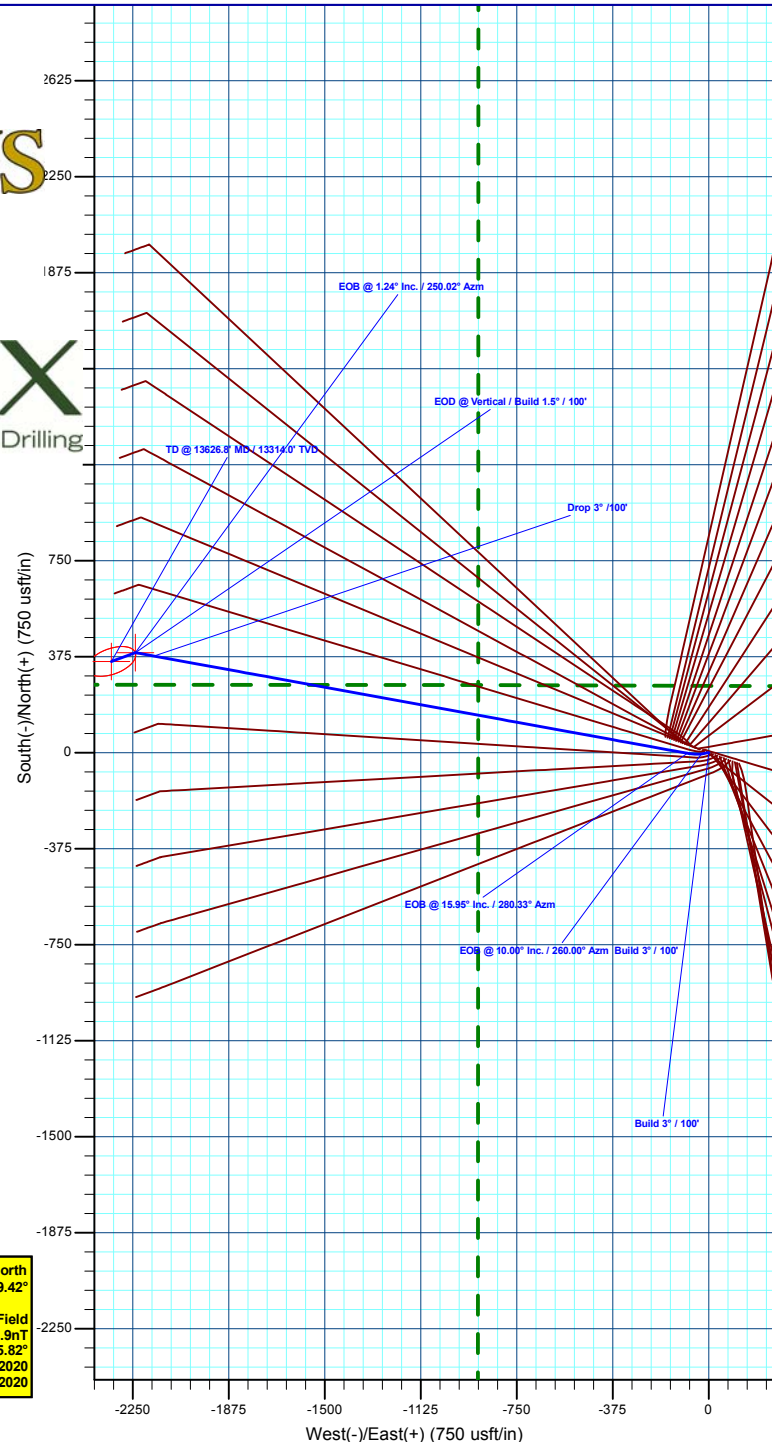
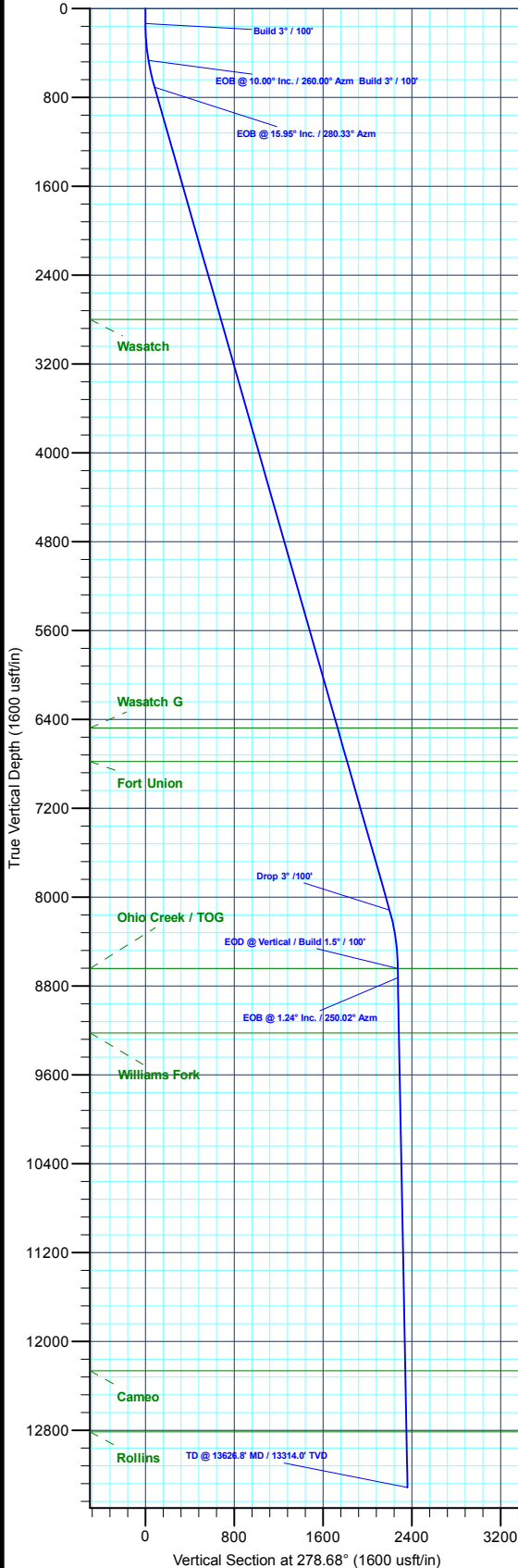
TVDPath	MDPath	Formation
2800.0	2891.8	Wasatch
6478.0	6717.2	Wasatch G
6778.0	7029.2	Fort Union
8643.0	8954.7	Ohio Creek / TOG
9224.0	9535.8	Williams Fork
12264.0	12576.5	Cameo
12814.0	13126.7	Rollins

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
25D-12 - OHCR8643.0	390.4	-2239.7	14433553.29	2452757.03	39.710049	-108.111795	
25D-12 - PBH13314.0	356.3	-2333.7	14433516.10	2452664.20	39.709955	-108.112129	

WELL DETAILS: ELU A18 FED 25D-12 496

+N/-S	+E/-W	Ground Level : 8029.0	Latitude	Longitude
0.0	0.0	Northing 14433235.41 Easting 2455008.22	39.708978	-108.103837
				25D-12



Plan: Design #2 (ELU A18 FED 25D-12 496/Wellbore #1)

Created By: Will Jircik

Date: 14:07, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 25D-12 496 - Slot 25D-12

Wellbore #1

Plan: Design #2

KLX Well Planning Report

18 May, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25D-12 496 - Slot 25D-12
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 25D-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Rio Blanco County, CO		
Map System:	Universal Transverse Mercator (US Survey Fee	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 25D-12 496 - Slot 25D-12					
Well Position	+N/-S	-47.7 usft	Northing:	14,433,235.41 usft	Latitude:	39.708978
	+E/-W	102.3 usft	Easting:	2,455,008.22 usft	Longitude:	-108.103837
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 #2			
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	278.68

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	
135.0	0.00	0.00	135.0	0.0	0.0	0.00	0.00	0.00	0.00	
468.3	10.00	260.00	466.6	-5.0	-28.6	3.00	3.00	0.00	260.00	
715.6	15.95	280.33	707.6	-2.7	-83.2	3.00	2.41	8.22	47.71	
8,422.9	15.95	280.33	8,118.0	377.3	-2,167.4	0.00	0.00	0.00	0.00	
8,954.7	0.00	0.00	8,643.0	390.4	-2,239.7	3.00	-3.00	0.00	180.00	25D-12 - OHCR
9,037.2	1.24	250.02	8,725.5	390.1	-2,240.6	1.50	1.50	-133.32	250.02	
13,626.8	1.24	250.02	13,314.0	356.3	-2,333.7	0.00	0.00	0.00	0.00	25D-12 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25D-12 496 - Slot 25D-12
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 25D-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
Build 3° / 100'									
135.0	0.00	0.00	135.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	1.95	260.00	200.0	-0.2	-1.1	1.0	3.00	3.00	0.00
300.0	4.95	260.00	299.8	-1.2	-7.0	6.7	3.00	3.00	0.00
400.0	7.95	260.00	399.2	-3.2	-18.1	17.4	3.00	3.00	0.00
EOB @ 10.00° Inc. / 260.00° Azm Build 3° / 100'									
468.3	10.00	260.00	466.6	-5.0	-28.6	27.5	3.00	3.00	0.00
500.0	10.66	263.80	497.8	-5.8	-34.2	32.9	3.00	2.09	12.00
600.0	12.99	273.11	595.7	-6.2	-54.6	53.1	3.00	2.33	9.30
700.0	15.54	279.52	692.6	-3.4	-79.1	77.6	3.00	2.55	6.41
EOB @ 15.95° Inc. / 280.33° Azm									
715.6	15.95	280.33	707.6	-2.7	-83.2	81.9	3.00	2.64	5.23
800.0	15.95	280.33	788.8	1.5	-106.0	105.1	0.00	0.00	0.00
900.0	15.95	280.33	884.9	6.4	-133.1	132.5	0.00	0.00	0.00
1,000.0	15.95	280.33	981.1	11.4	-160.1	160.0	0.00	0.00	0.00
1,100.0	15.95	280.33	1,077.2	16.3	-187.2	187.5	0.00	0.00	0.00
1,200.0	15.95	280.33	1,173.3	21.2	-214.2	215.0	0.00	0.00	0.00
1,300.0	15.95	280.33	1,269.5	26.1	-241.3	242.4	0.00	0.00	0.00
1,400.0	15.95	280.33	1,365.6	31.1	-268.3	269.9	0.00	0.00	0.00
1,500.0	15.95	280.33	1,461.8	36.0	-295.3	297.4	0.00	0.00	0.00
1,600.0	15.95	280.33	1,557.9	40.9	-322.4	324.9	0.00	0.00	0.00
1,700.0	15.95	280.33	1,654.1	45.9	-349.4	352.3	0.00	0.00	0.00
1,800.0	15.95	280.33	1,750.2	50.8	-376.5	379.8	0.00	0.00	0.00
1,900.0	15.95	280.33	1,846.4	55.7	-403.5	407.3	0.00	0.00	0.00
2,000.0	15.95	280.33	1,942.5	60.6	-430.5	434.8	0.00	0.00	0.00
2,100.0	15.95	280.33	2,038.7	65.6	-457.6	462.2	0.00	0.00	0.00
2,200.0	15.95	280.33	2,134.8	70.5	-484.6	489.7	0.00	0.00	0.00
2,300.0	15.95	280.33	2,231.0	75.4	-511.7	517.2	0.00	0.00	0.00
2,400.0	15.95	280.33	2,327.1	80.4	-538.7	544.7	0.00	0.00	0.00
2,500.0	15.95	280.33	2,423.3	85.3	-565.7	572.1	0.00	0.00	0.00
2,600.0	15.95	280.33	2,519.4	90.2	-592.8	599.6	0.00	0.00	0.00
2,700.0	15.95	280.33	2,615.6	95.1	-619.8	627.1	0.00	0.00	0.00
2,800.0	15.95	280.33	2,711.7	100.1	-646.9	654.6	0.00	0.00	0.00
Wasatch									
2,891.8	15.95	280.33	2,800.0	104.6	-671.7	679.8	0.00	0.00	0.00
2,900.0	15.95	280.33	2,807.9	105.0	-673.9	682.0	0.00	0.00	0.00
3,000.0	15.95	280.33	2,904.0	109.9	-701.0	709.5	0.00	0.00	0.00
3,100.0	15.95	280.33	3,000.2	114.9	-728.0	737.0	0.00	0.00	0.00
3,200.0	15.95	280.33	3,096.3	119.8	-755.0	764.5	0.00	0.00	0.00
3,300.0	15.95	280.33	3,192.5	124.7	-782.1	791.9	0.00	0.00	0.00
3,400.0	15.95	280.33	3,288.6	129.7	-809.1	819.4	0.00	0.00	0.00
3,500.0	15.95	280.33	3,384.8	134.6	-836.2	846.9	0.00	0.00	0.00
3,600.0	15.95	280.33	3,480.9	139.5	-863.2	874.4	0.00	0.00	0.00
3,700.0	15.95	280.33	3,577.1	144.4	-890.2	901.8	0.00	0.00	0.00
3,800.0	15.95	280.33	3,673.2	149.4	-917.3	929.3	0.00	0.00	0.00
3,900.0	15.95	280.33	3,769.3	154.3	-944.3	956.8	0.00	0.00	0.00
4,000.0	15.95	280.33	3,865.5	159.2	-971.4	984.3	0.00	0.00	0.00
4,100.0	15.95	280.33	3,961.6	164.2	-998.4	1,011.7	0.00	0.00	0.00
4,200.0	15.95	280.33	4,057.8	169.1	-1,025.4	1,039.2	0.00	0.00	0.00
4,300.0	15.95	280.33	4,153.9	174.0	-1,052.5	1,066.7	0.00	0.00	0.00
4,400.0	15.95	280.33	4,250.1	178.9	-1,079.5	1,094.2	0.00	0.00	0.00
4,500.0	15.95	280.33	4,346.2	183.9	-1,106.6	1,121.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25D-12 496 - Slot 25D-12
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 25D-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	15.95	280.33	4,442.4	188.8	-1,133.6	1,149.1	0.00	0.00	0.00
4,700.0	15.95	280.33	4,538.5	193.7	-1,160.7	1,176.6	0.00	0.00	0.00
4,800.0	15.95	280.33	4,634.7	198.7	-1,187.7	1,204.1	0.00	0.00	0.00
4,900.0	15.95	280.33	4,730.8	203.6	-1,214.7	1,231.6	0.00	0.00	0.00
5,000.0	15.95	280.33	4,827.0	208.5	-1,241.8	1,259.0	0.00	0.00	0.00
5,100.0	15.95	280.33	4,923.1	213.5	-1,268.8	1,286.5	0.00	0.00	0.00
5,200.0	15.95	280.33	5,019.3	218.4	-1,295.9	1,314.0	0.00	0.00	0.00
5,300.0	15.95	280.33	5,115.4	223.3	-1,322.9	1,341.5	0.00	0.00	0.00
5,400.0	15.95	280.33	5,211.6	228.2	-1,349.9	1,368.9	0.00	0.00	0.00
5,500.0	15.95	280.33	5,307.7	233.2	-1,377.0	1,396.4	0.00	0.00	0.00
5,600.0	15.95	280.33	5,403.9	238.1	-1,404.0	1,423.9	0.00	0.00	0.00
5,700.0	15.95	280.33	5,500.0	243.0	-1,431.1	1,451.4	0.00	0.00	0.00
5,800.0	15.95	280.33	5,596.2	248.0	-1,458.1	1,478.8	0.00	0.00	0.00
5,900.0	15.95	280.33	5,692.3	252.9	-1,485.2	1,506.3	0.00	0.00	0.00
6,000.0	15.95	280.33	5,788.5	257.8	-1,512.2	1,533.8	0.00	0.00	0.00
6,100.0	15.95	280.33	5,884.6	262.7	-1,539.2	1,561.3	0.00	0.00	0.00
6,200.0	15.95	280.33	5,980.8	267.7	-1,566.3	1,588.7	0.00	0.00	0.00
6,300.0	15.95	280.33	6,076.9	272.6	-1,593.3	1,616.2	0.00	0.00	0.00
6,400.0	15.95	280.33	6,173.1	277.5	-1,620.4	1,643.7	0.00	0.00	0.00
6,500.0	15.95	280.33	6,269.2	282.5	-1,647.4	1,671.2	0.00	0.00	0.00
6,600.0	15.95	280.33	6,365.4	287.4	-1,674.4	1,698.6	0.00	0.00	0.00
6,700.0	15.95	280.33	6,461.5	292.3	-1,701.5	1,726.1	0.00	0.00	0.00
Wasatch G									
6,717.2	15.95	280.33	6,478.0	293.2	-1,706.1	1,730.8	0.00	0.00	0.00
6,800.0	15.95	280.33	6,557.6	297.3	-1,728.5	1,753.6	0.00	0.00	0.00
6,900.0	15.95	280.33	6,653.8	302.2	-1,755.6	1,781.1	0.00	0.00	0.00
7,000.0	15.95	280.33	6,749.9	307.1	-1,782.6	1,808.5	0.00	0.00	0.00
Fort Union									
7,029.2	15.95	280.33	6,778.0	308.5	-1,790.5	1,816.6	0.00	0.00	0.00
7,100.0	15.95	280.33	6,846.1	312.0	-1,809.6	1,836.0	0.00	0.00	0.00
7,200.0	15.95	280.33	6,942.2	317.0	-1,836.7	1,863.5	0.00	0.00	0.00
7,300.0	15.95	280.33	7,038.4	321.9	-1,863.7	1,891.0	0.00	0.00	0.00
7,400.0	15.95	280.33	7,134.5	326.8	-1,890.8	1,918.4	0.00	0.00	0.00
7,500.0	15.95	280.33	7,230.7	331.8	-1,917.8	1,945.9	0.00	0.00	0.00
7,600.0	15.95	280.33	7,326.8	336.7	-1,944.9	1,973.4	0.00	0.00	0.00
7,700.0	15.95	280.33	7,423.0	341.6	-1,971.9	2,000.9	0.00	0.00	0.00
7,800.0	15.95	280.33	7,519.1	346.5	-1,998.9	2,028.3	0.00	0.00	0.00
7,900.0	15.95	280.33	7,615.3	351.5	-2,026.0	2,055.8	0.00	0.00	0.00
8,000.0	15.95	280.33	7,711.4	356.4	-2,053.0	2,083.3	0.00	0.00	0.00
8,100.0	15.95	280.33	7,807.6	361.3	-2,080.1	2,110.8	0.00	0.00	0.00
8,200.0	15.95	280.33	7,903.7	366.3	-2,107.1	2,138.2	0.00	0.00	0.00
8,300.0	15.95	280.33	7,999.9	371.2	-2,134.1	2,165.7	0.00	0.00	0.00
8,400.0	15.95	280.33	8,096.0	376.1	-2,161.2	2,193.2	0.00	0.00	0.00
Drop 3° /100'									
8,422.9	15.95	280.33	8,118.0	377.3	-2,167.4	2,199.5	0.00	0.00	0.00
8,500.0	13.64	280.33	8,192.6	380.8	-2,186.7	2,219.2	3.00	-3.00	0.00
8,600.0	10.64	280.33	8,290.3	384.6	-2,207.4	2,240.2	3.00	-3.00	0.00
8,700.0	7.64	280.33	8,389.0	387.4	-2,223.1	2,256.1	3.00	-3.00	0.00
8,800.0	4.64	280.33	8,488.5	389.3	-2,233.6	2,266.8	3.00	-3.00	0.00
8,900.0	1.64	280.33	8,588.3	390.3	-2,239.0	2,272.2	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG									
8,954.7	0.00	0.00	8,643.0	390.4	-2,239.7	2,273.0	3.00	-3.00	0.00
9,000.0	0.68	250.02	8,688.3	390.4	-2,240.0	2,273.3	1.50	1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25D-12 496 - Slot 25D-12
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 25D-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
EOB @ 1.24° Inc. / 250.02° Azm									
9,037.2	1.24	250.02	8,725.5	390.1	-2,240.6	2,273.8	1.50	1.50	0.00
9,100.0	1.24	250.02	8,788.3	389.7	-2,241.9	2,275.0	0.00	0.00	0.00
9,200.0	1.24	250.02	8,888.2	388.9	-2,243.9	2,276.9	0.00	0.00	0.00
9,300.0	1.24	250.02	8,988.2	388.2	-2,245.9	2,278.8	0.00	0.00	0.00
9,400.0	1.24	250.02	9,088.2	387.5	-2,247.9	2,280.7	0.00	0.00	0.00
9,500.0	1.24	250.02	9,188.2	386.7	-2,250.0	2,282.6	0.00	0.00	0.00
Williams Fork									
9,535.8	1.24	250.02	9,224.0	386.5	-2,250.7	2,283.2	0.00	0.00	0.00
9,600.0	1.24	250.02	9,288.2	386.0	-2,252.0	2,284.5	0.00	0.00	0.00
9,700.0	1.24	250.02	9,388.1	385.2	-2,254.0	2,286.4	0.00	0.00	0.00
9,800.0	1.24	250.02	9,488.1	384.5	-2,256.1	2,288.3	0.00	0.00	0.00
9,900.0	1.24	250.02	9,588.1	383.8	-2,258.1	2,290.1	0.00	0.00	0.00
10,000.0	1.24	250.02	9,688.1	383.0	-2,260.1	2,292.0	0.00	0.00	0.00
10,100.0	1.24	250.02	9,788.0	382.3	-2,262.2	2,293.9	0.00	0.00	0.00
10,200.0	1.24	250.02	9,888.0	381.6	-2,264.2	2,295.8	0.00	0.00	0.00
10,300.0	1.24	250.02	9,988.0	380.8	-2,266.2	2,297.7	0.00	0.00	0.00
10,400.0	1.24	250.02	10,088.0	380.1	-2,268.2	2,299.6	0.00	0.00	0.00
10,500.0	1.24	250.02	10,187.9	379.3	-2,270.3	2,301.5	0.00	0.00	0.00
10,600.0	1.24	250.02	10,287.9	378.6	-2,272.3	2,303.4	0.00	0.00	0.00
10,700.0	1.24	250.02	10,387.9	377.9	-2,274.3	2,305.3	0.00	0.00	0.00
10,800.0	1.24	250.02	10,487.9	377.1	-2,276.4	2,307.2	0.00	0.00	0.00
10,900.0	1.24	250.02	10,587.8	376.4	-2,278.4	2,309.1	0.00	0.00	0.00
11,000.0	1.24	250.02	10,687.8	375.7	-2,280.4	2,311.0	0.00	0.00	0.00
11,100.0	1.24	250.02	10,787.8	374.9	-2,282.4	2,312.9	0.00	0.00	0.00
11,200.0	1.24	250.02	10,887.8	374.2	-2,284.5	2,314.8	0.00	0.00	0.00
11,300.0	1.24	250.02	10,987.8	373.4	-2,286.5	2,316.7	0.00	0.00	0.00
11,400.0	1.24	250.02	11,087.7	372.7	-2,288.5	2,318.6	0.00	0.00	0.00
11,500.0	1.24	250.02	11,187.7	372.0	-2,290.6	2,320.5	0.00	0.00	0.00
11,600.0	1.24	250.02	11,287.7	371.2	-2,292.6	2,322.4	0.00	0.00	0.00
11,700.0	1.24	250.02	11,387.7	370.5	-2,294.6	2,324.3	0.00	0.00	0.00
11,800.0	1.24	250.02	11,487.6	369.8	-2,296.7	2,326.2	0.00	0.00	0.00
11,900.0	1.24	250.02	11,587.6	369.0	-2,298.7	2,328.0	0.00	0.00	0.00
12,000.0	1.24	250.02	11,687.6	368.3	-2,300.7	2,329.9	0.00	0.00	0.00
12,100.0	1.24	250.02	11,787.6	367.5	-2,302.7	2,331.8	0.00	0.00	0.00
12,200.0	1.24	250.02	11,887.5	366.8	-2,304.8	2,333.7	0.00	0.00	0.00
12,300.0	1.24	250.02	11,987.5	366.1	-2,306.8	2,335.6	0.00	0.00	0.00
12,400.0	1.24	250.02	12,087.5	365.3	-2,308.8	2,337.5	0.00	0.00	0.00
12,500.0	1.24	250.02	12,187.5	364.6	-2,310.9	2,339.4	0.00	0.00	0.00
Cameo									
12,576.5	1.24	250.02	12,264.0	364.0	-2,312.4	2,340.9	0.00	0.00	0.00
12,600.0	1.24	250.02	12,287.5	363.8	-2,312.9	2,341.3	0.00	0.00	0.00
12,700.0	1.24	250.02	12,387.4	363.1	-2,314.9	2,343.2	0.00	0.00	0.00
12,800.0	1.24	250.02	12,487.4	362.4	-2,316.9	2,345.1	0.00	0.00	0.00
12,900.0	1.24	250.02	12,587.4	361.6	-2,319.0	2,347.0	0.00	0.00	0.00
13,000.0	1.24	250.02	12,687.4	360.9	-2,321.0	2,348.9	0.00	0.00	0.00
13,100.0	1.24	250.02	12,787.3	360.2	-2,323.0	2,350.8	0.00	0.00	0.00
Rollins									
13,126.7	1.24	250.02	12,814.0	360.0	-2,323.6	2,351.3	0.00	0.00	0.00
13,200.0	1.24	250.02	12,887.3	359.4	-2,325.1	2,352.7	0.00	0.00	0.00
13,300.0	1.24	250.02	12,987.3	358.7	-2,327.1	2,354.6	0.00	0.00	0.00
13,400.0	1.24	250.02	13,087.3	357.9	-2,329.1	2,356.5	0.00	0.00	0.00
13,500.0	1.24	250.02	13,187.2	357.2	-2,331.2	2,358.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25D-12 496 - Slot 25D-12
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 25D-12 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	250.02	13,287.2	356.5	-2,333.2	2,360.3	0.00	0.00	0.00	
TD @ 13626.8' MD / 13314.0' TVD										
13,626.8	1.24	250.02	13,314.0	356.3	-2,333.7	2,360.8	0.00	0.00	0.00	

Design Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
25D-12 - OHCR	- plan hits target center	0.00	0.00	8,643.0	390.4	-2,239.7	14,433,553.29	2,452,757.03	39.710049	-108.111795
	- Point									
25D-12 - PBHL	- plan hits target center	0.00	0.00	13,314.0	356.3	-2,333.7	14,433,516.10	2,452,664.20	39.709955	-108.112129
	- Ellipse (radii L100.0 W50.0 on 250.00 azi)									

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
2,891.8	2,800.0	Wasatch					
6,717.2	6,478.0	Wasatch G					
7,029.2	6,778.0	Fort Union					
8,954.7	8,643.0	Ohio Creek / TOG					
9,535.8	9,224.0	Williams Fork					
12,576.5	12,264.0	Cameo					
13,126.7	12,814.0	Rollins					

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
135.0	135.0	0.0	0.0	Build 3° / 100'	
468.3	466.6	-5.0	-28.6	EOB @ 10.00° Inc. / 260.00° Azm	Build 3° / 100'
715.6	707.6	-2.7	-83.2	EOB @ 15.95° Inc. / 280.33° Azm	
8,422.9	8,118.0	377.3	-2,167.4	Drop 3° / 100'	
8,954.7	8,643.0	390.4	-2,239.7	EOD @ Vertical / Build 1.5° / 100'	
9,037.2	8,725.5	390.1	-2,240.6	EOB @ 1.24° Inc. / 250.02° Azm	
13,626.8	13,314.0	356.3	-2,333.7	TD @ 13626.8' MD / 13314.0' TVD	