

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 25A-12 496
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.709028
Longitude: -108.104017
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 - 25A-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	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
180.0	0.00	0.00	180.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
346.7	5.00	290.00	346.5	2.5	-6.8	3.00	290.00	7.2	EOB @ 5.00° Inc. / 290.00° Azm / Build 3° / 100'
754.9	17.17	298.52	746.3	37.5	-76.8	3.00	11.89	85.4	EOB @ 17.17° Inc. / 298.52° Azm
8483.2	17.17	298.52	8130.2	1126.7	-2081.5	0.00	0.00	2365.8	Drop 3° / 100'
9055.5	0.00	0.00	8694.0	1167.3	-2156.3	3.00	180.00	2450.9	EOD @ Vertical / Build 1.5° / 100'
9136.8	1.22	250.02	8775.3	1167.0	-2157.1	1.50	250.02	2451.5	EOB @ 1.22° Inc. / 250.02° Azm
13795.6	1.22	250.02	13433.0	1133.1	-2250.3	0.00	0.00	2519.5	TD @ 13795.6° MD / 13433.0° TVD

FORMATION TOP DETAILS

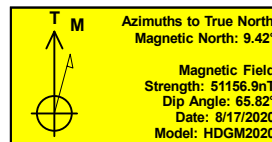
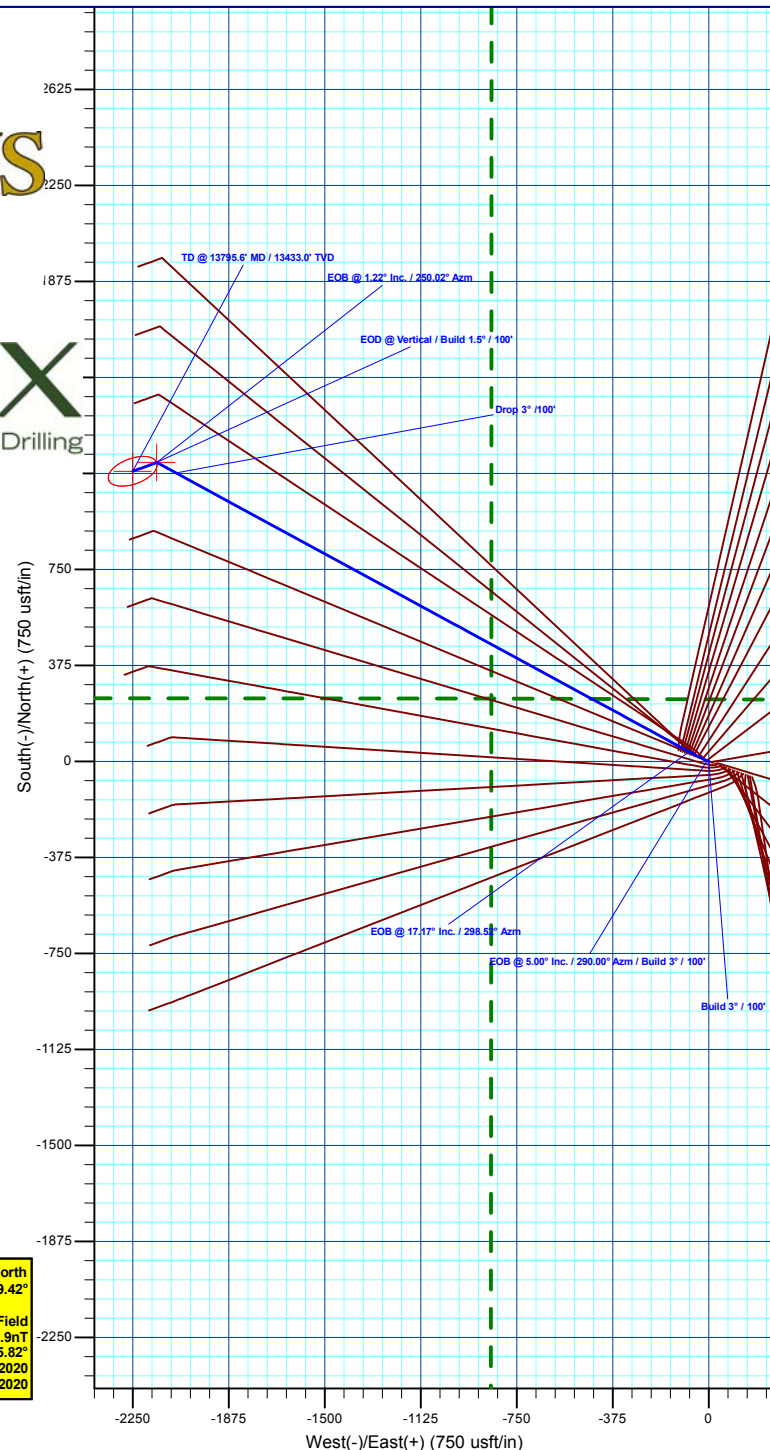
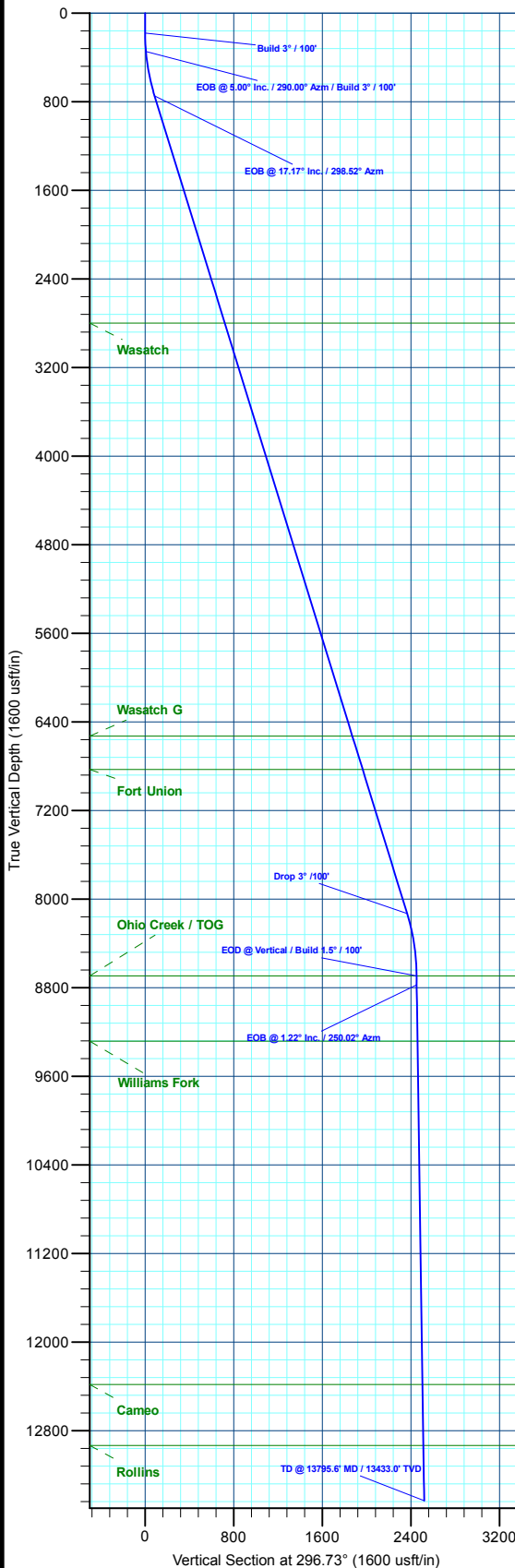
TVDPath	MDPath	Formation
2800.0	2904.4	Wasatch
6529.0	6807.3	Wasatch G
6829.0	7121.3	Fort Union
8694.0	9055.5	Ohio Creek / TOG
9283.0	9644.7	Williams Fork
12383.0	12745.4	Cameo
12933.0	13295.5	Rollins

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
25A-12 - OHCR8694.0	1167.3	-2156.3	-2156.3	14434349.19	2452764.03	39.712231	-108.11679
25A-12 - PBH13433.0	1133.1	-2250.3	-2250.3	14434312.00	2452671.20	39.712137	-108.112013

WELL DETAILS: ELU A18 FED 25A-12 496

Ground Level : 8029.0			
+N/-S	+E/-W	Northing	Easting
0.0	0.0	14433252.14	2454956.89
		Latitude	Longitude
		39.709028	-108.104017



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

Created By: Will Jircik

Date: 13:59, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 25A-12 496 - Slot 25A-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 25A-12 496 - Slot 25A-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 25A-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 25A-12 496 - Slot 25A-12					
Well Position	+N/-S	-29.3 usft	Northing:	14,433,252.14 usft	Latitude:	39.709028
	+E/-W	51.6 usft	Easting:	2,454,956.89 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 #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	296.73	

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	
180.0	0.00	0.00	180.0	0.0	0.0	0.00	0.00	0.00	0.00	
346.7	5.00	290.00	346.5	2.5	-6.8	3.00	3.00	0.00	290.00	
754.9	17.17	298.52	746.3	37.5	-76.8	3.00	2.98	2.09	11.89	
8,483.2	17.17	298.52	8,130.2	1,126.7	-2,081.5	0.00	0.00	0.00	0.00	
9,055.5	0.00	0.00	8,694.0	1,167.3	-2,156.3	3.00	-3.00	0.00	180.00	25A-12 - OHCR
9,136.8	1.22	250.02	8,775.3	1,167.0	-2,157.1	1.50	1.50	-135.30	250.02	
13,795.6	1.22	250.02	13,433.0	1,133.1	-2,250.3	0.00	0.00	0.00	0.00	25A-12 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-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 25A-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'									
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.60	290.00	200.0	0.0	-0.1	0.1	3.00	3.00	0.00
300.0	3.60	290.00	299.9	1.3	-3.5	3.7	3.00	3.00	0.00
EOB @ 5.00° Inc. / 290.00° Azm / Build 3° / 100'									
346.7	5.00	290.00	346.5	2.5	-6.8	7.2	3.00	3.00	0.00
400.0	6.57	292.88	399.5	4.5	-11.8	12.6	3.00	2.95	5.40
500.0	9.55	295.72	498.5	10.3	-24.6	26.6	3.00	2.97	2.84
600.0	12.53	297.21	596.7	18.9	-41.7	45.7	3.00	2.99	1.50
700.0	15.53	298.14	693.7	30.1	-63.2	70.0	3.00	2.99	0.93
EOB @ 17.17° Inc. / 298.52° Azm									
754.9	17.17	298.52	746.3	37.5	-76.8	85.4	3.00	2.99	0.68
800.0	17.17	298.52	789.4	43.8	-88.5	98.7	0.00	0.00	0.00
900.0	17.17	298.52	885.0	57.9	-114.4	128.2	0.00	0.00	0.00
1,000.0	17.17	298.52	980.5	72.0	-140.3	157.7	0.00	0.00	0.00
1,100.0	17.17	298.52	1,076.1	86.1	-166.3	187.2	0.00	0.00	0.00
1,200.0	17.17	298.52	1,171.6	100.2	-192.2	216.7	0.00	0.00	0.00
1,300.0	17.17	298.52	1,267.1	114.3	-218.2	246.3	0.00	0.00	0.00
1,400.0	17.17	298.52	1,362.7	128.4	-244.1	275.8	0.00	0.00	0.00
1,500.0	17.17	298.52	1,458.2	142.5	-270.0	305.3	0.00	0.00	0.00
1,600.0	17.17	298.52	1,553.8	156.6	-296.0	334.8	0.00	0.00	0.00
1,700.0	17.17	298.52	1,649.3	170.7	-321.9	364.3	0.00	0.00	0.00
1,800.0	17.17	298.52	1,744.9	184.8	-347.9	393.8	0.00	0.00	0.00
1,900.0	17.17	298.52	1,840.4	198.9	-373.8	423.3	0.00	0.00	0.00
2,000.0	17.17	298.52	1,935.9	213.0	-399.7	452.8	0.00	0.00	0.00
2,100.0	17.17	298.52	2,031.5	227.0	-425.7	482.3	0.00	0.00	0.00
2,200.0	17.17	298.52	2,127.0	241.1	-451.6	511.8	0.00	0.00	0.00
2,300.0	17.17	298.52	2,222.6	255.2	-477.6	541.3	0.00	0.00	0.00
2,400.0	17.17	298.52	2,318.1	269.3	-503.5	570.8	0.00	0.00	0.00
2,500.0	17.17	298.52	2,413.7	283.4	-529.4	600.3	0.00	0.00	0.00
2,600.0	17.17	298.52	2,509.2	297.5	-555.4	629.8	0.00	0.00	0.00
2,700.0	17.17	298.52	2,604.7	311.6	-581.3	659.4	0.00	0.00	0.00
2,800.0	17.17	298.52	2,700.3	325.7	-607.3	688.9	0.00	0.00	0.00
2,900.0	17.17	298.52	2,795.8	339.8	-633.2	718.4	0.00	0.00	0.00
Wasatch									
2,904.4	17.17	298.52	2,800.0	340.4	-634.3	719.7	0.00	0.00	0.00
3,000.0	17.17	298.52	2,891.4	353.9	-659.1	747.9	0.00	0.00	0.00
3,100.0	17.17	298.52	2,986.9	368.0	-685.1	777.4	0.00	0.00	0.00
3,200.0	17.17	298.52	3,082.5	382.1	-711.0	806.9	0.00	0.00	0.00
3,300.0	17.17	298.52	3,178.0	396.2	-737.0	836.4	0.00	0.00	0.00
3,400.0	17.17	298.52	3,273.5	410.3	-762.9	865.9	0.00	0.00	0.00
3,500.0	17.17	298.52	3,369.1	424.4	-788.8	895.4	0.00	0.00	0.00
3,600.0	17.17	298.52	3,464.6	438.5	-814.8	924.9	0.00	0.00	0.00
3,700.0	17.17	298.52	3,560.2	452.5	-840.7	954.4	0.00	0.00	0.00
3,800.0	17.17	298.52	3,655.7	466.6	-866.7	983.9	0.00	0.00	0.00
3,900.0	17.17	298.52	3,751.3	480.7	-892.6	1,013.4	0.00	0.00	0.00
4,000.0	17.17	298.52	3,846.8	494.8	-918.5	1,042.9	0.00	0.00	0.00
4,100.0	17.17	298.52	3,942.3	508.9	-944.5	1,072.5	0.00	0.00	0.00
4,200.0	17.17	298.52	4,037.9	523.0	-970.4	1,102.0	0.00	0.00	0.00
4,300.0	17.17	298.52	4,133.4	537.1	-996.4	1,131.5	0.00	0.00	0.00
4,400.0	17.17	298.52	4,229.0	551.2	-1,022.3	1,161.0	0.00	0.00	0.00
4,500.0	17.17	298.52	4,324.5	565.3	-1,048.2	1,190.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-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 25A-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	17.17	298.52	4,420.1	579.4	-1,074.2	1,220.0	0.00	0.00	0.00
4,700.0	17.17	298.52	4,515.6	593.5	-1,100.1	1,249.5	0.00	0.00	0.00
4,800.0	17.17	298.52	4,611.2	607.6	-1,126.1	1,279.0	0.00	0.00	0.00
4,900.0	17.17	298.52	4,706.7	621.7	-1,152.0	1,308.5	0.00	0.00	0.00
5,000.0	17.17	298.52	4,802.2	635.8	-1,177.9	1,338.0	0.00	0.00	0.00
5,100.0	17.17	298.52	4,897.8	649.9	-1,203.9	1,367.5	0.00	0.00	0.00
5,200.0	17.17	298.52	4,993.3	664.0	-1,229.8	1,397.0	0.00	0.00	0.00
5,300.0	17.17	298.52	5,088.9	678.0	-1,255.8	1,426.5	0.00	0.00	0.00
5,400.0	17.17	298.52	5,184.4	692.1	-1,281.7	1,456.0	0.00	0.00	0.00
5,500.0	17.17	298.52	5,280.0	706.2	-1,307.6	1,485.6	0.00	0.00	0.00
5,600.0	17.17	298.52	5,375.5	720.3	-1,333.6	1,515.1	0.00	0.00	0.00
5,700.0	17.17	298.52	5,471.0	734.4	-1,359.5	1,544.6	0.00	0.00	0.00
5,800.0	17.17	298.52	5,566.6	748.5	-1,385.5	1,574.1	0.00	0.00	0.00
5,900.0	17.17	298.52	5,662.1	762.6	-1,411.4	1,603.6	0.00	0.00	0.00
6,000.0	17.17	298.52	5,757.7	776.7	-1,437.3	1,633.1	0.00	0.00	0.00
6,100.0	17.17	298.52	5,853.2	790.8	-1,463.3	1,662.6	0.00	0.00	0.00
6,200.0	17.17	298.52	5,948.8	804.9	-1,489.2	1,692.1	0.00	0.00	0.00
6,300.0	17.17	298.52	6,044.3	819.0	-1,515.2	1,721.6	0.00	0.00	0.00
6,400.0	17.17	298.52	6,139.8	833.1	-1,541.1	1,751.1	0.00	0.00	0.00
6,500.0	17.17	298.52	6,235.4	847.2	-1,567.0	1,780.6	0.00	0.00	0.00
6,600.0	17.17	298.52	6,330.9	861.3	-1,593.0	1,810.1	0.00	0.00	0.00
6,700.0	17.17	298.52	6,426.5	875.4	-1,618.9	1,839.6	0.00	0.00	0.00
6,800.0	17.17	298.52	6,522.0	889.5	-1,644.9	1,869.1	0.00	0.00	0.00
Wasatch G									
6,807.3	17.17	298.52	6,529.0	890.5	-1,646.8	1,871.3	0.00	0.00	0.00
6,900.0	17.17	298.52	6,617.6	903.5	-1,670.8	1,898.7	0.00	0.00	0.00
7,000.0	17.17	298.52	6,713.1	917.6	-1,696.7	1,928.2	0.00	0.00	0.00
7,100.0	17.17	298.52	6,808.6	931.7	-1,722.7	1,957.7	0.00	0.00	0.00
Fort Union									
7,121.3	17.17	298.52	6,829.0	934.7	-1,728.2	1,964.0	0.00	0.00	0.00
7,200.0	17.17	298.52	6,904.2	945.8	-1,748.6	1,987.2	0.00	0.00	0.00
7,300.0	17.17	298.52	6,999.7	959.9	-1,774.6	2,016.7	0.00	0.00	0.00
7,400.0	17.17	298.52	7,095.3	974.0	-1,800.5	2,046.2	0.00	0.00	0.00
7,500.0	17.17	298.52	7,190.8	988.1	-1,826.4	2,075.7	0.00	0.00	0.00
7,600.0	17.17	298.52	7,286.4	1,002.2	-1,852.4	2,105.2	0.00	0.00	0.00
7,700.0	17.17	298.52	7,381.9	1,016.3	-1,878.3	2,134.7	0.00	0.00	0.00
7,800.0	17.17	298.52	7,477.4	1,030.4	-1,904.3	2,164.2	0.00	0.00	0.00
7,900.0	17.17	298.52	7,573.0	1,044.5	-1,930.2	2,193.7	0.00	0.00	0.00
8,000.0	17.17	298.52	7,668.5	1,058.6	-1,956.1	2,223.2	0.00	0.00	0.00
8,100.0	17.17	298.52	7,764.1	1,072.7	-1,982.1	2,252.7	0.00	0.00	0.00
8,200.0	17.17	298.52	7,859.6	1,086.8	-2,008.0	2,282.2	0.00	0.00	0.00
8,300.0	17.17	298.52	7,955.2	1,100.9	-2,034.0	2,311.8	0.00	0.00	0.00
8,400.0	17.17	298.52	8,050.7	1,115.0	-2,059.9	2,341.3	0.00	0.00	0.00
Drop 3° /100'									
8,483.2	17.17	298.52	8,130.2	1,126.7	-2,081.5	2,365.8	0.00	0.00	0.00
8,500.0	16.67	298.52	8,146.3	1,129.0	-2,085.8	2,370.7	3.00	-3.00	0.00
8,600.0	13.67	298.52	8,242.8	1,141.5	-2,108.8	2,396.8	3.00	-3.00	0.00
8,700.0	10.67	298.52	8,340.5	1,151.6	-2,127.3	2,417.9	3.00	-3.00	0.00
8,800.0	7.67	298.52	8,439.2	1,159.2	-2,141.3	2,433.8	3.00	-3.00	0.00
8,900.0	4.67	298.52	8,538.6	1,164.3	-2,150.7	2,444.6	3.00	-3.00	0.00
9,000.0	1.67	298.52	8,638.5	1,166.9	-2,155.6	2,450.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100° - Ohio Creek / TOG									
9,055.5	0.00	0.00	8,694.0	1,167.3	-2,156.3	2,450.9	3.00	-3.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-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 25A-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)	
9,100.0	0.67	250.02	8,738.5	1,167.2	-2,156.5	2,451.1	1.50	1.50	0.00	
EOB @ 1.22° Inc. / 250.02° Azm										
9,136.8	1.22	250.02	8,775.3	1,167.0	-2,157.1	2,451.5	1.50	1.50	0.00	
9,200.0	1.22	250.02	8,838.4	1,166.6	-2,158.4	2,452.4	0.00	0.00	0.00	
9,300.0	1.22	250.02	8,938.4	1,165.8	-2,160.4	2,453.9	0.00	0.00	0.00	
9,400.0	1.22	250.02	9,038.4	1,165.1	-2,162.4	2,455.3	0.00	0.00	0.00	
9,500.0	1.22	250.02	9,138.4	1,164.4	-2,164.4	2,456.8	0.00	0.00	0.00	
9,600.0	1.22	250.02	9,238.4	1,163.7	-2,166.4	2,458.2	0.00	0.00	0.00	
Williams Fork										
9,644.7	1.22	250.02	9,283.0	1,163.3	-2,167.2	2,458.9	0.00	0.00	0.00	
9,700.0	1.22	250.02	9,338.3	1,162.9	-2,168.4	2,459.7	0.00	0.00	0.00	
9,800.0	1.22	250.02	9,438.3	1,162.2	-2,170.4	2,461.2	0.00	0.00	0.00	
9,900.0	1.22	250.02	9,538.3	1,161.5	-2,172.4	2,462.6	0.00	0.00	0.00	
10,000.0	1.22	250.02	9,638.3	1,160.7	-2,174.4	2,464.1	0.00	0.00	0.00	
10,100.0	1.22	250.02	9,738.2	1,160.0	-2,176.4	2,465.5	0.00	0.00	0.00	
10,200.0	1.22	250.02	9,838.2	1,159.3	-2,178.4	2,467.0	0.00	0.00	0.00	
10,300.0	1.22	250.02	9,938.2	1,158.6	-2,180.4	2,468.5	0.00	0.00	0.00	
10,400.0	1.22	250.02	10,038.2	1,157.8	-2,182.4	2,469.9	0.00	0.00	0.00	
10,500.0	1.22	250.02	10,138.2	1,157.1	-2,184.4	2,471.4	0.00	0.00	0.00	
10,600.0	1.22	250.02	10,238.1	1,156.4	-2,186.4	2,472.8	0.00	0.00	0.00	
10,700.0	1.22	250.02	10,338.1	1,155.7	-2,188.4	2,474.3	0.00	0.00	0.00	
10,800.0	1.22	250.02	10,438.1	1,154.9	-2,190.4	2,475.8	0.00	0.00	0.00	
10,900.0	1.22	250.02	10,538.1	1,154.2	-2,192.4	2,477.2	0.00	0.00	0.00	
11,000.0	1.22	250.02	10,638.0	1,153.5	-2,194.3	2,478.7	0.00	0.00	0.00	
11,100.0	1.22	250.02	10,738.0	1,152.7	-2,196.3	2,480.1	0.00	0.00	0.00	
11,200.0	1.22	250.02	10,838.0	1,152.0	-2,198.3	2,481.6	0.00	0.00	0.00	
11,300.0	1.22	250.02	10,938.0	1,151.3	-2,200.3	2,483.0	0.00	0.00	0.00	
11,400.0	1.22	250.02	11,037.9	1,150.6	-2,202.3	2,484.5	0.00	0.00	0.00	
11,500.0	1.22	250.02	11,137.9	1,149.8	-2,204.3	2,486.0	0.00	0.00	0.00	
11,600.0	1.22	250.02	11,237.9	1,149.1	-2,206.3	2,487.4	0.00	0.00	0.00	
11,700.0	1.22	250.02	11,337.9	1,148.4	-2,208.3	2,488.9	0.00	0.00	0.00	
11,800.0	1.22	250.02	11,437.9	1,147.7	-2,210.3	2,490.3	0.00	0.00	0.00	
11,900.0	1.22	250.02	11,537.8	1,146.9	-2,212.3	2,491.8	0.00	0.00	0.00	
12,000.0	1.22	250.02	11,637.8	1,146.2	-2,214.3	2,493.3	0.00	0.00	0.00	
12,100.0	1.22	250.02	11,737.8	1,145.5	-2,216.3	2,494.7	0.00	0.00	0.00	
12,200.0	1.22	250.02	11,837.8	1,144.7	-2,218.3	2,496.2	0.00	0.00	0.00	
12,300.0	1.22	250.02	11,937.7	1,144.0	-2,220.3	2,497.6	0.00	0.00	0.00	
12,400.0	1.22	250.02	12,037.7	1,143.3	-2,222.3	2,499.1	0.00	0.00	0.00	
12,500.0	1.22	250.02	12,137.7	1,142.6	-2,224.3	2,500.6	0.00	0.00	0.00	
12,600.0	1.22	250.02	12,237.7	1,141.8	-2,226.3	2,502.0	0.00	0.00	0.00	
12,700.0	1.22	250.02	12,337.7	1,141.1	-2,228.3	2,503.5	0.00	0.00	0.00	
Cameo										
12,745.4	1.22	250.02	12,383.0	1,140.8	-2,229.3	2,504.1	0.00	0.00	0.00	
12,800.0	1.22	250.02	12,437.6	1,140.4	-2,230.3	2,504.9	0.00	0.00	0.00	
12,900.0	1.22	250.02	12,537.6	1,139.7	-2,232.3	2,506.4	0.00	0.00	0.00	
13,000.0	1.22	250.02	12,637.6	1,138.9	-2,234.3	2,507.9	0.00	0.00	0.00	
13,100.0	1.22	250.02	12,737.6	1,138.2	-2,236.3	2,509.3	0.00	0.00	0.00	
13,200.0	1.22	250.02	12,837.5	1,137.5	-2,238.3	2,510.8	0.00	0.00	0.00	
Rollins										
13,295.5	1.22	250.02	12,933.0	1,136.8	-2,240.3	2,512.2	0.00	0.00	0.00	
13,300.0	1.22	250.02	12,937.5	1,136.7	-2,240.3	2,512.2	0.00	0.00	0.00	
13,400.0	1.22	250.02	13,037.5	1,136.0	-2,242.3	2,513.7	0.00	0.00	0.00	
13,500.0	1.22	250.02	13,137.5	1,135.3	-2,244.3	2,515.1	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 25A-12 496 - Slot 25A-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 25A-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	1.22	250.02	13,237.4	1,134.6	-2,246.3	2,516.6	0.00	0.00	0.00	
13,700.0	1.22	250.02	13,337.4	1,133.8	-2,248.3	2,518.1	0.00	0.00	0.00	
TD @ 13795.6' MD / 13433.0' TVD										
13,795.6	1.22	250.02	13,433.0	1,133.1	-2,250.3	2,519.5	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	
25A-12 - OHCR - hit/miss target - Shape - Point	0.00	0.00	8,694.0	1,167.3	-2,156.3	14,434,349.19	2,452,764.03	39.712231	-108.111679	
25A-12 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	13,433.0	1,133.1	-2,250.3	14,434,312.00	2,452,671.20	39.712138	-108.112013	

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
2,904.4	2,800.0	Wasatch					
6,807.3	6,529.0	Wasatch G					
7,121.3	6,829.0	Fort Union					
9,055.5	8,694.0	Ohio Creek / TOG					
9,644.7	9,283.0	Williams Fork					
12,745.4	12,383.0	Cameo					
13,295.5	12,933.0	Rollins					

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
180.0	180.0	0.0	0.0	Build 3° / 100'	
346.7	346.5	2.5	-6.8	EOB @ 5.00° Inc. / 290.00° Azm / Build 3° / 100'	
754.9	746.3	37.5	-76.8	EOB @ 17.17° Inc. / 298.52° Azm	
8,483.2	8,130.2	1,126.7	-2,081.5	Drop 3° / 100'	
9,055.5	8,694.0	1,167.3	-2,156.3	EOD @ Vertical / Build 1.5° / 100'	
9,136.8	8,775.3	1,167.0	-2,157.1	EOB @ 1.22° Inc. / 250.02° Azm	
13,795.6	13,433.0	1,133.1	-2,250.3	TD @ 13795.6' MD / 13433.0' TVD	