

Project: Rio Blanco County, CO
 Site: ELU A18 495 Pad
 Well: ELU A18 FED 13D-18 495
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.708860
 Longitude: -108.103416
 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 - 13D-18(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8059.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
2800.0	2934.6	Wasatch
6430.0	6781.3	Wasatch G
6730.0	7089.2	Fort Union
8612.0	9068.0	Ohio Creek / TOG
9173.0	9629.1	Williams Fork
12294.0	12750.8	Cameo
12844.0	13300.9	Rollins

SECTION DETAILS

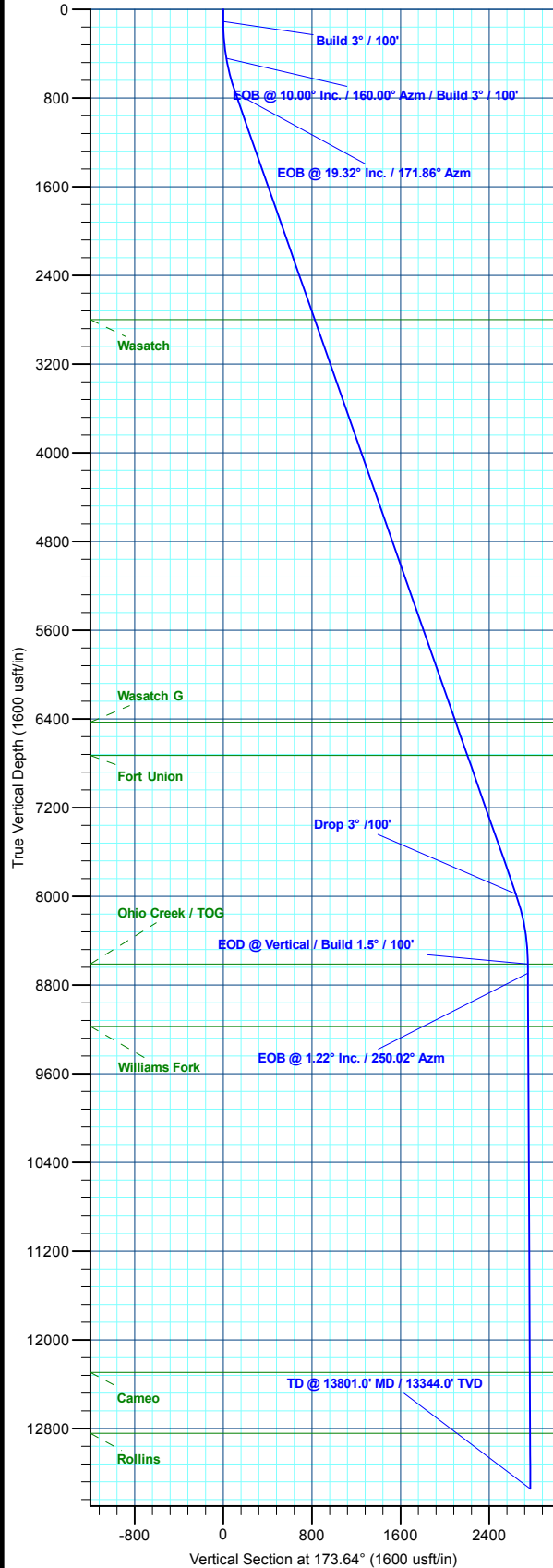
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
110.0	0.00	0.00	110.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
443.3	10.00	160.00	441.6	-27.3	9.9	3.00	160.00	28.2	EOB @ 10.00° Inc. / 160.00° Azm / Build 3° / 100'
768.3	19.32	171.86	755.7	-107.2	27.2	3.00	23.68	109.5	EOB @ 19.32° Inc. / 171.86° Azm
8423.9	19.32	171.86	7980.0	-2614.9	385.9	0.00	0.00	2641.6	Drop 3° / 100'
9068.0	0.00	0.00	8612.0	-2721.4	401.2	3.00	180.00	2749.1	EOD @ Vertical / Build 1.5° / 100'
9149.4	1.22	250.02	8693.4	-2721.7	400.4	1.50	250.02	2749.3	EOB @ 1.22° Inc. / 250.02° Azm
13801.0	1.22	250.02	13344.0	-2755.6	307.2	0.00	0.00	2772.7	TD @ 13801.0' MD / 13344.0' TVD

DESIGN TARGET DETAILS

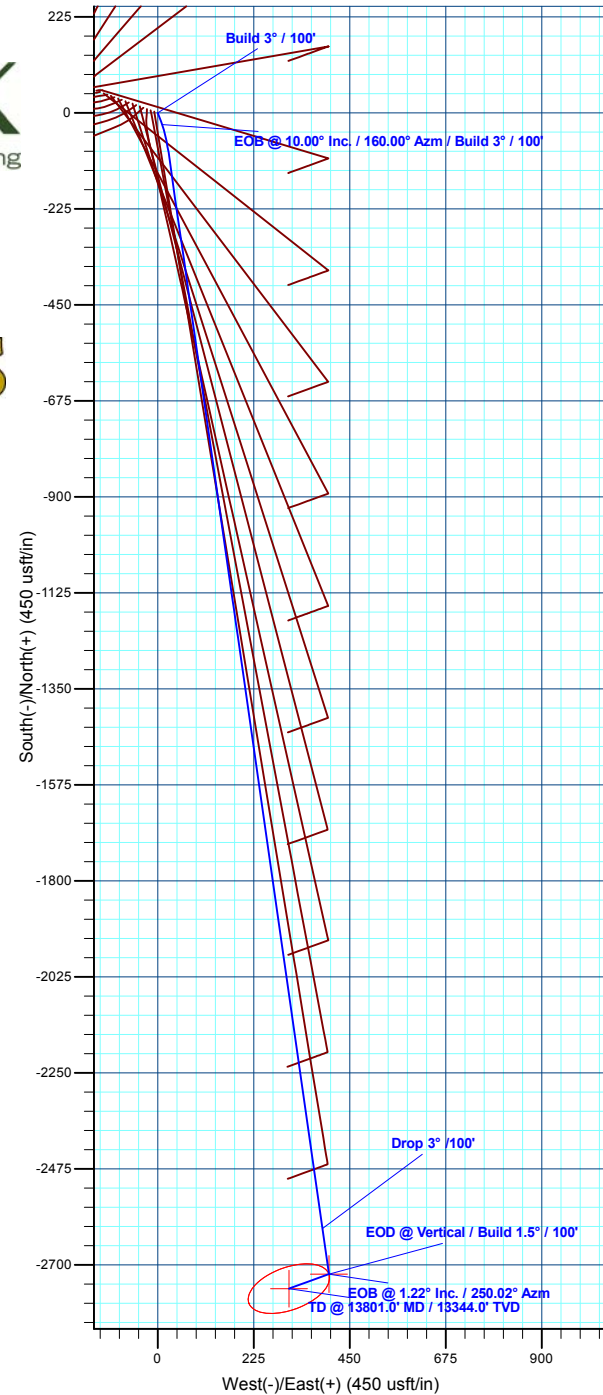
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
13D-18 - OHCR	8612.0	-2721.4	401.2	14430489.29	2455616.93	39.701391	-108.101991
13D-18 - PBHL	13344.0	-2755.6	307.2	14430452.10	2455524.10	39.701298	-108.102325

WELL DETAILS: ELU A18 FED 13D-18 495

Ground Level : 8029.0		Latitude	Longitude
+N/-S	+E/-W	North	East
0.0	0.0	14433196.35	2455128.02
		39.708860	-108.103416



T M Azimuths to True North
 Magnetic North: 9.42°
 Magnetic Field Strength: 51157.0nT
 Dip Angle: 65.82°
 Date: 8/17/2020
 Model: HDGM2020



Plan: Design #2 (ELU A18 FED 13D-18 495/Wellbore #1)

Created By: Will Jircik Date: 11:57, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 13D-18 495 - Slot 13D-18

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 13D-18 495 - Slot 13D-18
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 13D-18 495	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 13D-18 495 - Slot 13D-18					
Well Position	+N/-S	-90.6 usft	Northing:	14,433,196.35 usft	Latitude:	39.708860
	+E/-W	220.8 usft	Easting:	2,455,128.02 usft	Longitude:	-108.103416
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	51,157.00000000

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	173.64

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	
110.0	0.00	0.00	110.0	0.0	0.0	0.00	0.00	0.00	0.00	
443.3	10.00	160.00	441.6	-27.3	9.9	3.00	3.00	0.00	160.00	
768.3	19.32	171.86	755.7	-107.2	27.2	3.00	2.87	3.65	23.68	
8,423.9	19.32	171.86	7,980.0	-2,614.9	385.9	0.00	0.00	0.00	0.00	
9,068.0	0.00	0.00	8,612.0	-2,721.4	401.2	3.00	-3.00	0.00	180.00	13D-18 - OHCR
9,149.4	1.22	250.02	8,693.4	-2,721.7	400.4	1.50	1.50	-135.09	250.02	
13,801.0	1.22	250.02	13,344.0	-2,755.6	307.2	0.00	0.00	0.00	0.00	13D-18 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-18 495 - Slot 13D-18
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 13D-18 495	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	
Build 3° / 100'										
110.0	0.00	0.00	110.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	2.70	160.00	200.0	-2.0	0.7	2.1	3.00	3.00	0.00	
300.0	5.70	160.00	299.7	-8.9	3.2	9.2	3.00	3.00	0.00	
400.0	8.70	160.00	398.9	-20.6	7.5	21.4	3.00	3.00	0.00	
EOB @ 10.00° Inc. / 160.00° Azm / Build 3° / 100'										
443.3	10.00	160.00	441.6	-27.3	9.9	28.2	3.00	3.00	0.00	
500.0	11.58	163.40	497.3	-37.3	13.2	38.6	3.00	2.78	6.01	
600.0	14.43	167.59	594.7	-59.1	18.8	60.8	3.00	2.85	4.19	
700.0	17.33	170.41	690.9	-86.0	23.9	88.1	3.00	2.90	2.82	
EOB @ 19.32° Inc. / 171.86° Azm										
768.3	19.32	171.86	755.7	-107.2	27.2	109.5	3.00	2.93	2.12	
800.0	19.32	171.86	785.7	-117.6	28.7	120.0	0.00	0.00	0.00	
900.0	19.32	171.86	880.0	-150.3	33.4	153.1	0.00	0.00	0.00	
1,000.0	19.32	171.86	974.4	-183.1	38.1	186.2	0.00	0.00	0.00	
1,100.0	19.32	171.86	1,068.8	-215.9	42.8	219.3	0.00	0.00	0.00	
1,200.0	19.32	171.86	1,163.1	-248.6	47.5	252.3	0.00	0.00	0.00	
1,300.0	19.32	171.86	1,257.5	-281.4	52.1	285.4	0.00	0.00	0.00	
1,400.0	19.32	171.86	1,351.9	-314.1	56.8	318.5	0.00	0.00	0.00	
1,500.0	19.32	171.86	1,446.2	-346.9	61.5	351.6	0.00	0.00	0.00	
1,600.0	19.32	171.86	1,540.6	-379.6	66.2	384.6	0.00	0.00	0.00	
1,700.0	19.32	171.86	1,635.0	-412.4	70.9	417.7	0.00	0.00	0.00	
1,800.0	19.32	171.86	1,729.3	-445.2	75.6	450.8	0.00	0.00	0.00	
1,900.0	19.32	171.86	1,823.7	-477.9	80.3	483.9	0.00	0.00	0.00	
2,000.0	19.32	171.86	1,918.1	-510.7	84.9	516.9	0.00	0.00	0.00	
2,100.0	19.32	171.86	2,012.4	-543.4	89.6	550.0	0.00	0.00	0.00	
2,200.0	19.32	171.86	2,106.8	-576.2	94.3	583.1	0.00	0.00	0.00	
2,300.0	19.32	171.86	2,201.2	-608.9	99.0	616.2	0.00	0.00	0.00	
2,400.0	19.32	171.86	2,295.5	-641.7	103.7	649.2	0.00	0.00	0.00	
2,500.0	19.32	171.86	2,389.9	-674.5	108.4	682.3	0.00	0.00	0.00	
2,600.0	19.32	171.86	2,484.3	-707.2	113.1	715.4	0.00	0.00	0.00	
2,700.0	19.32	171.86	2,578.6	-740.0	117.7	748.5	0.00	0.00	0.00	
2,800.0	19.32	171.86	2,673.0	-772.7	122.4	781.5	0.00	0.00	0.00	
2,900.0	19.32	171.86	2,767.4	-805.5	127.1	814.6	0.00	0.00	0.00	
Wasatch										
2,934.6	19.32	171.86	2,800.0	-816.8	128.7	826.0	0.00	0.00	0.00	
3,000.0	19.32	171.86	2,861.7	-838.2	131.8	847.7	0.00	0.00	0.00	
3,100.0	19.32	171.86	2,956.1	-871.0	136.5	880.8	0.00	0.00	0.00	
3,200.0	19.32	171.86	3,050.5	-903.8	141.2	913.8	0.00	0.00	0.00	
3,300.0	19.32	171.86	3,144.8	-936.5	145.9	946.9	0.00	0.00	0.00	
3,400.0	19.32	171.86	3,239.2	-969.3	150.5	980.0	0.00	0.00	0.00	
3,500.0	19.32	171.86	3,333.6	-1,002.0	155.2	1,013.1	0.00	0.00	0.00	
3,600.0	19.32	171.86	3,427.9	-1,034.8	159.9	1,046.1	0.00	0.00	0.00	
3,700.0	19.32	171.86	3,522.3	-1,067.5	164.6	1,079.2	0.00	0.00	0.00	
3,800.0	19.32	171.86	3,616.7	-1,100.3	169.3	1,112.3	0.00	0.00	0.00	
3,900.0	19.32	171.86	3,711.0	-1,133.1	174.0	1,145.4	0.00	0.00	0.00	
4,000.0	19.32	171.86	3,805.4	-1,165.8	178.7	1,178.4	0.00	0.00	0.00	
4,100.0	19.32	171.86	3,899.8	-1,198.6	183.3	1,211.5	0.00	0.00	0.00	
4,200.0	19.32	171.86	3,994.1	-1,231.3	188.0	1,244.6	0.00	0.00	0.00	
4,300.0	19.32	171.86	4,088.5	-1,264.1	192.7	1,277.6	0.00	0.00	0.00	
4,400.0	19.32	171.86	4,182.9	-1,296.8	197.4	1,310.7	0.00	0.00	0.00	
4,500.0	19.32	171.86	4,277.2	-1,329.6	202.1	1,343.8	0.00	0.00	0.00	
4,600.0	19.32	171.86	4,371.6	-1,362.4	206.8	1,376.9	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-18 495 - Slot 13D-18
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 13D-18 495	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)
4,700.0	19.32	171.86	4,465.9	-1,395.1	211.5	1,409.9	0.00	0.00	0.00
4,800.0	19.32	171.86	4,560.3	-1,427.9	216.1	1,443.0	0.00	0.00	0.00
4,900.0	19.32	171.86	4,654.7	-1,460.6	220.8	1,476.1	0.00	0.00	0.00
5,000.0	19.32	171.86	4,749.0	-1,493.4	225.5	1,509.2	0.00	0.00	0.00
5,100.0	19.32	171.86	4,843.4	-1,526.1	230.2	1,542.2	0.00	0.00	0.00
5,200.0	19.32	171.86	4,937.8	-1,558.9	234.9	1,575.3	0.00	0.00	0.00
5,300.0	19.32	171.86	5,032.1	-1,591.7	239.6	1,608.4	0.00	0.00	0.00
5,400.0	19.32	171.86	5,126.5	-1,624.4	244.3	1,641.5	0.00	0.00	0.00
5,500.0	19.32	171.86	5,220.9	-1,657.2	248.9	1,674.5	0.00	0.00	0.00
5,600.0	19.32	171.86	5,315.2	-1,689.9	253.6	1,707.6	0.00	0.00	0.00
5,700.0	19.32	171.86	5,409.6	-1,722.7	258.3	1,740.7	0.00	0.00	0.00
5,800.0	19.32	171.86	5,504.0	-1,755.4	263.0	1,773.8	0.00	0.00	0.00
5,900.0	19.32	171.86	5,598.3	-1,788.2	267.7	1,806.8	0.00	0.00	0.00
6,000.0	19.32	171.86	5,692.7	-1,821.0	272.4	1,839.9	0.00	0.00	0.00
6,100.0	19.32	171.86	5,787.1	-1,853.7	277.1	1,873.0	0.00	0.00	0.00
6,200.0	19.32	171.86	5,881.4	-1,886.5	281.7	1,906.1	0.00	0.00	0.00
6,300.0	19.32	171.86	5,975.8	-1,919.2	286.4	1,939.1	0.00	0.00	0.00
6,400.0	19.32	171.86	6,070.2	-1,952.0	291.1	1,972.2	0.00	0.00	0.00
6,500.0	19.32	171.86	6,164.5	-1,984.7	295.8	2,005.3	0.00	0.00	0.00
6,600.0	19.32	171.86	6,258.9	-2,017.5	300.5	2,038.4	0.00	0.00	0.00
6,700.0	19.32	171.86	6,353.3	-2,050.2	305.2	2,071.4	0.00	0.00	0.00
Wasatch G									
6,781.3	19.32	171.86	6,430.0	-2,076.9	309.0	2,098.3	0.00	0.00	0.00
6,800.0	19.32	171.86	6,447.6	-2,083.0	309.9	2,104.5	0.00	0.00	0.00
6,900.0	19.32	171.86	6,542.0	-2,115.8	314.5	2,137.6	0.00	0.00	0.00
7,000.0	19.32	171.86	6,636.4	-2,148.5	319.2	2,170.7	0.00	0.00	0.00
Fort Union									
7,099.2	19.32	171.86	6,730.0	-2,181.0	323.9	2,203.5	0.00	0.00	0.00
7,100.0	19.32	171.86	6,730.7	-2,181.3	323.9	2,203.7	0.00	0.00	0.00
7,200.0	19.32	171.86	6,825.1	-2,214.0	328.6	2,236.8	0.00	0.00	0.00
7,300.0	19.32	171.86	6,919.5	-2,246.8	333.3	2,269.9	0.00	0.00	0.00
7,400.0	19.32	171.86	7,013.8	-2,279.5	338.0	2,303.0	0.00	0.00	0.00
7,500.0	19.32	171.86	7,108.2	-2,312.3	342.7	2,336.0	0.00	0.00	0.00
7,600.0	19.32	171.86	7,202.6	-2,345.1	347.3	2,369.1	0.00	0.00	0.00
7,700.0	19.32	171.86	7,296.9	-2,377.8	352.0	2,402.2	0.00	0.00	0.00
7,800.0	19.32	171.86	7,391.3	-2,410.6	356.7	2,435.3	0.00	0.00	0.00
7,900.0	19.32	171.86	7,485.7	-2,443.3	361.4	2,468.3	0.00	0.00	0.00
8,000.0	19.32	171.86	7,580.0	-2,476.1	366.1	2,501.4	0.00	0.00	0.00
8,100.0	19.32	171.86	7,674.4	-2,508.8	370.8	2,534.5	0.00	0.00	0.00
8,200.0	19.32	171.86	7,768.8	-2,541.6	375.5	2,567.6	0.00	0.00	0.00
8,300.0	19.32	171.86	7,863.1	-2,574.4	380.1	2,600.6	0.00	0.00	0.00
8,400.0	19.32	171.86	7,957.5	-2,607.1	384.8	2,633.7	0.00	0.00	0.00
Drop 3° /100'									
8,423.9	19.32	171.86	7,980.0	-2,614.9	385.9	2,641.6	0.00	0.00	0.00
8,500.0	17.04	171.86	8,052.4	-2,638.5	389.3	2,665.3	3.00	-3.00	0.00
8,600.0	14.04	171.86	8,148.7	-2,665.0	393.1	2,692.1	3.00	-3.00	0.00
8,700.0	11.04	171.86	8,246.3	-2,686.5	396.2	2,713.8	3.00	-3.00	0.00
8,800.0	8.04	171.86	8,344.9	-2,702.9	398.5	2,730.4	3.00	-3.00	0.00
8,900.0	5.04	171.86	8,444.2	-2,714.1	400.1	2,741.8	3.00	-3.00	0.00
9,000.0	2.04	171.86	8,544.0	-2,720.2	401.0	2,747.9	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG									
9,068.0	0.00	0.00	8,612.0	-2,721.4	401.2	2,749.1	3.00	-3.00	0.00
9,100.0	0.48	250.02	8,644.0	-2,721.5	401.1	2,749.2	1.50	1.50	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-18 495 - Slot 13D-18
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 13D-18 495	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 @ 1.22° Inc. / 250.02° Azm										
9,149.4	1.22	250.02	8,693.4	-2,721.7	400.4	2,749.3	1.50	1.50	0.00	
9,200.0	1.22	250.02	8,744.0	-2,722.1	399.4	2,749.6	0.00	0.00	0.00	
9,300.0	1.22	250.02	8,844.0	-2,722.8	397.4	2,750.1	0.00	0.00	0.00	
9,400.0	1.22	250.02	8,944.0	-2,723.6	395.3	2,750.6	0.00	0.00	0.00	
9,500.0	1.22	250.02	9,043.9	-2,724.3	393.3	2,751.1	0.00	0.00	0.00	
9,600.0	1.22	250.02	9,143.9	-2,725.0	391.3	2,751.6	0.00	0.00	0.00	
Williams Fork										
9,629.1	1.22	250.02	9,173.0	-2,725.2	390.8	2,751.7	0.00	0.00	0.00	
9,700.0	1.22	250.02	9,243.9	-2,725.8	389.3	2,752.1	0.00	0.00	0.00	
9,800.0	1.22	250.02	9,343.9	-2,726.5	387.3	2,752.6	0.00	0.00	0.00	
9,900.0	1.22	250.02	9,443.8	-2,727.2	385.3	2,753.1	0.00	0.00	0.00	
10,000.0	1.22	250.02	9,543.8	-2,727.9	383.3	2,753.6	0.00	0.00	0.00	
10,100.0	1.22	250.02	9,643.8	-2,728.7	381.3	2,754.1	0.00	0.00	0.00	
10,200.0	1.22	250.02	9,743.8	-2,729.4	379.3	2,754.6	0.00	0.00	0.00	
10,300.0	1.22	250.02	9,843.8	-2,730.1	377.3	2,755.1	0.00	0.00	0.00	
10,400.0	1.22	250.02	9,943.7	-2,730.8	375.3	2,755.6	0.00	0.00	0.00	
10,500.0	1.22	250.02	10,043.7	-2,731.6	373.3	2,756.1	0.00	0.00	0.00	
10,600.0	1.22	250.02	10,143.7	-2,732.3	371.3	2,756.6	0.00	0.00	0.00	
10,700.0	1.22	250.02	10,243.7	-2,733.0	369.3	2,757.1	0.00	0.00	0.00	
10,800.0	1.22	250.02	10,343.6	-2,733.8	367.3	2,757.6	0.00	0.00	0.00	
10,900.0	1.22	250.02	10,443.6	-2,734.5	365.3	2,758.1	0.00	0.00	0.00	
11,000.0	1.22	250.02	10,543.6	-2,735.2	363.3	2,758.6	0.00	0.00	0.00	
11,100.0	1.22	250.02	10,643.6	-2,735.9	361.3	2,759.1	0.00	0.00	0.00	
11,200.0	1.22	250.02	10,743.5	-2,736.7	359.3	2,759.6	0.00	0.00	0.00	
11,300.0	1.22	250.02	10,843.5	-2,737.4	357.3	2,760.1	0.00	0.00	0.00	
11,400.0	1.22	250.02	10,943.5	-2,738.1	355.3	2,760.6	0.00	0.00	0.00	
11,500.0	1.22	250.02	11,043.5	-2,738.9	353.3	2,761.1	0.00	0.00	0.00	
11,600.0	1.22	250.02	11,143.5	-2,739.6	351.3	2,761.6	0.00	0.00	0.00	
11,700.0	1.22	250.02	11,243.4	-2,740.3	349.3	2,762.1	0.00	0.00	0.00	
11,800.0	1.22	250.02	11,343.4	-2,741.0	347.3	2,762.6	0.00	0.00	0.00	
11,900.0	1.22	250.02	11,443.4	-2,741.8	345.3	2,763.1	0.00	0.00	0.00	
12,000.0	1.22	250.02	11,543.4	-2,742.5	343.3	2,763.6	0.00	0.00	0.00	
12,100.0	1.22	250.02	11,643.3	-2,743.2	341.3	2,764.1	0.00	0.00	0.00	
12,200.0	1.22	250.02	11,743.3	-2,744.0	339.3	2,764.7	0.00	0.00	0.00	
12,300.0	1.22	250.02	11,843.3	-2,744.7	337.3	2,765.2	0.00	0.00	0.00	
12,400.0	1.22	250.02	11,943.3	-2,745.4	335.3	2,765.7	0.00	0.00	0.00	
12,500.0	1.22	250.02	12,043.3	-2,746.1	333.3	2,766.2	0.00	0.00	0.00	
12,600.0	1.22	250.02	12,143.2	-2,746.9	331.3	2,766.7	0.00	0.00	0.00	
12,700.0	1.22	250.02	12,243.2	-2,747.6	329.3	2,767.2	0.00	0.00	0.00	
Cameo										
12,750.8	1.22	250.02	12,294.0	-2,748.0	328.2	2,767.4	0.00	0.00	0.00	
12,800.0	1.22	250.02	12,343.2	-2,748.3	327.3	2,767.7	0.00	0.00	0.00	
12,900.0	1.22	250.02	12,443.2	-2,749.1	325.2	2,768.2	0.00	0.00	0.00	
13,000.0	1.22	250.02	12,543.1	-2,749.8	323.2	2,768.7	0.00	0.00	0.00	
13,100.0	1.22	250.02	12,643.1	-2,750.5	321.2	2,769.2	0.00	0.00	0.00	
13,200.0	1.22	250.02	12,743.1	-2,751.2	319.2	2,769.7	0.00	0.00	0.00	
13,300.0	1.22	250.02	12,843.1	-2,752.0	317.2	2,770.2	0.00	0.00	0.00	
Rollins										
13,300.9	1.22	250.02	12,844.0	-2,752.0	317.2	2,770.2	0.00	0.00	0.00	
13,400.0	1.22	250.02	12,943.0	-2,752.7	315.2	2,770.7	0.00	0.00	0.00	
13,500.0	1.22	250.02	13,043.0	-2,753.4	313.2	2,771.2	0.00	0.00	0.00	
13,600.0	1.22	250.02	13,143.0	-2,754.2	311.2	2,771.7	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-18 495 - Slot 13D-18
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 13D-18 495	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)	
13,700.0	1.22	250.02	13,243.0	-2,754.9	309.2	2,772.2	0.00	0.00	0.00	
TD @ 13801.0' MD / 13344.0' TVD										
13,801.0	1.22	250.02	13,344.0	-2,755.6	307.2	2,772.7	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	
13D-18 - OHCR - hit/miss target - Shape - Point	0.00	0.00	8,612.0	-2,721.4	401.2	14,430,489.29	2,455,616.93	39.701391	-108.101991	
13D-18 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	13,344.0	-2,755.6	307.2	14,430,452.10	2,455,524.10	39.701298	-108.102325	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,934.6	2,800.0	Wasatch				
6,781.3	6,430.0	Wasatch G				
7,099.2	6,730.0	Fort Union				
9,068.0	8,612.0	Ohio Creek / TOG				
9,629.1	9,173.0	Williams Fork				
12,750.8	12,294.0	Cameo				
13,300.9	12,844.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
110.0	110.0	0.0	0.0	Build 3° / 100'	
443.3	441.6	-27.3	9.9	EOB @ 10.00° Inc. / 160.00° Azm / Build 3° / 100'	
768.3	755.7	-107.2	27.2	EOB @ 19.32° Inc. / 171.86° Azm	
8,423.9	7,980.0	-2,614.9	385.9	Drop 3° / 100'	
9,068.0	8,612.0	-2,721.4	401.2	EOD @ Vertical / Build 1.5° / 100'	
9,149.4	8,693.4	-2,721.7	400.4	EOB @ 1.22° Inc. / 250.02° Azm	
13,801.0	13,344.0	-2,755.6	307.2	TD @ 13801.0' MD / 13344.0' TVD	