

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 11C-18 495
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.708986
Longitude: -108.103867
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 - 11C-18(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2800.0	2806.9	Wasatch
6531.0	6552.2	Wasatch G
6831.0	6853.3	Fort Union
8701.0	8730.1	Ohio Creek / TOG
9286.0	9315.2	Williams Fork
12448.0	12477.9	Cameo
12998.0	13028.0	Rollins

SECTION DETAILS

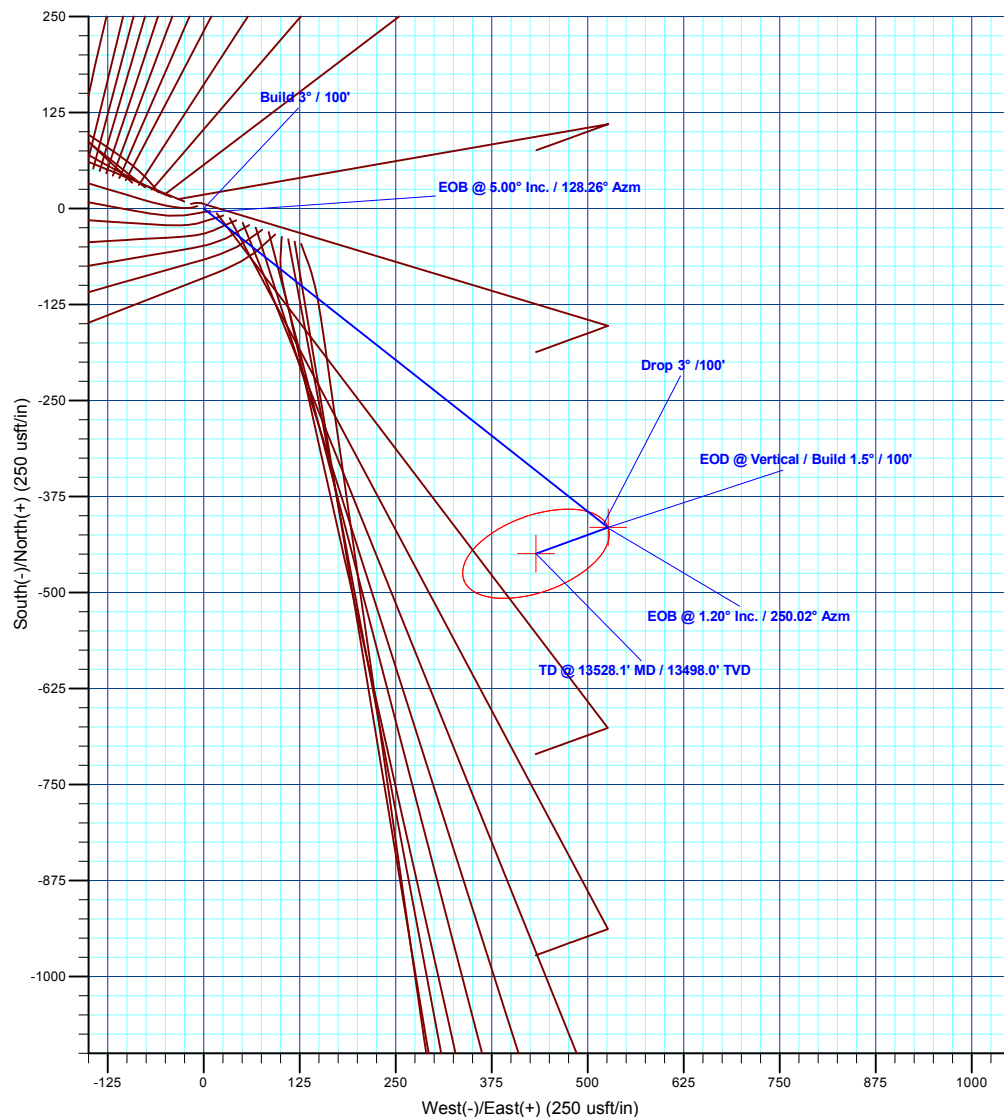
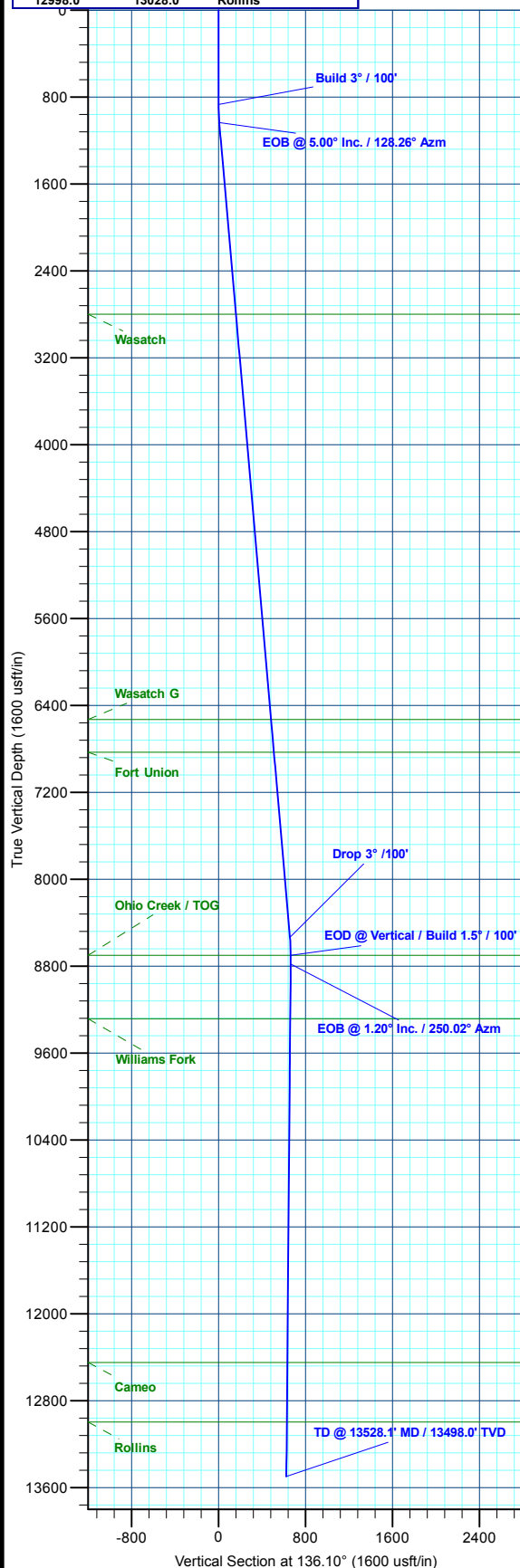
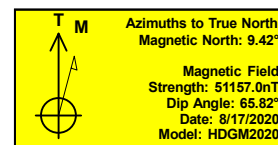
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSection	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
870.0	0.00	0.00	870.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1036.7	5.00	128.26	1036.5	-4.5	5.7	3.00	128.26	7.2	EOB @ 5.00° Inc. / 128.26° Azm
8563.4	5.00	128.26	8534.5	-410.7	520.8	0.00	0.00	657.1	Drop 3° / 100'
8730.1	0.00	0.00	8701.0	-415.2	526.5	3.00	180.00	664.3	EOD @ Vertical / Build 1.5° / 100'
8810.4	1.20	250.02	8781.3	-415.5	525.7	1.50	250.02	664.0	EOB @ 1.20° Inc. / 250.02° Azm
13528.1	1.20	250.02	13498.0	-449.4	432.5	0.00	0.00	623.7	TD @ 13528.1' MD / 13498.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
11C-18 - OHCR	8701.0	-415.2	526.5	14432840.19	2455539.33	39.707846	-108.101996
11C-18 - PBHL	13498.0	-449.4	432.5	14432803.00	2455446.50	39.707753	-108.102330

WELL DETAILS: ELU A18 FED 11C-18 495

Ground Level : 8029.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	14433238.20	2454999.67	39.708986	-108.103867	11C-18	



Plan: Design #2 (ELU A18 FED 11C-18 495/Wellbore #1)

Created By: Will Jircik Date: 10:33, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 11C-18 495 - Slot 11C-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 11C-18 495 - Slot 11C-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 11C-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 11C-18 495 - Slot 11C-18					
Well Position	+N/-S	-44.7 usft	Northing:	14,433,238.20 usft	Latitude:	39.708986
	+E/-W	93.9 usft	Easting:	2,454,999.67 usft	Longitude:	-108.103867
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	136.10

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	
870.0	0.00	0.00	870.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,036.7	5.00	128.26	1,036.5	-4.5	5.7	3.00	3.00	0.00	128.26	
8,563.4	5.00	128.26	8,534.5	-410.7	520.8	0.00	0.00	0.00	0.00	
8,730.1	0.00	0.00	8,701.0	-415.2	526.5	3.00	-3.00	0.00	180.00	11C-18 - OHCR
8,810.4	1.20	250.02	8,781.3	-415.5	525.7	1.50	1.50	-136.98	250.02	
13,528.1	1.20	250.02	13,498.0	-449.4	432.5	0.00	0.00	0.00	0.00	11C-18 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 11C-18 495 - Slot 11C-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 11C-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
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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
870.0	0.00	0.00	870.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.90	128.26	900.0	-0.1	0.2	0.2	3.00	3.00	0.00
1,000.0	3.90	128.26	999.9	-2.7	3.5	4.4	3.00	3.00	0.00
EOB @ 5.00° Inc. / 128.26° Azm									
1,036.7	5.00	128.26	1,036.5	-4.5	5.7	7.2	3.00	3.00	0.00
1,100.0	5.00	128.26	1,099.5	-7.9	10.0	12.7	0.00	0.00	0.00
1,200.0	5.00	128.26	1,199.2	-13.3	16.9	21.3	0.00	0.00	0.00
1,300.0	5.00	128.26	1,298.8	-18.7	23.7	29.9	0.00	0.00	0.00
1,400.0	5.00	128.26	1,398.4	-24.1	30.6	38.6	0.00	0.00	0.00
1,500.0	5.00	128.26	1,498.0	-29.5	37.4	47.2	0.00	0.00	0.00
1,600.0	5.00	128.26	1,597.6	-34.9	44.3	55.8	0.00	0.00	0.00
1,700.0	5.00	128.26	1,697.3	-40.3	51.1	64.5	0.00	0.00	0.00
1,800.0	5.00	128.26	1,796.9	-45.7	57.9	73.1	0.00	0.00	0.00
1,900.0	5.00	128.26	1,896.5	-51.1	64.8	81.7	0.00	0.00	0.00
2,000.0	5.00	128.26	1,996.1	-56.5	71.6	90.4	0.00	0.00	0.00
2,100.0	5.00	128.26	2,095.7	-61.9	78.5	99.0	0.00	0.00	0.00
2,200.0	5.00	128.26	2,195.4	-67.3	85.3	107.6	0.00	0.00	0.00
2,300.0	5.00	128.26	2,295.0	-72.7	92.2	116.3	0.00	0.00	0.00
2,400.0	5.00	128.26	2,394.6	-78.1	99.0	124.9	0.00	0.00	0.00
2,500.0	5.00	128.26	2,494.2	-83.5	105.9	133.6	0.00	0.00	0.00
2,600.0	5.00	128.26	2,593.8	-88.9	112.7	142.2	0.00	0.00	0.00
2,700.0	5.00	128.26	2,693.5	-94.3	119.5	150.8	0.00	0.00	0.00
2,800.0	5.00	128.26	2,793.1	-99.7	126.4	159.5	0.00	0.00	0.00
Wasatch									
2,806.9	5.00	128.26	2,800.0	-100.0	126.9	160.1	0.00	0.00	0.00
2,900.0	5.00	128.26	2,892.7	-105.1	133.2	168.1	0.00	0.00	0.00
3,000.0	5.00	128.26	2,992.3	-110.5	140.1	176.7	0.00	0.00	0.00
3,100.0	5.00	128.26	3,091.9	-115.9	146.9	185.4	0.00	0.00	0.00
3,200.0	5.00	128.26	3,191.6	-121.3	153.8	194.0	0.00	0.00	0.00
3,300.0	5.00	128.26	3,291.2	-126.7	160.6	202.6	0.00	0.00	0.00
3,400.0	5.00	128.26	3,390.8	-132.1	167.4	211.3	0.00	0.00	0.00
3,500.0	5.00	128.26	3,490.4	-137.5	174.3	219.9	0.00	0.00	0.00
3,600.0	5.00	128.26	3,590.0	-142.8	181.1	228.5	0.00	0.00	0.00
3,700.0	5.00	128.26	3,689.7	-148.2	188.0	237.2	0.00	0.00	0.00
3,800.0	5.00	128.26	3,789.3	-153.6	194.8	245.8	0.00	0.00	0.00
3,900.0	5.00	128.26	3,888.9	-159.0	201.7	254.4	0.00	0.00	0.00
4,000.0	5.00	128.26	3,988.5	-164.4	208.5	263.1	0.00	0.00	0.00
4,100.0	5.00	128.26	4,088.1	-169.8	215.4	271.7	0.00	0.00	0.00
4,200.0	5.00	128.26	4,187.8	-175.2	222.2	280.3	0.00	0.00	0.00
4,300.0	5.00	128.26	4,287.4	-180.6	229.0	289.0	0.00	0.00	0.00
4,400.0	5.00	128.26	4,387.0	-186.0	235.9	297.6	0.00	0.00	0.00
4,500.0	5.00	128.26	4,486.6	-191.4	242.7	306.2	0.00	0.00	0.00
4,600.0	5.00	128.26	4,586.2	-196.8	249.6	314.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 11C-18 495 - Slot 11C-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 11C-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	5.00	128.26	4,685.8	-202.2	256.4	323.5	0.00	0.00	0.00
4,800.0	5.00	128.26	4,785.5	-207.6	263.3	332.1	0.00	0.00	0.00
4,900.0	5.00	128.26	4,885.1	-213.0	270.1	340.8	0.00	0.00	0.00
5,000.0	5.00	128.26	4,984.7	-218.4	276.9	349.4	0.00	0.00	0.00
5,100.0	5.00	128.26	5,084.3	-223.8	283.8	358.0	0.00	0.00	0.00
5,200.0	5.00	128.26	5,183.9	-229.2	290.6	366.7	0.00	0.00	0.00
5,300.0	5.00	128.26	5,283.6	-234.6	297.5	375.3	0.00	0.00	0.00
5,400.0	5.00	128.26	5,383.2	-240.0	304.3	384.0	0.00	0.00	0.00
5,500.0	5.00	128.26	5,482.8	-245.4	311.2	392.6	0.00	0.00	0.00
5,600.0	5.00	128.26	5,582.4	-250.8	318.0	401.2	0.00	0.00	0.00
5,700.0	5.00	128.26	5,682.0	-256.2	324.9	409.9	0.00	0.00	0.00
5,800.0	5.00	128.26	5,781.7	-261.6	331.7	418.5	0.00	0.00	0.00
5,900.0	5.00	128.26	5,881.3	-267.0	338.5	427.1	0.00	0.00	0.00
6,000.0	5.00	128.26	5,980.9	-272.4	345.4	435.8	0.00	0.00	0.00
6,100.0	5.00	128.26	6,080.5	-277.8	352.2	444.4	0.00	0.00	0.00
6,200.0	5.00	128.26	6,180.1	-283.2	359.1	453.0	0.00	0.00	0.00
6,300.0	5.00	128.26	6,279.8	-288.6	365.9	461.7	0.00	0.00	0.00
6,400.0	5.00	128.26	6,379.4	-294.0	372.8	470.3	0.00	0.00	0.00
6,500.0	5.00	128.26	6,479.0	-299.4	379.6	478.9	0.00	0.00	0.00
Wasatch G									
6,552.2	5.00	128.26	6,531.0	-302.2	383.2	483.4	0.00	0.00	0.00
6,600.0	5.00	128.26	6,578.6	-304.8	386.4	487.6	0.00	0.00	0.00
6,700.0	5.00	128.26	6,678.2	-310.2	393.3	496.2	0.00	0.00	0.00
6,800.0	5.00	128.26	6,777.9	-315.6	400.1	504.8	0.00	0.00	0.00
Fort Union									
6,853.3	5.00	128.26	6,831.0	-318.4	403.8	509.4	0.00	0.00	0.00
6,900.0	5.00	128.26	6,877.5	-321.0	407.0	513.5	0.00	0.00	0.00
7,000.0	5.00	128.26	6,977.1	-326.4	413.8	522.1	0.00	0.00	0.00
7,100.0	5.00	128.26	7,076.7	-331.8	420.7	530.7	0.00	0.00	0.00
7,200.0	5.00	128.26	7,176.3	-337.2	427.5	539.4	0.00	0.00	0.00
7,300.0	5.00	128.26	7,276.0	-342.5	434.3	548.0	0.00	0.00	0.00
7,400.0	5.00	128.26	7,375.6	-347.9	441.2	556.6	0.00	0.00	0.00
7,500.0	5.00	128.26	7,475.2	-353.3	448.0	565.3	0.00	0.00	0.00
7,600.0	5.00	128.26	7,574.8	-358.7	454.9	573.9	0.00	0.00	0.00
7,700.0	5.00	128.26	7,674.4	-364.1	461.7	582.5	0.00	0.00	0.00
7,800.0	5.00	128.26	7,774.1	-369.5	468.6	591.2	0.00	0.00	0.00
7,900.0	5.00	128.26	7,873.7	-374.9	475.4	599.8	0.00	0.00	0.00
8,000.0	5.00	128.26	7,973.3	-380.3	482.3	608.4	0.00	0.00	0.00
8,100.0	5.00	128.26	8,072.9	-385.7	489.1	617.1	0.00	0.00	0.00
8,200.0	5.00	128.26	8,172.5	-391.1	495.9	625.7	0.00	0.00	0.00
8,300.0	5.00	128.26	8,272.1	-396.5	502.8	634.4	0.00	0.00	0.00
8,400.0	5.00	128.26	8,371.8	-401.9	509.6	643.0	0.00	0.00	0.00
8,500.0	5.00	128.26	8,471.4	-407.3	516.5	651.6	0.00	0.00	0.00
Drop 3° /100'									
8,563.4	5.00	128.26	8,534.5	-410.7	520.8	657.1	0.00	0.00	0.00
8,600.0	3.90	128.26	8,571.0	-412.5	523.0	659.9	3.00	-3.00	0.00
8,700.0	0.90	128.26	8,670.9	-415.1	526.3	664.1	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG									
8,730.1	0.00	0.00	8,701.0	-415.2	526.5	664.3	3.00	-3.00	0.00
8,800.0	1.05	250.02	8,770.9	-415.5	525.9	664.0	1.50	1.50	0.00
EOB @ 1.20° Inc. / 250.02° Azm									
8,810.4	1.20	250.02	8,781.3	-415.5	525.7	664.0	1.50	1.50	0.00
8,900.0	1.20	250.02	8,870.9	-416.2	524.0	663.2	0.00	0.00	0.00
9,000.0	1.20	250.02	8,970.9	-416.9	522.0	662.3	0.00	0.00	0.00

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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 11C-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)
9,100.0	1.20	250.02	9,070.9	-417.6	520.0	661.5	0.00	0.00	0.00
9,200.0	1.20	250.02	9,170.8	-418.3	518.0	660.6	0.00	0.00	0.00
9,300.0	1.20	250.02	9,270.8	-419.0	516.1	659.8	0.00	0.00	0.00
Williams Fork									
9,315.2	1.20	250.02	9,286.0	-419.2	515.8	659.7	0.00	0.00	0.00
9,400.0	1.20	250.02	9,370.8	-419.8	514.1	658.9	0.00	0.00	0.00
9,500.0	1.20	250.02	9,470.8	-420.5	512.1	658.1	0.00	0.00	0.00
9,600.0	1.20	250.02	9,570.8	-421.2	510.1	657.2	0.00	0.00	0.00
9,700.0	1.20	250.02	9,670.7	-421.9	508.2	656.4	0.00	0.00	0.00
9,800.0	1.20	250.02	9,770.7	-422.6	506.2	655.5	0.00	0.00	0.00
9,900.0	1.20	250.02	9,870.7	-423.4	504.2	654.7	0.00	0.00	0.00
10,000.0	1.20	250.02	9,970.7	-424.1	502.2	653.8	0.00	0.00	0.00
10,100.0	1.20	250.02	10,070.6	-424.8	500.3	653.0	0.00	0.00	0.00
10,200.0	1.20	250.02	10,170.6	-425.5	498.3	652.1	0.00	0.00	0.00
10,300.0	1.20	250.02	10,270.6	-426.2	496.3	651.3	0.00	0.00	0.00
10,400.0	1.20	250.02	10,370.6	-426.9	494.3	650.4	0.00	0.00	0.00
10,500.0	1.20	250.02	10,470.6	-427.7	492.4	649.6	0.00	0.00	0.00
10,600.0	1.20	250.02	10,570.5	-428.4	490.4	648.7	0.00	0.00	0.00
10,700.0	1.20	250.02	10,670.5	-429.1	488.4	647.8	0.00	0.00	0.00
10,800.0	1.20	250.02	10,770.5	-429.8	486.4	647.0	0.00	0.00	0.00
10,900.0	1.20	250.02	10,870.5	-430.5	484.4	646.1	0.00	0.00	0.00
11,000.0	1.20	250.02	10,970.4	-431.3	482.5	645.3	0.00	0.00	0.00
11,100.0	1.20	250.02	11,070.4	-432.0	480.5	644.4	0.00	0.00	0.00
11,200.0	1.20	250.02	11,170.4	-432.7	478.5	643.6	0.00	0.00	0.00
11,300.0	1.20	250.02	11,270.4	-433.4	476.5	642.7	0.00	0.00	0.00
11,400.0	1.20	250.02	11,370.4	-434.1	474.6	641.9	0.00	0.00	0.00
11,500.0	1.20	250.02	11,470.3	-434.8	472.6	641.0	0.00	0.00	0.00
11,600.0	1.20	250.02	11,570.3	-435.6	470.6	640.2	0.00	0.00	0.00
11,700.0	1.20	250.02	11,670.3	-436.3	468.6	639.3	0.00	0.00	0.00
11,800.0	1.20	250.02	11,770.3	-437.0	466.7	638.5	0.00	0.00	0.00
11,900.0	1.20	250.02	11,870.2	-437.7	464.7	637.6	0.00	0.00	0.00
12,000.0	1.20	250.02	11,970.2	-438.4	462.7	636.8	0.00	0.00	0.00
12,100.0	1.20	250.02	12,070.2	-439.2	460.7	635.9	0.00	0.00	0.00
12,200.0	1.20	250.02	12,170.2	-439.9	458.8	635.1	0.00	0.00	0.00
12,300.0	1.20	250.02	12,270.2	-440.6	456.8	634.2	0.00	0.00	0.00
12,400.0	1.20	250.02	12,370.1	-441.3	454.8	633.4	0.00	0.00	0.00
Cameo									
12,477.9	1.20	250.02	12,448.0	-441.9	453.3	632.7	0.00	0.00	0.00
12,500.0	1.20	250.02	12,470.1	-442.0	452.8	632.5	0.00	0.00	0.00
12,600.0	1.20	250.02	12,570.1	-442.7	450.9	631.7	0.00	0.00	0.00
12,700.0	1.20	250.02	12,670.1	-443.5	448.9	630.8	0.00	0.00	0.00
12,800.0	1.20	250.02	12,770.0	-444.2	446.9	629.9	0.00	0.00	0.00
12,900.0	1.20	250.02	12,870.0	-444.9	444.9	629.1	0.00	0.00	0.00
13,000.0	1.20	250.02	12,970.0	-445.6	443.0	628.2	0.00	0.00	0.00
Rollins									
13,028.0	1.20	250.02	12,998.0	-445.8	442.4	628.0	0.00	0.00	0.00
13,100.0	1.20	250.02	13,070.0	-446.3	441.0	627.4	0.00	0.00	0.00
13,200.0	1.20	250.02	13,170.0	-447.1	439.0	626.5	0.00	0.00	0.00
13,300.0	1.20	250.02	13,269.9	-447.8	437.0	625.7	0.00	0.00	0.00
13,400.0	1.20	250.02	13,369.9	-448.5	435.1	624.8	0.00	0.00	0.00
13,500.0	1.20	250.02	13,469.9	-449.2	433.1	624.0	0.00	0.00	0.00
TD @ 13528.1' MD / 13498.0' TVD									
13,528.1	1.20	250.02	13,498.0	-449.4	432.5	623.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 11C-18 495 - Slot 11C-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 11C-18 495	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
- Shape									
11C-18 - OHCR	0.00	0.00	8,701.0	-415.2	526.5	14,432,840.19	2,455,539.33	39.707847	-108.101997
- plan hits target center									
- Point									
11C-18 - PBHL	0.00	0.00	13,498.0	-449.4	432.5	14,432,803.00	2,455,446.50	39.707753	-108.102331
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,806.9	2,800.0	Wasatch			
6,552.2	6,531.0	Wasatch G			
6,853.3	6,831.0	Fort Union			
8,730.1	8,701.0	Ohio Creek / TOG			
9,315.2	9,286.0	Williams Fork			
12,477.9	12,448.0	Cameo			
13,028.0	12,998.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
870.0	870.0	0.0	0.0	Build 3° / 100'
1,036.7	1,036.5	-4.5	5.7	EOB @ 5.00° Inc. / 128.26° Azm
8,563.4	8,534.5	-410.7	520.8	Drop 3° / 100'
8,730.1	8,701.0	-415.2	526.5	EOD @ Vertical / Build 1.5° / 100'
8,810.4	8,781.3	-415.5	525.7	EOB @ 1.20° Inc. / 250.02° Azm
13,528.1	13,498.0	-449.4	432.5	TD @ 13528.1' MD / 13498.0' TVD