

Project: Rio Blanco County, CO
 Site: ELU A18 495 Pad
 Well: ELU A18 FED 15D-7 495
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.709036
 Longitude: -108.104047
 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 - 15D-7(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	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
297.1	5.01	52.78	296.9	4.4	5.8	3.00	52.78	7.3	EOB @ 5.01° Inc. / 52.78° Azm
8595.1	5.01	52.78	8563.1	442.9	583.2	0.00	0.00	731.6	Drop 3° / 100'
8762.2	0.00	0.00	8730.0	447.4	589.1	3.00	180.00	738.9	EOD @ Vertical / Build 1.5° / 100'
8842.5	1.20	250.02	8810.3	447.1	588.3	1.50	250.02	738.1	EOB @ 1.20° Inc. / 250.02° Azm
13560.2	1.20	250.02	13527.0	413.2	495.1	0.00	0.00	644.8	TD @ 13560.2' MD / 13527.0' TVD

FORMATION TOP DETAILS

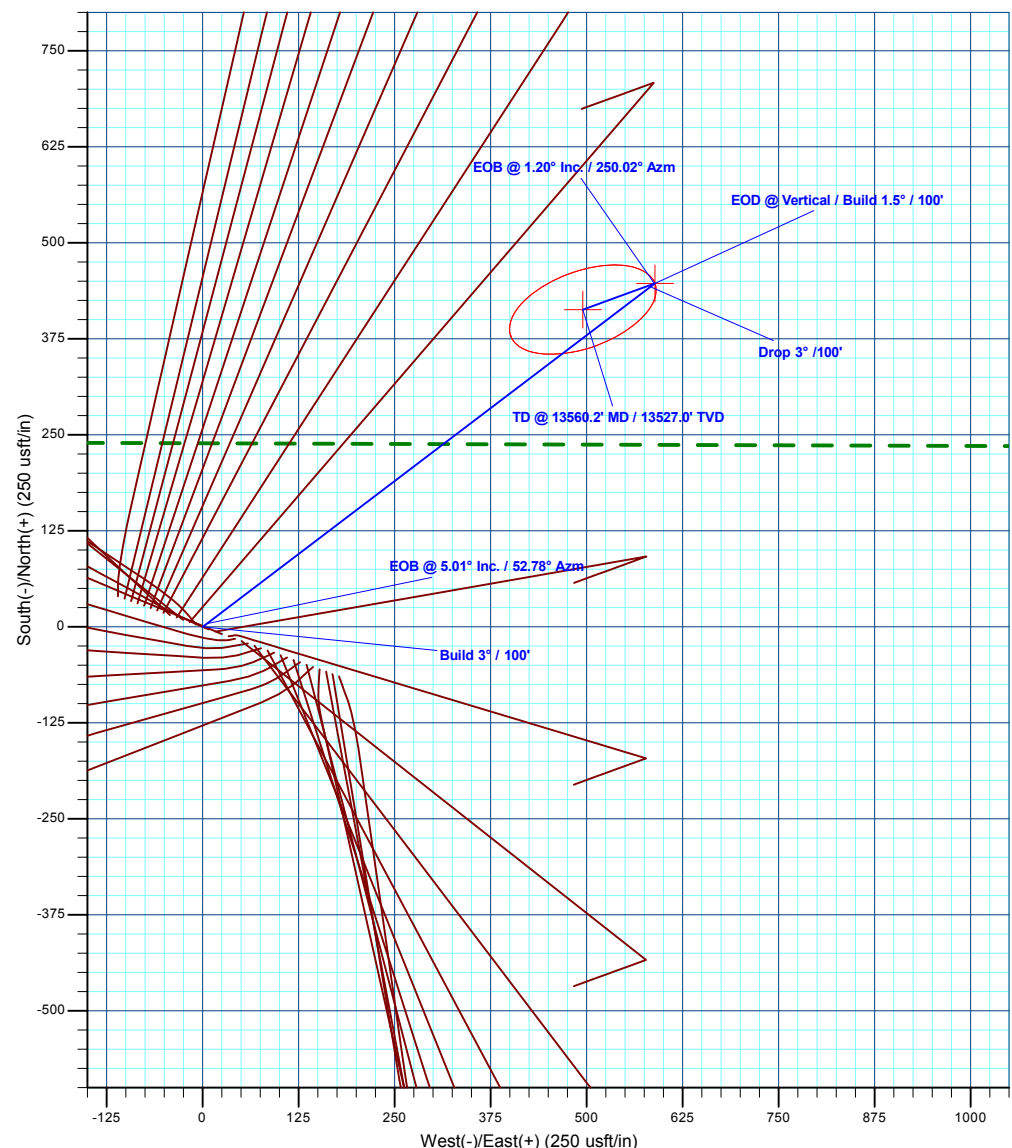
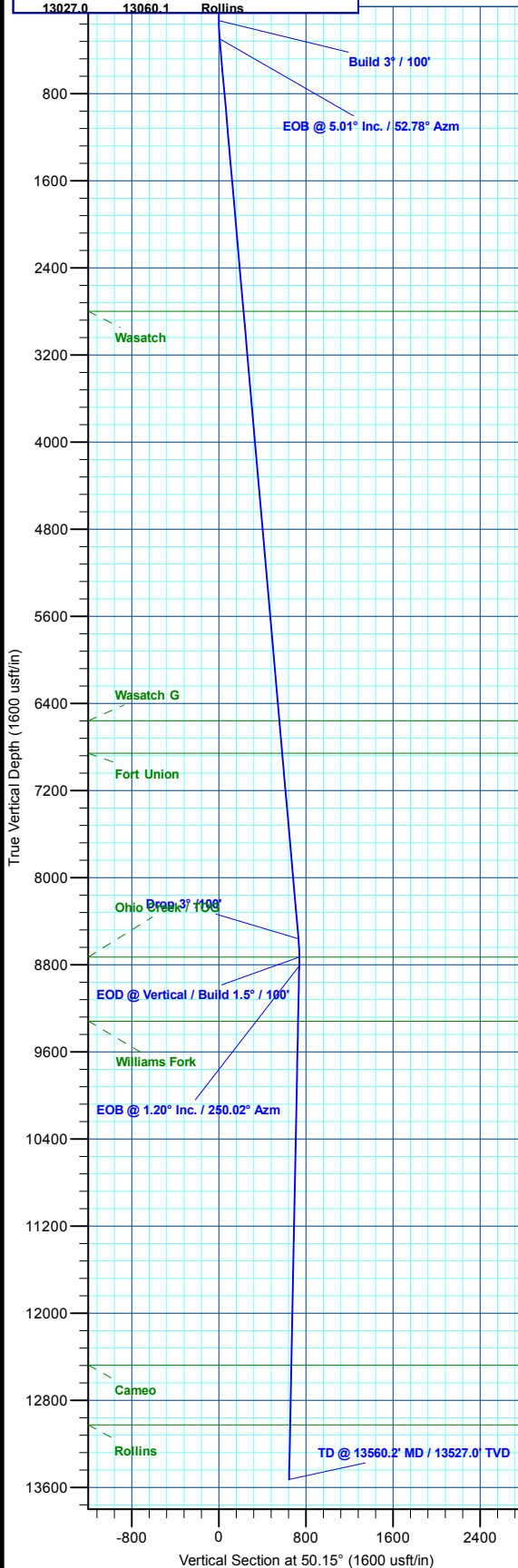
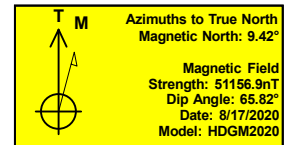
TVDPath	MDPath	Formation
2800.0	2809.8	Wasatch
6559.0	6583.3	Wasatch G
6859.0	6884.4	Fort Union
8730.0	8762.2	Ohio Creek / TOG
9319.0	9351.3	Williams Fork
12477.0	12510.0	Cameo
13027.0	13060.1	Rollins

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
15D-7 - OHCR 8730.0	447.4	589.1	14433721.09	2455522.63	39.710264	-108.101954	
15D-7 - PBHL13527.0	413.2	495.1	14433683.90	2455429.80	39.710170	-108.102288	

WELL DETAILS: ELU A18 FED 15D-7 495

Ground Level : 8029.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	14433254.93	2454948.33	39.709036	-108.104047	15D-7



Plan: Design #2 (ELU A18 FED 15D-7 495/Wellbore #1)

Created By: Will Jircik

Date: 13:25, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 15D-7 495 - Slot 15D-7

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 15D-7 495 - Slot 15D-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 15D-7 495	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 15D-7 495 - Slot 15D-7					
Well Position	+N/-S	-26.3 usft	Northing:	14,433,254.93 usft	Latitude:	39.709037
	+E/-W	43.1 usft	Easting:	2,454,948.33 usft	Longitude:	-108.104048
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	50.15	

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	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.00	0.00	0.00	
297.1	5.01	52.78	296.9	4.4	5.8	3.00	3.00	0.00	52.78	
8,595.1	5.01	52.78	8,563.1	442.9	583.2	0.00	0.00	0.00	0.00	
8,762.2	0.00	0.00	8,730.0	447.4	589.1	3.00	-3.00	0.00	180.00	15D-7 - OHCR
8,842.5	1.20	250.02	8,810.3	447.1	588.3	1.50	1.50	-136.98	250.02	
13,560.2	1.20	250.02	13,527.0	413.2	495.1	0.00	0.00	0.00	0.00	15D-7 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-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 15D-7 495	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
Build 3° / 100'									
130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	2.10	52.78	200.0	0.8	1.0	1.3	3.00	3.00	0.00
EOB @ 5.01° Inc. / 52.78° Azm									
297.1	5.01	52.78	296.9	4.4	5.8	7.3	3.00	3.00	0.00
300.0	5.01	52.78	299.8	4.6	6.0	7.6	0.00	0.00	0.00
400.0	5.01	52.78	399.4	9.9	13.0	16.3	0.00	0.00	0.00
500.0	5.01	52.78	499.0	15.1	19.9	25.0	0.00	0.00	0.00
600.0	5.01	52.78	598.6	20.4	26.9	33.7	0.00	0.00	0.00
700.0	5.01	52.78	698.2	25.7	33.9	42.5	0.00	0.00	0.00
800.0	5.01	52.78	797.9	31.0	40.8	51.2	0.00	0.00	0.00
900.0	5.01	52.78	897.5	36.3	47.8	59.9	0.00	0.00	0.00
1,000.0	5.01	52.78	997.1	41.6	54.7	68.7	0.00	0.00	0.00
1,100.0	5.01	52.78	1,096.7	46.8	61.7	77.4	0.00	0.00	0.00
1,200.0	5.01	52.78	1,196.3	52.1	68.6	86.1	0.00	0.00	0.00
1,300.0	5.01	52.78	1,296.0	57.4	75.6	94.8	0.00	0.00	0.00
1,400.0	5.01	52.78	1,395.6	62.7	82.6	103.6	0.00	0.00	0.00
1,500.0	5.01	52.78	1,495.2	68.0	89.5	112.3	0.00	0.00	0.00
1,600.0	5.01	52.78	1,594.8	73.3	96.5	121.0	0.00	0.00	0.00
1,700.0	5.01	52.78	1,694.4	78.6	103.4	129.8	0.00	0.00	0.00
1,800.0	5.01	52.78	1,794.0	83.8	110.4	138.5	0.00	0.00	0.00
1,900.0	5.01	52.78	1,893.7	89.1	117.4	147.2	0.00	0.00	0.00
2,000.0	5.01	52.78	1,993.3	94.4	124.3	155.9	0.00	0.00	0.00
2,100.0	5.01	52.78	2,092.9	99.7	131.3	164.7	0.00	0.00	0.00
2,200.0	5.01	52.78	2,192.5	105.0	138.2	173.4	0.00	0.00	0.00
2,300.0	5.01	52.78	2,292.1	110.3	145.2	182.1	0.00	0.00	0.00
2,400.0	5.01	52.78	2,391.7	115.6	152.2	190.9	0.00	0.00	0.00
2,500.0	5.01	52.78	2,491.4	120.8	159.1	199.6	0.00	0.00	0.00
2,600.0	5.01	52.78	2,591.0	126.1	166.1	208.3	0.00	0.00	0.00
2,700.0	5.01	52.78	2,690.6	131.4	173.0	217.0	0.00	0.00	0.00
2,800.0	5.01	52.78	2,790.2	136.7	180.0	225.8	0.00	0.00	0.00
Wasatch									
2,809.8	5.01	52.78	2,800.0	137.2	180.7	226.6	0.00	0.00	0.00
2,900.0	5.01	52.78	2,889.8	142.0	186.9	234.5	0.00	0.00	0.00
3,000.0	5.01	52.78	2,989.4	147.3	193.9	243.2	0.00	0.00	0.00
3,100.0	5.01	52.78	3,089.1	152.5	200.9	252.0	0.00	0.00	0.00
3,200.0	5.01	52.78	3,188.7	157.8	207.8	260.7	0.00	0.00	0.00
3,300.0	5.01	52.78	3,288.3	163.1	214.8	269.4	0.00	0.00	0.00
3,400.0	5.01	52.78	3,387.9	168.4	221.7	278.1	0.00	0.00	0.00
3,500.0	5.01	52.78	3,487.5	173.7	228.7	286.9	0.00	0.00	0.00
3,600.0	5.01	52.78	3,587.2	179.0	235.7	295.6	0.00	0.00	0.00
3,700.0	5.01	52.78	3,686.8	184.3	242.6	304.3	0.00	0.00	0.00
3,800.0	5.01	52.78	3,786.4	189.5	249.6	313.1	0.00	0.00	0.00
3,900.0	5.01	52.78	3,886.0	194.8	256.5	321.8	0.00	0.00	0.00
4,000.0	5.01	52.78	3,985.6	200.1	263.5	330.5	0.00	0.00	0.00
4,100.0	5.01	52.78	4,085.2	205.4	270.4	339.2	0.00	0.00	0.00
4,200.0	5.01	52.78	4,184.9	210.7	277.4	348.0	0.00	0.00	0.00
4,300.0	5.01	52.78	4,284.5	216.0	284.4	356.7	0.00	0.00	0.00
4,400.0	5.01	52.78	4,384.1	221.2	291.3	365.4	0.00	0.00	0.00
4,500.0	5.01	52.78	4,483.7	226.5	298.3	374.2	0.00	0.00	0.00
4,600.0	5.01	52.78	4,583.3	231.8	305.2	382.9	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-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 15D-7 495	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	5.01	52.78	4,682.9	237.1	312.2	391.6	0.00	0.00	0.00
4,800.0	5.01	52.78	4,782.6	242.4	319.2	400.3	0.00	0.00	0.00
4,900.0	5.01	52.78	4,882.2	247.7	326.1	409.1	0.00	0.00	0.00
5,000.0	5.01	52.78	4,981.8	253.0	333.1	417.8	0.00	0.00	0.00
5,100.0	5.01	52.78	5,081.4	258.2	340.0	426.5	0.00	0.00	0.00
5,200.0	5.01	52.78	5,181.0	263.5	347.0	435.3	0.00	0.00	0.00
5,300.0	5.01	52.78	5,280.7	268.8	353.9	444.0	0.00	0.00	0.00
5,400.0	5.01	52.78	5,380.3	274.1	360.9	452.7	0.00	0.00	0.00
5,500.0	5.01	52.78	5,479.9	279.4	367.9	461.4	0.00	0.00	0.00
5,600.0	5.01	52.78	5,579.5	284.7	374.8	470.2	0.00	0.00	0.00
5,700.0	5.01	52.78	5,679.1	289.9	381.8	478.9	0.00	0.00	0.00
5,800.0	5.01	52.78	5,778.7	295.2	388.7	487.6	0.00	0.00	0.00
5,900.0	5.01	52.78	5,878.4	300.5	395.7	496.4	0.00	0.00	0.00
6,000.0	5.01	52.78	5,978.0	305.8	402.7	505.1	0.00	0.00	0.00
6,100.0	5.01	52.78	6,077.6	311.1	409.6	513.8	0.00	0.00	0.00
6,200.0	5.01	52.78	6,177.2	316.4	416.6	522.5	0.00	0.00	0.00
6,300.0	5.01	52.78	6,276.8	321.7	423.5	531.3	0.00	0.00	0.00
6,400.0	5.01	52.78	6,376.4	326.9	430.5	540.0	0.00	0.00	0.00
6,500.0	5.01	52.78	6,476.1	332.2	437.5	548.7	0.00	0.00	0.00
Wasatch G									
6,583.3	5.01	52.78	6,559.0	336.6	443.2	556.0	0.00	0.00	0.00
6,600.0	5.01	52.78	6,575.7	337.5	444.4	557.5	0.00	0.00	0.00
6,700.0	5.01	52.78	6,675.3	342.8	451.4	566.2	0.00	0.00	0.00
6,800.0	5.01	52.78	6,774.9	348.1	458.3	574.9	0.00	0.00	0.00
Fort Union									
6,884.4	5.01	52.78	6,859.0	352.5	464.2	582.3	0.00	0.00	0.00
6,900.0	5.01	52.78	6,874.5	353.4	465.3	583.6	0.00	0.00	0.00
7,000.0	5.01	52.78	6,974.1	358.7	472.2	592.4	0.00	0.00	0.00
7,100.0	5.01	52.78	7,073.8	363.9	479.2	601.1	0.00	0.00	0.00
7,200.0	5.01	52.78	7,173.4	369.2	486.2	609.8	0.00	0.00	0.00
7,300.0	5.01	52.78	7,273.0	374.5	493.1	618.6	0.00	0.00	0.00
7,400.0	5.01	52.78	7,372.6	379.8	500.1	627.3	0.00	0.00	0.00
7,500.0	5.01	52.78	7,472.2	385.1	507.0	636.0	0.00	0.00	0.00
7,600.0	5.01	52.78	7,571.9	390.4	514.0	644.7	0.00	0.00	0.00
7,700.0	5.01	52.78	7,671.5	395.6	521.0	653.5	0.00	0.00	0.00
7,800.0	5.01	52.78	7,771.1	400.9	527.9	662.2	0.00	0.00	0.00
7,900.0	5.01	52.78	7,870.7	406.2	534.9	670.9	0.00	0.00	0.00
8,000.0	5.01	52.78	7,970.3	411.5	541.8	679.7	0.00	0.00	0.00
8,100.0	5.01	52.78	8,069.9	416.8	548.8	688.4	0.00	0.00	0.00
8,200.0	5.01	52.78	8,169.6	422.1	555.7	697.1	0.00	0.00	0.00
8,300.0	5.01	52.78	8,269.2	427.4	562.7	705.8	0.00	0.00	0.00
8,400.0	5.01	52.78	8,368.8	432.6	569.7	714.6	0.00	0.00	0.00
8,500.0	5.01	52.78	8,468.4	437.9	576.6	723.3	0.00	0.00	0.00
Drop 3° /100'									
8,595.1	5.01	52.78	8,563.1	442.9	583.2	731.6	0.00	0.00	0.00
8,600.0	4.86	52.78	8,568.0	443.2	583.6	732.0	3.00	-3.00	0.00
8,700.0	1.86	52.78	8,667.8	446.8	588.3	737.9	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG									
8,762.2	0.00	0.00	8,730.0	447.4	589.1	738.9	3.00	-3.00	-84.91
8,800.0	0.57	250.02	8,767.8	447.3	588.9	738.7	1.50	1.50	-290.68
EOB @ 1.20° Inc. / 250.02° Azm									
8,842.5	1.20	250.02	8,810.3	447.1	588.3	738.1	1.50	1.50	0.00
8,900.0	1.20	250.02	8,867.8	446.7	587.1	737.0	0.00	0.00	0.00
9,000.0	1.20	250.02	8,967.8	445.9	585.2	735.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-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 15D-7 495	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	9,067.8	445.2	583.2	733.0	0.00	0.00	0.00
9,200.0	1.20	250.02	9,167.8	444.5	581.2	731.0	0.00	0.00	0.00
9,300.0	1.20	250.02	9,267.7	443.8	579.2	729.1	0.00	0.00	0.00
Williams Fork									
9,351.3	1.20	250.02	9,319.0	443.4	578.2	728.0	0.00	0.00	0.00
9,400.0	1.20	250.02	9,367.7	443.1	577.3	727.1	0.00	0.00	0.00
9,500.0	1.20	250.02	9,467.7	442.4	575.3	725.1	0.00	0.00	0.00
9,600.0	1.20	250.02	9,567.7	441.6	573.3	723.1	0.00	0.00	0.00
9,700.0	1.20	250.02	9,667.6	440.9	571.3	721.2	0.00	0.00	0.00
9,800.0	1.20	250.02	9,767.6	440.2	569.4	719.2	0.00	0.00	0.00
9,900.0	1.20	250.02	9,867.6	439.5	567.4	717.2	0.00	0.00	0.00
10,000.0	1.20	250.02	9,967.6	438.8	565.4	715.2	0.00	0.00	0.00
10,100.0	1.20	250.02	10,067.6	438.0	563.4	713.2	0.00	0.00	0.00
10,200.0	1.20	250.02	10,167.5	437.3	561.5	711.3	0.00	0.00	0.00
10,300.0	1.20	250.02	10,267.5	436.6	559.5	709.3	0.00	0.00	0.00
10,400.0	1.20	250.02	10,367.5	435.9	557.5	707.3	0.00	0.00	0.00
10,500.0	1.20	250.02	10,467.5	435.2	555.5	705.3	0.00	0.00	0.00
10,600.0	1.20	250.02	10,567.4	434.5	553.5	703.4	0.00	0.00	0.00
10,700.0	1.20	250.02	10,667.4	433.7	551.6	701.4	0.00	0.00	0.00
10,800.0	1.20	250.02	10,767.4	433.0	549.6	699.4	0.00	0.00	0.00
10,900.0	1.20	250.02	10,867.4	432.3	547.6	697.4	0.00	0.00	0.00
11,000.0	1.20	250.02	10,967.4	431.6	545.6	695.5	0.00	0.00	0.00
11,100.0	1.20	250.02	11,067.3	430.9	543.7	693.5	0.00	0.00	0.00
11,200.0	1.20	250.02	11,167.3	430.1	541.7	691.5	0.00	0.00	0.00
11,300.0	1.20	250.02	11,267.3	429.4	539.7	689.5	0.00	0.00	0.00
11,400.0	1.20	250.02	11,367.3	428.7	537.7	687.5	0.00	0.00	0.00
11,500.0	1.20	250.02	11,467.2	428.0	535.8	685.6	0.00	0.00	0.00
11,600.0	1.20	250.02	11,567.2	427.3	533.8	683.6	0.00	0.00	0.00
11,700.0	1.20	250.02	11,667.2	426.6	531.8	681.6	0.00	0.00	0.00
11,800.0	1.20	250.02	11,767.2	425.8	529.8	679.6	0.00	0.00	0.00
11,900.0	1.20	250.02	11,867.2	425.1	527.9	677.7	0.00	0.00	0.00
12,000.0	1.20	250.02	11,967.1	424.4	525.9	675.7	0.00	0.00	0.00
12,100.0	1.20	250.02	12,067.1	423.7	523.9	673.7	0.00	0.00	0.00
12,200.0	1.20	250.02	12,167.1	423.0	521.9	671.7	0.00	0.00	0.00
12,300.0	1.20	250.02	12,267.1	422.2	520.0	669.8	0.00	0.00	0.00
12,400.0	1.20	250.02	12,367.0	421.5	518.0	667.8	0.00	0.00	0.00
12,500.0	1.20	250.02	12,467.0	420.8	516.0	665.8	0.00	0.00	0.00
Cameo									
12,510.0	1.20	250.02	12,477.0	420.7	515.8	665.6	0.00	0.00	0.00
12,600.0	1.20	250.02	12,567.0	420.1	514.0	663.8	0.00	0.00	0.00
12,700.0	1.20	250.02	12,667.0	419.4	512.1	661.9	0.00	0.00	0.00
12,800.0	1.20	250.02	12,767.0	418.7	510.1	659.9	0.00	0.00	0.00
12,900.0	1.20	250.02	12,866.9	417.9	508.1	657.9	0.00	0.00	0.00
13,000.0	1.20	250.02	12,966.9	417.2	506.1	655.9	0.00	0.00	0.00
Rollins									
13,060.1	1.20	250.02	13,027.0	416.8	505.0	654.7	0.00	0.00	0.00
13,100.0	1.20	250.02	13,066.9	416.5	504.2	653.9	0.00	0.00	0.00
13,200.0	1.20	250.02	13,166.9	415.8	502.2	652.0	0.00	0.00	0.00
13,300.0	1.20	250.02	13,266.8	415.1	500.2	650.0	0.00	0.00	0.00
13,400.0	1.20	250.02	13,366.8	414.3	498.2	648.0	0.00	0.00	0.00
13,500.0	1.20	250.02	13,466.8	413.6	496.3	646.0	0.00	0.00	0.00
TD @ 13560.2' MD / 13527.0' TVD									
13,560.2	1.20	250.02	13,527.0	413.2	495.1	644.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 15D-7 495 - Slot 15D-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 15D-7 495	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									
15D-7 - OHCR	0.00	0.00	8,730.0	447.4	589.1	14,433,721.09	2,455,522.63	39.710264	-108.101955
- plan hits target center									
- Point									
15D-7 - PBHL	0.00	0.00	13,527.0	413.2	495.1	14,433,683.90	2,455,429.80	39.710170	-108.102289
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 250.00 azi)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,809.8	2,800.0	Wasatch			
6,583.3	6,559.0	Wasatch G			
6,884.4	6,859.0	Fort Union			
8,762.2	8,730.0	Ohio Creek / TOG			
9,351.3	9,319.0	Williams Fork			
12,510.0	12,477.0	Cameo			
13,060.1	13,027.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
130.0	130.0	0.0	0.0	Build 3° / 100'
297.1	296.9	4.4	5.8	EOB @ 5.01° Inc. / 52.78° Azm
8,595.1	8,563.1	442.9	583.2	Drop 3° / 100'
8,762.2	8,730.0	447.4	589.1	EOD @ Vertical / Build 1.5° / 100'
8,842.5	8,810.3	447.1	588.3	EOB @ 1.20° Inc. / 250.02° Azm
13,560.2	13,527.0	413.2	495.1	TD @ 13560.2' MD / 13527.0' TVD