

Project: Rio Blanco County, CO
Site: ELU A18 495 Pad
Well: ELU A18 FED 12A-18 495
Wellbore: Wellbore #1
Design: Design #2
Latitude: 39.708952
Longitude: -108.103747
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 - 12A-18(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8059.0usft (30')
Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2800.0	2819.1	Wasatch
6505.0	6555.4	Wasatch G
6805.0	6857.9	Fort Union
8674.0	8741.3	Ohio Creek / TOG
9254.0	9321.4	Williams Fork
12415.0	12483.1	Cameo
12965.0	13033.2	Rollins

SECTION DETAILS

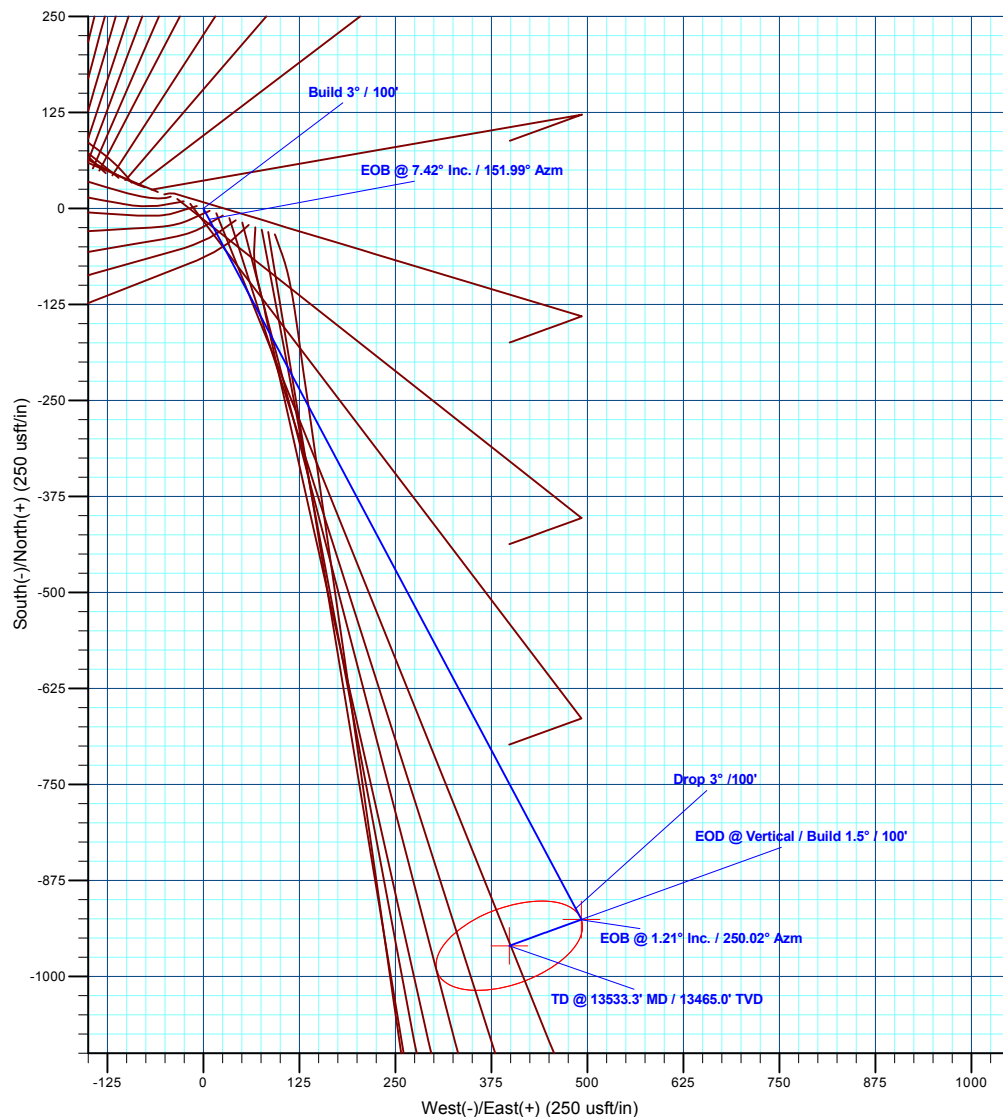
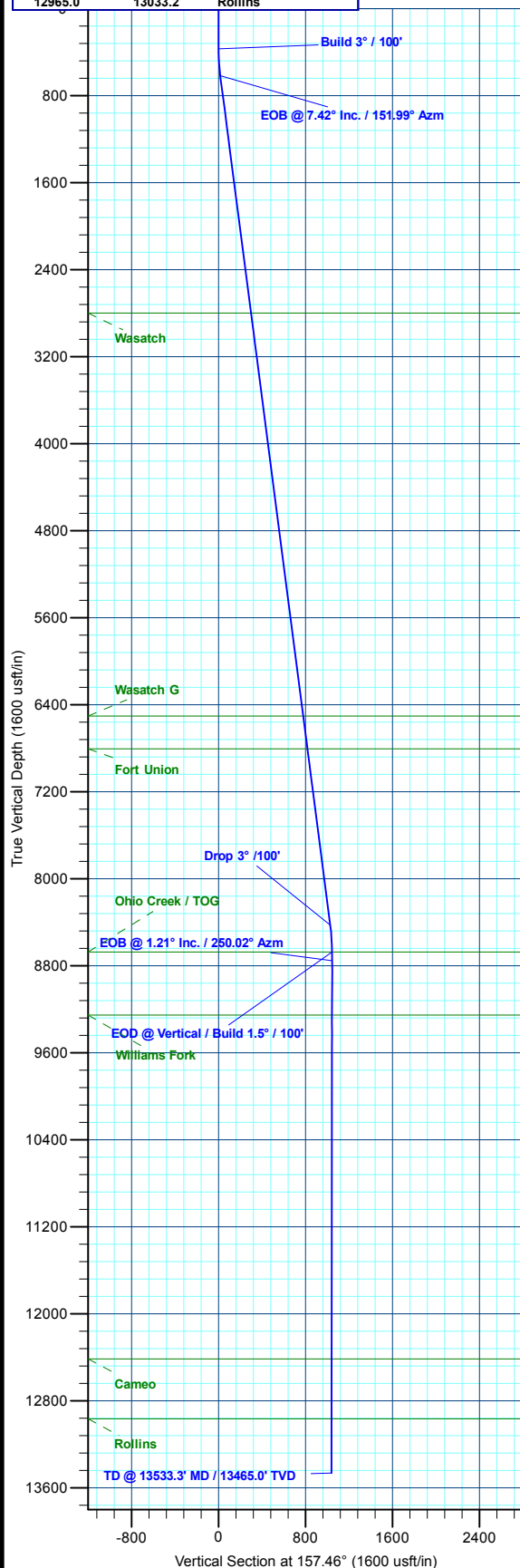
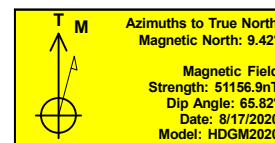
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSection	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
370.0	0.00	0.00	370.0	0.0	0.0	0.00	0.00	0.0	EOB @ 7.42° Inc. / 151.99° Azm
617.2	7.42	151.99	616.5	-14.1	7.5	3.00	151.99	15.9	Drop 3° / 100'
8494.1	7.42	151.99	8427.5	-911.7	485.0	0.00	0.00	1028.0	EOD @ Vertical / Build 1.5° / 100'
8741.3	0.00	0.00	8674.0	-925.8	492.5	3.00	180.00	1043.9	EOB @ 1.21° Inc. / 250.02° Azm
8821.7	1.21	250.02	8754.4	-926.1	491.7	1.50	250.02	1043.9	TD @ 13533.3' MD / 13465.0' TVD
13533.3	1.21	250.02	13465.0	-960.0	398.5	0.00	0.00	1039.4	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
12A-18 - OHCR	8674.0	-925.8	492.5	14432317.59	2455556.03	39.706412	-108.101997
12A-18 - PBHL	13465.0	-960.0	398.5	14432280.40	2455463.20	39.706318	-108.102331

WELL DETAILS: ELU A18 FED 12A-18 495

Ground Level : 8029.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14433227.04	2455033.89	39.708952	-108.103747



Plan: Design #2 (ELU A18 FED 12A-18 495/Wellbore #1)

Created By: Will Jircik Date: 10:41, May 18 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 12A-18 495 - Slot 12A-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 12A-18 495 - Slot 12A-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 12A-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 12A-18 495 - Slot 12A-18					
Well Position	+N/-S	-56.9 usft	Northing:	14,433,227.04 usft	Latitude:	39.708952
	+E/-W	127.7 usft	Easting:	2,455,033.89 usft	Longitude:	-108.103747
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	157.46

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	
370.0	0.00	0.00	370.0	0.0	0.0	0.00	0.00	0.00	0.00	
617.2	7.42	151.99	616.5	-14.1	7.5	3.00	3.00	0.00	151.99	
8,494.1	7.42	151.99	8,427.5	-911.7	485.0	0.00	0.00	0.00	0.00	
8,741.3	0.00	0.00	8,674.0	-925.8	492.5	3.00	-3.00	0.00	180.00	12A-18 - OHCR
8,821.7	1.21	250.02	8,754.4	-926.1	491.7	1.50	1.50	-136.81	250.02	
13,533.3	1.21	250.02	13,465.0	-960.0	398.5	0.00	0.00	0.00	0.00	12A-18 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 12A-18 495 - Slot 12A-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 12A-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
Build 3° / 100'									
370.0	0.00	0.00	370.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.90	151.99	400.0	-0.2	0.1	0.2	3.00	3.00	0.00
500.0	3.90	151.99	499.9	-3.9	2.1	4.4	3.00	3.00	0.00
600.0	6.90	151.99	599.4	-12.2	6.5	13.8	3.00	3.00	0.00
EOB @ 7.42° Inc. / 151.99° Azm									
617.2	7.42	151.99	616.5	-14.1	7.5	15.9	3.00	3.00	0.00
700.0	7.42	151.99	698.6	-23.5	12.5	26.5	0.00	0.00	0.00
800.0	7.42	151.99	797.8	-34.9	18.6	39.4	0.00	0.00	0.00
900.0	7.42	151.99	896.9	-46.3	24.6	52.2	0.00	0.00	0.00
1,000.0	7.42	151.99	996.1	-57.7	30.7	65.1	0.00	0.00	0.00
1,100.0	7.42	151.99	1,095.3	-69.1	36.8	77.9	0.00	0.00	0.00
1,200.0	7.42	151.99	1,194.4	-80.5	42.8	90.8	0.00	0.00	0.00
1,300.0	7.42	151.99	1,293.6	-91.9	48.9	103.6	0.00	0.00	0.00
1,400.0	7.42	151.99	1,392.8	-103.3	55.0	116.5	0.00	0.00	0.00
1,500.0	7.42	151.99	1,491.9	-114.7	61.0	129.3	0.00	0.00	0.00
1,600.0	7.42	151.99	1,591.1	-126.1	67.1	142.2	0.00	0.00	0.00
1,700.0	7.42	151.99	1,690.3	-137.5	73.1	155.0	0.00	0.00	0.00
1,800.0	7.42	151.99	1,789.4	-148.9	79.2	167.9	0.00	0.00	0.00
1,900.0	7.42	151.99	1,888.6	-160.3	85.3	180.7	0.00	0.00	0.00
2,000.0	7.42	151.99	1,987.7	-171.7	91.3	193.6	0.00	0.00	0.00
2,100.0	7.42	151.99	2,086.9	-183.1	97.4	206.4	0.00	0.00	0.00
2,200.0	7.42	151.99	2,186.1	-194.5	103.4	219.3	0.00	0.00	0.00
2,300.0	7.42	151.99	2,285.2	-205.9	109.5	232.1	0.00	0.00	0.00
2,400.0	7.42	151.99	2,384.4	-217.3	115.6	245.0	0.00	0.00	0.00
2,500.0	7.42	151.99	2,483.6	-228.7	121.6	257.8	0.00	0.00	0.00
2,600.0	7.42	151.99	2,582.7	-240.1	127.7	270.7	0.00	0.00	0.00
2,700.0	7.42	151.99	2,681.9	-251.5	133.8	283.5	0.00	0.00	0.00
2,800.0	7.42	151.99	2,781.1	-262.9	139.8	296.4	0.00	0.00	0.00
Wasatch									
2,819.1	7.42	151.99	2,800.0	-265.0	141.0	298.8	0.00	0.00	0.00
2,900.0	7.42	151.99	2,880.2	-274.2	145.9	309.2	0.00	0.00	0.00
3,000.0	7.42	151.99	2,979.4	-285.6	151.9	322.1	0.00	0.00	0.00
3,100.0	7.42	151.99	3,078.5	-297.0	158.0	334.9	0.00	0.00	0.00
3,200.0	7.42	151.99	3,177.7	-308.4	164.1	347.8	0.00	0.00	0.00
3,300.0	7.42	151.99	3,276.9	-319.8	170.1	360.6	0.00	0.00	0.00
3,400.0	7.42	151.99	3,376.0	-331.2	176.2	373.5	0.00	0.00	0.00
3,500.0	7.42	151.99	3,475.2	-342.6	182.3	386.3	0.00	0.00	0.00
3,600.0	7.42	151.99	3,574.4	-354.0	188.3	399.2	0.00	0.00	0.00
3,700.0	7.42	151.99	3,673.5	-365.4	194.4	412.0	0.00	0.00	0.00
3,800.0	7.42	151.99	3,772.7	-376.8	200.4	424.9	0.00	0.00	0.00
3,900.0	7.42	151.99	3,871.8	-388.2	206.5	437.7	0.00	0.00	0.00
4,000.0	7.42	151.99	3,971.0	-399.6	212.6	450.6	0.00	0.00	0.00
4,100.0	7.42	151.99	4,070.2	-411.0	218.6	463.4	0.00	0.00	0.00
4,200.0	7.42	151.99	4,169.3	-422.4	224.7	476.3	0.00	0.00	0.00
4,300.0	7.42	151.99	4,268.5	-433.8	230.7	489.1	0.00	0.00	0.00
4,400.0	7.42	151.99	4,367.7	-445.2	236.8	502.0	0.00	0.00	0.00
4,500.0	7.42	151.99	4,466.8	-456.6	242.9	514.8	0.00	0.00	0.00
4,600.0	7.42	151.99	4,566.0	-468.0	248.9	527.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 12A-18 495 - Slot 12A-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 12A-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	7.42	151.99	4,665.2	-479.4	255.0	540.5	0.00	0.00	0.00
4,800.0	7.42	151.99	4,764.3	-490.8	261.1	553.4	0.00	0.00	0.00
4,900.0	7.42	151.99	4,863.5	-502.2	267.1	566.2	0.00	0.00	0.00
5,000.0	7.42	151.99	4,962.6	-513.6	273.2	579.1	0.00	0.00	0.00
5,100.0	7.42	151.99	5,061.8	-525.0	279.2	591.9	0.00	0.00	0.00
5,200.0	7.42	151.99	5,161.0	-536.4	285.3	604.7	0.00	0.00	0.00
5,300.0	7.42	151.99	5,260.1	-547.7	291.4	617.6	0.00	0.00	0.00
5,400.0	7.42	151.99	5,359.3	-559.1	297.4	630.4	0.00	0.00	0.00
5,500.0	7.42	151.99	5,458.5	-570.5	303.5	643.3	0.00	0.00	0.00
5,600.0	7.42	151.99	5,557.6	-581.9	309.5	656.1	0.00	0.00	0.00
5,700.0	7.42	151.99	5,656.8	-593.3	315.6	669.0	0.00	0.00	0.00
5,800.0	7.42	151.99	5,756.0	-604.7	321.7	681.8	0.00	0.00	0.00
5,900.0	7.42	151.99	5,855.1	-616.1	327.7	694.7	0.00	0.00	0.00
6,000.0	7.42	151.99	5,954.3	-627.5	333.8	707.5	0.00	0.00	0.00
6,100.0	7.42	151.99	6,053.4	-638.9	339.9	720.4	0.00	0.00	0.00
6,200.0	7.42	151.99	6,152.6	-650.3	345.9	733.2	0.00	0.00	0.00
6,300.0	7.42	151.99	6,251.8	-661.7	352.0	746.1	0.00	0.00	0.00
6,400.0	7.42	151.99	6,350.9	-673.1	358.0	758.9	0.00	0.00	0.00
6,500.0	7.42	151.99	6,450.1	-684.5	364.1	771.8	0.00	0.00	0.00
Wasatch G									
6,555.4	7.42	151.99	6,505.0	-690.8	367.5	778.9	0.00	0.00	0.00
6,600.0	7.42	151.99	6,549.3	-695.9	370.2	784.6	0.00	0.00	0.00
6,700.0	7.42	151.99	6,648.4	-707.3	376.2	797.5	0.00	0.00	0.00
6,800.0	7.42	151.99	6,747.6	-718.7	382.3	810.3	0.00	0.00	0.00
Fort Union									
6,857.9	7.42	151.99	6,805.0	-725.3	385.8	817.8	0.00	0.00	0.00
6,900.0	7.42	151.99	6,846.8	-730.1	388.4	823.2	0.00	0.00	0.00
7,000.0	7.42	151.99	6,945.9	-741.5	394.4	836.0	0.00	0.00	0.00
7,100.0	7.42	151.99	7,045.1	-752.9	400.5	848.9	0.00	0.00	0.00
7,200.0	7.42	151.99	7,144.2	-764.3	406.5	861.7	0.00	0.00	0.00
7,300.0	7.42	151.99	7,243.4	-775.7	412.6	874.6	0.00	0.00	0.00
7,400.0	7.42	151.99	7,342.6	-787.1	418.7	887.4	0.00	0.00	0.00
7,500.0	7.42	151.99	7,441.7	-798.5	424.7	900.3	0.00	0.00	0.00
7,600.0	7.42	151.99	7,540.9	-809.9	430.8	913.1	0.00	0.00	0.00
7,700.0	7.42	151.99	7,640.1	-821.2	436.8	926.0	0.00	0.00	0.00
7,800.0	7.42	151.99	7,739.2	-832.6	442.9	938.8	0.00	0.00	0.00
7,900.0	7.42	151.99	7,838.4	-844.0	449.0	951.7	0.00	0.00	0.00
8,000.0	7.42	151.99	7,937.5	-855.4	455.0	964.5	0.00	0.00	0.00
8,100.0	7.42	151.99	8,036.7	-866.8	461.1	977.4	0.00	0.00	0.00
8,200.0	7.42	151.99	8,135.9	-878.2	467.2	990.2	0.00	0.00	0.00
8,300.0	7.42	151.99	8,235.0	-889.6	473.2	1,003.1	0.00	0.00	0.00
8,400.0	7.42	151.99	8,334.2	-901.0	479.3	1,015.9	0.00	0.00	0.00
Drop 3° /100'									
8,494.1	7.42	151.99	8,427.5	-911.7	485.0	1,028.0	0.00	0.00	0.00
8,500.0	7.24	151.99	8,433.4	-912.4	485.3	1,028.8	3.00	-3.00	0.00
8,600.0	4.24	151.99	8,532.9	-921.2	490.0	1,038.7	3.00	-3.00	0.00
8,700.0	1.24	151.99	8,632.7	-925.5	492.3	1,043.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG									
8,741.3	0.00	0.00	8,674.0	-925.8	492.5	1,043.9	3.00	-3.00	0.00
8,800.0	0.88	250.02	8,732.7	-926.0	492.1	1,043.9	1.50	1.50	0.00
EOB @ 1.21° Inc. / 250.02° Azm									
8,821.7	1.21	250.02	8,754.4	-926.1	491.7	1,043.9	1.50	1.50	0.00
8,900.0	1.21	250.02	8,832.7	-926.7	490.1	1,043.8	0.00	0.00	0.00
9,000.0	1.21	250.02	8,932.7	-927.4	488.2	1,043.7	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8059.0usft (30')
Site:	ELU A18 495 Pad	North Reference:	True
Well:	ELU A18 FED 12A-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	1.21	250.02	9,032.7	-928.1	486.2	1,043.6	0.00	0.00	0.00
9,200.0	1.21	250.02	9,132.6	-928.9	484.2	1,043.5	0.00	0.00	0.00
9,300.0	1.21	250.02	9,232.6	-929.6	482.2	1,043.4	0.00	0.00	0.00
Williams Fork									
9,321.4	1.21	250.02	9,254.0	-929.7	481.8	1,043.4	0.00	0.00	0.00
9,400.0	1.21	250.02	9,332.6	-930.3	480.3	1,043.3	0.00	0.00	0.00
9,500.0	1.21	250.02	9,432.6	-931.0	478.3	1,043.2	0.00	0.00	0.00
9,600.0	1.21	250.02	9,532.5	-931.7	476.3	1,043.1	0.00	0.00	0.00
9,700.0	1.21	250.02	9,632.5	-932.4	474.3	1,043.0	0.00	0.00	0.00
9,800.0	1.21	250.02	9,732.5	-933.2	472.3	1,043.0	0.00	0.00	0.00
9,900.0	1.21	250.02	9,832.5	-933.9	470.4	1,042.9	0.00	0.00	0.00
10,000.0	1.21	250.02	9,932.5	-934.6	468.4	1,042.8	0.00	0.00	0.00
10,100.0	1.21	250.02	10,032.4	-935.3	466.4	1,042.7	0.00	0.00	0.00
10,200.0	1.21	250.02	10,132.4	-936.0	464.4	1,042.6	0.00	0.00	0.00
10,300.0	1.21	250.02	10,232.4	-936.8	462.5	1,042.5	0.00	0.00	0.00
10,400.0	1.21	250.02	10,332.4	-937.5	460.5	1,042.4	0.00	0.00	0.00
10,500.0	1.21	250.02	10,432.3	-938.2	458.5	1,042.3	0.00	0.00	0.00
10,600.0	1.21	250.02	10,532.3	-938.9	456.5	1,042.2	0.00	0.00	0.00
10,700.0	1.21	250.02	10,632.3	-939.6	454.5	1,042.1	0.00	0.00	0.00
10,800.0	1.21	250.02	10,732.3	-940.4	452.6	1,042.0	0.00	0.00	0.00
10,900.0	1.21	250.02	10,832.3	-941.1	450.6	1,041.9	0.00	0.00	0.00
11,000.0	1.21	250.02	10,932.2	-941.8	448.6	1,041.8	0.00	0.00	0.00
11,100.0	1.21	250.02	11,032.2	-942.5	446.6	1,041.7	0.00	0.00	0.00
11,200.0	1.21	250.02	11,132.2	-943.2	444.7	1,041.6	0.00	0.00	0.00
11,300.0	1.21	250.02	11,232.2	-944.0	442.7	1,041.5	0.00	0.00	0.00
11,400.0	1.21	250.02	11,332.1	-944.7	440.7	1,041.4	0.00	0.00	0.00
11,500.0	1.21	250.02	11,432.1	-945.4	438.7	1,041.4	0.00	0.00	0.00
11,600.0	1.21	250.02	11,532.1	-946.1	436.7	1,041.3	0.00	0.00	0.00
11,700.0	1.21	250.02	11,632.1	-946.8	434.8	1,041.2	0.00	0.00	0.00
11,800.0	1.21	250.02	11,732.1	-947.6	432.8	1,041.1	0.00	0.00	0.00
11,900.0	1.21	250.02	11,832.0	-948.3	430.8	1,041.0	0.00	0.00	0.00
12,000.0	1.21	250.02	11,932.0	-949.0	428.8	1,040.9	0.00	0.00	0.00
12,100.0	1.21	250.02	12,032.0	-949.7	426.9	1,040.8	0.00	0.00	0.00
12,200.0	1.21	250.02	12,132.0	-950.4	424.9	1,040.7	0.00	0.00	0.00
12,300.0	1.21	250.02	12,232.0	-951.1	422.9	1,040.6	0.00	0.00	0.00
12,400.0	1.21	250.02	12,331.9	-951.9	420.9	1,040.5	0.00	0.00	0.00
Cameo									
12,483.1	1.21	250.02	12,415.0	-952.5	419.3	1,040.4	0.00	0.00	0.00
12,500.0	1.21	250.02	12,431.9	-952.6	418.9	1,040.4	0.00	0.00	0.00
12,600.0	1.21	250.02	12,531.9	-953.3	417.0	1,040.3	0.00	0.00	0.00
12,700.0	1.21	250.02	12,631.9	-954.0	415.0	1,040.2	0.00	0.00	0.00
12,800.0	1.21	250.02	12,731.8	-954.7	413.0	1,040.1	0.00	0.00	0.00
12,900.0	1.21	250.02	12,831.8	-955.5	411.0	1,040.0	0.00	0.00	0.00
13,000.0	1.21	250.02	12,931.8	-956.2	409.0	1,039.9	0.00	0.00	0.00
Rollins									
13,033.2	1.21	250.02	12,965.0	-956.4	408.4	1,039.9	0.00	0.00	0.00
13,100.0	1.21	250.02	13,031.8	-956.9	407.1	1,039.8	0.00	0.00	0.00
13,200.0	1.21	250.02	13,131.8	-957.6	405.1	1,039.8	0.00	0.00	0.00
13,300.0	1.21	250.02	13,231.7	-958.3	403.1	1,039.7	0.00	0.00	0.00
13,400.0	1.21	250.02	13,331.7	-959.1	401.1	1,039.6	0.00	0.00	0.00
13,500.0	1.21	250.02	13,431.7	-959.8	399.2	1,039.5	0.00	0.00	0.00
TD @ 13533.3' MD / 13465.0' TVD									
13,533.3	1.21	250.02	13,465.0	-960.0	398.5	1,039.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 12A-18 495 - Slot 12A-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 12A-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									
12A-18 - OHCR	0.00	0.00	8,674.0	-925.8	492.5	14,432,317.59	2,455,556.03	39.706412	-108.101997
- plan hits target center									
- Point									
12A-18 - PBHL	0.00	0.00	13,465.0	-960.0	398.5	14,432,280.40	2,455,463.20	39.706318	-108.102331
- 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 (°)
2,819.1	2,800.0	Wasatch			
6,555.4	6,505.0	Wasatch G			
6,857.9	6,805.0	Fort Union			
8,741.3	8,674.0	Ohio Creek / TOG			
9,321.4	9,254.0	Williams Fork			
12,483.1	12,415.0	Cameo			
13,033.2	12,965.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
370.0	370.0	0.0	0.0	Build 3° / 100'
617.2	616.5	-14.1	7.5	EOB @ 7.42° Inc. / 151.99° Azm
8,494.1	8,427.5	-911.7	485.0	Drop 3° / 100'
8,741.3	8,674.0	-925.8	492.5	EOD @ Vertical / Build 1.5° / 100'
8,821.7	8,754.4	-926.1	491.7	EOB @ 1.21° Inc. / 250.02° Azm
13,533.3	13,465.0	-960.0	398.5	TD @ 13533.3' MD / 13465.0' TVD