

Project: Rio Blanco County, CO
 Site: ELU A18 495 Pad
 Well: ELU A18 FED 13D-12 496
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.709087
 Longitude: -108.104228
 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-12(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8059.0usft (30')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
3508.0	3623.0	Fort Union
6583.0	6598.9	Wasatch G
6883.0	7218.5	Fort Union
8760.0	9188.9	Ohio Creek
9355.0	9784.0	Williams Fork
12294.0	12723.7	Cameo
13125.0	13554.9	Rollins

SECTION DETAILS

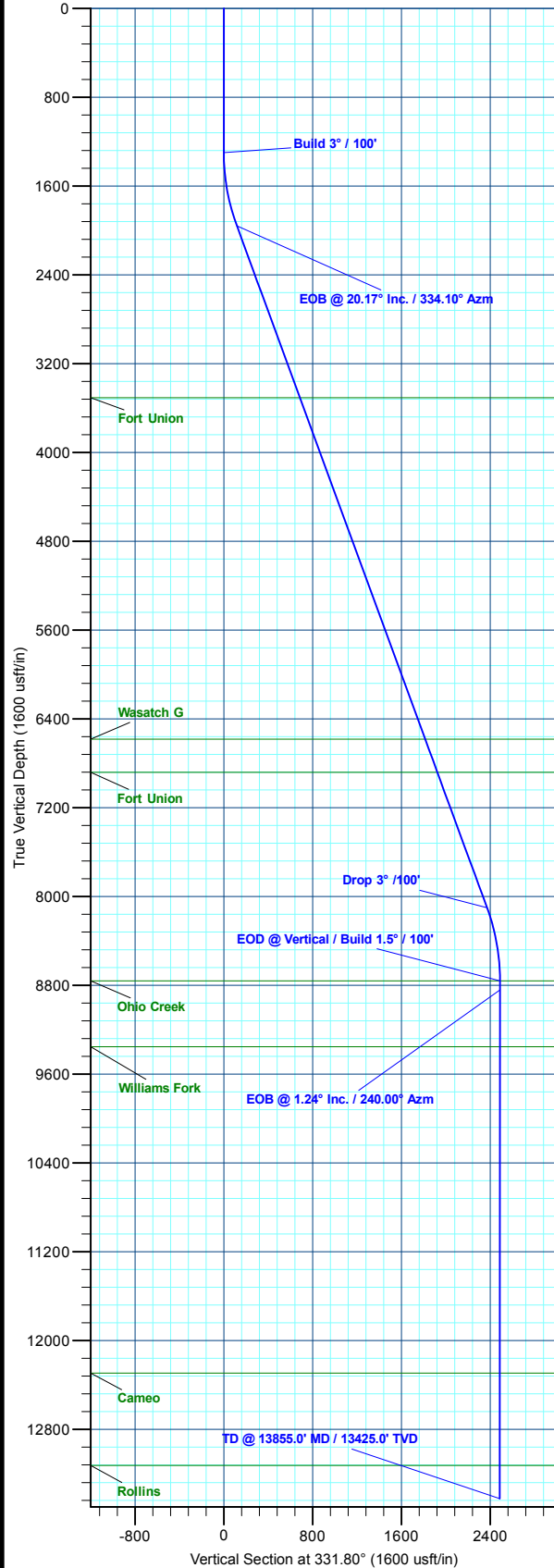
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1972.3	20.17	334.10	1958.5	105.3	-51.1	3.00	334.10	117.0	EOB @ 20.17° Inc. / 334.10° Azm
8516.6	20.17	334.10	8101.5	2135.1	-1036.6	0.00	0.00	2371.6	Drop 3° / 100'
9188.9	0.00	0.00	8760.0	2240.5	-1087.8	3.00	180.00	2488.6	EOB @ Vertical / Build 1.5° / 100'
9271.5	1.24	240.00	8842.6	2240.0	-1088.5	1.50	240.00	2488.5	EOB @ 1.24° Inc. / 240.00° Azm
13855.0	1.24	240.00	13425.0	2190.5	-1174.4	0.00	0.00	2485.4	TD @ 13855.0' MD / 13425.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
13D-18 - OHCR	8760.0	2240.5	-1087.8	14435475.87	2453737.44	39.715235	-108.108093
13D-18 - PBHL	13425.0	2190.5	-1174.4	14435423.10	2453652.50	39.715098	-108.108401

WELL DETAILS: ELU A18 FED 13D-12 496

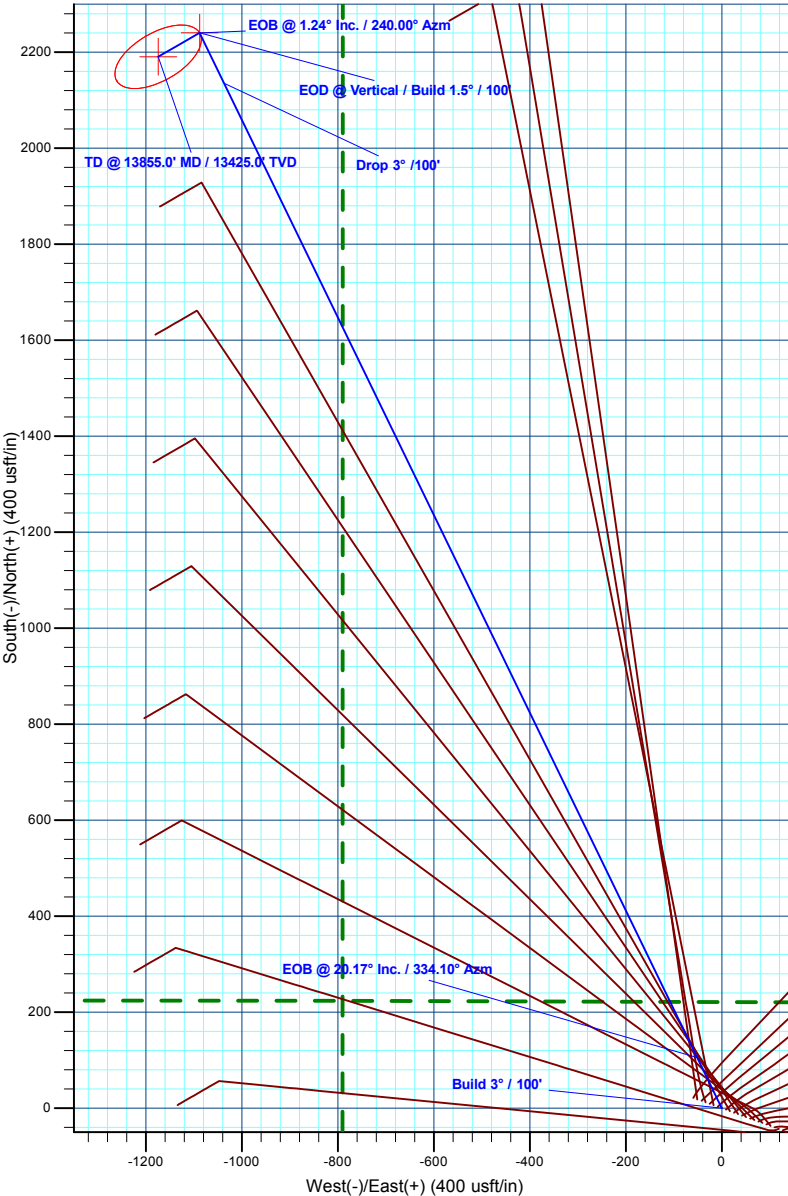
+N/-S	+E/-W	Ground Level : 8029.0	Latitude	Longitude
0.0	0.0	14433271.70	2454897.00	39.709087



CAERUS OIL AND GAS LLC

KLX Directional Drilling

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-12 496/Wellbore #1)

Created By: Will Jircik Date: 10:23, October 05 2023



Caerus Oil & Gas

Rio Blanco County, CO

ELU A18 495 Pad

ELU A18 FED 13D-12 496 - Slot 13D-12

Wellbore #1

Plan: Design #2

KLX Well Planning Report

18 October, 2023



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-12 496 - Slot 13D-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 13D-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 Feet)	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-12 496 - Slot 13D-12					
Well Position	+N/-S	-7.9 usft	Northing:	14,433,271.70 usft	Latitude:	39.709087
	+E/-W	-7.7 usft	Easting:	2,454,897.00 usft	Longitude:	-108.104228
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	331.80

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,972.3	20.17	334.10	1,958.5	105.3	-51.1	3.00	3.00	0.00	334.10	
8,516.6	20.17	334.10	8,101.5	2,135.1	-1,036.6	0.00	0.00	0.00	0.00	
9,188.9	0.00	0.00	8,760.0	2,240.5	-1,087.8	3.00	-3.00	0.00	180.00	13D-18 - OHCR
9,271.5	1.24	240.00	8,842.6	2,240.0	-1,088.5	1.50	1.50	-145.28	240.00	
13,855.0	1.24	240.00	13,425.0	2,190.5	-1,174.4	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-12 496 - Slot 13D-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 13D-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
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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 3° / 100'									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	3.00	334.10	1,400.0	2.4	-1.1	2.6	3.00	3.00	0.00
1,500.0	6.00	334.10	1,499.6	9.4	-4.6	10.5	3.00	3.00	0.00
1,600.0	9.00	334.10	1,598.8	21.2	-10.3	23.5	3.00	3.00	0.00
1,700.0	12.00	334.10	1,697.1	37.5	-18.2	41.7	3.00	3.00	0.00
1,800.0	15.00	334.10	1,794.3	58.5	-28.4	65.0	3.00	3.00	0.00
1,900.0	18.00	334.10	1,890.2	84.1	-40.8	93.4	3.00	3.00	0.00
EOB @ 20.17° Inc. / 334.10° Azm									
1,972.3	20.17	334.10	1,958.5	105.3	-51.1	117.0	3.00	3.00	0.00
2,000.0	20.17	334.10	1,984.5	113.9	-55.3	126.6	0.00	0.00	0.00
2,100.0	20.17	334.10	2,078.4	145.0	-70.4	161.0	0.00	0.00	0.00
2,200.0	20.17	334.10	2,172.2	176.0	-85.4	195.5	0.00	0.00	0.00
2,300.0	20.17	334.10	2,266.1	207.0	-100.5	229.9	0.00	0.00	0.00
2,400.0	20.17	334.10	2,360.0	238.0	-115.6	264.4	0.00	0.00	0.00
2,500.0	20.17	334.10	2,453.8	269.0	-130.6	298.8	0.00	0.00	0.00
2,600.0	20.17	334.10	2,547.7	300.0	-145.7	333.3	0.00	0.00	0.00
2,700.0	20.17	334.10	2,641.6	331.1	-160.7	367.7	0.00	0.00	0.00
2,800.0	20.17	334.10	2,735.4	362.1	-175.8	402.2	0.00	0.00	0.00
2,900.0	20.17	334.10	2,829.3	393.1	-190.8	436.6	0.00	0.00	0.00
3,000.0	20.17	334.10	2,923.2	424.1	-205.9	471.1	0.00	0.00	0.00
3,100.0	20.17	334.10	3,017.1	455.1	-221.0	505.5	0.00	0.00	0.00
3,200.0	20.17	334.10	3,110.9	486.1	-236.0	540.0	0.00	0.00	0.00
3,300.0	20.17	334.10	3,204.8	517.2	-251.1	574.4	0.00	0.00	0.00
3,400.0	20.17	334.10	3,298.7	548.2	-266.1	608.9	0.00	0.00	0.00
3,500.0	20.17	334.10	3,392.5	579.2	-281.2	643.3	0.00	0.00	0.00
3,600.0	20.17	334.10	3,486.4	610.2	-296.3	677.8	0.00	0.00	0.00
Wasatch									
3,623.0	20.17	334.10	3,508.0	617.3	-299.7	685.7	0.00	0.00	0.00
3,700.0	20.17	334.10	3,580.3	641.2	-311.3	712.2	0.00	0.00	0.00
3,800.0	20.17	334.10	3,674.1	672.2	-326.4	746.7	0.00	0.00	0.00
3,900.0	20.17	334.10	3,768.0	703.2	-341.4	781.1	0.00	0.00	0.00
4,000.0	20.17	334.10	3,861.9	734.3	-356.5	815.6	0.00	0.00	0.00
4,100.0	20.17	334.10	3,955.7	765.3	-371.5	850.0	0.00	0.00	0.00
4,200.0	20.17	334.10	4,049.6	796.3	-386.6	884.5	0.00	0.00	0.00
4,300.0	20.17	334.10	4,143.5	827.3	-401.7	918.9	0.00	0.00	0.00
4,400.0	20.17	334.10	4,237.3	858.3	-416.7	953.4	0.00	0.00	0.00
4,500.0	20.17	334.10	4,331.2	889.3	-431.8	987.8	0.00	0.00	0.00
4,600.0	20.17	334.10	4,425.1	920.4	-446.8	1,022.3	0.00	0.00	0.00
4,700.0	20.17	334.10	4,518.9	951.4	-461.9	1,056.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-12 496 - Slot 13D-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 13D-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)	
4,800.0	20.17	334.10	4,612.8	982.4	-477.0	1,091.2	0.00	0.00	0.00	
4,900.0	20.17	334.10	4,706.7	1,013.4	-492.0	1,125.6	0.00	0.00	0.00	
5,000.0	20.17	334.10	4,800.6	1,044.4	-507.1	1,160.1	0.00	0.00	0.00	
5,100.0	20.17	334.10	4,894.4	1,075.4	-522.1	1,194.5	0.00	0.00	0.00	
5,200.0	20.17	334.10	4,988.3	1,106.5	-537.2	1,229.0	0.00	0.00	0.00	
5,300.0	20.17	334.10	5,082.2	1,137.5	-552.2	1,263.4	0.00	0.00	0.00	
5,400.0	20.17	334.10	5,176.0	1,168.5	-567.3	1,297.9	0.00	0.00	0.00	
5,500.0	20.17	334.10	5,269.9	1,199.5	-582.4	1,332.3	0.00	0.00	0.00	
5,600.0	20.17	334.10	5,363.8	1,230.5	-597.4	1,366.8	0.00	0.00	0.00	
5,700.0	20.17	334.10	5,457.6	1,261.5	-612.5	1,401.2	0.00	0.00	0.00	
5,800.0	20.17	334.10	5,551.5	1,292.6	-627.5	1,435.7	0.00	0.00	0.00	
5,900.0	20.17	334.10	5,645.4	1,323.6	-642.6	1,470.1	0.00	0.00	0.00	
6,000.0	20.17	334.10	5,739.2	1,354.6	-657.7	1,504.6	0.00	0.00	0.00	
6,100.0	20.17	334.10	5,833.1	1,385.6	-672.7	1,539.0	0.00	0.00	0.00	
6,200.0	20.17	334.10	5,927.0	1,416.6	-687.8	1,573.5	0.00	0.00	0.00	
6,300.0	20.17	334.10	6,020.8	1,447.6	-702.8	1,607.9	0.00	0.00	0.00	
6,400.0	20.17	334.10	6,114.7	1,478.6	-717.9	1,642.4	0.00	0.00	0.00	
6,500.0	20.17	334.10	6,208.6	1,509.7	-732.9	1,676.8	0.00	0.00	0.00	
6,600.0	20.17	334.10	6,302.4	1,540.7	-748.0	1,711.3	0.00	0.00	0.00	
6,700.0	20.17	334.10	6,396.3	1,571.7	-763.1	1,745.7	0.00	0.00	0.00	
6,800.0	20.17	334.10	6,490.2	1,602.7	-778.1	1,780.2	0.00	0.00	0.00	
Wasatch G										
6,898.9	20.17	334.10	6,583.0	1,633.4	-793.0	1,814.2	0.00	0.00	0.00	
6,900.0	20.17	334.10	6,584.0	1,633.7	-793.2	1,814.6	0.00	0.00	0.00	
7,000.0	20.17	334.10	6,677.9	1,664.7	-808.2	1,849.1	0.00	0.00	0.00	
7,100.0	20.17	334.10	6,771.8	1,695.8	-823.3	1,883.5	0.00	0.00	0.00	
7,200.0	20.17	334.10	6,865.7	1,726.8	-838.3	1,918.0	0.00	0.00	0.00	
Fort Union										
7,218.5	20.17	334.10	6,883.0	1,732.5	-841.1	1,924.3	0.00	0.00	0.00	
7,300.0	20.17	334.10	6,959.5	1,757.8	-853.4	1,952.4	0.00	0.00	0.00	
7,400.0	20.17	334.10	7,053.4	1,788.8	-868.5	1,986.9	0.00	0.00	0.00	
7,500.0	20.17	334.10	7,147.3	1,819.8	-883.5	2,021.3	0.00	0.00	0.00	
7,600.0	20.17	334.10	7,241.1	1,850.8	-898.6	2,055.8	0.00	0.00	0.00	
7,700.0	20.17	334.10	7,335.0	1,881.9	-913.6	2,090.2	0.00	0.00	0.00	
7,800.0	20.17	334.10	7,428.9	1,912.9	-928.7	2,124.7	0.00	0.00	0.00	
7,900.0	20.17	334.10	7,522.7	1,943.9	-943.8	2,159.1	0.00	0.00	0.00	
8,000.0	20.17	334.10	7,616.6	1,974.9	-958.8	2,193.6	0.00	0.00	0.00	
8,100.0	20.17	334.10	7,710.5	2,005.9	-973.9	2,228.0	0.00	0.00	0.00	
8,200.0	20.17	334.10	7,804.3	2,036.9	-988.9	2,262.5	0.00	0.00	0.00	
8,300.0	20.17	334.10	7,898.2	2,068.0	-1,004.0	2,296.9	0.00	0.00	0.00	
8,400.0	20.17	334.10	7,992.1	2,099.0	-1,019.0	2,331.4	0.00	0.00	0.00	
8,500.0	20.17	334.10	8,085.9	2,130.0	-1,034.1	2,365.8	0.00	0.00	0.00	
Drop 3° / 100'										
8,516.6	20.17	334.10	8,101.5	2,135.1	-1,036.6	2,371.6	0.00	0.00	0.00	
8,600.0	17.67	334.10	8,180.4	2,159.5	-1,048.4	2,398.6	3.00	-3.00	0.00	
8,700.0	14.67	334.10	8,276.4	2,184.5	-1,060.6	2,426.4	3.00	-3.00	0.00	
8,800.0	11.67	334.10	8,373.8	2,205.0	-1,070.5	2,449.1	3.00	-3.00	0.00	
8,900.0	8.67	334.10	8,472.2	2,220.9	-1,078.2	2,466.8	3.00	-3.00	0.00	
9,000.0	5.67	334.10	8,571.4	2,232.1	-1,083.7	2,479.2	3.00	-3.00	0.00	
9,100.0	2.67	334.10	8,671.2	2,238.6	-1,086.8	2,486.5	3.00	-3.00	0.00	
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek										
9,188.9	0.00	0.00	8,760.0	2,240.5	-1,087.8	2,488.6	3.00	-3.00	0.00	
9,200.0	0.17	240.00	8,771.1	2,240.5	-1,087.8	2,488.6	1.50	1.50	0.00	
EOB @ 1.24° Inc. / 240.00° Azm										

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-12 496 - Slot 13D-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 13D-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)	
9,271.5	1.24	240.00	8,842.6	2,240.0	-1,088.5	2,488.5	1.50	1.50	0.00	
9,300.0	1.24	240.00	8,871.1	2,239.7	-1,089.1	2,488.5	0.00	0.00	0.00	
9,400.0	1.24	240.00	8,971.1	2,238.6	-1,090.9	2,488.4	0.00	0.00	0.00	
9,500.0	1.24	240.00	9,071.1	2,237.6	-1,092.8	2,488.4	0.00	0.00	0.00	
9,600.0	1.24	240.00	9,171.0	2,236.5	-1,094.7	2,488.3	0.00	0.00	0.00	
9,700.0	1.24	240.00	9,271.0	2,235.4	-1,096.5	2,488.2	0.00	0.00	0.00	
Williams Fork										
9,784.0	1.24	240.00	9,355.0	2,234.5	-1,098.1	2,488.2	0.00	0.00	0.00	
9,800.0	1.24	240.00	9,371.0	2,234.3	-1,098.4	2,488.2	0.00	0.00	0.00	
9,900.0	1.24	240.00	9,471.0	2,233.2	-1,100.3	2,488.1	0.00	0.00	0.00	
10,000.0	1.24	240.00	9,571.0	2,232.2	-1,102.2	2,488.0	0.00	0.00	0.00	
10,100.0	1.24	240.00	9,670.9	2,231.1	-1,104.0	2,488.0	0.00	0.00	0.00	
10,200.0	1.24	240.00	9,770.9	2,230.0	-1,105.9	2,487.9	0.00	0.00	0.00	
10,300.0	1.24	240.00	9,870.9	2,228.9	-1,107.8	2,487.8	0.00	0.00	0.00	
10,400.0	1.24	240.00	9,970.9	2,227.8	-1,109.7	2,487.8	0.00	0.00	0.00	
10,500.0	1.24	240.00	10,070.8	2,226.7	-1,111.5	2,487.7	0.00	0.00	0.00	
10,600.0	1.24	240.00	10,170.8	2,225.7	-1,113.4	2,487.6	0.00	0.00	0.00	
10,700.0	1.24	240.00	10,270.8	2,224.6	-1,115.3	2,487.6	0.00	0.00	0.00	
10,800.0	1.24	240.00	10,370.8	2,223.5	-1,117.1	2,487.5	0.00	0.00	0.00	
10,900.0	1.24	240.00	10,470.7	2,222.4	-1,119.0	2,487.4	0.00	0.00	0.00	
11,000.0	1.24	240.00	10,570.7	2,221.3	-1,120.9	2,487.4	0.00	0.00	0.00	
11,100.0	1.24	240.00	10,670.7	2,220.3	-1,122.8	2,487.3	0.00	0.00	0.00	
11,200.0	1.24	240.00	10,770.7	2,219.2	-1,124.6	2,487.2	0.00	0.00	0.00	
11,300.0	1.24	240.00	10,870.6	2,218.1	-1,126.5	2,487.2	0.00	0.00	0.00	
11,400.0	1.24	240.00	10,970.6	2,217.0	-1,128.4	2,487.1	0.00	0.00	0.00	
11,500.0	1.24	240.00	11,070.6	2,215.9	-1,130.3	2,487.0	0.00	0.00	0.00	
11,600.0	1.24	240.00	11,170.6	2,214.9	-1,132.1	2,487.0	0.00	0.00	0.00	
11,700.0	1.24	240.00	11,270.6	2,213.8	-1,134.0	2,486.9	0.00	0.00	0.00	
11,800.0	1.24	240.00	11,370.5	2,212.7	-1,135.9	2,486.8	0.00	0.00	0.00	
11,900.0	1.24	240.00	11,470.5	2,211.6	-1,137.7	2,486.7	0.00	0.00	0.00	
12,000.0	1.24	240.00	11,570.5	2,210.5	-1,139.6	2,486.7	0.00	0.00	0.00	
12,100.0	1.24	240.00	11,670.5	2,209.5	-1,141.5	2,486.6	0.00	0.00	0.00	
12,200.0	1.24	240.00	11,770.4	2,208.4	-1,143.4	2,486.5	0.00	0.00	0.00	
12,300.0	1.24	240.00	11,870.4	2,207.3	-1,145.2	2,486.5	0.00	0.00	0.00	
12,400.0	1.24	240.00	11,970.4	2,206.2	-1,147.1	2,486.4	0.00	0.00	0.00	
12,500.0	1.24	240.00	12,070.4	2,205.1	-1,149.0	2,486.3	0.00	0.00	0.00	
12,600.0	1.24	240.00	12,170.3	2,204.0	-1,150.9	2,486.3	0.00	0.00	0.00	
12,700.0	1.24	240.00	12,270.3	2,203.0	-1,152.7	2,486.2	0.00	0.00	0.00	
Cameo										
12,723.7	1.24	240.00	12,294.0	2,202.7	-1,153.2	2,486.2	0.00	0.00	0.00	
12,800.0	1.24	240.00	12,370.3	2,201.9	-1,154.6	2,486.1	0.00	0.00	0.00	
12,900.0	1.24	240.00	12,470.3	2,200.8	-1,156.5	2,486.1	0.00	0.00	0.00	
13,000.0	1.24	240.00	12,570.2	2,199.7	-1,158.3	2,486.0	0.00	0.00	0.00	
13,100.0	1.24	240.00	12,670.2	2,198.6	-1,160.2	2,485.9	0.00	0.00	0.00	
13,200.0	1.24	240.00	12,770.2	2,197.6	-1,162.1	2,485.9	0.00	0.00	0.00	
13,300.0	1.24	240.00	12,870.2	2,196.5	-1,164.0	2,485.8	0.00	0.00	0.00	
13,400.0	1.24	240.00	12,970.2	2,195.4	-1,165.8	2,485.7	0.00	0.00	0.00	
13,500.0	1.24	240.00	13,070.1	2,194.3	-1,167.7	2,485.7	0.00	0.00	0.00	
Rollins										
13,554.9	1.24	240.00	13,125.0	2,193.7	-1,168.7	2,485.6	0.00	0.00	0.00	
13,600.0	1.24	240.00	13,170.1	2,193.2	-1,169.6	2,485.6	0.00	0.00	0.00	
13,700.0	1.24	240.00	13,270.1	2,192.2	-1,171.5	2,485.5	0.00	0.00	0.00	
13,800.0	1.24	240.00	13,370.1	2,191.1	-1,173.3	2,485.5	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU A18 FED 13D-12 496 - Slot 13D-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 13D-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)
TD @ 13855.0' MD / 13425.0' TVD									
13,855.0	1.24	240.00	13,425.0	2,190.5	-1,174.4	2,485.4	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 - plan hits target center - Point	0.00	0.00	8,760.0	2,240.5	-1,087.8	14,435,475.87	2,453,737.45	39.715236	-108.108093
13D-18 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 240.00 azi)	0.00	0.00	13,425.0	2,190.5	-1,174.4	14,435,423.10	2,453,652.50	39.715098	-108.108401

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,623.0	3,508.0	Wasatch				
6,898.9	6,583.0	Wasatch G				
7,218.5	6,883.0	Fort Union				
9,188.9	8,760.0	Ohio Creek				
9,784.0	9,355.0	Williams Fork				
12,723.7	12,294.0	Cameo				
13,554.9	13,125.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,300.0	1,300.0	0.0	0.0	Build 3° / 100'	
1,972.3	1,958.5	105.3	-51.1	EOB @ 20.17° Inc. / 334.10° Azm	
8,516.6	8,101.5	2,135.1	-1,036.6	Drop 3° / 100'	
9,188.9	8,760.0	2,240.5	-1,087.8	EOD @ Vertical / Build 1.5° / 100'	
9,271.5	8,842.6	2,240.0	-1,088.5	EOB @ 1.24° Inc. / 240.00° Azm	
13,855.0	13,425.0	2,190.5	-1,174.4	TD @ 13855.0' MD / 13425.0' TVD	