

Project: Rio Blanco County, CO
 Site: ELU O13 496 Pad
 Well: ELU O13 FED 13A-13 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.698708
 Longitude: -108.114794
 Ground Level: 8118.0
 RKB @ 8143.0usft (25')

PROJECT DETAILS: Rio Blanco County, CO

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1886
 Zone: Zone 12N (114 W to 108 W)
 System Datum: Mean Sea Level

REFERENCE INFORMATION

Vertical (TVD) Reference: RKB @ 8143.0usft (25')
 Section (VS) Reference: Slot - 13A-13(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8143.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4017.0	4135.8	Wasatch
6417.0	6625.6	Wasatch G
6717.0	6936.9	Fort Union
8560.0	8836.0	Ohio Creek
9143.0	9419.2	Williams Fork
11976.0	12252.9	Cameo
12396.0	12673.1	Rollins

SECTION DETAILS

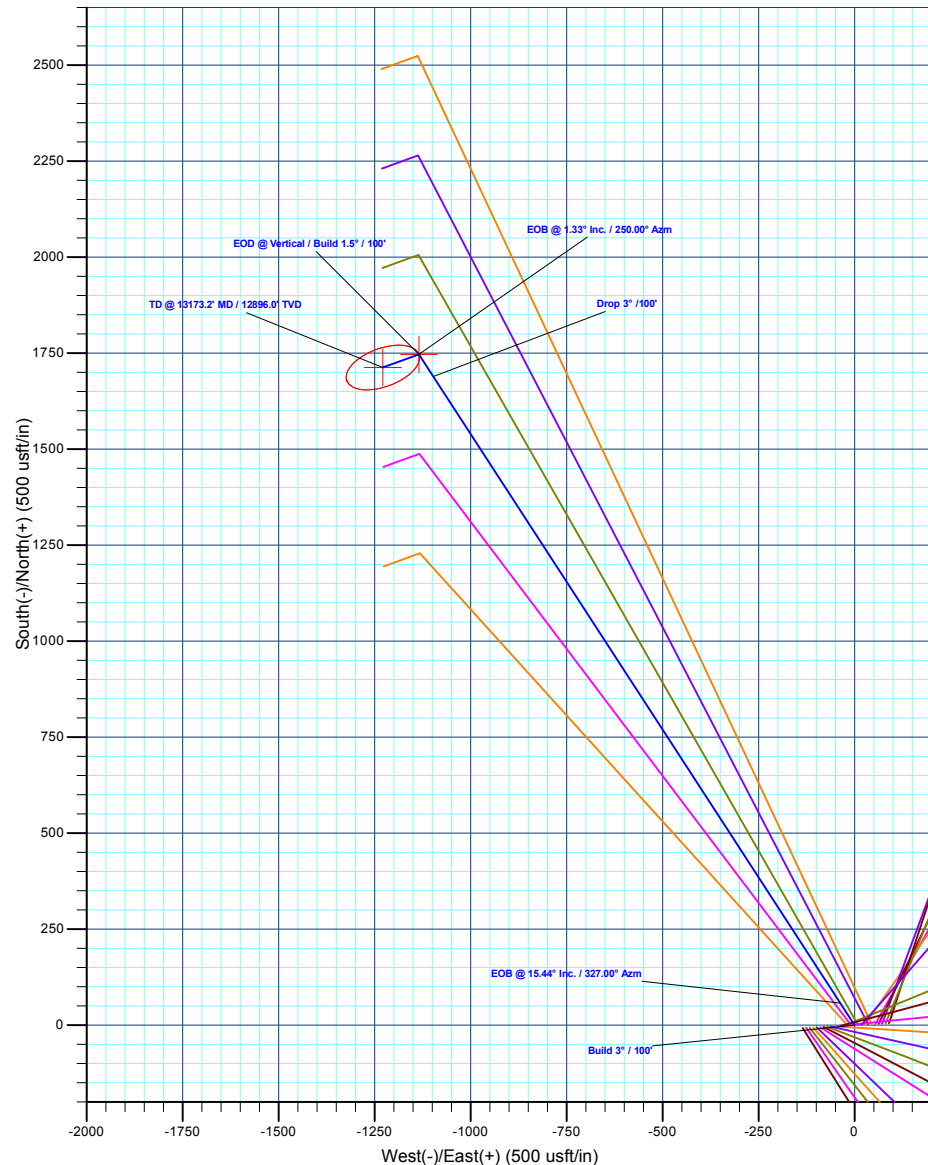
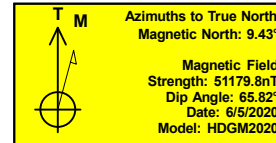
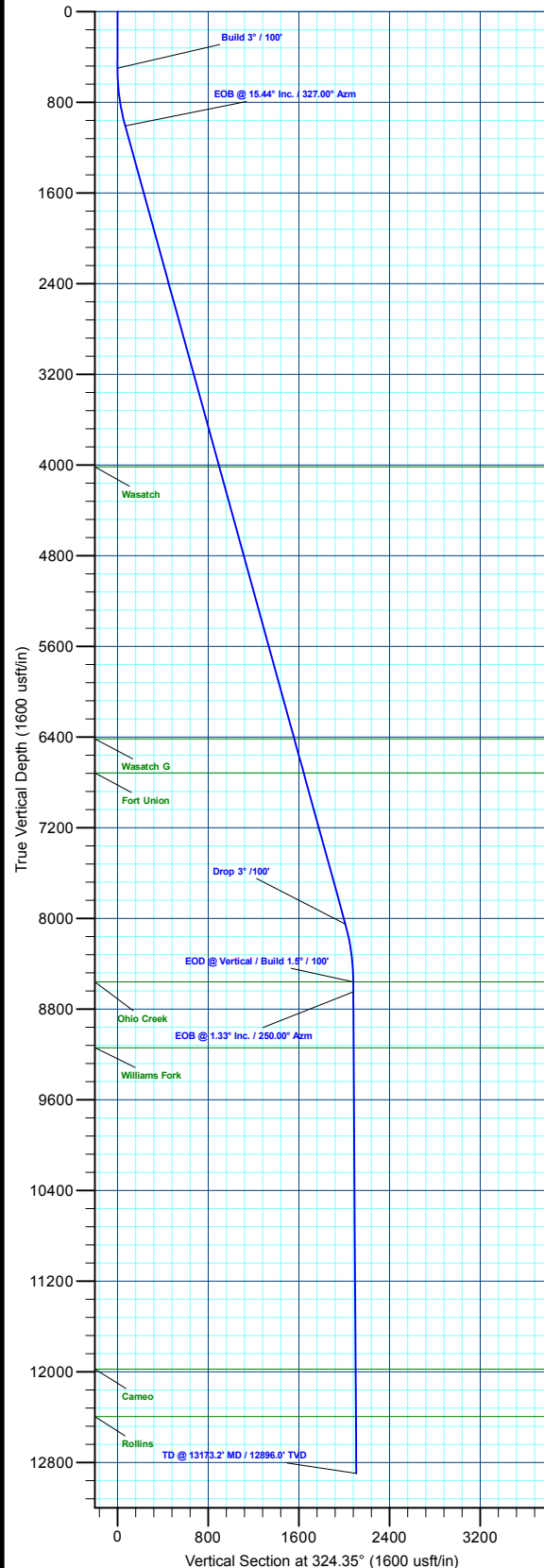
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1014.6	15.44	327.00	1008.4	57.8	-37.5	3.00	327.00	68.8	EOB @ 15.44° Inc. / 327.00° Azm
8321.4	15.44	327.00	8051.6	1689.0	-1096.8	0.00	0.00	2011.8	Drop 3° / 100'
8836.0	0.00	0.00	8560.0	1746.8	-1134.4	3.00	180.00	2080.6	EOD @ Vertical / Build 1.5° / 100'
8925.0	1.33	250.00	8649.0	1746.5	-1135.3	1.50	250.00	2080.9	EOB @ 1.33° Inc. / 250.00° Azm
13173.2	1.33	250.00	12896.0	1712.6	-1228.3	0.00	0.00	2107.6	TD @ 13173.2' MD / 12896.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 13A-13	8560.0	1746.8	-1134.4	14431105.21	2450856.42	39.703502	-108.118824
PBHL - 13A-13	12896.0	1712.6	-1228.3	14431068.00	2450763.60	39.703408	-108.119158

WELL DETAILS: ELU O13 FED 13A-13 496

+N/-S	+E/-W	Ground Level : 8118.0	Northing	Easting	Latitude	Longitude
0.0	0.0		14429395.80	2452046.40	39.698708	-108.114794



Plan: Design #3 (ELU O13 FED 13A-13 496/Wellbore #1)

Created By: Will Jircik Date: 13:33, November 15 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 13A-13 496 - Slot 13A-13

Wellbore #1

Plan: Design #3

KLX Well Planning Report

15 November, 2022



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 13A-13 496 - Slot 13A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 13A-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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 O13 496 Pad			
Site Position:		Northing:	14,429,398.00 usft	Latitude:	39.698712
From:	Map	Easting:	2,452,071.40 usft	Longitude:	-108.114705
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.84 °

Well	ELU O13 FED 13A-13 496 - Slot 13A-13					
Well Position	+N/-S	-1.4 usft	Northing:	14,429,395.80 usft	Latitude:	39.698708
	+E/-W	-25.1 usft	Easting:	2,452,046.40 usft	Longitude:	-108.114794
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	8,118.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	6/5/2020	9.43	65.82	51,179.80000000

Design	Design #3			
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	324.35

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,014.6	15.44	327.00	1,008.4	57.8	-37.5	3.00	3.00	0.00	327.00	
8,321.4	15.44	327.00	8,051.6	1,689.0	-1,096.8	0.00	0.00	0.00	0.00	
8,836.0	0.00	0.00	8,560.0	1,746.8	-1,134.4	3.00	-3.00	0.00	180.00	OHCR - 13A-13
8,925.0	1.33	250.00	8,649.0	1,746.5	-1,135.3	1.50	1.50	-123.61	250.00	
13,173.2	1.33	250.00	12,896.0	1,712.6	-1,228.3	0.00	0.00	0.00	0.00	PBHL - 13A-13

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 13A-13 496 - Slot 13A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 13A-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
Build 3° / 100'									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.00	327.00	600.0	2.2	-1.4	2.6	3.00	3.00	0.00
700.0	6.00	327.00	699.6	8.8	-5.7	10.5	3.00	3.00	0.00
800.0	9.00	327.00	798.8	19.7	-12.8	23.5	3.00	3.00	0.00
900.0	12.00	327.00	897.1	35.0	-22.7	41.7	3.00	3.00	0.00
1,000.0	15.00	327.00	994.3	54.6	-35.4	65.0	3.00	3.00	0.00
EOB @ 15.44° Inc. / 327.00° Azm									
1,014.6	15.44	327.00	1,008.4	57.8	-37.5	68.8	3.00	3.00	0.00
1,100.0	15.44	327.00	1,090.7	76.9	-49.9	91.5	0.00	0.00	0.00
1,200.0	15.44	327.00	1,187.1	99.2	-64.4	118.1	0.00	0.00	0.00
1,300.0	15.44	327.00	1,283.5	121.5	-78.9	144.7	0.00	0.00	0.00
1,400.0	15.44	327.00	1,379.9	143.8	-93.4	171.3	0.00	0.00	0.00
1,500.0	15.44	327.00	1,476.3	166.2	-107.9	197.9	0.00	0.00	0.00
1,600.0	15.44	327.00	1,572.7	188.5	-122.4	224.5	0.00	0.00	0.00
1,700.0	15.44	327.00	1,669.1	210.8	-136.9	251.1	0.00	0.00	0.00
1,800.0	15.44	327.00	1,765.5	233.1	-151.4	277.7	0.00	0.00	0.00
1,900.0	15.44	327.00	1,861.9	255.5	-165.9	304.3	0.00	0.00	0.00
2,000.0	15.44	327.00	1,958.2	277.8	-180.4	330.9	0.00	0.00	0.00
2,100.0	15.44	327.00	2,054.6	300.1	-194.9	357.4	0.00	0.00	0.00
2,200.0	15.44	327.00	2,151.0	322.4	-209.4	384.0	0.00	0.00	0.00
2,300.0	15.44	327.00	2,247.4	344.8	-223.9	410.6	0.00	0.00	0.00
2,400.0	15.44	327.00	2,343.8	367.1	-238.4	437.2	0.00	0.00	0.00
2,500.0	15.44	327.00	2,440.2	389.4	-252.9	463.8	0.00	0.00	0.00
2,600.0	15.44	327.00	2,536.6	411.7	-267.4	490.4	0.00	0.00	0.00
2,700.0	15.44	327.00	2,633.0	434.1	-281.9	517.0	0.00	0.00	0.00
2,800.0	15.44	327.00	2,729.4	456.4	-296.4	543.6	0.00	0.00	0.00
2,900.0	15.44	327.00	2,825.8	478.7	-310.9	570.2	0.00	0.00	0.00
3,000.0	15.44	327.00	2,922.2	501.0	-325.4	596.8	0.00	0.00	0.00
3,100.0	15.44	327.00	3,018.6	523.4	-339.9	623.4	0.00	0.00	0.00
3,200.0	15.44	327.00	3,114.9	545.7	-354.4	649.9	0.00	0.00	0.00
3,300.0	15.44	327.00	3,211.3	568.0	-368.9	676.5	0.00	0.00	0.00
3,400.0	15.44	327.00	3,307.7	590.3	-383.4	703.1	0.00	0.00	0.00
3,500.0	15.44	327.00	3,404.1	612.7	-397.8	729.7	0.00	0.00	0.00
3,600.0	15.44	327.00	3,500.5	635.0	-412.3	756.3	0.00	0.00	0.00
3,700.0	15.44	327.00	3,596.9	657.3	-426.8	782.9	0.00	0.00	0.00
3,800.0	15.44	327.00	3,693.3	679.6	-441.3	809.5	0.00	0.00	0.00
3,900.0	15.44	327.00	3,789.7	702.0	-455.8	836.1	0.00	0.00	0.00
4,000.0	15.44	327.00	3,886.1	724.3	-470.3	862.7	0.00	0.00	0.00
4,100.0	15.44	327.00	3,982.5	746.6	-484.8	889.3	0.00	0.00	0.00
Wasatch									
4,135.8	15.44	327.00	4,017.0	754.6	-490.0	898.8	0.00	0.00	0.00
4,200.0	15.44	327.00	4,078.9	768.9	-499.3	915.8	0.00	0.00	0.00
4,300.0	15.44	327.00	4,175.3	791.2	-513.8	942.4	0.00	0.00	0.00
4,400.0	15.44	327.00	4,271.7	813.6	-528.3	969.0	0.00	0.00	0.00
4,500.0	15.44	327.00	4,368.0	835.9	-542.8	995.6	0.00	0.00	0.00
4,600.0	15.44	327.00	4,464.4	858.2	-557.3	1,022.2	0.00	0.00	0.00
4,700.0	15.44	327.00	4,560.8	880.5	-571.8	1,048.8	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 13A-13 496 - Slot 13A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 13A-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	15.44	327.00	4,657.2	902.9	-586.3	1,075.4	0.00	0.00	0.00
4,900.0	15.44	327.00	4,753.6	925.2	-600.8	1,102.0	0.00	0.00	0.00
5,000.0	15.44	327.00	4,850.0	947.5	-615.3	1,128.6	0.00	0.00	0.00
5,100.0	15.44	327.00	4,946.4	969.8	-629.8	1,155.2	0.00	0.00	0.00
5,200.0	15.44	327.00	5,042.8	992.2	-644.3	1,181.8	0.00	0.00	0.00
5,300.0	15.44	327.00	5,139.2	1,014.5	-658.8	1,208.3	0.00	0.00	0.00
5,400.0	15.44	327.00	5,235.6	1,036.8	-673.3	1,234.9	0.00	0.00	0.00
5,500.0	15.44	327.00	5,332.0	1,059.1	-687.8	1,261.5	0.00	0.00	0.00
5,600.0	15.44	327.00	5,428.4	1,081.5	-702.3	1,288.1	0.00	0.00	0.00
5,700.0	15.44	327.00	5,524.8	1,103.8	-716.8	1,314.7	0.00	0.00	0.00
5,800.0	15.44	327.00	5,621.1	1,126.1	-731.3	1,341.3	0.00	0.00	0.00
5,900.0	15.44	327.00	5,717.5	1,148.4	-745.8	1,367.9	0.00	0.00	0.00
6,000.0	15.44	327.00	5,813.9	1,170.8	-760.3	1,394.5	0.00	0.00	0.00
6,100.0	15.44	327.00	5,910.3	1,193.1	-774.8	1,421.1	0.00	0.00	0.00
6,200.0	15.44	327.00	6,006.7	1,215.4	-789.3	1,447.7	0.00	0.00	0.00
6,300.0	15.44	327.00	6,103.1	1,237.7	-803.8	1,474.2	0.00	0.00	0.00
6,400.0	15.44	327.00	6,199.5	1,260.1	-818.3	1,500.8	0.00	0.00	0.00
6,500.0	15.44	327.00	6,295.9	1,282.4	-832.8	1,527.4	0.00	0.00	0.00
6,600.0	15.44	327.00	6,392.3	1,304.7	-847.3	1,554.0	0.00	0.00	0.00
Wasatch G									
6,625.6	15.44	327.00	6,417.0	1,310.4	-851.0	1,560.8	0.00	0.00	0.00
6,700.0	15.44	327.00	6,488.7	1,327.0	-861.8	1,580.6	0.00	0.00	0.00
6,800.0	15.44	327.00	6,585.1	1,349.4	-876.3	1,607.2	0.00	0.00	0.00
6,900.0	15.44	327.00	6,681.5	1,371.7	-890.8	1,633.8	0.00	0.00	0.00
Fort Union									
6,936.9	15.44	327.00	6,717.0	1,379.9	-896.1	1,643.6	0.00	0.00	0.00
7,000.0	15.44	327.00	6,777.8	1,394.0	-905.3	1,660.4	0.00	0.00	0.00
7,100.0	15.44	327.00	6,874.2	1,416.3	-919.8	1,687.0	0.00	0.00	0.00
7,200.0	15.44	327.00	6,970.6	1,438.7	-934.3	1,713.6	0.00	0.00	0.00
7,300.0	15.44	327.00	7,067.0	1,461.0	-948.7	1,740.2	0.00	0.00	0.00
7,400.0	15.44	327.00	7,163.4	1,483.3	-963.2	1,766.7	0.00	0.00	0.00
7,500.0	15.44	327.00	7,259.8	1,505.6	-977.7	1,793.3	0.00	0.00	0.00
7,600.0	15.44	327.00	7,356.2	1,528.0	-992.2	1,819.9	0.00	0.00	0.00
7,700.0	15.44	327.00	7,452.6	1,550.3	-1,006.7	1,846.5	0.00	0.00	0.00
7,800.0	15.44	327.00	7,549.0	1,572.6	-1,021.2	1,873.1	0.00	0.00	0.00
7,900.0	15.44	327.00	7,645.4	1,594.9	-1,035.7	1,899.7	0.00	0.00	0.00
8,000.0	15.44	327.00	7,741.8	1,617.3	-1,050.2	1,926.3	0.00	0.00	0.00
8,100.0	15.44	327.00	7,838.2	1,639.6	-1,064.7	1,952.9	0.00	0.00	0.00
8,200.0	15.44	327.00	7,934.6	1,661.9	-1,079.2	1,979.5	0.00	0.00	0.00
8,300.0	15.44	327.00	8,030.9	1,684.2	-1,093.7	2,006.1	0.00	0.00	0.00
Drop 3° /100'									
8,321.4	15.44	327.00	8,051.6	1,689.0	-1,096.8	2,011.8	0.00	0.00	0.00
8,400.0	13.08	327.00	8,127.7	1,705.3	-1,107.4	2,031.1	3.00	-3.00	0.00
8,500.0	10.08	327.00	8,225.7	1,722.1	-1,118.3	2,051.1	3.00	-3.00	0.00
8,600.0	7.08	327.00	8,324.6	1,734.6	-1,126.4	2,066.0	3.00	-3.00	0.00
8,700.0	4.08	327.00	8,424.1	1,742.8	-1,131.7	2,075.8	3.00	-3.00	0.00
8,800.0	1.08	327.00	8,524.0	1,746.5	-1,134.2	2,080.3	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,836.0	0.00	0.00	8,560.0	1,746.8	-1,134.4	2,080.6	3.00	-3.00	0.00
8,900.0	0.96	250.00	8,624.0	1,746.6	-1,134.9	2,080.7	1.50	1.50	0.00
EOB @ 1.33° Inc. / 250.00° Azm									
8,925.0	1.33	250.00	8,649.0	1,746.5	-1,135.3	2,080.9	1.50	1.50	0.00
9,000.0	1.33	250.00	8,723.9	1,745.9	-1,137.0	2,081.3	0.00	0.00	0.00
9,100.0	1.33	250.00	8,823.9	1,745.1	-1,139.2	2,082.0	0.00	0.00	0.00

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Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 13A-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
9,200.0	1.33	250.00	8,923.9	1,744.3	-1,141.4	2,082.6	0.00	0.00	0.00
9,300.0	1.33	250.00	9,023.9	1,743.5	-1,143.5	2,083.2	0.00	0.00	0.00
9,400.0	1.33	250.00	9,123.8	1,742.7	-1,145.7	2,083.9	0.00	0.00	0.00
Williams Fork									
9,419.2	1.33	250.00	9,143.0	1,742.5	-1,146.2	2,084.0	0.00	0.00	0.00
9,500.0	1.33	250.00	9,223.8	1,741.9	-1,147.9	2,084.5	0.00	0.00	0.00
9,600.0	1.33	250.00	9,323.8	1,741.1	-1,150.1	2,085.1	0.00	0.00	0.00
9,700.0	1.33	250.00	9,423.7	1,740.3	-1,152.3	2,085.7	0.00	0.00	0.00
9,800.0	1.33	250.00	9,523.7	1,739.5	-1,154.5	2,086.4	0.00	0.00	0.00
9,900.0	1.33	250.00	9,623.7	1,738.7	-1,156.7	2,087.0	0.00	0.00	0.00
10,000.0	1.33	250.00	9,723.7	1,737.9	-1,158.9	2,087.6	0.00	0.00	0.00
10,100.0	1.33	250.00	9,823.6	1,737.1	-1,161.1	2,088.3	0.00	0.00	0.00
10,200.0	1.33	250.00	9,923.6	1,736.3	-1,163.2	2,088.9	0.00	0.00	0.00
10,300.0	1.33	250.00	10,023.6	1,735.5	-1,165.4	2,089.5	0.00	0.00	0.00
10,400.0	1.33	250.00	10,123.6	1,734.7	-1,167.6	2,090.1	0.00	0.00	0.00
10,500.0	1.33	250.00	10,223.5	1,733.9	-1,169.8	2,090.8	0.00	0.00	0.00
10,600.0	1.33	250.00	10,323.5	1,733.1	-1,172.0	2,091.4	0.00	0.00	0.00
10,700.0	1.33	250.00	10,423.5	1,732.3	-1,174.2	2,092.0	0.00	0.00	0.00
10,800.0	1.33	250.00	10,523.5	1,731.5	-1,176.4	2,092.7	0.00	0.00	0.00
10,900.0	1.33	250.00	10,623.4	1,730.7	-1,178.6	2,093.3	0.00	0.00	0.00
11,000.0	1.33	250.00	10,723.4	1,729.9	-1,180.8	2,093.9	0.00	0.00	0.00
11,100.0	1.33	250.00	10,823.4	1,729.1	-1,182.9	2,094.5	0.00	0.00	0.00
11,200.0	1.33	250.00	10,923.3	1,728.3	-1,185.1	2,095.2	0.00	0.00	0.00
11,300.0	1.33	250.00	11,023.3	1,727.5	-1,187.3	2,095.8	0.00	0.00	0.00
11,400.0	1.33	250.00	11,123.3	1,726.7	-1,189.5	2,096.4	0.00	0.00	0.00
11,500.0	1.33	250.00	11,223.3	1,725.9	-1,191.7	2,097.1	0.00	0.00	0.00
11,600.0	1.33	250.00	11,323.2	1,725.1	-1,193.9	2,097.7	0.00	0.00	0.00
11,700.0	1.33	250.00	11,423.2	1,724.4	-1,196.1	2,098.3	0.00	0.00	0.00
11,800.0	1.33	250.00	11,523.2	1,723.6	-1,198.3	2,098.9	0.00	0.00	0.00
11,900.0	1.33	250.00	11,623.2	1,722.8	-1,200.5	2,099.6	0.00	0.00	0.00
12,000.0	1.33	250.00	11,723.1	1,722.0	-1,202.6	2,100.2	0.00	0.00	0.00
12,100.0	1.33	250.00	11,823.1	1,721.2	-1,204.8	2,100.8	0.00	0.00	0.00
12,200.0	1.33	250.00	11,923.1	1,720.4	-1,207.0	2,101.4	0.00	0.00	0.00
Cameo									
12,252.9	1.33	250.00	11,976.0	1,719.9	-1,208.2	2,101.8	0.00	0.00	0.00
12,300.0	1.33	250.00	12,023.0	1,719.6	-1,209.2	2,102.1	0.00	0.00	0.00
12,400.0	1.33	250.00	12,123.0	1,718.8	-1,211.4	2,102.7	0.00	0.00	0.00
12,500.0	1.33	250.00	12,223.0	1,718.0	-1,213.6	2,103.3	0.00	0.00	0.00
12,600.0	1.33	250.00	12,323.0	1,717.2	-1,215.8	2,104.0	0.00	0.00	0.00
Rollins									
12,673.1	1.33	250.00	12,396.0	1,716.6	-1,217.4	2,104.4	0.00	0.00	0.00
12,700.0	1.33	250.00	12,422.9	1,716.4	-1,218.0	2,104.6	0.00	0.00	0.00
12,800.0	1.33	250.00	12,522.9	1,715.6	-1,220.2	2,105.2	0.00	0.00	0.00
12,900.0	1.33	250.00	12,622.9	1,714.8	-1,222.3	2,105.8	0.00	0.00	0.00
13,000.0	1.33	250.00	12,722.9	1,714.0	-1,224.5	2,106.5	0.00	0.00	0.00
13,100.0	1.33	250.00	12,822.8	1,713.2	-1,226.7	2,107.1	0.00	0.00	0.00
TD @ 13173.2' MD / 12896.0' TVD									
13,173.2	1.33	250.00	12,896.0	1,712.6	-1,228.3	2,107.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 13A-13 496 - Slot 13A-13
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 8143.0usft (25')
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 8143.0usft (25')
Site:	ELU O13 496 Pad	North Reference:	True
Well:	ELU O13 FED 13A-13 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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									
OHCR - 13A-13	0.00	0.00	8,560.0	1,746.8	-1,134.4	14,431,105.21	2,450,856.42	39.703502	-108.118824
- plan hits target center									
- Point									
PBHL - 13A-13	0.00	0.00	12,896.0	1,712.6	-1,228.3	14,431,068.00	2,450,763.60	39.703408	-108.119158
- 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 (°)
4,135.8	4,017.0	Wasatch			
6,625.6	6,417.0	Wasatch G			
6,936.9	6,717.0	Fort Union			
8,836.0	8,560.0	Ohio Creek			
9,419.2	9,143.0	Williams Fork			
12,252.9	11,976.0	Cameo			
12,673.1	12,396.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.0	500.0	0.0	0.0	Build 3° / 100'
1,014.6	1,008.4	57.8	-37.5	EOB @ 15.44° Inc. / 327.00° Azm
8,321.4	8,051.6	1,689.0	-1,096.8	Drop 3° / 100'
8,836.0	8,560.0	1,746.8	-1,134.4	EOD @ Vertical / Build 1.5° / 100'
8,925.0	8,649.0	1,746.5	-1,135.3	EOB @ 1.33° Inc. / 250.00° Azm
13,173.2	12,896.0	1,712.6	-1,228.3	TD @ 13173.2' MD / 12896.0' TVD