

Project: Rio Blanco County, CO
 Site: ELU O13 496 Pad
 Well: ELU O13 FED 22B-13 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.698722
 Longitude: -108.114474
 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 - 22B-13(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8143.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4130.0	4333.6	Wasatch
6530.0	6886.9	Wasatch G
6830.0	7206.1	Fort Union
8709.0	9176.8	Ohio Creek
9277.0	9745.0	Williams Fork
12348.0	12816.9	Cameo
12412.0	12880.9	Rollins

SECTION DETAILS

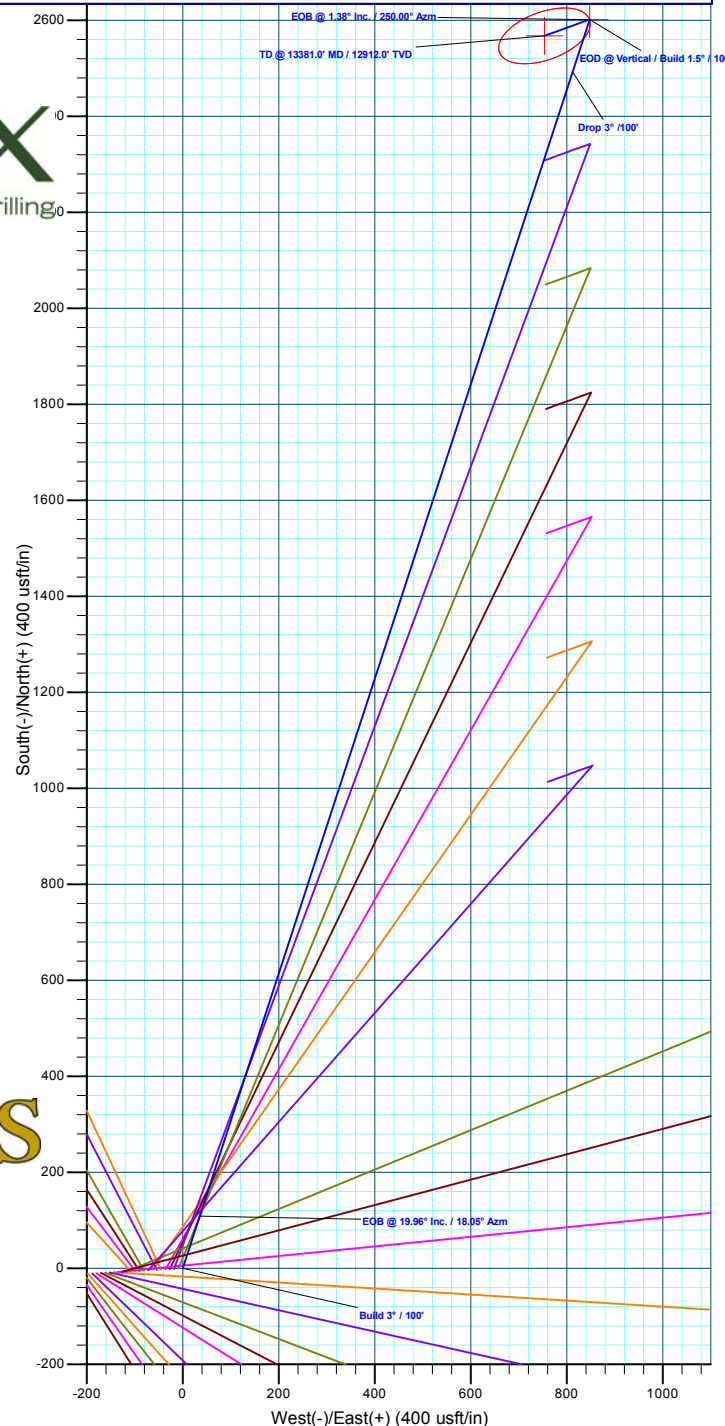
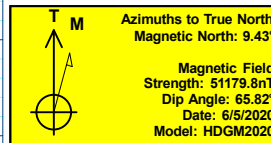
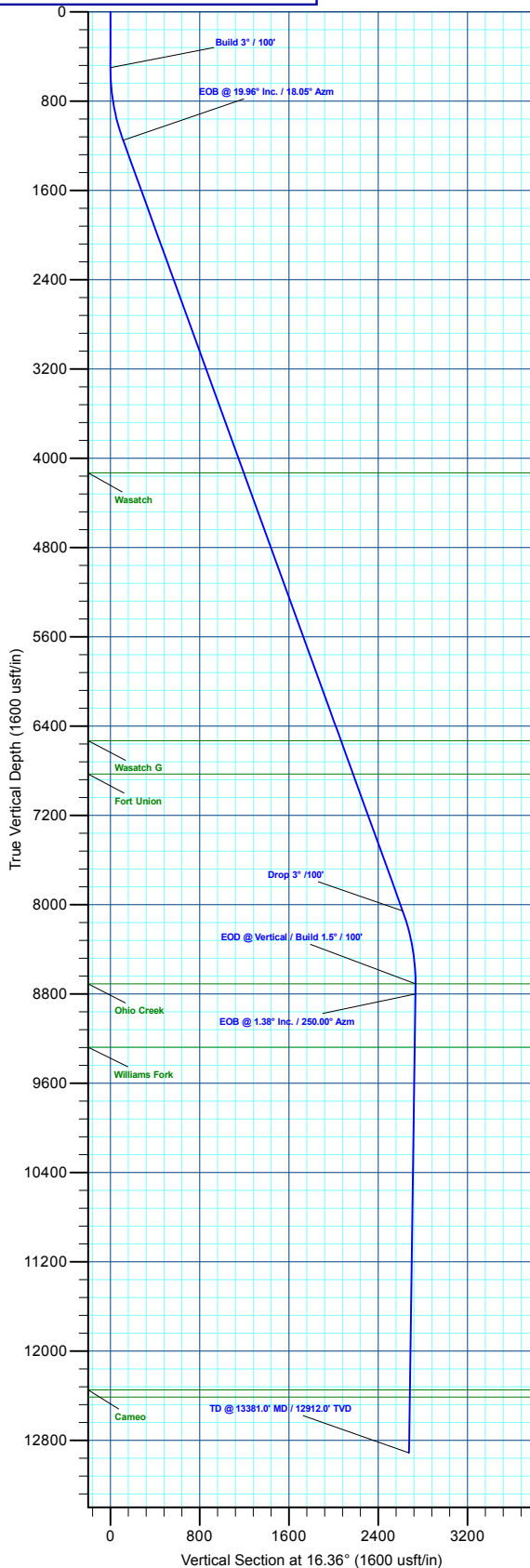
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
1165.2	19.96	18.05	1151.8	109.0	35.5	3.00	18.05	114.6	EOB @ 19.96° Inc. / 18.05° Azm
8511.6	19.96	18.05	8057.2	2492.9	812.2	0.00	0.00	2620.8	Drop 3° / 100'
9176.8	0.00	0.00	8709.0	2602.0	847.7	3.00	180.00	2735.4	EOD @ Vertical / Build 1.5° / 100'
9268.7	1.38	250.00	8800.9	2601.6	846.7	1.50	250.00	2734.7	EOB @ 1.38° Inc. / 250.00° Azm
13381.0	1.38	250.00	12912.0	2567.8	753.7	0.00	0.00	2676.1	TD @ 13381.0° MD / 12912.0° TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 22B-13	8709.0	2602.0	847.7	14432031.61	2452899.62	39.705862	-108.111463
PBHL - 22B-13	12912.0	2567.8	753.7	14431994.40	2452806.80	39.705769	-108.111796

WELL DETAILS: ELU O13 FED 22B-13 496

+N/-S	+E/-W	Ground Level : 8118.0	Latitude	Longitude
0.0	0.0	Northing 14429403.70 Easting 2452136.10	39.698722	-108.114474



Plan: Design #3 (ELU O13 FED 22B-13 496/Wellbore #1)

Created By: Will Jircik Date: 14:11, November 15 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 22B-13 496 - Slot 22B-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 22B-13 496 - Slot 22B-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 22B-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 22B-13 496 - Slot 22B-13					
Well Position	+N/-S	3.6 usft	Northing:	14,429,403.70 usft	Latitude:	39.698722
	+E/-W	64.8 usft	Easting:	2,452,136.10 usft	Longitude:	-108.114475
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	16.36

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	
1,165.2	19.96	18.05	1,151.8	109.0	35.5	3.00	3.00	0.00	18.05	
8,511.6	19.96	18.05	8,057.2	2,492.9	812.2	0.00	0.00	0.00	0.00	
9,176.8	0.00	0.00	8,709.0	2,602.0	847.7	3.00	-3.00	0.00	180.00	OHCR - 22B-13
9,268.7	1.38	250.00	8,800.9	2,601.6	846.7	1.50	1.50	-119.74	250.00	
13,381.0	1.38	250.00	12,912.0	2,567.8	753.7	0.00	0.00	0.00	0.00	PBHL - 22B-13

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 22B-13 496 - Slot 22B-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 22B-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	18.05	600.0	2.5	0.8	2.6	3.00	3.00	0.00
700.0	6.00	18.05	699.6	9.9	3.2	10.5	3.00	3.00	0.00
800.0	9.00	18.05	798.8	22.4	7.3	23.5	3.00	3.00	0.00
900.0	12.00	18.05	897.1	39.7	12.9	41.7	3.00	3.00	0.00
1,000.0	15.00	18.05	994.3	61.9	20.2	65.0	3.00	3.00	0.00
1,100.0	18.00	18.05	1,090.2	88.9	29.0	93.4	3.00	3.00	0.00
EOB @ 19.96° Inc. / 18.05° Azm									
1,165.2	19.96	18.05	1,151.8	109.0	35.5	114.6	3.00	3.00	0.00
1,200.0	19.96	18.05	1,184.5	120.3	39.2	126.5	0.00	0.00	0.00
1,300.0	19.96	18.05	1,278.5	152.8	49.8	160.6	0.00	0.00	0.00
1,400.0	19.96	18.05	1,372.5	185.2	60.3	194.7	0.00	0.00	0.00
1,500.0	19.96	18.05	1,466.5	217.7	70.9	228.8	0.00	0.00	0.00
1,600.0	19.96	18.05	1,560.5	250.1	81.5	263.0	0.00	0.00	0.00
1,700.0	19.96	18.05	1,654.5	282.6	92.1	297.1	0.00	0.00	0.00
1,800.0	19.96	18.05	1,748.5	315.0	102.6	331.2	0.00	0.00	0.00
1,900.0	19.96	18.05	1,842.5	347.5	113.2	365.3	0.00	0.00	0.00
2,000.0	19.96	18.05	1,936.5	379.9	123.8	399.4	0.00	0.00	0.00
2,100.0	19.96	18.05	2,030.5	412.4	134.3	433.5	0.00	0.00	0.00
2,200.0	19.96	18.05	2,124.5	444.8	144.9	467.6	0.00	0.00	0.00
2,300.0	19.96	18.05	2,218.5	477.3	155.5	501.8	0.00	0.00	0.00
2,400.0	19.96	18.05	2,312.5	509.7	166.1	535.9	0.00	0.00	0.00
2,500.0	19.96	18.05	2,406.5	542.2	176.6	570.0	0.00	0.00	0.00
2,600.0	19.96	18.05	2,500.5	574.6	187.2	604.1	0.00	0.00	0.00
2,700.0	19.96	18.05	2,594.5	607.1	197.8	638.2	0.00	0.00	0.00
2,800.0	19.96	18.05	2,688.5	639.5	208.4	672.3	0.00	0.00	0.00
2,900.0	19.96	18.05	2,782.5	672.0	218.9	706.4	0.00	0.00	0.00
3,000.0	19.96	18.05	2,876.5	704.4	229.5	740.5	0.00	0.00	0.00
3,100.0	19.96	18.05	2,970.5	736.9	240.1	774.7	0.00	0.00	0.00
3,200.0	19.96	18.05	3,064.5	769.3	250.6	808.8	0.00	0.00	0.00
3,300.0	19.96	18.05	3,158.5	801.8	261.2	842.9	0.00	0.00	0.00
3,400.0	19.96	18.05	3,252.5	834.2	271.8	877.0	0.00	0.00	0.00
3,500.0	19.96	18.05	3,346.4	866.7	282.4	911.1	0.00	0.00	0.00
3,600.0	19.96	18.05	3,440.4	899.1	292.9	945.2	0.00	0.00	0.00
3,700.0	19.96	18.05	3,534.4	931.6	303.5	979.3	0.00	0.00	0.00
3,800.0	19.96	18.05	3,628.4	964.0	314.1	1,013.5	0.00	0.00	0.00
3,900.0	19.96	18.05	3,722.4	996.5	324.6	1,047.6	0.00	0.00	0.00
4,000.0	19.96	18.05	3,816.4	1,028.9	335.2	1,081.7	0.00	0.00	0.00
4,100.0	19.96	18.05	3,910.4	1,061.4	345.8	1,115.8	0.00	0.00	0.00
4,200.0	19.96	18.05	4,004.4	1,093.8	356.4	1,149.9	0.00	0.00	0.00
4,300.0	19.96	18.05	4,098.4	1,126.3	366.9	1,184.0	0.00	0.00	0.00
Wasatch									
4,333.6	19.96	18.05	4,130.0	1,137.2	370.5	1,195.5	0.00	0.00	0.00
4,400.0	19.96	18.05	4,192.4	1,158.7	377.5	1,218.1	0.00	0.00	0.00
4,500.0	19.96	18.05	4,286.4	1,191.2	388.1	1,252.3	0.00	0.00	0.00
4,600.0	19.96	18.05	4,380.4	1,223.6	398.6	1,286.4	0.00	0.00	0.00
4,700.0	19.96	18.05	4,474.4	1,256.1	409.2	1,320.5	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 22B-13 496 - Slot 22B-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 22B-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	19.96	18.05	4,568.4	1,288.5	419.8	1,354.6	0.00	0.00	0.00
4,900.0	19.96	18.05	4,662.4	1,321.0	430.4	1,388.7	0.00	0.00	0.00
5,000.0	19.96	18.05	4,756.4	1,353.4	440.9	1,422.8	0.00	0.00	0.00
5,100.0	19.96	18.05	4,850.4	1,385.9	451.5	1,456.9	0.00	0.00	0.00
5,200.0	19.96	18.05	4,944.4	1,418.3	462.1	1,491.1	0.00	0.00	0.00
5,300.0	19.96	18.05	5,038.4	1,450.8	472.6	1,525.2	0.00	0.00	0.00
5,400.0	19.96	18.05	5,132.4	1,483.2	483.2	1,559.3	0.00	0.00	0.00
5,500.0	19.96	18.05	5,226.4	1,515.7	493.8	1,593.4	0.00	0.00	0.00
5,600.0	19.96	18.05	5,320.4	1,548.1	504.4	1,627.5	0.00	0.00	0.00
5,700.0	19.96	18.05	5,414.4	1,580.6	514.9	1,661.6	0.00	0.00	0.00
5,800.0	19.96	18.05	5,508.4	1,613.0	525.5	1,695.7	0.00	0.00	0.00
5,900.0	19.96	18.05	5,602.4	1,645.5	536.1	1,729.8	0.00	0.00	0.00
6,000.0	19.96	18.05	5,696.3	1,677.9	546.6	1,764.0	0.00	0.00	0.00
6,100.0	19.96	18.05	5,790.3	1,710.4	557.2	1,798.1	0.00	0.00	0.00
6,200.0	19.96	18.05	5,884.3	1,742.8	567.8	1,832.2	0.00	0.00	0.00
6,300.0	19.96	18.05	5,978.3	1,775.3	578.4	1,866.3	0.00	0.00	0.00
6,400.0	19.96	18.05	6,072.3	1,807.7	588.9	1,900.4	0.00	0.00	0.00
6,500.0	19.96	18.05	6,166.3	1,840.2	599.5	1,934.5	0.00	0.00	0.00
6,600.0	19.96	18.05	6,260.3	1,872.6	610.1	1,968.6	0.00	0.00	0.00
6,700.0	19.96	18.05	6,354.3	1,905.1	620.7	2,002.8	0.00	0.00	0.00
6,800.0	19.96	18.05	6,448.3	1,937.5	631.2	2,036.9	0.00	0.00	0.00
Wasatch G									
6,886.9	19.96	18.05	6,530.0	1,965.7	640.4	2,066.5	0.00	0.00	0.00
6,900.0	19.96	18.05	6,542.3	1,970.0	641.8	2,071.0	0.00	0.00	0.00
7,000.0	19.96	18.05	6,636.3	2,002.4	652.4	2,105.1	0.00	0.00	0.00
7,100.0	19.96	18.05	6,730.3	2,034.9	662.9	2,139.2	0.00	0.00	0.00
7,200.0	19.96	18.05	6,824.3	2,067.3	673.5	2,173.3	0.00	0.00	0.00
Fort Union									
7,206.1	19.96	18.05	6,830.0	2,069.3	674.2	2,175.4	0.00	0.00	0.00
7,300.0	19.96	18.05	6,918.3	2,099.8	684.1	2,207.4	0.00	0.00	0.00
7,400.0	19.96	18.05	7,012.3	2,132.2	694.7	2,241.6	0.00	0.00	0.00
7,500.0	19.96	18.05	7,106.3	2,164.7	705.2	2,275.7	0.00	0.00	0.00
7,600.0	19.96	18.05	7,200.3	2,197.1	715.8	2,309.8	0.00	0.00	0.00
7,700.0	19.96	18.05	7,294.3	2,229.6	726.4	2,343.9	0.00	0.00	0.00
7,800.0	19.96	18.05	7,388.3	2,262.0	736.9	2,378.0	0.00	0.00	0.00
7,900.0	19.96	18.05	7,482.3	2,294.5	747.5	2,412.1	0.00	0.00	0.00
8,000.0	19.96	18.05	7,576.3	2,326.9	758.1	2,446.2	0.00	0.00	0.00
8,100.0	19.96	18.05	7,670.3	2,359.4	768.7	2,480.3	0.00	0.00	0.00
8,200.0	19.96	18.05	7,764.3	2,391.8	779.2	2,514.5	0.00	0.00	0.00
8,300.0	19.96	18.05	7,858.3	2,424.3	789.8	2,548.6	0.00	0.00	0.00
8,400.0	19.96	18.05	7,952.3	2,456.7	800.4	2,582.7	0.00	0.00	0.00
8,500.0	19.96	18.05	8,046.2	2,489.2	810.9	2,616.8	0.00	0.00	0.00
Drop 3° /100'									
8,511.6	19.96	18.05	8,057.2	2,492.9	812.2	2,620.8	0.00	0.00	0.00
8,600.0	17.30	18.05	8,140.9	2,519.8	820.9	2,649.0	3.00	-3.00	0.00
8,700.0	14.30	18.05	8,237.1	2,545.7	829.4	2,676.2	3.00	-3.00	0.00
8,800.0	11.30	18.05	8,334.6	2,566.7	836.2	2,698.4	3.00	-3.00	0.00
8,900.0	8.30	18.05	8,433.2	2,582.9	841.5	2,715.4	3.00	-3.00	0.00
9,000.0	5.30	18.05	8,532.4	2,594.2	845.2	2,727.2	3.00	-3.00	0.00
9,100.0	2.30	18.05	8,632.2	2,600.5	847.2	2,733.9	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
9,176.8	0.00	0.00	8,709.0	2,602.0	847.7	2,735.4	3.00	-3.00	0.00
9,200.0	0.35	250.00	8,732.2	2,602.0	847.6	2,735.4	1.50	1.50	0.00
EOB @ 1.38° Inc. / 250.00° Azm									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 22B-13 496 - Slot 22B-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 22B-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)
9,268.7	1.38	250.00	8,800.9	2,601.6	846.7	2,734.7	1.50	1.50	0.00
9,300.0	1.38	250.00	8,832.2	2,601.3	845.9	2,734.3	0.00	0.00	0.00
9,400.0	1.38	250.00	8,932.1	2,600.5	843.7	2,732.9	0.00	0.00	0.00
9,500.0	1.38	250.00	9,032.1	2,599.7	841.4	2,731.4	0.00	0.00	0.00
9,600.0	1.38	250.00	9,132.1	2,598.9	839.2	2,730.0	0.00	0.00	0.00
9,700.0	1.38	250.00	9,232.0	2,598.1	836.9	2,728.6	0.00	0.00	0.00
Williams Fork									
9,745.0	1.38	250.00	9,277.0	2,597.7	835.9	2,728.0	0.00	0.00	0.00
9,800.0	1.38	250.00	9,332.0	2,597.2	834.6	2,727.2	0.00	0.00	0.00
9,900.0	1.38	250.00	9,432.0	2,596.4	832.4	2,725.7	0.00	0.00	0.00
10,000.0	1.38	250.00	9,532.0	2,595.6	830.1	2,724.3	0.00	0.00	0.00
10,100.0	1.38	250.00	9,631.9	2,594.8	827.9	2,722.9	0.00	0.00	0.00
10,200.0	1.38	250.00	9,731.9	2,593.9	825.6	2,721.5	0.00	0.00	0.00
10,300.0	1.38	250.00	9,831.9	2,593.1	823.4	2,720.0	0.00	0.00	0.00
10,400.0	1.38	250.00	9,931.8	2,592.3	821.1	2,718.6	0.00	0.00	0.00
10,500.0	1.38	250.00	10,031.8	2,591.5	818.8	2,717.2	0.00	0.00	0.00
10,600.0	1.38	250.00	10,131.8	2,590.6	816.6	2,715.8	0.00	0.00	0.00
10,700.0	1.38	250.00	10,231.8	2,589.8	814.3	2,714.3	0.00	0.00	0.00
10,800.0	1.38	250.00	10,331.7	2,589.0	812.1	2,712.9	0.00	0.00	0.00
10,900.0	1.38	250.00	10,431.7	2,588.2	809.8	2,711.5	0.00	0.00	0.00
11,000.0	1.38	250.00	10,531.7	2,587.4	807.5	2,710.1	0.00	0.00	0.00
11,100.0	1.38	250.00	10,631.6	2,586.5	805.3	2,708.6	0.00	0.00	0.00
11,200.0	1.38	250.00	10,731.6	2,585.7	803.0	2,707.2	0.00	0.00	0.00
11,300.0	1.38	250.00	10,831.6	2,584.9	800.8	2,705.8	0.00	0.00	0.00
11,400.0	1.38	250.00	10,931.6	2,584.1	798.5	2,704.4	0.00	0.00	0.00
11,500.0	1.38	250.00	11,031.5	2,583.2	796.2	2,702.9	0.00	0.00	0.00
11,600.0	1.38	250.00	11,131.5	2,582.4	794.0	2,701.5	0.00	0.00	0.00
11,700.0	1.38	250.00	11,231.5	2,581.6	791.7	2,700.1	0.00	0.00	0.00
11,800.0	1.38	250.00	11,331.4	2,580.8	789.5	2,698.7	0.00	0.00	0.00
11,900.0	1.38	250.00	11,431.4	2,580.0	787.2	2,697.2	0.00	0.00	0.00
12,000.0	1.38	250.00	11,531.4	2,579.1	784.9	2,695.8	0.00	0.00	0.00
12,100.0	1.38	250.00	11,631.4	2,578.3	782.7	2,694.4	0.00	0.00	0.00
12,200.0	1.38	250.00	11,731.3	2,577.5	780.4	2,692.9	0.00	0.00	0.00
12,300.0	1.38	250.00	11,831.3	2,576.7	778.2	2,691.5	0.00	0.00	0.00
12,400.0	1.38	250.00	11,931.3	2,575.8	775.9	2,690.1	0.00	0.00	0.00
12,500.0	1.38	250.00	12,031.2	2,575.0	773.6	2,688.7	0.00	0.00	0.00
12,600.0	1.38	250.00	12,131.2	2,574.2	771.4	2,687.2	0.00	0.00	0.00
12,700.0	1.38	250.00	12,231.2	2,573.4	769.1	2,685.8	0.00	0.00	0.00
12,800.0	1.38	250.00	12,331.2	2,572.6	766.9	2,684.4	0.00	0.00	0.00
Cameo									
12,816.9	1.38	250.00	12,348.0	2,572.4	766.5	2,684.2	0.00	0.00	0.00
Rollins									
12,880.9	1.38	250.00	12,412.0	2,571.9	765.0	2,683.2	0.00	0.00	0.00
12,900.0	1.38	250.00	12,431.1	2,571.7	764.6	2,683.0	0.00	0.00	0.00
13,000.0	1.38	250.00	12,531.1	2,570.9	762.3	2,681.5	0.00	0.00	0.00
13,100.0	1.38	250.00	12,631.1	2,570.1	760.1	2,680.1	0.00	0.00	0.00
13,200.0	1.38	250.00	12,731.0	2,569.3	757.8	2,678.7	0.00	0.00	0.00
13,300.0	1.38	250.00	12,831.0	2,568.4	755.6	2,677.3	0.00	0.00	0.00
TD @ 13381.0' MD / 12912.0' TVD									
13,381.0	1.38	250.00	12,912.0	2,567.8	753.7	2,676.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 22B-13 496 - Slot 22B-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 22B-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	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
OHCR - 22B-13	0.00	0.00	8,709.0	2,602.0	847.7	14,432,031.61	2,452,899.62	39.705862	-108.111463
- plan hits target center									
- Point									
PBHL - 22B-13	0.00	0.00	12,912.0	2,567.8	753.7	14,431,994.40	2,452,806.80	39.705769	-108.111797
- plan hits target center									
- Ellipse (radii L100.0 W50.0 on 250.00 azi)									

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
4,333.6	4,130.0	Wasatch			
6,886.9	6,530.0	Wasatch G			
7,206.1	6,830.0	Fort Union			
9,176.8	8,709.0	Ohio Creek			
9,745.0	9,277.0	Williams Fork			
12,816.9	12,348.0	Cameo			
12,880.9	12,412.0	Rollins			

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
500.0	500.0	0.0	0.0	Build 3° / 100'
1,165.2	1,151.8	109.0	35.5	EOB @ 19.96° Inc. / 18.05° Azm
8,511.6	8,057.2	2,492.9	812.2	Drop 3° / 100'
9,176.8	8,709.0	2,602.0	847.7	EOD @ Vertical / Build 1.5° / 100'
9,268.7	8,800.9	2,601.6	846.7	EOB @ 1.38° Inc. / 250.00° Azm
13,381.0	12,912.0	2,567.8	753.7	TD @ 13381.0' MD / 12912.0' TVD