

Project: Rio Blanco County, CO
 Site: ELU O13 496 Pad
 Well: ELU O13 FED 12C-13 496
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39.698714
 Longitude: -108.114666
 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 - 12C-13(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8143.0usft (25')
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4037.0	4215.0	Wasatch
6437.0	6752.0	Wasatch G
6737.0	7069.1	Fort Union
8573.0	8986.0	Ohio Creek
9157.0	9570.2	Williams Fork
12021.0	12434.9	Cameo
12401.0	12815.0	Rollins

SECTION DETAILS

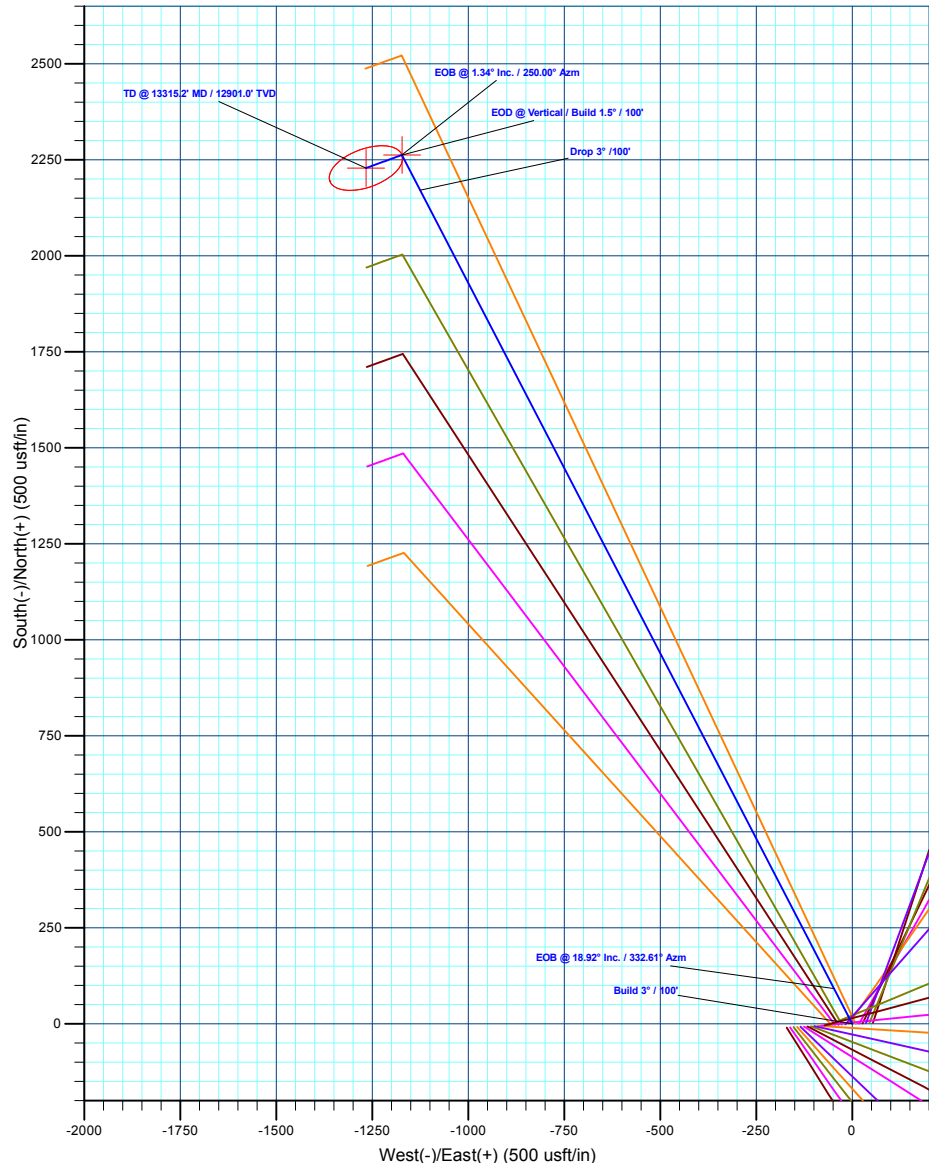
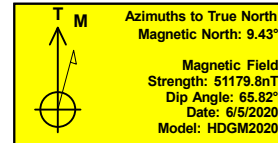
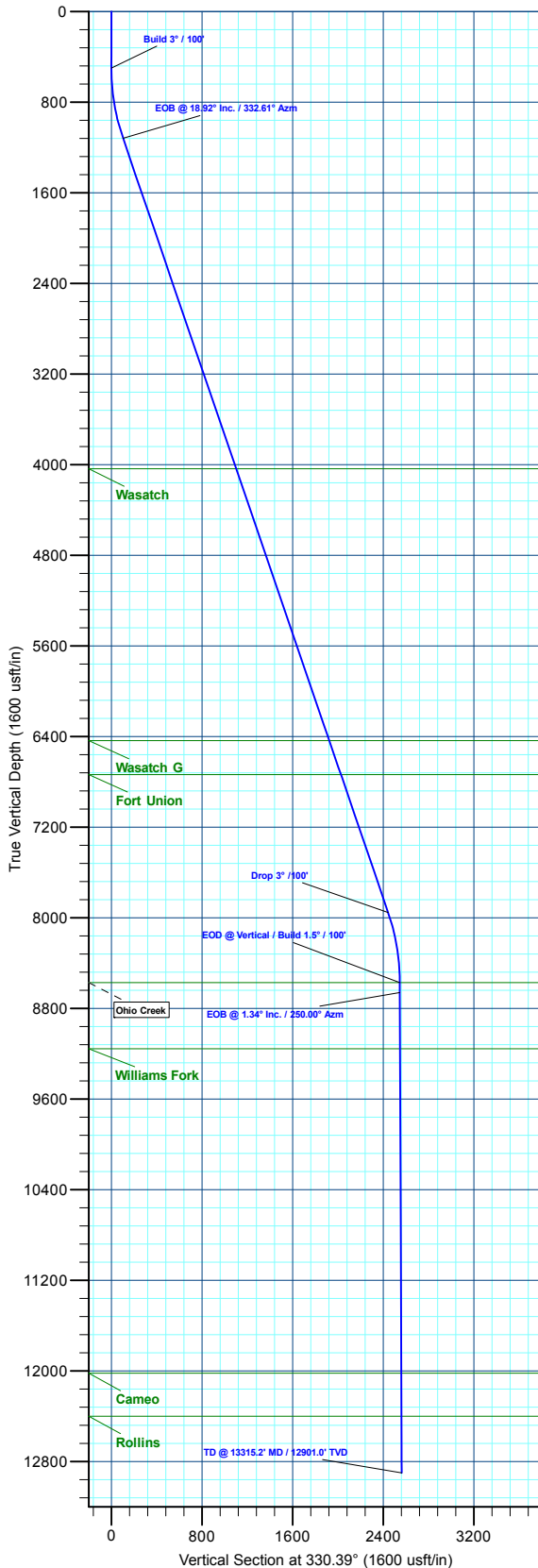
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Build 3" / 100'
1130.6	18.92	332.61	1119.2	91.6	-47.5	3.00	332.61	103.1	EOB @ 18.92° Inc. / 332.61° Azm
8355.4	18.92	332.61	7953.8	2171.3	-1125.0	0.00	0.00	2443.6	Drop 3" / 100'
8986.0	0.00	0.00	8573.0	2262.9	-1172.5	3.00	180.00	2546.7	EOD @ Vertical / Build 1.5" / 100'
9075.2	1.34	250.00	8662.2	2262.6	-1173.4	1.50	250.00	2546.9	EOB @ 1.34° Inc. / 250.00° Azm
13315.2	1.34	250.00	12901.0	2228.7	-1266.4	0.00	0.00	2563.4	TD @ 13315.2' MD / 12901.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
OHCR - 12C-13	8573.0	2262.9	-1172.5	14431623.01	2450837.62	39.704924	-108.118831
PBHL - 12C-13	12901.0	2228.7	-1266.4	14431585.80	2450744.80	39.704830	-108.119165

WELL DETAILS: ELU O13 FED 12C-13 496

+N/-S	+E/-W	Ground Level : 8118.0	Northing	Easting	Latitude	Longitude	12C-13
0.0	0.0		14429399.00	2452082.30	39.698714	-108.114666	



Plan: Design #3 (ELU O13 FED 12C-13 496/Wellbore #1)

Created By: Will Jircik Date: 13:27, November 15 2022



Caerus Oil & Gas

Rio Blanco County, CO

ELU O13 496 Pad

ELU O13 FED 12C-13 496 - Slot 12C-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 12C-13 496 - Slot 12C-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 12C-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
From:	Map	Easting:	2,452,071.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.698712
		Longitude:	-108.114705
		Grid Convergence:	1.84 °

Well	ELU O13 FED 12C-13 496 - Slot 12C-13		
Well Position	+N/-S	0.6 usft	Northing: 14,429,399.00 usft
	+E/-W	10.9 usft	Easting: 2,452,082.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39.698714
			Longitude: -108.114666
			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	330.39

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	
1,130.6	18.92	332.61	1,119.2	91.6	-47.5	3.00	3.00	0.00	332.61	
8,355.4	18.92	332.61	7,953.8	2,171.3	-1,125.0	0.00	0.00	0.00	0.00	
8,986.0	0.00	0.00	8,573.0	2,262.9	-1,172.5	3.00	-3.00	0.00	180.00	OHCR - 12C-13
9,075.2	1.34	250.00	8,662.2	2,262.6	-1,173.4	1.50	1.50	-123.38	250.00	
13,315.2	1.34	250.00	12,901.0	2,228.7	-1,266.4	0.00	0.00	0.00	0.00	PBHL - 12C-13

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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	332.61	600.0	2.3	-1.2	2.6	3.00	3.00	0.00
700.0	6.00	332.61	699.6	9.3	-4.8	10.5	3.00	3.00	0.00
800.0	9.00	332.61	798.8	20.9	-10.8	23.5	3.00	3.00	0.00
900.0	12.00	332.61	897.1	37.1	-19.2	41.7	3.00	3.00	0.00
1,000.0	15.00	332.61	994.3	57.8	-29.9	65.0	3.00	3.00	0.00
1,100.0	18.00	332.61	1,090.2	83.0	-43.0	93.4	3.00	3.00	0.00
EOB @ 18.92° Inc. / 332.61° Azm									
1,130.6	18.92	332.61	1,119.2	91.6	-47.5	103.1	3.00	3.00	0.00
1,200.0	18.92	332.61	1,184.9	111.6	-57.8	125.6	0.00	0.00	0.00
1,300.0	18.92	332.61	1,279.5	140.4	-72.7	158.0	0.00	0.00	0.00
1,400.0	18.92	332.61	1,374.1	169.1	-87.6	190.4	0.00	0.00	0.00
1,500.0	18.92	332.61	1,468.7	197.9	-102.6	222.8	0.00	0.00	0.00
1,600.0	18.92	332.61	1,563.3	226.7	-117.5	255.2	0.00	0.00	0.00
1,700.0	18.92	332.61	1,657.9	255.5	-132.4	287.5	0.00	0.00	0.00
1,800.0	18.92	332.61	1,752.4	284.3	-147.3	319.9	0.00	0.00	0.00
1,900.0	18.92	332.61	1,847.0	313.1	-162.2	352.3	0.00	0.00	0.00
2,000.0	18.92	332.61	1,941.6	341.9	-177.1	384.7	0.00	0.00	0.00
2,100.0	18.92	332.61	2,036.2	370.6	-192.0	417.1	0.00	0.00	0.00
2,200.0	18.92	332.61	2,130.8	399.4	-207.0	449.5	0.00	0.00	0.00
2,300.0	18.92	332.61	2,225.4	428.2	-221.9	481.9	0.00	0.00	0.00
2,400.0	18.92	332.61	2,320.0	457.0	-236.8	514.3	0.00	0.00	0.00
2,500.0	18.92	332.61	2,414.6	485.8	-251.7	546.7	0.00	0.00	0.00
2,600.0	18.92	332.61	2,509.2	514.6	-266.6	579.1	0.00	0.00	0.00
2,700.0	18.92	332.61	2,603.8	543.4	-281.5	611.5	0.00	0.00	0.00
2,800.0	18.92	332.61	2,698.4	572.1	-296.4	643.9	0.00	0.00	0.00
2,900.0	18.92	332.61	2,793.0	600.9	-311.4	676.3	0.00	0.00	0.00
3,000.0	18.92	332.61	2,887.6	629.7	-326.3	708.7	0.00	0.00	0.00
3,100.0	18.92	332.61	2,982.2	658.5	-341.2	741.1	0.00	0.00	0.00
3,200.0	18.92	332.61	3,076.8	687.3	-356.1	773.5	0.00	0.00	0.00
3,300.0	18.92	332.61	3,171.4	716.1	-371.0	805.9	0.00	0.00	0.00
3,400.0	18.92	332.61	3,266.0	744.9	-385.9	838.3	0.00	0.00	0.00
3,500.0	18.92	332.61	3,360.6	773.6	-400.8	870.7	0.00	0.00	0.00
3,600.0	18.92	332.61	3,455.2	802.4	-415.8	903.1	0.00	0.00	0.00
3,700.0	18.92	332.61	3,549.8	831.2	-430.7	935.5	0.00	0.00	0.00
3,800.0	18.92	332.61	3,644.4	860.0	-445.6	967.9	0.00	0.00	0.00
3,900.0	18.92	332.61	3,739.0	888.8	-460.5	1,000.3	0.00	0.00	0.00
4,000.0	18.92	332.61	3,833.6	917.6	-475.4	1,032.7	0.00	0.00	0.00
4,100.0	18.92	332.61	3,928.2	946.4	-490.3	1,065.0	0.00	0.00	0.00
4,200.0	18.92	332.61	4,022.8	975.1	-505.2	1,097.4	0.00	0.00	0.00
Wasatch									
4,215.0	18.92	332.61	4,037.0	979.5	-507.5	1,102.3	0.00	0.00	0.00
4,300.0	18.92	332.61	4,117.4	1,003.9	-520.2	1,129.8	0.00	0.00	0.00
4,400.0	18.92	332.61	4,212.0	1,032.7	-535.1	1,162.2	0.00	0.00	0.00
4,500.0	18.92	332.61	4,306.6	1,061.5	-550.0	1,194.6	0.00	0.00	0.00
4,600.0	18.92	332.61	4,401.2	1,090.3	-564.9	1,227.0	0.00	0.00	0.00
4,700.0	18.92	332.61	4,495.8	1,119.1	-579.8	1,259.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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	18.92	332.61	4,590.4	1,147.9	-594.7	1,291.8	0.00	0.00	0.00
4,900.0	18.92	332.61	4,685.0	1,176.6	-609.6	1,324.2	0.00	0.00	0.00
5,000.0	18.92	332.61	4,779.6	1,205.4	-624.6	1,356.6	0.00	0.00	0.00
5,100.0	18.92	332.61	4,874.2	1,234.2	-639.5	1,389.0	0.00	0.00	0.00
5,200.0	18.92	332.61	4,968.8	1,263.0	-654.4	1,421.4	0.00	0.00	0.00
5,300.0	18.92	332.61	5,063.4	1,291.8	-669.3	1,453.8	0.00	0.00	0.00
5,400.0	18.92	332.61	5,158.0	1,320.6	-684.2	1,486.2	0.00	0.00	0.00
5,500.0	18.92	332.61	5,252.6	1,349.4	-699.1	1,518.6	0.00	0.00	0.00
5,600.0	18.92	332.61	5,347.2	1,378.1	-714.1	1,551.0	0.00	0.00	0.00
5,700.0	18.92	332.61	5,441.8	1,406.9	-729.0	1,583.4	0.00	0.00	0.00
5,800.0	18.92	332.61	5,536.4	1,435.7	-743.9	1,615.8	0.00	0.00	0.00
5,900.0	18.92	332.61	5,631.0	1,464.5	-758.8	1,648.2	0.00	0.00	0.00
6,000.0	18.92	332.61	5,725.6	1,493.3	-773.7	1,680.6	0.00	0.00	0.00
6,100.0	18.92	332.61	5,820.2	1,522.1	-788.6	1,713.0	0.00	0.00	0.00
6,200.0	18.92	332.61	5,914.8	1,550.9	-803.5	1,745.4	0.00	0.00	0.00
6,300.0	18.92	332.61	6,009.4	1,579.6	-818.5	1,777.8	0.00	0.00	0.00
6,400.0	18.92	332.61	6,104.0	1,608.4	-833.4	1,810.2	0.00	0.00	0.00
6,500.0	18.92	332.61	6,198.6	1,637.2	-848.3	1,842.5	0.00	0.00	0.00
6,600.0	18.92	332.61	6,293.2	1,666.0	-863.2	1,874.9	0.00	0.00	0.00
6,700.0	18.92	332.61	6,387.8	1,694.8	-878.1	1,907.3	0.00	0.00	0.00
Wasatch G									
6,752.0	18.92	332.61	6,437.0	1,709.8	-885.9	1,924.2	0.00	0.00	0.00
6,800.0	18.92	332.61	6,482.4	1,723.6	-893.0	1,939.7	0.00	0.00	0.00
6,900.0	18.92	332.61	6,577.0	1,752.4	-907.9	1,972.1	0.00	0.00	0.00
7,000.0	18.92	332.61	6,671.6	1,781.1	-922.9	2,004.5	0.00	0.00	0.00
Fort Union									
7,069.1	18.92	332.61	6,737.0	1,801.1	-933.2	2,026.9	0.00	0.00	0.00
7,100.0	18.92	332.61	6,766.2	1,809.9	-937.8	2,036.9	0.00	0.00	0.00
7,200.0	18.92	332.61	6,860.8	1,838.7	-952.7	2,069.3	0.00	0.00	0.00
7,300.0	18.92	332.61	6,955.4	1,867.5	-967.6	2,101.7	0.00	0.00	0.00
7,400.0	18.92	332.61	7,050.0	1,896.3	-982.5	2,134.1	0.00	0.00	0.00
7,500.0	18.92	332.61	7,144.6	1,925.1	-997.4	2,166.5	0.00	0.00	0.00
7,600.0	18.92	332.61	7,239.2	1,953.9	-1,012.3	2,198.9	0.00	0.00	0.00
7,700.0	18.92	332.61	7,333.8	1,982.6	-1,027.3	2,231.3	0.00	0.00	0.00
7,800.0	18.92	332.61	7,428.4	2,011.4	-1,042.2	2,263.7	0.00	0.00	0.00
7,900.0	18.92	332.61	7,523.0	2,040.2	-1,057.1	2,296.1	0.00	0.00	0.00
8,000.0	18.92	332.61	7,617.6	2,069.0	-1,072.0	2,328.5	0.00	0.00	0.00
8,100.0	18.92	332.61	7,712.2	2,097.8	-1,086.9	2,360.9	0.00	0.00	0.00
8,200.0	18.92	332.61	7,806.8	2,126.6	-1,101.8	2,393.3	0.00	0.00	0.00
8,300.0	18.92	332.61	7,901.4	2,155.4	-1,116.7	2,425.7	0.00	0.00	0.00
Drop 3° /100'									
8,355.4	18.92	332.61	7,953.8	2,171.3	-1,125.0	2,443.6	0.00	0.00	0.00
8,400.0	17.58	332.61	7,996.1	2,183.7	-1,131.4	2,457.6	3.00	-3.00	0.00
8,500.0	14.58	332.61	8,092.2	2,208.3	-1,144.2	2,485.2	3.00	-3.00	0.00
8,600.0	11.58	332.61	8,189.6	2,228.4	-1,154.6	2,507.9	3.00	-3.00	0.00
8,700.0	8.58	332.61	8,288.1	2,243.9	-1,162.6	2,525.3	3.00	-3.00	0.00
8,800.0	5.58	332.61	8,387.3	2,254.9	-1,168.3	2,537.7	3.00	-3.00	0.00
8,900.0	2.58	332.61	8,487.0	2,261.2	-1,171.6	2,544.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,986.0	0.00	0.00	8,573.0	2,262.9	-1,172.5	2,546.7	3.00	-3.00	0.00
9,000.0	0.21	250.00	8,587.0	2,262.9	-1,172.5	2,546.7	1.50	1.50	0.00
EOB @ 1.34° Inc. / 250.00° Azm									
9,075.2	1.34	250.00	8,662.2	2,262.6	-1,173.4	2,546.9	1.50	1.50	0.00
9,100.0	1.34	250.00	8,687.0	2,262.4	-1,174.0	2,547.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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	1.34	250.00	8,786.9	2,261.6	-1,176.2	2,547.4	0.00	0.00	0.00
9,300.0	1.34	250.00	8,886.9	2,260.8	-1,178.4	2,547.8	0.00	0.00	0.00
9,400.0	1.34	250.00	8,986.9	2,260.0	-1,180.6	2,548.1	0.00	0.00	0.00
9,500.0	1.34	250.00	9,086.9	2,259.2	-1,182.8	2,548.5	0.00	0.00	0.00
Williams Fork									
9,570.2	1.34	250.00	9,157.0	2,258.6	-1,184.3	2,548.8	0.00	0.00	0.00
9,600.0	1.34	250.00	9,186.8	2,258.4	-1,185.0	2,548.9	0.00	0.00	0.00
9,700.0	1.34	250.00	9,286.8	2,257.6	-1,187.1	2,549.3	0.00	0.00	0.00
9,800.0	1.34	250.00	9,386.8	2,256.8	-1,189.3	2,549.7	0.00	0.00	0.00
9,900.0	1.34	250.00	9,486.8	2,256.0	-1,191.5	2,550.1	0.00	0.00	0.00
10,000.0	1.34	250.00	9,586.7	2,255.2	-1,193.7	2,550.5	0.00	0.00	0.00
10,100.0	1.34	250.00	9,686.7	2,254.4	-1,195.9	2,550.9	0.00	0.00	0.00
10,200.0	1.34	250.00	9,786.7	2,253.6	-1,198.1	2,551.3	0.00	0.00	0.00
10,300.0	1.34	250.00	9,886.6	2,252.8	-1,200.3	2,551.7	0.00	0.00	0.00
10,400.0	1.34	250.00	9,986.6	2,252.0	-1,202.5	2,552.0	0.00	0.00	0.00
10,500.0	1.34	250.00	10,086.6	2,251.2	-1,204.7	2,552.4	0.00	0.00	0.00
10,600.0	1.34	250.00	10,186.6	2,250.4	-1,206.9	2,552.8	0.00	0.00	0.00
10,700.0	1.34	250.00	10,286.5	2,249.6	-1,209.1	2,553.2	0.00	0.00	0.00
10,800.0	1.34	250.00	10,386.5	2,248.8	-1,211.3	2,553.6	0.00	0.00	0.00
10,900.0	1.34	250.00	10,486.5	2,248.0	-1,213.5	2,554.0	0.00	0.00	0.00
11,000.0	1.34	250.00	10,586.5	2,247.2	-1,215.7	2,554.4	0.00	0.00	0.00
11,100.0	1.34	250.00	10,686.4	2,246.4	-1,217.9	2,554.8	0.00	0.00	0.00
11,200.0	1.34	250.00	10,786.4	2,245.6	-1,220.0	2,555.2	0.00	0.00	0.00
11,300.0	1.34	250.00	10,886.4	2,244.8	-1,222.2	2,555.5	0.00	0.00	0.00
11,400.0	1.34	250.00	10,986.3	2,244.0	-1,224.4	2,555.9	0.00	0.00	0.00
11,500.0	1.34	250.00	11,086.3	2,243.2	-1,226.6	2,556.3	0.00	0.00	0.00
11,600.0	1.34	250.00	11,186.3	2,242.4	-1,228.8	2,556.7	0.00	0.00	0.00
11,700.0	1.34	250.00	11,286.3	2,241.6	-1,231.0	2,557.1	0.00	0.00	0.00
11,800.0	1.34	250.00	11,386.2	2,240.8	-1,233.2	2,557.5	0.00	0.00	0.00
11,900.0	1.34	250.00	11,486.2	2,240.0	-1,235.4	2,557.9	0.00	0.00	0.00
12,000.0	1.34	250.00	11,586.2	2,239.2	-1,237.6	2,558.3	0.00	0.00	0.00
12,100.0	1.34	250.00	11,686.2	2,238.4	-1,239.8	2,558.7	0.00	0.00	0.00
12,200.0	1.34	250.00	11,786.1	2,237.6	-1,242.0	2,559.1	0.00	0.00	0.00
12,300.0	1.34	250.00	11,886.1	2,236.8	-1,244.2	2,559.4	0.00	0.00	0.00
12,400.0	1.34	250.00	11,986.1	2,236.0	-1,246.4	2,559.8	0.00	0.00	0.00
Cameo									
12,434.9	1.34	250.00	12,021.0	2,235.7	-1,247.1	2,560.0	0.00	0.00	0.00
12,500.0	1.34	250.00	12,086.0	2,235.2	-1,248.6	2,560.2	0.00	0.00	0.00
12,600.0	1.34	250.00	12,186.0	2,234.4	-1,250.8	2,560.6	0.00	0.00	0.00
12,700.0	1.34	250.00	12,286.0	2,233.6	-1,252.9	2,561.0	0.00	0.00	0.00
12,800.0	1.34	250.00	12,386.0	2,232.8	-1,255.1	2,561.4	0.00	0.00	0.00
Rollins									
12,815.0	1.34	250.00	12,401.0	2,232.7	-1,255.5	2,561.4	0.00	0.00	0.00
12,900.0	1.34	250.00	12,485.9	2,232.0	-1,257.3	2,561.8	0.00	0.00	0.00
13,000.0	1.34	250.00	12,585.9	2,231.2	-1,259.5	2,562.2	0.00	0.00	0.00
13,100.0	1.34	250.00	12,685.9	2,230.4	-1,261.7	2,562.6	0.00	0.00	0.00
13,200.0	1.34	250.00	12,785.9	2,229.6	-1,263.9	2,562.9	0.00	0.00	0.00
13,300.0	1.34	250.00	12,885.8	2,228.8	-1,266.1	2,563.3	0.00	0.00	0.00
TD @ 13315.2' MD / 12901.0' TVD									
13,315.2	1.34	250.00	12,901.0	2,228.7	-1,266.4	2,563.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU O13 FED 12C-13 496 - Slot 12C-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 12C-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 - 12C-13	0.00	0.00	8,573.0	2,262.9	-1,172.5	14,431,623.01	2,450,837.62	39.704924	-108.118832
- plan hits target center									
- Point									
PBHL - 12C-13	0.00	0.00	12,901.0	2,228.7	-1,266.4	14,431,585.80	2,450,744.80	39.704830	-108.119165
- 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 (°)
4,215.0	4,037.0	Wasatch			
6,752.0	6,437.0	Wasatch G			
7,069.1	6,737.0	Fort Union			
8,986.0	8,573.0	Ohio Creek			
9,570.2	9,157.0	Williams Fork			
12,434.9	12,021.0	Cameo			
12,815.0	12,401.0	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'
1,130.6	1,119.2	91.6	-47.5	EOB @ 18.92° Inc. / 332.61° Azm
8,355.4	7,953.8	2,171.3	-1,125.0	Drop 3° / 100'
8,986.0	8,573.0	2,262.9	-1,172.5	EOD @ Vertical / Build 1.5° / 100'
9,075.2	8,662.2	2,262.6	-1,173.4	EOB @ 1.34° Inc. / 250.00° Azm
13,315.2	12,901.0	2,228.7	-1,266.4	TD @ 13315.2' MD / 12901.0' TVD