

Project: Rio Blanco County, CO
 Site: ELU J14 496 Pad
 Well: ELU J14 FED 14A-14 496
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.700792
 Longitude: -108.135854
 Ground Level: 7902.0
 RKB @ 7932.0usft (H&P #330)

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
 Co-ordinate (N/E) Reference: Well ELU J14 FED 14A-14 496 - Slot 14A-14, True North
 Vertical (TVD) Reference: RKB @ 7932.0usft (H&P #330)
 Section (VS) Reference: Slot - 14A-14(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 7932.0usft (H&P #330)
 Calculation Method: Minimum Curvature

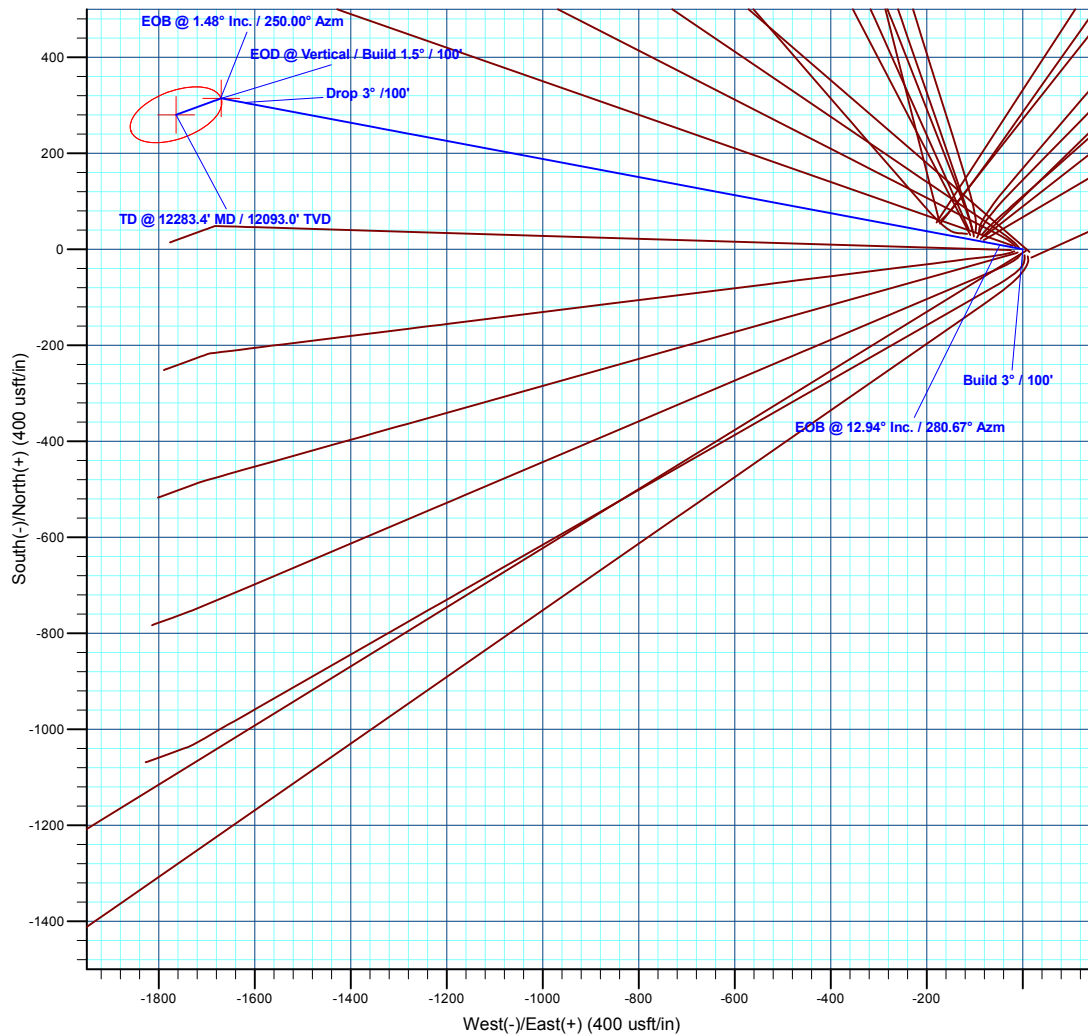
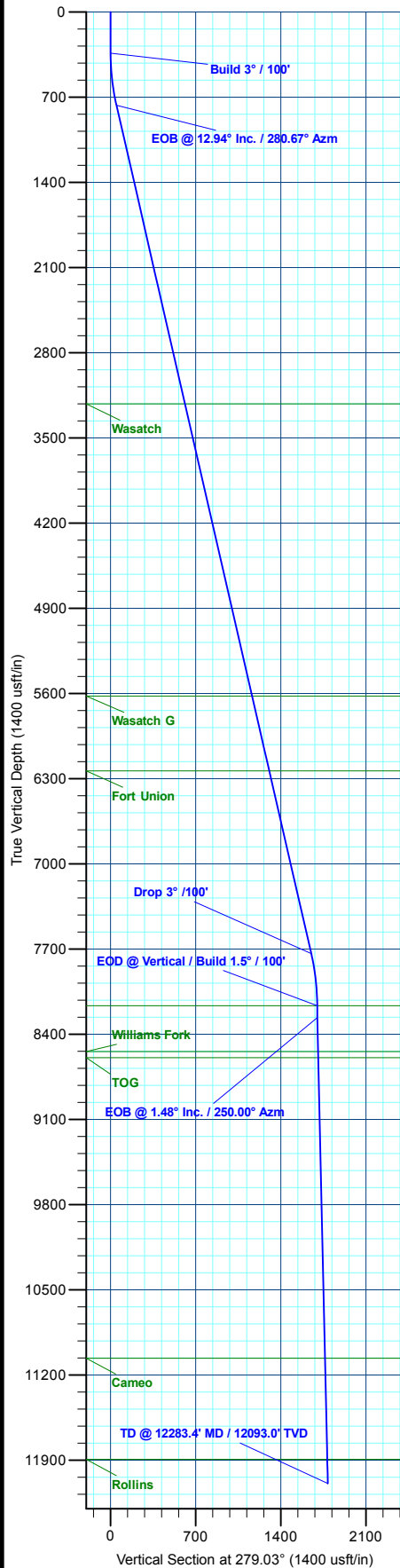
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
340.0	0.00	0.00	340.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
771.5	12.94	280.67	767.8	9.0	-47.7	3.00	280.67	48.5	EOB @ 12.94° Inc. / 280.67° Azm
7924.6	12.94	280.67	7739.2	305.6	-1622.3	0.00	0.00	1650.1	Drop 3° / 100'
8356.1	0.00	0.00	8167.0	314.6	-1670.0	3.00	180.00	1698.7	EOD @ Vertical / Build 1.5° / 100'
8454.6	1.48	250.00	8265.5	314.2	-1671.2	1.50	250.00	1699.8	EOB @ 1.48° Inc. / 250.00° Azm
12283.4	1.48	250.00	12093.0	280.4	-1763.9	0.00	0.00	1786.1	TD @ 12283.4' MD / 12093.0' TVD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
14A-14 - OHCR	8167.0	314.6	-1670.0	14430225.79	2444417.63	39.701655	-108.141787
14A-14 - PBHL	12093.0	280.4	-1763.9	14430188.60	2444324.80	39.701561	-108.142121

FORMATION TOP DETAILS		
TVDPPath	MDPath	Formation
3221.0	3288.6	Wasatch
5621.0	5751.2	Wasatch G
6236.0	6382.2	Fort Union
8167.0	8356.1	Ohio Creek
8544.0	8733.2	Williams Fork
8594.0	8783.2	TOG
11063.0	11253.0	Cameo
11893.0	12083.3	Rollins

WELL DETAILS: ELU J14 FED 14A-14 496						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	14A-14
0.0	0.0	14429964.70	2446096.80	39.700792	-108.135854	

Azimuths to True North
 Magnetic North: 9.37°
 Magnetic Field Strength: 51121.0nT
 Dip Angle: 65.80°
 Date: 12/29/2020
 Model: HDGM2020



Plan: Design #1 (ELU J14 FED 14A-14 496/Wellbore #1)
 Created By: Will Jircik Date: 8:28, January 11 2021



Caerus Oil & Gas

Rio Blanco County, CO

ELU J14 496 Pad

ELU J14 FED 14A-14 496 - Slot 14A-14

Wellbore #1

Plan: Design #1

QES Well Planning Report

08 January, 2021



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 14A-14 496 - Slot 14A-14
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.0usft (H&P #330)
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 7932.0usft (H&P #330)
Site:	ELU J14 496 Pad	North Reference:	True
Well:	ELU J14 FED 14A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 J14 496 Pad				
Site Position:		Northing:	14,429,993.30 usft	Latitude:	39.700881
From:	Map	Easting:	2,445,979.90 usft	Longitude:	-108.136266
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.83 °

Well	ELU J14 FED 14A-14 496 - Slot 14A-14					
Well Position	+N/-S	-32.3 usft	Northing:	14,429,964.70 usft	Latitude:	39.700792
	+E/-W	115.9 usft	Easting:	2,446,096.80 usft	Longitude:	-108.135854
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	7,902.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	12/29/2020	9.37	65.80	51,121.00000000

Design	Design #1			
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	279.03

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	
340.0	0.00	0.00	340.0	0.0	0.0	0.00	0.00	0.00	0.00	
771.5	12.94	280.67	767.8	9.0	-47.7	3.00	3.00	0.00	280.67	
7,924.6	12.94	280.67	7,739.2	305.6	-1,622.3	0.00	0.00	0.00	0.00	
8,356.1	0.00	0.00	8,167.0	314.6	-1,670.0	3.00	-3.00	0.00	180.00	14A-14 - OHCR
8,454.6	1.48	250.00	8,265.5	314.2	-1,671.2	1.50	1.50	-111.67	250.00	
12,283.4	1.48	250.00	12,093.0	280.4	-1,763.9	0.00	0.00	0.00	0.00	14A-14 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 14A-14 496 - Slot 14A-14
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.0usft (H&P #330)
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 7932.0usft (H&P #330)
Site:	ELU J14 496 Pad	North Reference:	True
Well:	ELU J14 FED 14A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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'									
340.0	0.00	0.00	340.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.80	280.67	400.0	0.2	-0.9	0.9	3.00	3.00	0.00
500.0	4.80	280.67	499.8	1.2	-6.6	6.7	3.00	3.00	0.00
600.0	7.80	280.67	599.2	3.3	-17.4	17.7	3.00	3.00	0.00
700.0	10.80	280.67	697.9	6.3	-33.2	33.8	3.00	3.00	0.00
EOB @ 12.94° Inc. / 280.67° Azm									
771.5	12.94	280.67	767.8	9.0	-47.7	48.5	3.00	3.00	0.00
800.0	12.94	280.67	795.6	10.2	-54.0	54.9	0.00	0.00	0.00
900.0	12.94	280.67	893.1	14.3	-76.0	77.3	0.00	0.00	0.00
1,000.0	12.94	280.67	990.5	18.5	-98.0	99.7	0.00	0.00	0.00
1,100.0	12.94	280.67	1,088.0	22.6	-120.0	122.1	0.00	0.00	0.00
1,200.0	12.94	280.67	1,185.5	26.8	-142.0	144.5	0.00	0.00	0.00
1,300.0	12.94	280.67	1,282.9	30.9	-164.0	166.9	0.00	0.00	0.00
1,400.0	12.94	280.67	1,380.4	35.0	-186.0	189.2	0.00	0.00	0.00
1,500.0	12.94	280.67	1,477.8	39.2	-208.1	211.6	0.00	0.00	0.00
1,600.0	12.94	280.67	1,575.3	43.3	-230.1	234.0	0.00	0.00	0.00
1,700.0	12.94	280.67	1,672.7	47.5	-252.1	256.4	0.00	0.00	0.00
1,800.0	12.94	280.67	1,770.2	51.6	-274.1	278.8	0.00	0.00	0.00
1,900.0	12.94	280.67	1,867.7	55.8	-296.1	301.2	0.00	0.00	0.00
2,000.0	12.94	280.67	1,965.1	59.9	-318.1	323.6	0.00	0.00	0.00
2,100.0	12.94	280.67	2,062.6	64.1	-340.1	346.0	0.00	0.00	0.00
2,200.0	12.94	280.67	2,160.0	68.2	-362.1	368.4	0.00	0.00	0.00
2,300.0	12.94	280.67	2,257.5	72.4	-384.2	390.8	0.00	0.00	0.00
2,400.0	12.94	280.67	2,355.0	76.5	-406.2	413.1	0.00	0.00	0.00
2,500.0	12.94	280.67	2,452.4	80.7	-428.2	435.5	0.00	0.00	0.00
2,600.0	12.94	280.67	2,549.9	84.8	-450.2	457.9	0.00	0.00	0.00
2,700.0	12.94	280.67	2,647.3	89.0	-472.2	480.3	0.00	0.00	0.00
2,800.0	12.94	280.67	2,744.8	93.1	-494.2	502.7	0.00	0.00	0.00
2,900.0	12.94	280.67	2,842.3	97.3	-516.2	525.1	0.00	0.00	0.00
3,000.0	12.94	280.67	2,939.7	101.4	-538.2	547.5	0.00	0.00	0.00
3,100.0	12.94	280.67	3,037.2	105.5	-560.3	569.9	0.00	0.00	0.00
3,200.0	12.94	280.67	3,134.6	109.7	-582.3	592.3	0.00	0.00	0.00
Wasatch									
3,288.6	12.94	280.67	3,221.0	113.4	-601.8	612.1	0.00	0.00	0.00
3,300.0	12.94	280.67	3,232.1	113.8	-604.3	614.7	0.00	0.00	0.00
3,400.0	12.94	280.67	3,329.5	118.0	-626.3	637.1	0.00	0.00	0.00
3,500.0	12.94	280.67	3,427.0	122.1	-648.3	659.4	0.00	0.00	0.00
3,600.0	12.94	280.67	3,524.5	126.3	-670.3	681.8	0.00	0.00	0.00
3,700.0	12.94	280.67	3,621.9	130.4	-692.3	704.2	0.00	0.00	0.00
3,800.0	12.94	280.67	3,719.4	134.6	-714.3	726.6	0.00	0.00	0.00
3,900.0	12.94	280.67	3,816.8	138.7	-736.4	749.0	0.00	0.00	0.00
4,000.0	12.94	280.67	3,914.3	142.9	-758.4	771.4	0.00	0.00	0.00
4,100.0	12.94	280.67	4,011.8	147.0	-780.4	793.8	0.00	0.00	0.00
4,200.0	12.94	280.67	4,109.2	151.2	-802.4	816.2	0.00	0.00	0.00
4,300.0	12.94	280.67	4,206.7	155.3	-824.4	838.6	0.00	0.00	0.00
4,400.0	12.94	280.67	4,304.1	159.5	-846.4	861.0	0.00	0.00	0.00
4,500.0	12.94	280.67	4,401.6	163.6	-868.4	883.4	0.00	0.00	0.00
4,600.0	12.94	280.67	4,499.1	167.7	-890.4	905.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 14A-14 496 - Slot 14A-14
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.0usft (H&P #330)
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 7932.0usft (H&P #330)
Site:	ELU J14 496 Pad	North Reference:	True
Well:	ELU J14 FED 14A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	12.94	280.67	4,596.5	171.9	-912.5	928.1	0.00	0.00	0.00
4,800.0	12.94	280.67	4,694.0	176.0	-934.5	950.5	0.00	0.00	0.00
4,900.0	12.94	280.67	4,791.4	180.2	-956.5	972.9	0.00	0.00	0.00
5,000.0	12.94	280.67	4,888.9	184.3	-978.5	995.3	0.00	0.00	0.00
5,100.0	12.94	280.67	4,986.4	188.5	-1,000.5	1,017.7	0.00	0.00	0.00
5,200.0	12.94	280.67	5,083.8	192.6	-1,022.5	1,040.1	0.00	0.00	0.00
5,300.0	12.94	280.67	5,181.3	196.8	-1,044.5	1,062.5	0.00	0.00	0.00
5,400.0	12.94	280.67	5,278.7	200.9	-1,066.5	1,084.9	0.00	0.00	0.00
5,500.0	12.94	280.67	5,376.2	205.1	-1,088.6	1,107.3	0.00	0.00	0.00
5,600.0	12.94	280.67	5,473.6	209.2	-1,110.6	1,129.6	0.00	0.00	0.00
5,700.0	12.94	280.67	5,571.1	213.4	-1,132.6	1,152.0	0.00	0.00	0.00
Wasatch G									
5,751.2	12.94	280.67	5,621.0	215.5	-1,143.9	1,163.5	0.00	0.00	0.00
5,800.0	12.94	280.67	5,668.6	217.5	-1,154.6	1,174.4	0.00	0.00	0.00
5,900.0	12.94	280.67	5,766.0	221.7	-1,176.6	1,196.8	0.00	0.00	0.00
6,000.0	12.94	280.67	5,863.5	225.8	-1,198.6	1,219.2	0.00	0.00	0.00
6,100.0	12.94	280.67	5,960.9	229.9	-1,220.6	1,241.6	0.00	0.00	0.00
6,200.0	12.94	280.67	6,058.4	234.1	-1,242.6	1,264.0	0.00	0.00	0.00
6,300.0	12.94	280.67	6,155.9	238.2	-1,264.7	1,286.4	0.00	0.00	0.00
Fort Union									
6,382.2	12.94	280.67	6,236.0	241.7	-1,282.8	1,304.8	0.00	0.00	0.00
6,400.0	12.94	280.67	6,253.3	242.4	-1,286.7	1,308.8	0.00	0.00	0.00
6,500.0	12.94	280.67	6,350.8	246.5	-1,308.7	1,331.2	0.00	0.00	0.00
6,600.0	12.94	280.67	6,448.2	250.7	-1,330.7	1,353.6	0.00	0.00	0.00
6,700.0	12.94	280.67	6,545.7	254.8	-1,352.7	1,375.9	0.00	0.00	0.00
6,800.0	12.94	280.67	6,643.2	259.0	-1,374.7	1,398.3	0.00	0.00	0.00
6,900.0	12.94	280.67	6,740.6	263.1	-1,396.7	1,420.7	0.00	0.00	0.00
7,000.0	12.94	280.67	6,838.1	267.3	-1,418.8	1,443.1	0.00	0.00	0.00
7,100.0	12.94	280.67	6,935.5	271.4	-1,440.8	1,465.5	0.00	0.00	0.00
7,200.0	12.94	280.67	7,033.0	275.6	-1,462.8	1,487.9	0.00	0.00	0.00
7,300.0	12.94	280.67	7,130.4	279.7	-1,484.8	1,510.3	0.00	0.00	0.00
7,400.0	12.94	280.67	7,227.9	283.9	-1,506.8	1,532.7	0.00	0.00	0.00
7,500.0	12.94	280.67	7,325.4	288.0	-1,528.8	1,555.1	0.00	0.00	0.00
7,600.0	12.94	280.67	7,422.8	292.2	-1,550.8	1,577.5	0.00	0.00	0.00
7,700.0	12.94	280.67	7,520.3	296.3	-1,572.8	1,599.9	0.00	0.00	0.00
7,800.0	12.94	280.67	7,617.7	300.4	-1,594.9	1,622.2	0.00	0.00	0.00
7,900.0	12.94	280.67	7,715.2	304.6	-1,616.9	1,644.6	0.00	0.00	0.00
Drop 3° /100'									
7,924.6	12.94	280.67	7,739.2	305.6	-1,622.3	1,650.1	0.00	0.00	0.00
8,000.0	10.68	280.67	7,813.0	308.5	-1,637.4	1,665.6	3.00	-3.00	0.00
8,100.0	7.68	280.67	7,911.7	311.4	-1,653.1	1,681.5	3.00	-3.00	0.00
8,200.0	4.68	280.67	8,011.1	313.4	-1,663.7	1,692.3	3.00	-3.00	0.00
8,300.0	1.68	280.67	8,110.9	314.4	-1,669.2	1,697.8	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,356.1	0.00	0.00	8,167.0	314.6	-1,670.0	1,698.7	3.00	-3.00	0.00
8,400.0	0.66	250.00	8,210.9	314.5	-1,670.2	1,698.9	1.50	1.50	0.00
EOB @ 1.48° Inc. / 250.00° Azm									
8,454.6	1.48	250.00	8,265.5	314.2	-1,671.2	1,699.8	1.50	1.50	0.00
8,500.0	1.48	250.00	8,310.9	313.8	-1,672.3	1,700.8	0.00	0.00	0.00
8,600.0	1.48	250.00	8,410.9	312.9	-1,674.7	1,703.0	0.00	0.00	0.00
8,700.0	1.48	250.00	8,510.8	312.0	-1,677.1	1,705.3	0.00	0.00	0.00
Williams Fork									
8,733.2	1.48	250.00	8,544.0	311.7	-1,677.9	1,706.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 14A-14 496 - Slot 14A-14
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.0usft (H&P #330)
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 7932.0usft (H&P #330)
Site:	ELU J14 496 Pad	North Reference:	True
Well:	ELU J14 FED 14A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
TOG										
8,783.2	1.48	250.00	8,594.0	311.3	-1,679.1	1,707.2	0.00	0.00	0.00	
8,800.0	1.48	250.00	8,610.8	311.1	-1,679.5	1,707.6	0.00	0.00	0.00	
8,900.0	1.48	250.00	8,710.8	310.2	-1,682.0	1,709.8	0.00	0.00	0.00	
9,000.0	1.48	250.00	8,810.7	309.4	-1,684.4	1,712.1	0.00	0.00	0.00	
9,100.0	1.48	250.00	8,910.7	308.5	-1,686.8	1,714.3	0.00	0.00	0.00	
9,200.0	1.48	250.00	9,010.7	307.6	-1,689.2	1,716.6	0.00	0.00	0.00	
9,300.0	1.48	250.00	9,110.6	306.7	-1,691.7	1,718.8	0.00	0.00	0.00	
9,400.0	1.48	250.00	9,210.6	305.8	-1,694.1	1,721.1	0.00	0.00	0.00	
9,500.0	1.48	250.00	9,310.6	304.9	-1,696.5	1,723.3	0.00	0.00	0.00	
9,600.0	1.48	250.00	9,410.5	304.1	-1,698.9	1,725.6	0.00	0.00	0.00	
9,700.0	1.48	250.00	9,510.5	303.2	-1,701.3	1,727.8	0.00	0.00	0.00	
9,800.0	1.48	250.00	9,610.5	302.3	-1,703.8	1,730.1	0.00	0.00	0.00	
9,900.0	1.48	250.00	9,710.4	301.4	-1,706.2	1,732.4	0.00	0.00	0.00	
10,000.0	1.48	250.00	9,810.4	300.5	-1,708.6	1,734.6	0.00	0.00	0.00	
10,100.0	1.48	250.00	9,910.4	299.6	-1,711.0	1,736.9	0.00	0.00	0.00	
10,200.0	1.48	250.00	10,010.3	298.8	-1,713.5	1,739.1	0.00	0.00	0.00	
10,300.0	1.48	250.00	10,110.3	297.9	-1,715.9	1,741.4	0.00	0.00	0.00	
10,400.0	1.48	250.00	10,210.3	297.0	-1,718.3	1,743.6	0.00	0.00	0.00	
10,500.0	1.48	250.00	10,310.2	296.1	-1,720.7	1,745.9	0.00	0.00	0.00	
10,600.0	1.48	250.00	10,410.2	295.2	-1,723.2	1,748.1	0.00	0.00	0.00	
10,700.0	1.48	250.00	10,510.2	294.4	-1,725.6	1,750.4	0.00	0.00	0.00	
10,800.0	1.48	250.00	10,610.1	293.5	-1,728.0	1,752.6	0.00	0.00	0.00	
10,900.0	1.48	250.00	10,710.1	292.6	-1,730.4	1,754.9	0.00	0.00	0.00	
11,000.0	1.48	250.00	10,810.1	291.7	-1,732.8	1,757.2	0.00	0.00	0.00	
11,100.0	1.48	250.00	10,910.0	290.8	-1,735.3	1,759.4	0.00	0.00	0.00	
11,200.0	1.48	250.00	11,010.0	289.9	-1,737.7	1,761.7	0.00	0.00	0.00	
Cameo										
11,253.0	1.48	250.00	11,063.0	289.5	-1,739.0	1,762.9	0.00	0.00	0.00	
11,300.0	1.48	250.00	11,110.0	289.1	-1,740.1	1,763.9	0.00	0.00	0.00	
11,400.0	1.48	250.00	11,209.9	288.2	-1,742.5	1,766.2	0.00	0.00	0.00	
11,500.0	1.48	250.00	11,309.9	287.3	-1,745.0	1,768.4	0.00	0.00	0.00	
11,600.0	1.48	250.00	11,409.9	286.4	-1,747.4	1,770.7	0.00	0.00	0.00	
11,700.0	1.48	250.00	11,509.8	285.5	-1,749.8	1,772.9	0.00	0.00	0.00	
11,800.0	1.48	250.00	11,609.8	284.7	-1,752.2	1,775.2	0.00	0.00	0.00	
11,900.0	1.48	250.00	11,709.8	283.8	-1,754.7	1,777.4	0.00	0.00	0.00	
12,000.0	1.48	250.00	11,809.7	282.9	-1,757.1	1,779.7	0.00	0.00	0.00	
Rollins										
12,083.3	1.48	250.00	11,893.0	282.2	-1,759.1	1,781.6	0.00	0.00	0.00	
12,100.0	1.48	250.00	11,909.7	282.0	-1,759.5	1,782.0	0.00	0.00	0.00	
12,200.0	1.48	250.00	12,009.7	281.1	-1,761.9	1,784.2	0.00	0.00	0.00	
TD @ 12283.4' MD / 12093.0' TVD										
12,283.4	1.48	250.00	12,093.0	280.4	-1,763.9	1,786.1	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 14A-14 496 - Slot 14A-14
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.0usft (H&P #330)
Project:	Rio Blanco County, CO	MD Reference:	RKB @ 7932.0usft (H&P #330)
Site:	ELU J14 496 Pad	North Reference:	True
Well:	ELU J14 FED 14A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
14A-14 - OHCR - hit/miss target center - Point	0.00	0.00	8,167.0	314.6	-1,670.0	14,430,225.79	2,444,417.63	39.701655	-108.141787
14A-14 - PBHL - plan hits target center - Ellipse (radii L100.0 W50.0 on 250.00 azi)	0.00	0.00	12,093.0	280.4	-1,763.9	14,430,188.60	2,444,324.80	39.701561	-108.142121

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,288.6	3,221.0	Wasatch				
5,751.2	5,621.0	Wasatch G				
6,382.2	6,236.0	Fort Union				
8,356.1	8,167.0	Ohio Creek				
8,733.2	8,544.0	Williams Fork				
8,783.2	8,594.0	TOG				
11,253.0	11,063.0	Cameo				
12,083.3	11,893.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
340.0	340.0	0.0	0.0	Build 3° / 100'	
771.5	767.8	9.0	-47.7	EOB @ 12.94° Inc. / 280.67° Azm	
7,924.6	7,739.2	305.6	-1,622.3	Drop 3° / 100'	
8,356.1	8,167.0	314.6	-1,670.0	EOD @ Vertical / Build 1.5° / 100'	
8,454.6	8,265.5	314.2	-1,671.2	EOB @ 1.48° Inc. / 250.00° Azm	
12,283.4	12,093.0	280.4	-1,763.9	TD @ 12283.4' MD / 12093.0' TVD	