

Project: Rio Blanco County, CO
 Site: ELU J14 496 Pad
 Well: ELU J14 FED 13D-14 496
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.700814
 Longitude: -108.135929
 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 13D-14 496 - Slot 13D-14, True North
 Vertical (TVD) Reference: RKB @ 7932.0usft (H&P #330)
 Section (VS) Reference: Slot - 13D-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	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	Build 3° / 100'
631.5	12.95	289.28	627.9	16.0	-45.8	3.00	289.28	48.5	Start 7306.0 hold at 631.5 MD
7937.5	12.95	289.28	7748.1	556.5	-1590.7	0.00	0.00	1684.2	Drop 3° / 100'
8369.0	0.00	0.00	8176.0	572.6	-1636.5	3.00	180.00	1732.7	EOD @ Vertical / Build 1.5° / 100'
8467.4	1.48	250.00	8274.4	572.1	-1637.7	1.50	250.00	1733.7	EOB @ 1.48° Inc. / 250.00° Azm
12300.3	1.48	250.00	12106.0	538.4	-1730.5	0.00	0.00	1812.3	TD @ 12300.3' MD / 12106.0' TVD

DESIGN TARGET DETAILS

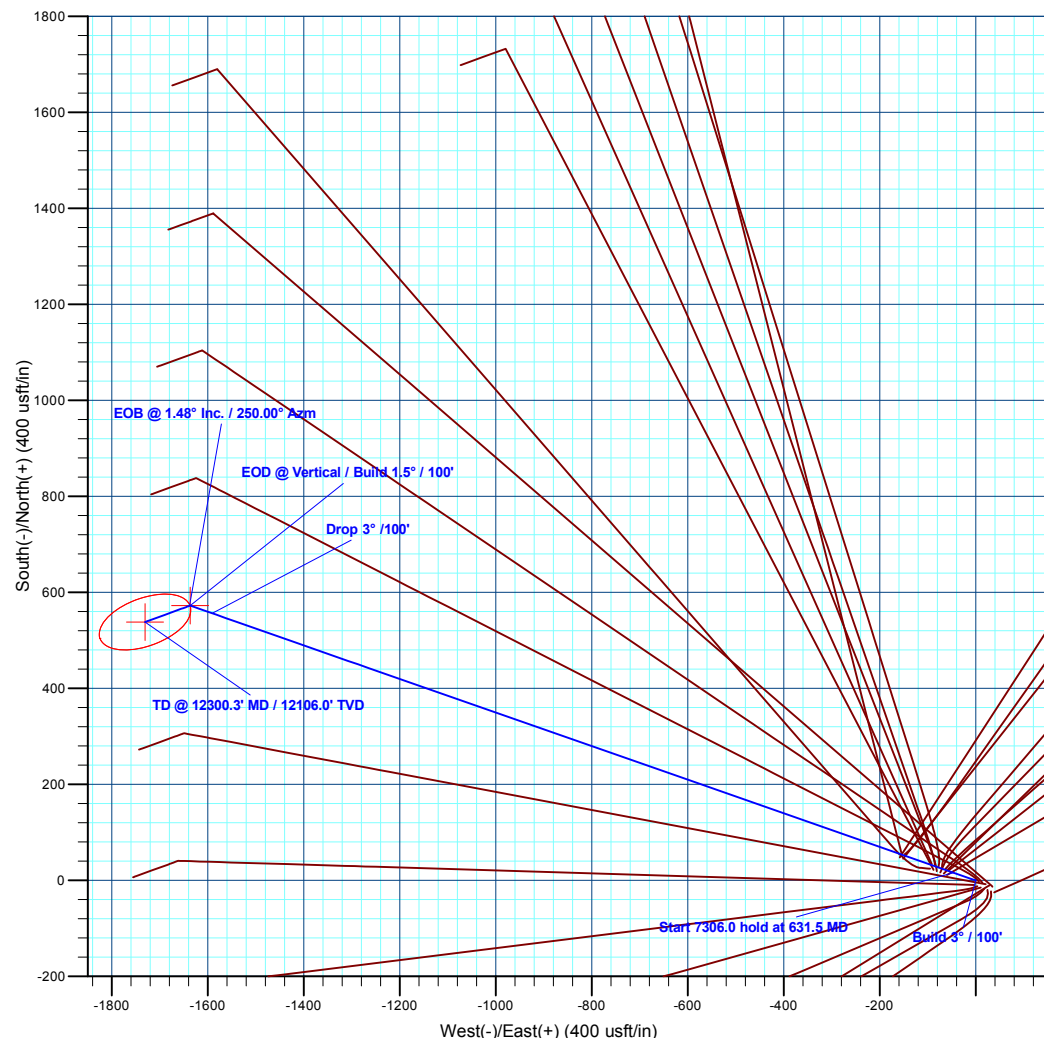
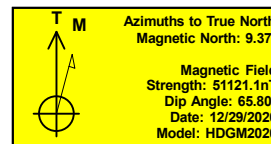
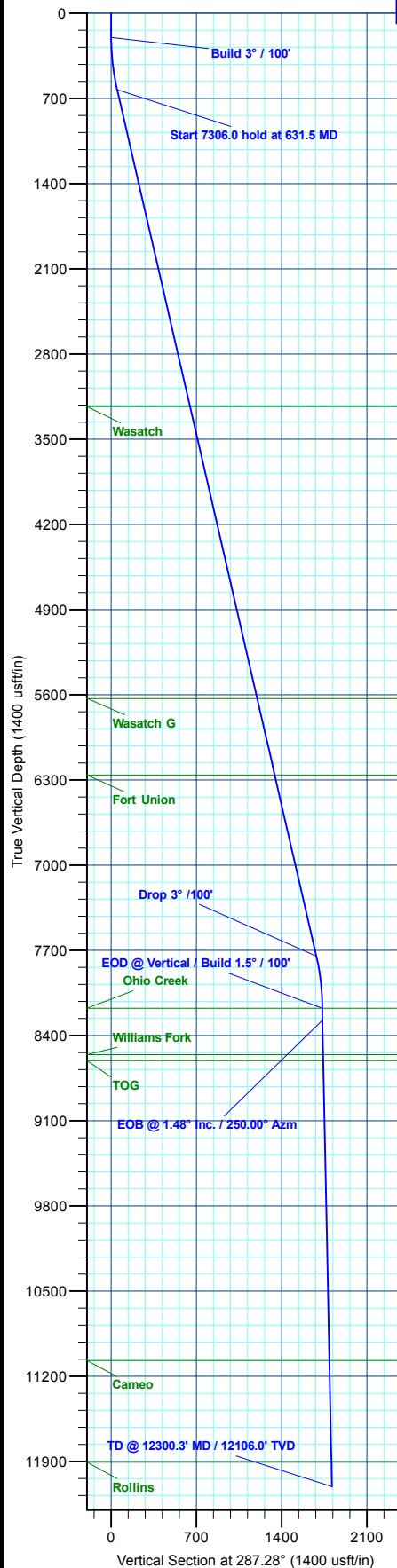
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
13D-14 - OHCR	8176.0	572.6	-1636.5	14430491.89	2444421.53	39.702385	-108.141743
13D-14 - PBHL	12106.0	538.4	-1730.5	14430454.70	2444328.70	39.702291	-108.142077

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
3232.0	3303.6	Wasatch
5632.0	5766.2	Wasatch G
6260.0	6410.5	Fort Union
8176.0	8369.0	Ohio Creek
8557.0	8750.1	Williams Fork
8607.0	8800.1	TOG
11071.0	11265.0	Cameo
11906.0	12100.2	Rollins

WELL DETAILS: ELU J14 FED 13D-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14429971.90	2446075.50	39.700814	-108.135929



Plan: Design #1 (ELU J14 FED 13D-14 496/Wellbore #1)

Created By: Will Jircik

Date: 8:25, January 11 2021



Caerus Oil & Gas

Rio Blanco County, CO

ELU J14 496 Pad

ELU J14 FED 13D-14 496 - Slot 13D-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 13D-14 496 - Slot 13D-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 13D-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 13D-14 496 - Slot 13D-14					
Well Position	+N/-S	-24.4 usft	Northing:	14,429,971.90 usft	Latitude:	39.700814
	+E/-W	94.9 usft	Easting:	2,446,075.50 usft	Longitude:	-108.135929
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	51,121.10000000

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	287.28

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
631.5	12.95	289.28	627.9	16.0	-45.8	3.00	3.00	0.00	289.28	
7,937.5	12.95	289.28	7,748.1	556.5	-1,590.7	0.00	0.00	0.00	0.00	
8,369.0	0.00	0.00	8,176.0	572.6	-1,636.5	3.00	-3.00	0.00	180.00	13D-14 - OHCR
8,467.4	1.48	250.00	8,274.4	572.1	-1,637.7	1.50	1.50	-111.78	250.00	
12,300.3	1.48	250.00	12,106.0	538.4	-1,730.5	0.00	0.00	0.00	0.00	13D-14 - PBHL

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 13D-14 496 - Slot 13D-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 13D-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
Build 3° / 100'									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	3.00	289.28	300.0	0.9	-2.5	2.6	3.00	3.00	0.00
400.0	6.00	289.28	399.6	3.5	-9.9	10.5	3.00	3.00	0.00
500.0	9.00	289.28	498.8	7.8	-22.2	23.5	3.00	3.00	0.00
600.0	12.00	289.28	597.1	13.8	-39.4	41.7	3.00	3.00	0.00
Start 7306.0 hold at 631.5 MD									
631.5	12.95	289.28	627.9	16.0	-45.8	48.5	3.00	3.00	0.00
700.0	12.95	289.28	694.6	21.1	-60.3	63.8	0.00	0.00	0.00
800.0	12.95	289.28	792.1	28.5	-81.4	86.2	0.00	0.00	0.00
900.0	12.95	289.28	889.5	35.9	-102.6	108.6	0.00	0.00	0.00
1,000.0	12.95	289.28	987.0	43.3	-123.7	131.0	0.00	0.00	0.00
1,100.0	12.95	289.28	1,084.4	50.7	-144.9	153.4	0.00	0.00	0.00
1,200.0	12.95	289.28	1,181.9	58.1	-166.0	175.8	0.00	0.00	0.00
1,300.0	12.95	289.28	1,279.3	65.5	-187.2	198.2	0.00	0.00	0.00
1,400.0	12.95	289.28	1,376.8	72.9	-208.3	220.6	0.00	0.00	0.00
1,500.0	12.95	289.28	1,474.3	80.3	-229.5	243.0	0.00	0.00	0.00
1,600.0	12.95	289.28	1,571.7	87.7	-250.6	265.3	0.00	0.00	0.00
1,700.0	12.95	289.28	1,669.2	95.1	-271.8	287.7	0.00	0.00	0.00
1,800.0	12.95	289.28	1,766.6	102.5	-292.9	310.1	0.00	0.00	0.00
1,900.0	12.95	289.28	1,864.1	109.9	-314.0	332.5	0.00	0.00	0.00
2,000.0	12.95	289.28	1,961.6	117.3	-335.2	354.9	0.00	0.00	0.00
2,100.0	12.95	289.28	2,059.0	124.7	-356.3	377.3	0.00	0.00	0.00
2,200.0	12.95	289.28	2,156.5	132.1	-377.5	399.7	0.00	0.00	0.00
2,300.0	12.95	289.28	2,253.9	139.5	-398.6	422.1	0.00	0.00	0.00
2,400.0	12.95	289.28	2,351.4	146.9	-419.8	444.4	0.00	0.00	0.00
2,500.0	12.95	289.28	2,448.8	154.3	-440.9	466.8	0.00	0.00	0.00
2,600.0	12.95	289.28	2,546.3	161.7	-462.1	489.2	0.00	0.00	0.00
2,700.0	12.95	289.28	2,643.8	169.1	-483.2	511.6	0.00	0.00	0.00
2,800.0	12.95	289.28	2,741.2	176.5	-504.4	534.0	0.00	0.00	0.00
2,900.0	12.95	289.28	2,838.7	183.9	-525.5	556.4	0.00	0.00	0.00
3,000.0	12.95	289.28	2,936.1	191.3	-546.6	578.8	0.00	0.00	0.00
3,100.0	12.95	289.28	3,033.6	198.6	-567.8	601.2	0.00	0.00	0.00
3,200.0	12.95	289.28	3,131.1	206.0	-588.9	623.6	0.00	0.00	0.00
3,300.0	12.95	289.28	3,228.5	213.4	-610.1	645.9	0.00	0.00	0.00
Wasatch									
3,303.6	12.95	289.28	3,232.0	213.7	-610.8	646.7	0.00	0.00	0.00
3,400.0	12.95	289.28	3,326.0	220.8	-631.2	668.3	0.00	0.00	0.00
3,500.0	12.95	289.28	3,423.4	228.2	-652.4	690.7	0.00	0.00	0.00
3,600.0	12.95	289.28	3,520.9	235.6	-673.5	713.1	0.00	0.00	0.00
3,700.0	12.95	289.28	3,618.3	243.0	-694.7	735.5	0.00	0.00	0.00
3,800.0	12.95	289.28	3,715.8	250.4	-715.8	757.9	0.00	0.00	0.00
3,900.0	12.95	289.28	3,813.3	257.8	-737.0	780.3	0.00	0.00	0.00
4,000.0	12.95	289.28	3,910.7	265.2	-758.1	802.7	0.00	0.00	0.00
4,100.0	12.95	289.28	4,008.2	272.6	-779.2	825.1	0.00	0.00	0.00
4,200.0	12.95	289.28	4,105.6	280.0	-800.4	847.4	0.00	0.00	0.00
4,300.0	12.95	289.28	4,203.1	287.4	-821.5	869.8	0.00	0.00	0.00
4,400.0	12.95	289.28	4,300.6	294.8	-842.7	892.2	0.00	0.00	0.00
4,500.0	12.95	289.28	4,398.0	302.2	-863.8	914.6	0.00	0.00	0.00
4,600.0	12.95	289.28	4,495.5	309.6	-885.0	937.0	0.00	0.00	0.00
4,700.0	12.95	289.28	4,592.9	317.0	-906.1	959.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 13D-14 496 - Slot 13D-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 13D-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)
4,800.0	12.95	289.28	4,690.4	324.4	-927.3	981.8	0.00	0.00	0.00
4,900.0	12.95	289.28	4,787.9	331.8	-948.4	1,004.2	0.00	0.00	0.00
5,000.0	12.95	289.28	4,885.3	339.2	-969.6	1,026.6	0.00	0.00	0.00
5,100.0	12.95	289.28	4,982.8	346.6	-990.7	1,048.9	0.00	0.00	0.00
5,200.0	12.95	289.28	5,080.2	354.0	-1,011.8	1,071.3	0.00	0.00	0.00
5,300.0	12.95	289.28	5,177.7	361.4	-1,033.0	1,093.7	0.00	0.00	0.00
5,400.0	12.95	289.28	5,275.1	368.8	-1,054.1	1,116.1	0.00	0.00	0.00
5,500.0	12.95	289.28	5,372.6	376.2	-1,075.3	1,138.5	0.00	0.00	0.00
5,600.0	12.95	289.28	5,470.1	383.6	-1,096.4	1,160.9	0.00	0.00	0.00
5,700.0	12.95	289.28	5,567.5	391.0	-1,117.6	1,183.3	0.00	0.00	0.00
Wasatch G									
5,766.2	12.95	289.28	5,632.0	395.9	-1,131.6	1,198.1	0.00	0.00	0.00
5,800.0	12.95	289.28	5,665.0	398.4	-1,138.7	1,205.7	0.00	0.00	0.00
5,900.0	12.95	289.28	5,762.4	405.8	-1,159.9	1,228.0	0.00	0.00	0.00
6,000.0	12.95	289.28	5,859.9	413.2	-1,181.0	1,250.4	0.00	0.00	0.00
6,100.0	12.95	289.28	5,957.4	420.6	-1,202.2	1,272.8	0.00	0.00	0.00
6,200.0	12.95	289.28	6,054.8	428.0	-1,223.3	1,295.2	0.00	0.00	0.00
6,300.0	12.95	289.28	6,152.3	435.4	-1,244.4	1,317.6	0.00	0.00	0.00
6,400.0	12.95	289.28	6,249.7	442.8	-1,265.6	1,340.0	0.00	0.00	0.00
Fort Union									
6,410.5	12.95	289.28	6,260.0	443.6	-1,267.8	1,342.4	0.00	0.00	0.00
6,500.0	12.95	289.28	6,347.2	450.2	-1,286.7	1,362.4	0.00	0.00	0.00
6,600.0	12.95	289.28	6,444.6	457.6	-1,307.9	1,384.8	0.00	0.00	0.00
6,700.0	12.95	289.28	6,542.1	465.0	-1,329.0	1,407.2	0.00	0.00	0.00
6,800.0	12.95	289.28	6,639.6	472.4	-1,350.2	1,429.5	0.00	0.00	0.00
6,900.0	12.95	289.28	6,737.0	479.8	-1,371.3	1,451.9	0.00	0.00	0.00
7,000.0	12.95	289.28	6,834.5	487.2	-1,392.5	1,474.3	0.00	0.00	0.00
7,100.0	12.95	289.28	6,931.9	494.6	-1,413.6	1,496.7	0.00	0.00	0.00
7,200.0	12.95	289.28	7,029.4	502.0	-1,434.8	1,519.1	0.00	0.00	0.00
7,300.0	12.95	289.28	7,126.9	509.4	-1,455.9	1,541.5	0.00	0.00	0.00
7,400.0	12.95	289.28	7,224.3	516.8	-1,477.0	1,563.9	0.00	0.00	0.00
7,500.0	12.95	289.28	7,321.8	524.2	-1,498.2	1,586.3	0.00	0.00	0.00
7,600.0	12.95	289.28	7,419.2	531.6	-1,519.3	1,608.7	0.00	0.00	0.00
7,700.0	12.95	289.28	7,516.7	539.0	-1,540.5	1,631.0	0.00	0.00	0.00
7,800.0	12.95	289.28	7,614.1	546.4	-1,561.6	1,653.4	0.00	0.00	0.00
7,900.0	12.95	289.28	7,711.6	553.8	-1,582.8	1,675.8	0.00	0.00	0.00
Drop 3° /100'									
7,937.5	12.95	289.28	7,748.1	556.5	-1,590.7	1,684.2	0.00	0.00	0.00
8,000.0	11.07	289.28	7,809.3	560.8	-1,603.0	1,697.2	3.00	-3.00	0.00
8,100.0	8.07	289.28	7,907.9	566.3	-1,618.7	1,713.8	3.00	-3.00	0.00
8,200.0	5.07	289.28	8,007.2	570.1	-1,629.5	1,725.3	3.00	-3.00	0.00
8,300.0	2.07	289.28	8,107.0	572.1	-1,635.3	1,731.5	3.00	-3.00	0.00
EOD @ Vertical / Build 1.5° / 100' - Ohio Creek									
8,369.0	0.00	0.00	8,176.0	572.6	-1,636.5	1,732.7	3.00	-3.00	0.00
8,400.0	0.46	250.00	8,207.0	572.5	-1,636.6	1,732.8	1.50	1.50	0.00
EOB @ 1.48° Inc. / 250.00° Azm									
8,467.4	1.48	250.00	8,274.4	572.1	-1,637.7	1,733.7	1.50	1.50	0.00
8,500.0	1.48	250.00	8,307.0	571.8	-1,638.5	1,734.4	0.00	0.00	0.00
8,600.0	1.48	250.00	8,406.9	571.0	-1,640.9	1,736.5	0.00	0.00	0.00
8,700.0	1.48	250.00	8,506.9	570.1	-1,643.3	1,738.5	0.00	0.00	0.00
Williams Fork									
8,750.1	1.48	250.00	8,557.0	569.6	-1,644.6	1,739.5	0.00	0.00	0.00
8,800.0	1.48	250.00	8,606.9	569.2	-1,645.8	1,740.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 13D-14 496 - Slot 13D-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 13D-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									
8,800.1	1.48	250.00	8,607.0	569.2	-1,645.8	1,740.6	0.00	0.00	0.00
8,900.0	1.48	250.00	8,706.8	568.3	-1,648.2	1,742.6	0.00	0.00	0.00
9,000.0	1.48	250.00	8,806.8	567.4	-1,650.6	1,744.7	0.00	0.00	0.00
9,100.0	1.48	250.00	8,906.8	566.6	-1,653.0	1,746.7	0.00	0.00	0.00
9,200.0	1.48	250.00	9,006.7	565.7	-1,655.4	1,748.7	0.00	0.00	0.00
9,300.0	1.48	250.00	9,106.7	564.8	-1,657.9	1,750.8	0.00	0.00	0.00
9,400.0	1.48	250.00	9,206.7	563.9	-1,660.3	1,752.8	0.00	0.00	0.00
9,500.0	1.48	250.00	9,306.6	563.0	-1,662.7	1,754.9	0.00	0.00	0.00
9,600.0	1.48	250.00	9,406.6	562.1	-1,665.1	1,756.9	0.00	0.00	0.00
9,700.0	1.48	250.00	9,506.6	561.3	-1,667.5	1,759.0	0.00	0.00	0.00
9,800.0	1.48	250.00	9,606.5	560.4	-1,670.0	1,761.0	0.00	0.00	0.00
9,900.0	1.48	250.00	9,706.5	559.5	-1,672.4	1,763.1	0.00	0.00	0.00
10,000.0	1.48	250.00	9,806.5	558.6	-1,674.8	1,765.1	0.00	0.00	0.00
10,100.0	1.48	250.00	9,906.4	557.7	-1,677.2	1,767.2	0.00	0.00	0.00
10,200.0	1.48	250.00	10,006.4	556.9	-1,679.6	1,769.2	0.00	0.00	0.00
10,300.0	1.48	250.00	10,106.4	556.0	-1,682.1	1,771.3	0.00	0.00	0.00
10,400.0	1.48	250.00	10,206.3	555.1	-1,684.5	1,773.3	0.00	0.00	0.00
10,500.0	1.48	250.00	10,306.3	554.2	-1,686.9	1,775.4	0.00	0.00	0.00
10,600.0	1.48	250.00	10,406.3	553.3	-1,689.3	1,777.4	0.00	0.00	0.00
10,700.0	1.48	250.00	10,506.2	552.5	-1,691.7	1,779.5	0.00	0.00	0.00
10,800.0	1.48	250.00	10,606.2	551.6	-1,694.2	1,781.5	0.00	0.00	0.00
10,900.0	1.48	250.00	10,706.2	550.7	-1,696.6	1,783.6	0.00	0.00	0.00
11,000.0	1.48	250.00	10,806.1	549.8	-1,699.0	1,785.6	0.00	0.00	0.00
11,100.0	1.48	250.00	10,906.1	548.9	-1,701.4	1,787.7	0.00	0.00	0.00
11,200.0	1.48	250.00	11,006.1	548.0	-1,703.9	1,789.7	0.00	0.00	0.00
Cameo									
11,265.0	1.48	250.00	11,071.0	547.5	-1,705.4	1,791.1	0.00	0.00	0.00
11,300.0	1.48	250.00	11,106.0	547.2	-1,706.3	1,791.8	0.00	0.00	0.00
11,400.0	1.48	250.00	11,206.0	546.3	-1,708.7	1,793.8	0.00	0.00	0.00
11,500.0	1.48	250.00	11,306.0	545.4	-1,711.1	1,795.9	0.00	0.00	0.00
11,600.0	1.48	250.00	11,405.9	544.5	-1,713.5	1,797.9	0.00	0.00	0.00
11,700.0	1.48	250.00	11,505.9	543.6	-1,716.0	1,800.0	0.00	0.00	0.00
11,800.0	1.48	250.00	11,605.9	542.8	-1,718.4	1,802.0	0.00	0.00	0.00
11,900.0	1.48	250.00	11,705.8	541.9	-1,720.8	1,804.1	0.00	0.00	0.00
12,000.0	1.48	250.00	11,805.8	541.0	-1,723.2	1,806.1	0.00	0.00	0.00
12,100.0	1.48	250.00	11,905.8	540.1	-1,725.6	1,808.2	0.00	0.00	0.00
Rollins									
12,100.2	1.48	250.00	11,906.0	540.1	-1,725.6	1,808.2	0.00	0.00	0.00
12,200.0	1.48	250.00	12,005.7	539.2	-1,728.1	1,810.2	0.00	0.00	0.00
TD @ 12300.3' MD / 12106.0' TVD									
12,300.3	1.48	250.00	12,106.0	538.4	-1,730.5	1,812.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ELU J14 FED 13D-14 496 - Slot 13D-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 13D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)		
13D-14 - OHCR	0.00	0.00	8,176.0	572.6	-1,636.5	14,430,491.89	2,444,421.53	39.702385	-108.141743
- plan hits target center									
- Point									
13D-14 - PBHL	0.00	0.00	12,106.0	538.4	-1,730.5	14,430,454.70	2,444,328.70	39.702291	-108.142077
- 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)			(°)	(°)
3,303.6	3,232.0	Wasatch			
5,766.2	5,632.0	Wasatch G			
6,410.5	6,260.0	Fort Union			
8,369.0	8,176.0	Ohio Creek			
8,750.1	8,557.0	Williams Fork			
8,800.1	8,607.0	TOG			
11,265.0	11,071.0	Cameo			
12,100.2	11,906.0	Rollins			

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Build 3° / 100'
631.5	627.9	16.0	-45.8	Start 7306.0 hold at 631.5 MD
7,937.5	7,748.1	556.5	-1,590.7	Drop 3° /100'
8,369.0	8,176.0	572.6	-1,636.5	EOD @ Vertical / Build 1.5° / 100'
8,467.4	8,274.4	572.1	-1,637.7	EOB @ 1.48° Inc. / 250.00° Azm
12,300.3	12,106.0	538.4	-1,730.5	TD @ 12300.3' MD / 12106.0' TVD