



## **Caerus Oil & Gas**

**Rio Blanco County, CO (UTM 12N)  
SEC 14-T4S-R96W ELU FED J14 496  
ELU J14 FED 21C-14 496**

**OH**

**Plan: Plan 1**

## **Standard Planning Report**

**06 December, 2019**



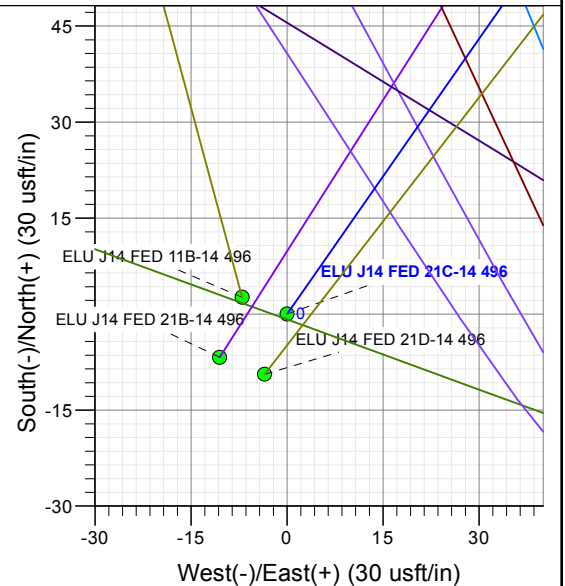
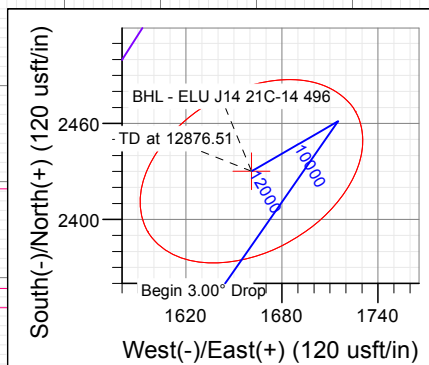
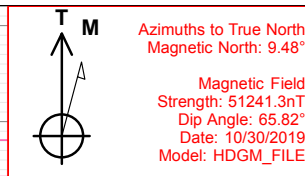
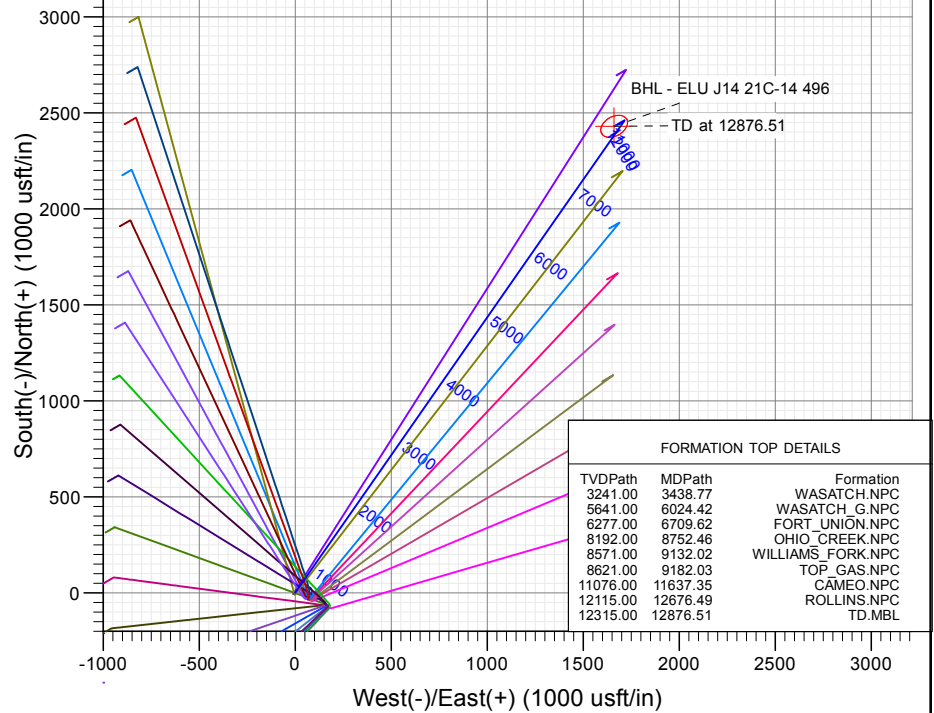
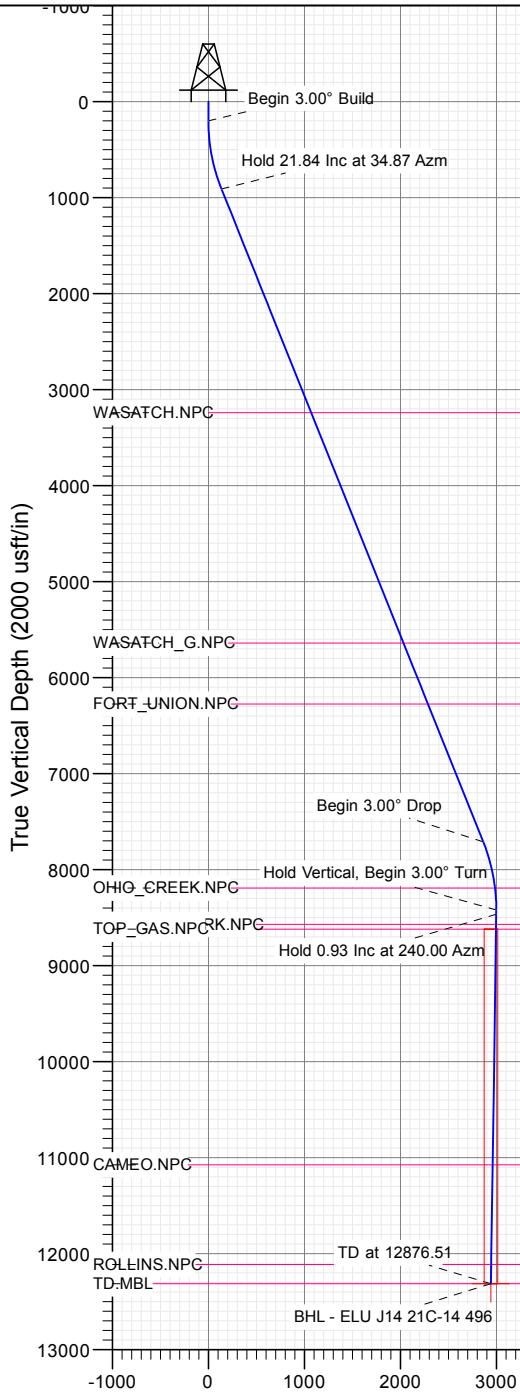
## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	928.13	21.84	34.87	910.62	112.51	78.40	3.00	34.87	137.12	
4	8253.88	21.84	34.87	7710.38	2348.87	1636.75	0.00	0.00	2862.78	
5	8982.01	0.00	0.00	8421.00	2461.38	1715.15	3.00	180.00	2999.90	
6	9028.32	0.93	240.02	8467.31	2461.19	1714.83	2.00	240.02	2999.56	
7	12876.51	0.93	240.02	12315.00	2430.11	1660.95	0.00	0.00	2943.50	BHL - ELU J14 21C-14 496

Project: Rio Blanco County, CO (UTM 12N)  
Site: SEC 14-T4S-R96W ELU FED J14 496  
Well: ELU J14 FED 21C-14 496  
Wellbore: OH  
Design: Plan 1

Plan 1  
ELU J14 FED 21C-14 496  
RKB @ 7932.00usft  
Ground Level @ 7902.00  
NAD 1927 - Western US  
Well ELU J14 FED 21C-14 496, True North

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 21C-14 496	TD			34.35	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12315.00			2430.11	1660.95	39.707633	-108.130552



## Vertical Section at 34.35° (2000 usft/in)

WELL DETAILS: ELU J14 FED 21C-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14430021.89	2445926.21	39.700964	-108.136453



<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 21C-14 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 7932.00usft
<b>Project:</b>	Rio Blanco County, CO (UTM 12N)	<b>MD Reference:</b>	RKB @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU FED J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 21C-14 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 1		

<b>Project</b>	Rio Blanco County, CO (UTM 12N)		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

Site						SEC 14-T4S-R96W ELU FED J14 496											
Site Position:			Northing:			14,430,024.30 usft			Latitude:			39.700971					
From:			Map			Easting:			2,445,919.10 usft			Longitude:			-108.136478		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			1.83		

Well	ELU J14 FED 21C-14 496					
Well Position	+N/-S	-2.64 usft	Northing:	14,430,021.89 usft	Latitude:	39.700964
	+E/-W	7.03 usft	Easting:	2,445,926.22 usft	Longitude:	-108.136454
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	7,902.00 usft

<b>Wellbore</b>	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	10/30/2019	9.48	65.82	51,241.30000000

<b>Design</b>	Plan 1				
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<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	34.35	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
928.13	21.84	34.87	910.62	112.51	78.40	3.00	3.00	0.00	34.87	
8,253.88	21.84	34.87	7,710.38	2,348.87	1,636.75	0.00	0.00	0.00	0.00	
8,982.01	0.00	0.00	8,421.00	2,461.38	1,715.15	3.00	-3.00	0.00	180.00	
9,028.32	0.93	240.02	8,467.31	2,461.19	1,714.83	2.00	2.00	-259.10	240.02	
12,876.51	0.93	240.02	12,315.00	2,430.11	1,660.95	0.00	0.00	0.00	0.00	BHL - ELU J14 21C



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 21C-14 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 7932.00usft
<b>Project:</b>	Rio Blanco County, CO (UTM 12N)	<b>MD Reference:</b>	RKB @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU FED J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 21C-14 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Begin 3.00° Build</b>									
300.00	3.00	34.87	299.95	2.15	1.50	2.62	3.00	3.00	0.00
400.00	6.00	34.87	399.63	8.58	5.98	10.46	3.00	3.00	0.00
500.00	9.00	34.87	498.77	19.29	13.44	23.51	3.00	3.00	0.00
600.00	12.00	34.87	597.08	34.24	23.86	41.73	3.00	3.00	0.00
700.00	15.00	34.87	694.31	53.39	37.21	65.07	3.00	3.00	0.00
800.00	18.00	34.87	790.18	76.69	53.44	93.47	3.00	3.00	0.00
900.00	21.00	34.87	884.43	104.08	72.52	126.85	3.00	3.00	0.00
928.13	21.84	34.87	910.62	112.51	78.40	137.12	3.00	3.00	0.00
<b>Hold 21.84 Inc at 34.87 Azm</b>									
1,000.00	21.84	34.87	977.33	134.45	93.69	163.86	0.00	0.00	0.00
1,100.00	21.84	34.87	1,070.15	164.97	114.96	201.07	0.00	0.00	0.00
1,200.00	21.84	34.87	1,162.97	195.50	136.23	238.27	0.00	0.00	0.00
1,300.00	21.84	34.87	1,255.79	226.03	157.50	275.48	0.00	0.00	0.00
1,400.00	21.84	34.87	1,348.61	256.56	178.77	312.69	0.00	0.00	0.00
1,500.00	21.84	34.87	1,441.43	287.08	200.05	349.89	0.00	0.00	0.00
1,600.00	21.84	34.87	1,534.25	317.61	221.32	387.10	0.00	0.00	0.00
1,700.00	21.84	34.87	1,627.07	348.14	242.59	424.31	0.00	0.00	0.00
1,800.00	21.84	34.87	1,719.89	378.67	263.86	461.51	0.00	0.00	0.00
1,900.00	21.84	34.87	1,812.71	409.19	285.14	498.72	0.00	0.00	0.00
2,000.00	21.84	34.87	1,905.53	439.72	306.41	535.93	0.00	0.00	0.00
2,100.00	21.84	34.87	1,998.35	470.25	327.68	573.13	0.00	0.00	0.00
2,200.00	21.84	34.87	2,091.17	500.78	348.95	610.34	0.00	0.00	0.00
2,300.00	21.84	34.87	2,183.99	531.30	370.23	647.55	0.00	0.00	0.00
2,400.00	21.84	34.87	2,276.81	561.83	391.50	684.75	0.00	0.00	0.00
2,500.00	21.84	34.87	2,369.63	592.36	412.77	721.96	0.00	0.00	0.00
2,600.00	21.84	34.87	2,462.45	622.89	434.04	759.17	0.00	0.00	0.00
2,700.00	21.84	34.87	2,555.27	653.41	455.31	796.37	0.00	0.00	0.00
2,800.00	21.84	34.87	2,648.09	683.94	476.59	833.58	0.00	0.00	0.00
2,900.00	21.84	34.87	2,740.91	714.47	497.86	870.79	0.00	0.00	0.00
3,000.00	21.84	34.87	2,833.73	745.00	519.13	907.99	0.00	0.00	0.00
3,100.00	21.84	34.87	2,926.55	775.52	540.40	945.20	0.00	0.00	0.00
3,200.00	21.84	34.87	3,019.37	806.05	561.68	982.40	0.00	0.00	0.00
3,300.00	21.84	34.87	3,112.19	836.58	582.95	1,019.61	0.00	0.00	0.00
3,400.00	21.84	34.87	3,205.01	867.11	604.22	1,056.82	0.00	0.00	0.00
3,438.77	21.84	34.87	3,241.00	878.94	612.47	1,071.24	0.00	0.00	0.00
<b>WASATCH.NPC</b>									
3,500.00	21.84	34.87	3,297.83	897.63	625.49	1,094.02	0.00	0.00	0.00
3,600.00	21.84	34.87	3,390.65	928.16	646.77	1,131.23	0.00	0.00	0.00
3,700.00	21.84	34.87	3,483.47	958.69	668.04	1,168.44	0.00	0.00	0.00
3,800.00	21.84	34.87	3,576.29	989.22	689.31	1,205.64	0.00	0.00	0.00
3,900.00	21.84	34.87	3,669.11	1,019.74	710.58	1,242.85	0.00	0.00	0.00
4,000.00	21.84	34.87	3,761.93	1,050.27	731.85	1,280.06	0.00	0.00	0.00
4,100.00	21.84	34.87	3,854.75	1,080.80	753.13	1,317.26	0.00	0.00	0.00
4,200.00	21.84	34.87	3,947.57	1,111.33	774.40	1,354.47	0.00	0.00	0.00
4,300.00	21.84	34.87	4,040.39	1,141.85	795.67	1,391.68	0.00	0.00	0.00
4,400.00	21.84	34.87	4,133.21	1,172.38	816.94	1,428.88	0.00	0.00	0.00
4,500.00	21.84	34.87	4,226.03	1,202.91	838.22	1,466.09	0.00	0.00	0.00
4,600.00	21.84	34.87	4,318.85	1,233.44	859.49	1,503.30	0.00	0.00	0.00
4,700.00	21.84	34.87	4,411.67	1,263.96	880.76	1,540.50	0.00	0.00	0.00
4,800.00	21.84	34.87	4,504.49	1,294.49	902.03	1,577.71	0.00	0.00	0.00

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 21C-14 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 7932.00usft
<b>Project:</b>	Rio Blanco County, CO (UTM 12N)	<b>MD Reference:</b>	RKB @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU FED J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 21C-14 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 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)
4,900.00	21.84	34.87	4,597.31	1,325.02	923.31	1,614.92	0.00	0.00	0.00
5,000.00	21.84	34.87	4,690.13	1,355.55	944.58	1,652.12	0.00	0.00	0.00
5,100.00	21.84	34.87	4,782.95	1,386.07	965.85	1,689.33	0.00	0.00	0.00
5,200.00	21.84	34.87	4,875.77	1,416.60	987.12	1,726.54	0.00	0.00	0.00
5,300.00	21.84	34.87	4,968.59	1,447.13	1,008.39	1,763.74	0.00	0.00	0.00
5,400.00	21.84	34.87	5,061.41	1,477.66	1,029.67	1,800.95	0.00	0.00	0.00
5,500.00	21.84	34.87	5,154.23	1,508.18	1,050.94	1,838.16	0.00	0.00	0.00
5,600.00	21.84	34.87	5,247.05	1,538.71	1,072.21	1,875.36	0.00	0.00	0.00
5,700.00	21.84	34.87	5,339.87	1,569.24	1,093.48	1,912.57	0.00	0.00	0.00
5,800.00	21.84	34.87	5,432.69	1,599.77	1,114.76	1,949.78	0.00	0.00	0.00
5,900.00	21.84	34.87	5,525.51	1,630.29	1,136.03	1,986.98	0.00	0.00	0.00
6,000.00	21.84	34.87	5,618.33	1,660.82	1,157.30	2,024.19	0.00	0.00	0.00
6,024.42	21.84	34.87	5,641.00	1,668.28	1,162.50	2,033.28	0.00	0.00	0.00
<b>WASATCH_G.NPC</b>									
6,100.00	21.84	34.87	5,711.15	1,691.35	1,178.57	2,061.40	0.00	0.00	0.00
6,200.00	21.84	34.87	5,803.97	1,721.88	1,199.85	2,098.60	0.00	0.00	0.00
6,300.00	21.84	34.87	5,896.79	1,752.40	1,221.12	2,135.81	0.00	0.00	0.00
6,400.00	21.84	34.87	5,989.61	1,782.93	1,242.39	2,173.01	0.00	0.00	0.00
6,500.00	21.84	34.87	6,082.43	1,813.46	1,263.66	2,210.22	0.00	0.00	0.00
6,600.00	21.84	34.87	6,175.25	1,843.99	1,284.94	2,247.43	0.00	0.00	0.00
6,700.00	21.84	34.87	6,268.07	1,874.51	1,306.21	2,284.63	0.00	0.00	0.00
6,709.62	21.84	34.87	6,277.00	1,877.45	1,308.25	2,288.21	0.00	0.00	0.00
<b>FORT_UNION.NPC</b>									
6,800.00	21.84	34.87	6,360.89	1,905.04	1,327.48	2,321.84	0.00	0.00	0.00
6,900.00	21.84	34.87	6,453.71	1,935.57	1,348.75	2,359.05	0.00	0.00	0.00
7,000.00	21.84	34.87	6,546.53	1,966.10	1,370.02	2,396.25	0.00	0.00	0.00
7,100.00	21.84	34.87	6,639.35	1,996.62	1,391.30	2,433.46	0.00	0.00	0.00
7,200.00	21.84	34.87	6,732.17	2,027.15	1,412.57	2,470.67	0.00	0.00	0.00
7,300.00	21.84	34.87	6,824.99	2,057.68	1,433.84	2,507.87	0.00	0.00	0.00
7,400.00	21.84	34.87	6,917.81	2,088.21	1,455.11	2,545.08	0.00	0.00	0.00
7,500.00	21.84	34.87	7,010.63	2,118.73	1,476.39	2,582.29	0.00	0.00	0.00
7,600.00	21.84	34.87	7,103.45	2,149.26	1,497.66	2,619.49	0.00	0.00	0.00
7,700.00	21.84	34.87	7,196.27	2,179.79	1,518.93	2,656.70	0.00	0.00	0.00
7,800.00	21.84	34.87	7,289.09	2,210.32	1,540.20	2,693.91	0.00	0.00	0.00
7,900.00	21.84	34.87	7,381.91	2,240.84	1,561.48	2,731.11	0.00	0.00	0.00
8,000.00	21.84	34.87	7,474.73	2,271.37	1,582.75	2,768.32	0.00	0.00	0.00
8,100.00	21.84	34.87	7,567.55	2,301.90	1,604.02	2,805.53	0.00	0.00	0.00
8,200.00	21.84	34.87	7,660.37	2,332.43	1,625.29	2,842.73	0.00	0.00	0.00
8,253.88	21.84	34.87	7,710.38	2,348.87	1,636.75	2,862.78	0.00	0.00	0.00
<b>Begin 3.00° Drop</b>									
8,300.00	20.46	34.87	7,753.39	2,362.53	1,646.27	2,879.42	3.00	-3.00	0.00
8,400.00	17.46	34.87	7,847.96	2,389.18	1,664.84	2,911.91	3.00	-3.00	0.00
8,500.00	14.46	34.87	7,944.09	2,411.74	1,680.56	2,939.40	3.00	-3.00	0.00
8,600.00	11.46	34.87	8,041.53	2,430.14	1,693.38	2,961.82	3.00	-3.00	0.00
8,700.00	8.46	34.87	8,140.02	2,444.33	1,703.27	2,979.12	3.00	-3.00	0.00
8,752.46	6.89	34.87	8,192.00	2,450.08	1,707.27	2,986.12	3.00	-3.00	0.00
<b>OHIO_CREEK.NPC</b>									
8,800.00	5.46	34.87	8,239.27	2,454.27	1,710.20	2,991.23	3.00	-3.00	0.00
8,900.00	2.46	34.87	8,339.02	2,459.94	1,714.14	2,998.14	3.00	-3.00	0.00
8,982.01	0.00	0.00	8,421.00	2,461.38	1,715.15	2,999.90	3.00	-3.00	0.00
<b>Hold Vertical, Begin 3.00° Turn</b>									
9,000.00	0.36	240.02	8,438.99	2,461.35	1,715.10	2,999.85	2.00	2.00	0.00
9,028.32	0.93	240.02	8,467.31	2,461.19	1,714.83	2,999.56	2.00	2.00	0.00

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 21C-14 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 7932.00usft
<b>Project:</b>	Rio Blanco County, CO (UTM 12N)	<b>MD Reference:</b>	RKB @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU FED J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 21C-14 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 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)
<b>Hold 0.93 Inc at 240.00 Azm</b>									
9,100.00	0.93	240.02	8,538.98	2,460.61	1,713.82	2,998.52	0.00	0.00	0.00
9,132.02	0.93	240.02	8,571.00	2,460.36	1,713.37	2,998.05	0.00	0.00	0.00
<b>WILLIAMS_FORK.NPC</b>									
9,182.03	0.93	240.02	8,621.00	2,459.95	1,712.67	2,997.32	0.00	0.00	0.00
<b>TOP_GAS.NPC</b>									
9,200.00	0.93	240.02	8,638.97	2,459.81	1,712.42	2,997.06	0.00	0.00	0.00
9,300.00	0.93	240.02	8,738.95	2,459.00	1,711.02	2,995.60	0.00	0.00	0.00
9,400.00	0.93	240.02	8,838.94	2,458.19	1,709.62	2,994.15	0.00	0.00	0.00
9,500.00	0.93	240.02	8,938.93	2,457.38	1,708.22	2,992.69	0.00	0.00	0.00
9,600.00	0.93	240.02	9,038.92	2,456.57	1,706.82	2,991.23	0.00	0.00	0.00
9,700.00	0.93	240.02	9,138.90	2,455.77	1,705.42	2,989.78	0.00	0.00	0.00
9,800.00	0.93	240.02	9,238.89	2,454.96	1,704.02	2,988.32	0.00	0.00	0.00
9,900.00	0.93	240.02	9,338.88	2,454.15	1,702.62	2,986.86	0.00	0.00	0.00
10,000.00	0.93	240.02	9,438.86	2,453.34	1,701.22	2,985.41	0.00	0.00	0.00
10,100.00	0.93	240.02	9,538.85	2,452.54	1,699.82	2,983.95	0.00	0.00	0.00
10,200.00	0.93	240.02	9,638.84	2,451.73	1,698.42	2,982.49	0.00	0.00	0.00
10,300.00	0.93	240.02	9,738.82	2,450.92	1,697.02	2,981.03	0.00	0.00	0.00
10,400.00	0.93	240.02	9,838.81	2,450.11	1,695.62	2,979.58	0.00	0.00	0.00
10,500.00	0.93	240.02	9,938.80	2,449.30	1,694.22	2,978.12	0.00	0.00	0.00
10,600.00	0.93	240.02	10,038.78	2,448.50	1,692.82	2,976.66	0.00	0.00	0.00
10,700.00	0.93	240.02	10,138.77	2,447.69	1,691.42	2,975.21	0.00	0.00	0.00
10,800.00	0.93	240.02	10,238.76	2,446.88	1,690.02	2,973.75	0.00	0.00	0.00
10,900.00	0.93	240.02	10,338.75	2,446.07	1,688.62	2,972.29	0.00	0.00	0.00
11,000.00	0.93	240.02	10,438.73	2,445.27	1,687.22	2,970.84	0.00	0.00	0.00
11,100.00	0.93	240.02	10,538.72	2,444.46	1,685.82	2,969.38	0.00	0.00	0.00
11,200.00	0.93	240.02	10,638.71	2,443.65	1,684.42	2,967.92	0.00	0.00	0.00
11,300.00	0.93	240.02	10,738.69	2,442.84	1,683.02	2,966.47	0.00	0.00	0.00
11,400.00	0.93	240.02	10,838.68	2,442.03	1,681.62	2,965.01	0.00	0.00	0.00
11,500.00	0.93	240.02	10,938.67	2,441.23	1,680.22	2,963.55	0.00	0.00	0.00
11,600.00	0.93	240.02	11,038.65	2,440.42	1,678.82	2,962.09	0.00	0.00	0.00
11,637.35	0.93	240.02	11,076.00	2,440.12	1,678.30	2,961.55	0.00	0.00	0.00
<b>CAMEO.NPC</b>									
11,700.00	0.93	240.02	11,138.64	2,439.61	1,677.42	2,960.64	0.00	0.00	0.00
11,800.00	0.93	240.02	11,238.63	2,438.80	1,676.02	2,959.18	0.00	0.00	0.00
11,900.00	0.93	240.02	11,338.61	2,438.00	1,674.62	2,957.72	0.00	0.00	0.00
12,000.00	0.93	240.02	11,438.60	2,437.19	1,673.22	2,956.27	0.00	0.00	0.00
12,100.00	0.93	240.02	11,538.59	2,436.38	1,671.82	2,954.81	0.00	0.00	0.00
12,200.00	0.93	240.02	11,638.58	2,435.57	1,670.42	2,953.35	0.00	0.00	0.00
12,300.00	0.93	240.02	11,738.56	2,434.76	1,669.02	2,951.90	0.00	0.00	0.00
12,400.00	0.93	240.02	11,838.55	2,433.96	1,667.62	2,950.44	0.00	0.00	0.00
12,500.00	0.93	240.02	11,938.54	2,433.15	1,666.22	2,948.98	0.00	0.00	0.00
12,600.00	0.93	240.02	12,038.52	2,432.34	1,664.82	2,947.53	0.00	0.00	0.00
12,676.49	0.93	240.02	12,115.00	2,431.72	1,663.75	2,946.41	0.00	0.00	0.00
<b>ROLLINS.NPC</b>									
12,700.00	0.93	240.02	12,138.51	2,431.53	1,663.42	2,946.07	0.00	0.00	0.00
12,800.00	0.93	240.02	12,238.50	2,430.73	1,662.02	2,944.61	0.00	0.00	0.00
12,876.51	0.93	240.02	12,315.00	2,430.11	1,660.95	2,943.50	0.00	0.00	0.00
<b>TD at 12876.51</b>									

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 21C-14 496
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	RKB @ 7932.00usft
<b>Project:</b>	Rio Blanco County, CO (UTM 12N)	<b>MD Reference:</b>	RKB @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU FED J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 21C-14 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 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)		
BHL - ELU J14 21C-1	0.00	0.00	12,315.00	2,430.11	1,660.95	14,432,503.80	2,447,508.70	39.707633	-108.130552
- plan hits target center									
- Ellipse (radii L75.00 W50.00 on 240.00 azi)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,438.77	3,241.00	WASATCH.NPC				
6,024.42	5,641.00	WASATCH_G.NPC				
6,709.62	6,277.00	FORT_UNION.NPC				
8,752.46	8,192.00	OHIO_CREEK.NPC				
9,132.02	8,571.00	WILLIAMS_FORK.NPC				
9,182.03	8,621.00	TOP_GAS.NPC				
11,637.35	11,076.00	CAMEO.NPC				
12,676.49	12,115.00	ROLLINS.NPC		0.00		
12,876.51	12,315.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Begin 3.00° Build
928.13	910.62	112.51	78.40	Hold 21.84 Inc at 34.87 Azm
8,253.88	7,710.38	2,348.87	1,636.75	Begin 3.00° Drop
8,982.01	8,421.00	2,461.38	1,715.15	Hold Vertical, Begin 3.00° Turn
9,028.32	8,467.31	2,461.19	1,714.83	Hold 0.93 Inc at 240.00 Azm
12,876.51	12,315.00	2,430.11	1,660.95	TD at 12876.51