



## **Caerus Oil & Gas**

**Rio Blanco County, CO (UTM 12N)**

**SEC 14-T4S-R96W ELU J14 496**

**ELU J14 FED 13B-14 496**

**OH**

**Plan: Plan 1**

## **Standard Planning Report**

**05 December, 2019**



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	400.00	3.00	332.00	399.95	2.31	-1.23	3.00	332.00	2.41	
4	600.00	3.00	332.00	599.68	11.55	-6.14	0.00	0.00	12.03	
5	853.97	10.34	310.85	851.79	32.36	-26.53	3.00	-29.23	40.97	
6	8381.63	10.34	310.85	8257.17	916.26	-1048.58	0.00	0.00	1391.39	
7	8726.32	0.00	0.00	8600.00	936.55	-1072.04	3.00	180.00	1422.39	
8	8775.82	0.99	240.02	8649.49	936.34	-1072.41	2.00	240.02	1422.54	
9	12265.85	0.99	240.02	12139.00	906.20	-1124.64	0.00	0.00	1444.30	BHL - ELU J14 13B-14 496

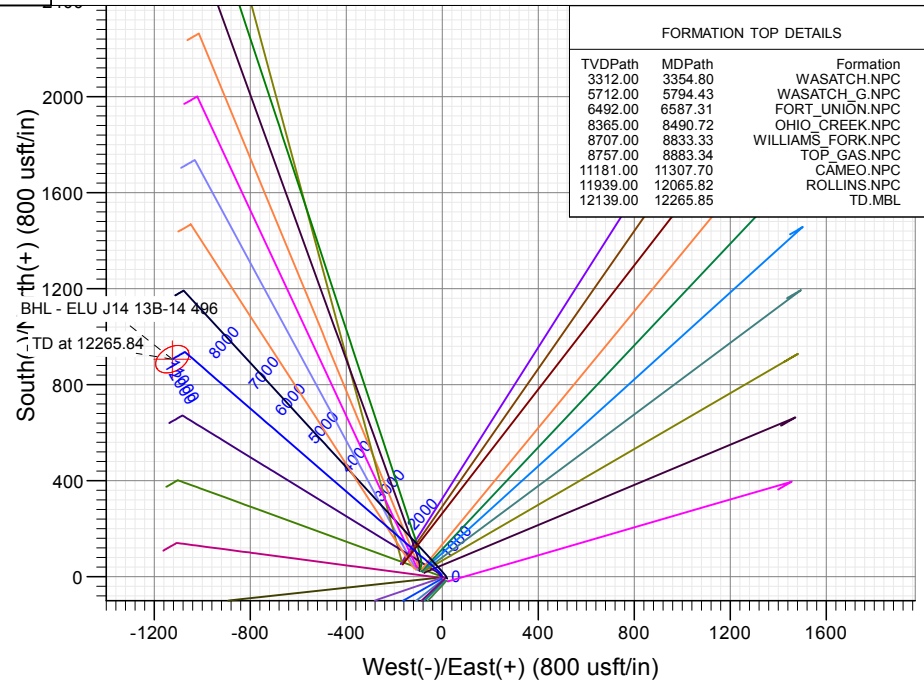
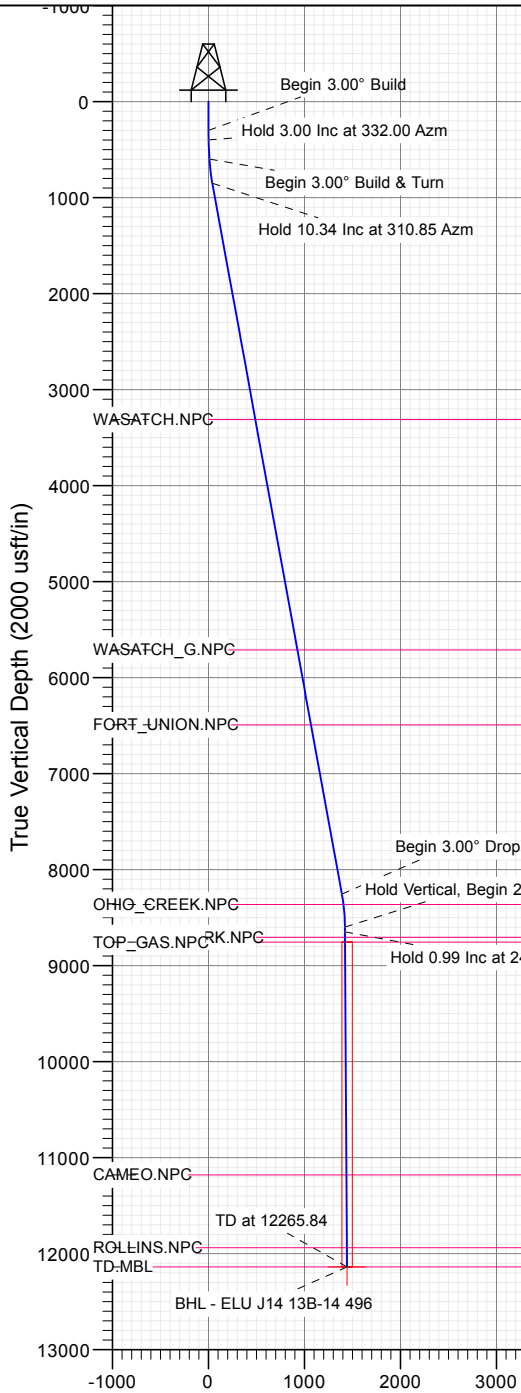
Project: Rio Blanco County, CO (UTM 12N)  
Site: SEC 14-T4S-R96W ELU J14 496  
Well: ELU J14 FED 13B-14 496  
Wellbore: OH  
Design: Plan 1

Plan 1  
ELU J14 FED 13B-14 496  
RKB @ 7932.00usft  
Ground Level @ 7902.00  
NAD 1927 - Western US  
Well ELU J14 FED 13B-14 496, True North

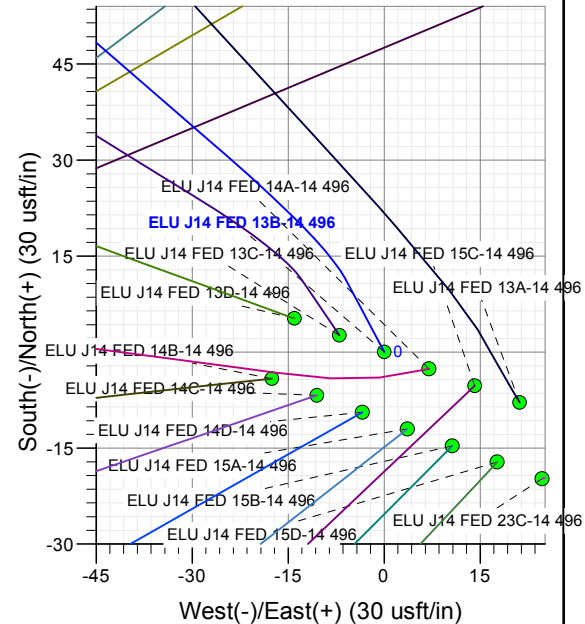
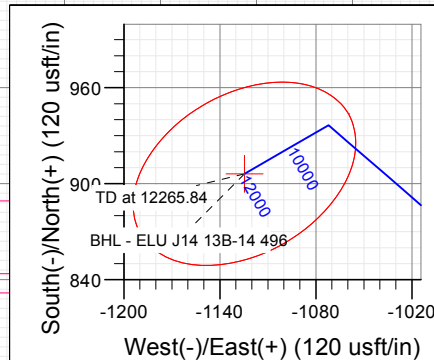
Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 13B-14 496	TD			308.86	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12139.00			906.20	-1124.64	39.703286	-108.139874

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3312.00	3354.80	WASATCH.NPC
5712.00	5794.43	WASATCH_G.NPC
6492.00	6587.31	FORT_UNION.NPC
8365.00	8490.72	OHIO_CREEK.NPC
8707.00	8833.33	WILLIAMS_FORK.NPC
8757.00	8883.34	TOP_GAS.NPC
1181.00	11307.70	CAMEO.NPC
11939.00	12065.82	ROLLINS.NPC
12139.00	12265.85	TD.MBL



Azimuths to True North  
Magnetic North: 9.48°  
Magnetic Field  
Strength: 51241.0nT  
Dip Angle: 65.82°  
Date: 10/31/2019  
Model: HDGM\_FILE



Vertical Section at 308.86° (2000 usft/in)

WELL DETAILS: ELU J14 FED 13B-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14429967.09	2446089.71	39.700799	-108.135879

CATHEDRAL

CATHEDRAL

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 13B-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 J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 13B-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)		

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

<b>Well</b>	ELU J14 FED 13B-14 496		
<b>Well Position</b>	<b>+N/-S</b>	-62.63 usft	<b>Northing:</b> 14,429,967.09 usft
	<b>+E/-W</b>	168.70 usft	<b>Easting:</b> 2,446,089.72 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.700799
			<b>Longitude:</b> -108.135879
			<b>Ground Level:</b> 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	10/31/2019	9.48	65.82	51,241.00000000

<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>
	0.00	0.00	0.00
			<b>Direction (°)</b> 308.86

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	3.00	332.00	399.95	2.31	-1.23	3.00	3.00	0.00	332.00	
600.00	3.00	332.00	599.68	11.55	-6.14	0.00	0.00	0.00	0.00	
853.97	10.34	310.85	851.79	32.36	-26.53	3.00	2.89	-8.33	-29.23	
8,381.63	10.34	310.85	8,257.17	916.26	-1,048.58	0.00	0.00	0.00	0.00	
8,726.32	0.00	0.00	8,600.00	936.55	-1,072.04	3.00	-3.00	0.00	180.00	
8,775.82	0.99	240.02	8,649.49	936.34	-1,072.41	2.00	2.00	-242.41	240.02	
12,265.85	0.99	240.02	12,139.00	906.20	-1,124.64	0.00	0.00	0.00	0.00	0.00 BHL - ELU J14 13B



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 13B-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 J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 13B-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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Begin 3.00° Build</b>									
400.00	3.00	332.00	399.95	2.31	-1.23	2.41	3.00	3.00	0.00
<b>Hold 3.00 Inc at 332.00 Azm</b>									
500.00	3.00	332.00	499.82	6.93	-3.69	7.22	0.00	0.00	0.00
600.00	3.00	332.00	599.68	11.55	-6.14	12.03	0.00	0.00	0.00
<b>Begin 3.00° Build &amp; Turn</b>									
700.00	5.81	317.36	699.38	17.59	-10.80	19.44	3.00	2.81	-14.64
800.00	8.74	312.37	798.56	26.43	-19.84	32.03	3.00	2.94	-4.99
853.97	10.34	310.85	851.79	32.36	-26.53	40.97	3.00	2.96	-2.81
<b>Hold 10.34 Inc at 310.85 Azm</b>									
900.00	10.34	310.85	897.07	37.77	-32.78	49.22	0.00	0.00	0.00
1,000.00	10.34	310.85	995.44	49.51	-46.36	67.16	0.00	0.00	0.00
1,100.00	10.34	310.85	1,093.82	61.25	-59.94	85.10	0.00	0.00	0.00
1,200.00	10.34	310.85	1,192.19	72.99	-73.51	103.04	0.00	0.00	0.00
1,300.00	10.34	310.85	1,290.57	84.73	-87.09	120.98	0.00	0.00	0.00
1,400.00	10.34	310.85	1,388.95	96.48	-100.67	138.92	0.00	0.00	0.00
1,500.00	10.34	310.85	1,487.32	108.22	-114.25	156.86	0.00	0.00	0.00
1,600.00	10.34	310.85	1,585.70	119.96	-127.82	174.80	0.00	0.00	0.00
1,700.00	10.34	310.85	1,684.07	131.70	-141.40	192.74	0.00	0.00	0.00
1,800.00	10.34	310.85	1,782.45	143.44	-154.98	210.68	0.00	0.00	0.00
1,900.00	10.34	310.85	1,880.83	155.19	-168.55	228.62	0.00	0.00	0.00
2,000.00	10.34	310.85	1,979.20	166.93	-182.13	246.56	0.00	0.00	0.00
2,100.00	10.34	310.85	2,077.58	178.67	-195.71	264.50	0.00	0.00	0.00
2,200.00	10.34	310.85	2,175.95	190.41	-209.29	282.44	0.00	0.00	0.00
2,300.00	10.34	310.85	2,274.33	202.15	-222.86	300.38	0.00	0.00	0.00
2,400.00	10.34	310.85	2,372.70	213.90	-236.44	318.32	0.00	0.00	0.00
2,500.00	10.34	310.85	2,471.08	225.64	-250.02	336.25	0.00	0.00	0.00
2,600.00	10.34	310.85	2,569.46	237.38	-263.60	354.19	0.00	0.00	0.00
2,700.00	10.34	310.85	2,667.83	249.12	-277.17	372.13	0.00	0.00	0.00
2,800.00	10.34	310.85	2,766.21	260.86	-290.75	390.07	0.00	0.00	0.00
2,900.00	10.34	310.85	2,864.58	272.61	-304.33	408.01	0.00	0.00	0.00
3,000.00	10.34	310.85	2,962.96	284.35	-317.90	425.95	0.00	0.00	0.00
3,100.00	10.34	310.85	3,061.33	296.09	-331.48	443.89	0.00	0.00	0.00
3,200.00	10.34	310.85	3,159.71	307.83	-345.06	461.83	0.00	0.00	0.00
3,300.00	10.34	310.85	3,258.09	319.57	-358.64	479.77	0.00	0.00	0.00
3,354.80	10.34	310.85	3,312.00	326.01	-366.08	489.60	0.00	0.00	0.00
<b>WASATCH.NPC</b>									
3,400.00	10.34	310.85	3,356.46	331.32	-372.21	497.71	0.00	0.00	0.00
3,500.00	10.34	310.85	3,454.84	343.06	-385.79	515.65	0.00	0.00	0.00
3,600.00	10.34	310.85	3,553.21	354.80	-399.37	533.59	0.00	0.00	0.00
3,700.00	10.34	310.85	3,651.59	366.54	-412.94	551.53	0.00	0.00	0.00
3,800.00	10.34	310.85	3,749.96	378.28	-426.52	569.47	0.00	0.00	0.00
3,900.00	10.34	310.85	3,848.34	390.03	-440.10	587.41	0.00	0.00	0.00
4,000.00	10.34	310.85	3,946.72	401.77	-453.68	605.35	0.00	0.00	0.00
4,100.00	10.34	310.85	4,045.09	413.51	-467.25	623.29	0.00	0.00	0.00
4,200.00	10.34	310.85	4,143.47	425.25	-480.83	641.23	0.00	0.00	0.00
4,300.00	10.34	310.85	4,241.84	436.99	-494.41	659.16	0.00	0.00	0.00
4,400.00	10.34	310.85	4,340.22	448.74	-507.98	677.10	0.00	0.00	0.00
4,500.00	10.34	310.85	4,438.59	460.48	-521.56	695.04	0.00	0.00	0.00
4,600.00	10.34	310.85	4,536.97	472.22	-535.14	712.98	0.00	0.00	0.00
4,700.00	10.34	310.85	4,635.35	483.96	-548.72	730.92	0.00	0.00	0.00
4,800.00	10.34	310.85	4,733.72	495.70	-562.29	748.86	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 13B-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 J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 13B-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	10.34	310.85	4,832.10	507.45	-575.87	766.80	0.00	0.00	0.00
5,000.00	10.34	310.85	4,930.47	519.19	-589.45	784.74	0.00	0.00	0.00
5,100.00	10.34	310.85	5,028.85	530.93	-603.02	802.68	0.00	0.00	0.00
5,200.00	10.34	310.85	5,127.22	542.67	-616.60	820.62	0.00	0.00	0.00
5,300.00	10.34	310.85	5,225.60	554.41	-630.18	838.56	0.00	0.00	0.00
5,400.00	10.34	310.85	5,323.98	566.16	-643.76	856.50	0.00	0.00	0.00
5,500.00	10.34	310.85	5,422.35	577.90	-657.33	874.44	0.00	0.00	0.00
5,600.00	10.34	310.85	5,520.73	589.64	-670.91	892.38	0.00	0.00	0.00
5,700.00	10.34	310.85	5,619.10	601.38	-684.49	910.32	0.00	0.00	0.00
5,794.43	10.34	310.85	5,712.00	612.47	-697.31	927.26	0.00	0.00	0.00
<b>WASATCH_G.NPC</b>									
5,800.00	10.34	310.85	5,717.48	613.12	-698.06	928.26	0.00	0.00	0.00
5,900.00	10.34	310.85	5,815.85	624.87	-711.64	946.20	0.00	0.00	0.00
6,000.00	10.34	310.85	5,914.23	636.61	-725.22	964.14	0.00	0.00	0.00
6,100.00	10.34	310.85	6,012.61	648.35	-738.80	982.07	0.00	0.00	0.00
6,200.00	10.34	310.85	6,110.98	660.09	-752.37	1,000.01	0.00	0.00	0.00
6,300.00	10.34	310.85	6,209.36	671.83	-765.95	1,017.95	0.00	0.00	0.00
6,400.00	10.34	310.85	6,307.73	683.58	-779.53	1,035.89	0.00	0.00	0.00
6,500.00	10.34	310.85	6,406.11	695.32	-793.10	1,053.83	0.00	0.00	0.00
6,587.31	10.34	310.85	6,492.00	705.57	-804.96	1,069.50	0.00	0.00	0.00
<b>FORT_UNION.NPC</b>									
6,600.00	10.34	310.85	6,504.49	707.06	-806.68	1,071.77	0.00	0.00	0.00
6,700.00	10.34	310.85	6,602.86	718.80	-820.26	1,089.71	0.00	0.00	0.00
6,800.00	10.34	310.85	6,701.24	730.54	-833.84	1,107.65	0.00	0.00	0.00
6,900.00	10.34	310.85	6,799.61	742.29	-847.41	1,125.59	0.00	0.00	0.00
7,000.00	10.34	310.85	6,897.99	754.03	-860.99	1,143.53	0.00	0.00	0.00
7,100.00	10.34	310.85	6,996.36	765.77	-874.57	1,161.47	0.00	0.00	0.00
7,200.00	10.34	310.85	7,094.74	777.51	-888.14	1,179.41	0.00	0.00	0.00
7,300.00	10.34	310.85	7,193.12	789.25	-901.72	1,197.35	0.00	0.00	0.00
7,400.00	10.34	310.85	7,291.49	801.00	-915.30	1,215.29	0.00	0.00	0.00
7,500.00	10.34	310.85	7,389.87	812.74	-928.88	1,233.23	0.00	0.00	0.00
7,600.00	10.34	310.85	7,488.24	824.48	-942.45	1,251.17	0.00	0.00	0.00
7,700.00	10.34	310.85	7,586.62	836.22	-956.03	1,269.11	0.00	0.00	0.00
7,800.00	10.34	310.85	7,684.99	847.96	-969.61	1,287.05	0.00	0.00	0.00
7,900.00	10.34	310.85	7,783.37	859.71	-983.19	1,304.98	0.00	0.00	0.00
8,000.00	10.34	310.85	7,881.75	871.45	-996.76	1,322.92	0.00	0.00	0.00
8,100.00	10.34	310.85	7,980.12	883.19	-1,010.34	1,340.86	0.00	0.00	0.00
8,200.00	10.34	310.85	8,078.50	894.93	-1,023.92	1,358.80	0.00	0.00	0.00
8,300.00	10.34	310.85	8,176.87	906.67	-1,037.49	1,376.74	0.00	0.00	0.00
8,381.63	10.34	310.85	8,257.18	916.26	-1,048.58	1,391.39	0.00	0.00	0.00
<b>Begin 3.00° Drop</b>									
8,400.00	9.79	310.85	8,275.26	918.36	-1,051.01	1,394.59	3.00	-3.00	0.00
8,490.72	7.07	310.85	8,365.00	927.06	-1,061.06	1,407.88	3.00	-3.00	0.00
<b>OHIO_CREEK.NPC</b>									
8,500.00	6.79	310.85	8,374.21	927.79	-1,061.91	1,409.00	3.00	-3.00	0.00
8,600.00	3.79	310.85	8,473.77	933.82	-1,068.88	1,418.21	3.00	-3.00	0.00
8,700.00	0.79	310.85	8,573.68	936.43	-1,071.90	1,422.21	3.00	-3.00	0.00
8,726.32	0.00	0.00	8,600.00	936.55	-1,072.04	1,422.39	3.00	-3.00	186.72
<b>Hold Vertical, Begin 2.00° Turn</b>									
8,775.82	0.99	240.02	8,649.50	936.34	-1,072.41	1,422.54	2.00	2.00	-242.39
<b>Hold 0.99 Inc at 240.00 Azm</b>									
8,800.00	0.99	240.02	8,673.67	936.13	-1,072.77	1,422.69	0.00	0.00	0.00
8,833.33	0.99	240.02	8,707.00	935.84	-1,073.27	1,422.90	0.00	0.00	0.00



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 13B-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 J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 13B-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>WILLIAMS_FORK.NPC</b>									
8,883.34	0.99	240.02	8,757.00	935.41	-1,074.02	1,423.21	0.00	0.00	0.00
<b>TOP_GAS.NPC</b>									
8,900.00	0.99	240.02	8,773.66	935.26	-1,074.27	1,423.32	0.00	0.00	0.00
9,000.00	0.99	240.02	8,873.64	934.40	-1,075.77	1,423.94	0.00	0.00	0.00
9,100.00	0.99	240.02	8,973.63	933.54	-1,077.26	1,424.56	0.00	0.00	0.00
9,200.00	0.99	240.02	9,073.61	932.67	-1,078.76	1,425.19	0.00	0.00	0.00
9,300.00	0.99	240.02	9,173.60	931.81	-1,080.25	1,425.81	0.00	0.00	0.00
9,400.00	0.99	240.02	9,273.58	930.95	-1,081.75	1,426.43	0.00	0.00	0.00
9,500.00	0.99	240.02	9,373.57	930.08	-1,083.25	1,427.06	0.00	0.00	0.00
9,600.00	0.99	240.02	9,473.55	929.22	-1,084.74	1,427.68	0.00	0.00	0.00
9,700.00	0.99	240.02	9,573.54	928.36	-1,086.24	1,428.30	0.00	0.00	0.00
9,800.00	0.99	240.02	9,673.52	927.49	-1,087.74	1,428.93	0.00	0.00	0.00
9,900.00	0.99	240.02	9,773.51	926.63	-1,089.23	1,429.55	0.00	0.00	0.00
10,000.00	0.99	240.02	9,873.49	925.77	-1,090.73	1,430.18	0.00	0.00	0.00
10,100.00	0.99	240.02	9,973.48	924.90	-1,092.23	1,430.80	0.00	0.00	0.00
10,200.00	0.99	240.02	10,073.46	924.04	-1,093.72	1,431.42	0.00	0.00	0.00
10,300.00	0.99	240.02	10,173.45	923.18	-1,095.22	1,432.05	0.00	0.00	0.00
10,400.00	0.99	240.02	10,273.43	922.31	-1,096.72	1,432.67	0.00	0.00	0.00
10,500.00	0.99	240.02	10,373.42	921.45	-1,098.21	1,433.29	0.00	0.00	0.00
10,600.00	0.99	240.02	10,473.40	920.59	-1,099.71	1,433.92	0.00	0.00	0.00
10,700.00	0.99	240.02	10,573.39	919.72	-1,101.20	1,434.54	0.00	0.00	0.00
10,800.00	0.99	240.02	10,673.37	918.86	-1,102.70	1,435.16	0.00	0.00	0.00
10,900.00	0.99	240.02	10,773.36	918.00	-1,104.20	1,435.79	0.00	0.00	0.00
11,000.00	0.99	240.02	10,873.34	917.13	-1,105.69	1,436.41	0.00	0.00	0.00
11,100.00	0.99	240.02	10,973.33	916.27	-1,107.19	1,437.03	0.00	0.00	0.00
11,200.00	0.99	240.02	11,073.31	915.41	-1,108.69	1,437.66	0.00	0.00	0.00
11,300.00	0.99	240.02	11,173.30	914.54	-1,110.18	1,438.28	0.00	0.00	0.00
11,307.70	0.99	240.02	11,181.00	914.48	-1,110.30	1,438.33	0.00	0.00	0.00
<b>CAMEO.NPC</b>									
11,400.00	0.99	240.02	11,273.28	913.68	-1,111.68	1,438.90	0.00	0.00	0.00
11,500.00	0.99	240.02	11,373.27	912.81	-1,113.18	1,439.53	0.00	0.00	0.00
11,600.00	0.99	240.02	11,473.25	911.95	-1,114.67	1,440.15	0.00	0.00	0.00
11,700.00	0.99	240.02	11,573.24	911.09	-1,116.17	1,440.78	0.00	0.00	0.00
11,800.00	0.99	240.02	11,673.22	910.22	-1,117.67	1,441.40	0.00	0.00	0.00
11,900.00	0.99	240.02	11,773.21	909.36	-1,119.16	1,442.02	0.00	0.00	0.00
12,000.00	0.99	240.02	11,873.19	908.50	-1,120.66	1,442.65	0.00	0.00	0.00
12,065.82	0.99	240.02	11,939.00	907.93	-1,121.64	1,443.06	0.00	0.00	0.00
<b>ROLLINS.NPC</b>									
12,100.00	0.99	240.02	11,973.18	907.63	-1,122.16	1,443.27	0.00	0.00	0.00
12,200.00	0.99	240.02	12,073.17	906.77	-1,123.65	1,443.89	0.00	0.00	0.00
12,265.84	0.99	240.02	12,139.00	906.20	-1,124.64	1,444.30	0.00	0.00	0.00
<b>TD at 12265.84</b>									
12,265.85	0.99	240.02	12,139.00	906.20	-1,124.64	1,444.30	0.00	0.00	0.00
<b>TD.MBL</b>									

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well ELU J14 FED 13B-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 J14 496	<b>North Reference:</b>	True
<b>Well:</b>	ELU J14 FED 13B-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 13B-14 - plan hits target center - Ellipse (radii L75.00 W50.00 on 240.00 azi)	0.00	0.00	12,139.00	906.20	-1,124.64	14,430,836.90	2,444,936.70	39.703286	-108.139875

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,354.80	3,312.00	WASATCH.NPC				
5,794.43	5,712.00	WASATCH_G.NPC				
6,587.31	6,492.00	FORT_UNION.NPC				
8,490.72	8,365.00	OHIO_CREEK.NPC				
8,833.33	8,707.00	WILLIAMS_FORK.NPC				
8,883.34	8,757.00	TOP_GAS.NPC				
11,307.70	11,181.00	CAMEO.NPC				
12,065.82	11,939.00	ROLLINS.NPC		0.00		
12,265.85	12,139.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Begin 3.00° Build
400.00	399.95	2.31	-1.23	Hold 3.00 Inc at 332.00 Azm
600.00	599.68	11.55	-6.14	Begin 3.00° Build & Turn
853.97	851.79	32.36	-26.53	Hold 10.34 Inc at 310.85 Azm
8,381.63	8,257.18	916.26	-1,048.58	Begin 3.00° Drop
8,726.32	8,600.00	936.55	-1,072.04	Hold Vertical, Begin 2.00° Turn
8,775.82	8,649.50	936.34	-1,072.41	Hold 0.99 Inc at 240.00 Azm
12,265.84	12,139.00	906.20	-1,124.64	TD at 12265.84