



Caerus Oil & Gas

**Rio Blanco County, CO (UTM 12N)
SEC 14-T4S-R96W ELU FED J14 496
ELU J14 FED 15D-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	753.96	16.62	223.04	746.22	-58.31	-54.44	3.00	223.04	79.77	
4	8254.83	16.62	223.04	7933.78	-1626.36	-1518.47	0.00	0.00	2224.98	
5	8808.79	0.00	0.00	8480.00	-1684.67	-1572.91	3.00	180.00	2304.75	
6	8856.65	0.96	240.02	8527.86	-1684.87	-1573.26	2.00	240.02	2305.14	
7	12299.27	0.96	240.02	11970.00	-1713.61	-1623.08	0.00	0.00	2360.27	BHL - ELU J14 15D-14 496

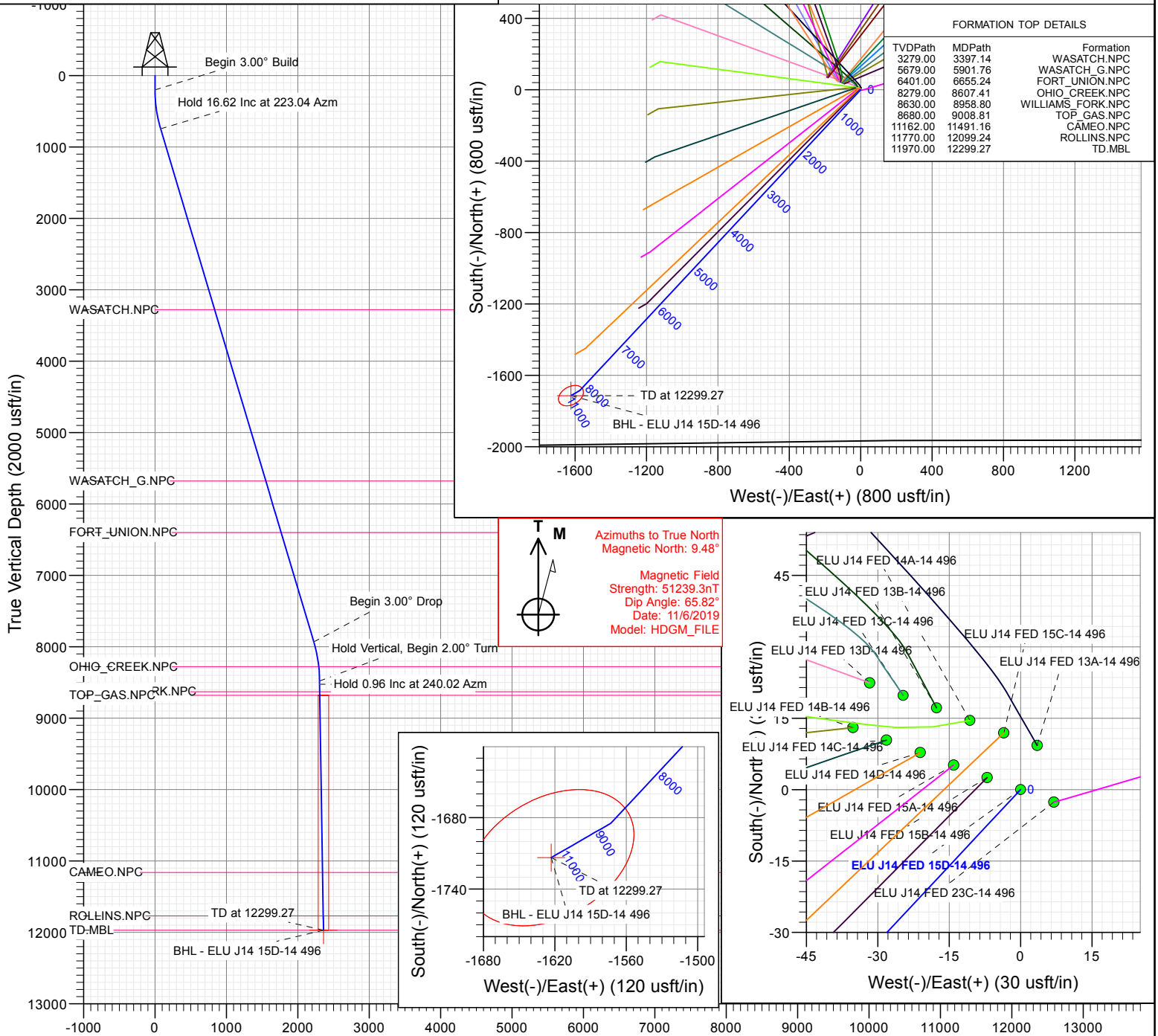
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU FED J14 496
Well: ELU J14 FED 15D-14 496
Wellbore: OH
Design: Plan 1

Plan 1
ELU J14 FED 15D-14 496
RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 15D-14 496, True North

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 15D-14 496	TD			223.45	Slot		0.00	0.00	0.00	
				11970.00	+N/-S		-1713.61	+E/-W		
							-1623.08	Latitude		
								39.696049		
								-108.141582		

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3279.00	3397.14	WASATCH.NPC
5679.00	5901.76	WASATCH_G.NPC
6401.00	6655.24	FORT_UNION.NPC
8279.00	8607.41	OHIO_CREEK.NPC
8630.00	8958.80	WILLIAMS_FORK.NPC
8680.00	9008.81	TOP_GAS.NPC
11162.00	11491.16	CAMEO.NPC
11770.00	12099.24	ROLLINS.NPC
11970.00	12299.27	TD.MBL



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15D-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU FED J14 496	North Reference:	True
Well:	ELU J14 FED 15D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Rio Blanco County, CO (UTM 12N)		
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						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 15D-14 496					
Well Position	+N/-S	-79.81 usft	Northing:	14,429,950.49 usft	Latitude:	39.700752
	+E/-W	186.36 usft	Easting:	2,446,107.92 usft	Longitude:	-108.135816
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	7,902.00 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	11/6/2019	9.48	65.82	51,239.30000000

Design	Plan 1				
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Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	223.45	

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	
753.96	16.62	223.04	746.22	-58.31	-54.44	3.00	3.00	0.00	223.04	
8,254.83	16.62	223.04	7,933.78	-1,626.36	-1,518.47	0.00	0.00	0.00	0.00	
8,808.79	0.00	0.00	8,480.00	-1,684.67	-1,572.91	3.00	-3.00	0.00	180.00	
8,856.65	0.96	240.02	8,527.87	-1,684.87	-1,573.26	2.00	2.00	-250.65	240.02	
12,299.27	0.96	240.02	11,970.00	-1,713.61	-1,623.08	0.00	0.00	0.00	0.00	BHL - ELU J14 15D

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15D-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU FED J14 496	North Reference:	True
Well:	ELU J14 FED 15D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
Begin 3.00° Build									
300.00	3.00	223.04	299.95	-1.91	-1.79	2.62	3.00	3.00	0.00
400.00	6.00	223.04	399.63	-7.65	-7.14	10.46	3.00	3.00	0.00
500.00	9.00	223.04	498.77	-17.19	-16.05	23.51	3.00	3.00	0.00
600.00	12.00	223.04	597.08	-30.51	-28.48	41.73	3.00	3.00	0.00
700.00	15.00	223.04	694.31	-47.57	-44.41	65.08	3.00	3.00	0.00
753.96	16.62	223.04	746.23	-58.31	-54.44	79.78	3.00	3.00	0.00
Hold 16.62 Inc at 223.04 Azm									
800.00	16.62	223.04	790.34	-67.94	-63.43	92.94	0.00	0.00	0.00
900.00	16.62	223.04	886.16	-88.84	-82.95	121.54	0.00	0.00	0.00
1,000.00	16.62	223.04	981.99	-109.75	-102.47	150.14	0.00	0.00	0.00
1,100.00	16.62	223.04	1,077.81	-130.65	-121.98	178.74	0.00	0.00	0.00
1,200.00	16.62	223.04	1,173.63	-151.56	-141.50	207.34	0.00	0.00	0.00
1,300.00	16.62	223.04	1,269.46	-172.46	-161.02	235.94	0.00	0.00	0.00
1,400.00	16.62	223.04	1,365.28	-193.37	-180.54	264.54	0.00	0.00	0.00
1,500.00	16.62	223.04	1,461.10	-214.27	-200.06	293.14	0.00	0.00	0.00
1,600.00	16.62	223.04	1,556.93	-235.18	-219.57	321.74	0.00	0.00	0.00
1,700.00	16.62	223.04	1,652.75	-256.08	-239.09	350.34	0.00	0.00	0.00
1,800.00	16.62	223.04	1,748.57	-276.99	-258.61	378.94	0.00	0.00	0.00
1,900.00	16.62	223.04	1,844.39	-297.89	-278.13	407.54	0.00	0.00	0.00
2,000.00	16.62	223.04	1,940.22	-318.79	-297.65	436.14	0.00	0.00	0.00
2,100.00	16.62	223.04	2,036.04	-339.70	-317.16	464.73	0.00	0.00	0.00
2,200.00	16.62	223.04	2,131.86	-360.60	-336.68	493.33	0.00	0.00	0.00
2,300.00	16.62	223.04	2,227.69	-381.51	-356.20	521.93	0.00	0.00	0.00
2,400.00	16.62	223.04	2,323.51	-402.41	-375.72	550.53	0.00	0.00	0.00
2,500.00	16.62	223.04	2,419.33	-423.32	-395.24	579.13	0.00	0.00	0.00
2,600.00	16.62	223.04	2,515.15	-444.22	-414.75	607.73	0.00	0.00	0.00
2,700.00	16.62	223.04	2,610.98	-465.13	-434.27	636.33	0.00	0.00	0.00
2,800.00	16.62	223.04	2,706.80	-486.03	-453.79	664.93	0.00	0.00	0.00
2,900.00	16.62	223.04	2,802.62	-506.94	-473.31	693.53	0.00	0.00	0.00
3,000.00	16.62	223.04	2,898.45	-527.84	-492.83	722.13	0.00	0.00	0.00
3,100.00	16.62	223.04	2,994.27	-548.75	-512.34	750.73	0.00	0.00	0.00
3,200.00	16.62	223.04	3,090.09	-569.65	-531.86	779.33	0.00	0.00	0.00
3,300.00	16.62	223.04	3,185.92	-590.56	-551.38	807.93	0.00	0.00	0.00
3,397.14	16.62	223.04	3,279.00	-610.87	-570.34	835.71	0.00	0.00	0.00
WASATCH.NPC									
3,400.00	16.62	223.04	3,281.74	-611.46	-570.90	836.53	0.00	0.00	0.00
3,500.00	16.62	223.04	3,377.56	-632.37	-590.42	865.13	0.00	0.00	0.00
3,600.00	16.62	223.04	3,473.38	-653.27	-609.94	893.73	0.00	0.00	0.00
3,700.00	16.62	223.04	3,569.21	-674.18	-629.45	922.32	0.00	0.00	0.00
3,800.00	16.62	223.04	3,665.03	-695.08	-648.97	950.92	0.00	0.00	0.00
3,900.00	16.62	223.04	3,760.85	-715.99	-668.49	979.52	0.00	0.00	0.00
4,000.00	16.62	223.04	3,856.68	-736.89	-688.01	1,008.12	0.00	0.00	0.00
4,100.00	16.62	223.04	3,952.50	-757.80	-707.53	1,036.72	0.00	0.00	0.00
4,200.00	16.62	223.04	4,048.32	-778.70	-727.04	1,065.32	0.00	0.00	0.00
4,300.00	16.62	223.04	4,144.14	-799.61	-746.56	1,093.92	0.00	0.00	0.00
4,400.00	16.62	223.04	4,239.97	-820.51	-766.08	1,122.52	0.00	0.00	0.00
4,500.00	16.62	223.04	4,335.79	-841.42	-785.60	1,151.12	0.00	0.00	0.00
4,600.00	16.62	223.04	4,431.61	-862.32	-805.12	1,179.72	0.00	0.00	0.00
4,700.00	16.62	223.04	4,527.44	-883.23	-824.63	1,208.32	0.00	0.00	0.00
4,800.00	16.62	223.04	4,623.26	-904.13	-844.15	1,236.92	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15D-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU FED J14 496	North Reference:	True
Well:	ELU J14 FED 15D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	16.62	223.04	4,719.08	-925.04	-863.67	1,265.52	0.00	0.00	0.00
5,000.00	16.62	223.04	4,814.90	-945.94	-883.19	1,294.12	0.00	0.00	0.00
5,100.00	16.62	223.04	4,910.73	-966.85	-902.71	1,322.72	0.00	0.00	0.00
5,200.00	16.62	223.04	5,006.55	-987.75	-922.22	1,351.32	0.00	0.00	0.00
5,300.00	16.62	223.04	5,102.37	-1,008.66	-941.74	1,379.92	0.00	0.00	0.00
5,400.00	16.62	223.04	5,198.20	-1,029.56	-961.26	1,408.51	0.00	0.00	0.00
5,500.00	16.62	223.04	5,294.02	-1,050.47	-980.78	1,437.11	0.00	0.00	0.00
5,600.00	16.62	223.04	5,389.84	-1,071.37	-1,000.30	1,465.71	0.00	0.00	0.00
5,700.00	16.62	223.04	5,485.67	-1,092.27	-1,019.81	1,494.31	0.00	0.00	0.00
5,800.00	16.62	223.04	5,581.49	-1,113.18	-1,039.33	1,522.91	0.00	0.00	0.00
5,900.00	16.62	223.04	5,677.31	-1,134.08	-1,058.85	1,551.51	0.00	0.00	0.00
5,901.76	16.62	223.04	5,679.00	-1,134.45	-1,059.19	1,552.02	0.00	0.00	0.00
WASATCH_G.NPC									
6,000.00	16.62	223.04	5,773.13	-1,154.99	-1,078.37	1,580.11	0.00	0.00	0.00
6,100.00	16.62	223.04	5,868.96	-1,175.89	-1,097.89	1,608.71	0.00	0.00	0.00
6,200.00	16.62	223.04	5,964.78	-1,196.80	-1,117.40	1,637.31	0.00	0.00	0.00
6,300.00	16.62	223.04	6,060.60	-1,217.70	-1,136.92	1,665.91	0.00	0.00	0.00
6,400.00	16.62	223.04	6,156.43	-1,238.61	-1,156.44	1,694.51	0.00	0.00	0.00
6,500.00	16.62	223.04	6,252.25	-1,259.51	-1,175.96	1,723.11	0.00	0.00	0.00
6,600.00	16.62	223.04	6,348.07	-1,280.42	-1,195.48	1,751.71	0.00	0.00	0.00
6,655.24	16.62	223.04	6,401.00	-1,291.97	-1,206.26	1,767.50	0.00	0.00	0.00
FORT_UNION.NPC									
6,700.00	16.62	223.04	6,443.89	-1,301.32	-1,214.99	1,780.31	0.00	0.00	0.00
6,800.00	16.62	223.04	6,539.72	-1,322.23	-1,234.51	1,808.91	0.00	0.00	0.00
6,900.00	16.62	223.04	6,635.54	-1,343.13	-1,254.03	1,837.51	0.00	0.00	0.00
7,000.00	16.62	223.04	6,731.36	-1,364.04	-1,273.55	1,866.10	0.00	0.00	0.00
7,100.00	16.62	223.04	6,827.19	-1,384.94	-1,293.07	1,894.70	0.00	0.00	0.00
7,200.00	16.62	223.04	6,923.01	-1,405.85	-1,312.58	1,923.30	0.00	0.00	0.00
7,300.00	16.62	223.04	7,018.83	-1,426.75	-1,332.10	1,951.90	0.00	0.00	0.00
7,400.00	16.62	223.04	7,114.66	-1,447.66	-1,351.62	1,980.50	0.00	0.00	0.00
7,500.00	16.62	223.04	7,210.48	-1,468.56	-1,371.14	2,009.10	0.00	0.00	0.00
7,600.00	16.62	223.04	7,306.30	-1,489.47	-1,390.66	2,037.70	0.00	0.00	0.00
7,700.00	16.62	223.04	7,402.12	-1,510.37	-1,410.18	2,066.30	0.00	0.00	0.00
7,800.00	16.62	223.04	7,497.95	-1,531.28	-1,429.69	2,094.90	0.00	0.00	0.00
7,900.00	16.62	223.04	7,593.77	-1,552.18	-1,449.21	2,123.50	0.00	0.00	0.00
8,000.00	16.62	223.04	7,689.59	-1,573.09	-1,468.73	2,152.10	0.00	0.00	0.00
8,100.00	16.62	223.04	7,785.42	-1,593.99	-1,488.25	2,180.70	0.00	0.00	0.00
8,200.00	16.62	223.04	7,881.24	-1,614.90	-1,507.77	2,209.30	0.00	0.00	0.00
8,254.83	16.62	223.04	7,933.78	-1,626.36	-1,518.47	2,224.98	0.00	0.00	0.00
Begin 3.00° Drop									
8,300.00	15.26	223.04	7,977.21	-1,635.43	-1,526.93	2,237.38	3.00	-3.00	0.00
8,400.00	12.26	223.04	8,074.33	-1,652.81	-1,543.17	2,261.17	3.00	-3.00	0.00
8,500.00	9.26	223.04	8,172.56	-1,666.46	-1,555.91	2,279.85	3.00	-3.00	0.00
8,600.00	6.26	223.04	8,271.63	-1,676.34	-1,565.13	2,293.35	3.00	-3.00	0.00
8,607.41	6.04	223.04	8,279.00	-1,676.92	-1,565.67	2,294.15	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,700.00	3.26	223.04	8,371.27	-1,682.41	-1,570.80	2,301.66	3.00	-3.00	0.00
8,800.00	0.26	223.04	8,471.21	-1,684.66	-1,572.90	2,304.73	3.00	-3.00	0.00
8,808.79	0.00	0.00	8,480.00	-1,684.67	-1,572.91	2,304.75	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,851.63	0.86	240.02	8,522.84	-1,684.83	-1,573.19	2,305.06	2.00	2.00	0.00
Hold 0.86 Inc at 240.00 Azm									
8,856.65	0.96	240.02	8,527.87	-1,684.87	-1,573.26	2,305.14	2.00	2.00	0.00



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15D-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU FED J14 496	North Reference:	True
Well:	ELU J14 FED 15D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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)	
8,900.00	0.96	240.02	8,571.21	-1,685.23	-1,573.88	2,305.83	0.00	0.00	0.00	
8,958.80	0.96	240.02	8,630.00	-1,685.72	-1,574.73	2,306.77	0.00	0.00	0.00	
WILLIAMS_FORK.NPC										
9,000.00	0.96	240.02	8,671.19	-1,686.07	-1,575.33	2,307.43	0.00	0.00	0.00	
9,008.81	0.96	240.02	8,680.00	-1,686.14	-1,575.46	2,307.57	0.00	0.00	0.00	
TOP_GAS.NPC										
9,100.00	0.96	240.02	8,771.18	-1,686.90	-1,576.78	2,309.03	0.00	0.00	0.00	
9,200.00	0.96	240.02	8,871.16	-1,687.74	-1,578.23	2,310.63	0.00	0.00	0.00	
9,300.00	0.96	240.02	8,971.15	-1,688.57	-1,579.67	2,312.24	0.00	0.00	0.00	
9,400.00	0.96	240.02	9,071.14	-1,689.41	-1,581.12	2,313.84	0.00	0.00	0.00	
9,500.00	0.96	240.02	9,171.12	-1,690.24	-1,582.57	2,315.44	0.00	0.00	0.00	
9,600.00	0.96	240.02	9,271.11	-1,691.08	-1,584.01	2,317.04	0.00	0.00	0.00	
9,700.00	0.96	240.02	9,371.09	-1,691.91	-1,585.46	2,318.64	0.00	0.00	0.00	
9,800.00	0.96	240.02	9,471.08	-1,692.75	-1,586.91	2,320.24	0.00	0.00	0.00	
9,900.00	0.96	240.02	9,571.07	-1,693.58	-1,588.36	2,321.84	0.00	0.00	0.00	
10,000.00	0.96	240.02	9,671.05	-1,694.42	-1,589.80	2,323.45	0.00	0.00	0.00	
10,100.00	0.96	240.02	9,771.04	-1,695.25	-1,591.25	2,325.05	0.00	0.00	0.00	
10,200.00	0.96	240.02	9,871.02	-1,696.09	-1,592.70	2,326.65	0.00	0.00	0.00	
10,300.00	0.96	240.02	9,971.01	-1,696.92	-1,594.15	2,328.25	0.00	0.00	0.00	
10,400.00	0.96	240.02	10,071.00	-1,697.75	-1,595.59	2,329.85	0.00	0.00	0.00	
10,500.00	0.96	240.02	10,170.98	-1,698.59	-1,597.04	2,331.45	0.00	0.00	0.00	
10,600.00	0.96	240.02	10,270.97	-1,699.42	-1,598.49	2,333.05	0.00	0.00	0.00	
10,700.00	0.96	240.02	10,370.95	-1,700.26	-1,599.93	2,334.66	0.00	0.00	0.00	
10,800.00	0.96	240.02	10,470.94	-1,701.09	-1,601.38	2,336.26	0.00	0.00	0.00	
10,900.00	0.96	240.02	10,570.93	-1,701.93	-1,602.83	2,337.86	0.00	0.00	0.00	
11,000.00	0.96	240.02	10,670.91	-1,702.76	-1,604.28	2,339.46	0.00	0.00	0.00	
11,100.00	0.96	240.02	10,770.90	-1,703.60	-1,605.72	2,341.06	0.00	0.00	0.00	
11,200.00	0.96	240.02	10,870.88	-1,704.43	-1,607.17	2,342.66	0.00	0.00	0.00	
11,300.00	0.96	240.02	10,970.87	-1,705.27	-1,608.62	2,344.26	0.00	0.00	0.00	
11,400.00	0.96	240.02	11,070.86	-1,706.10	-1,610.07	2,345.86	0.00	0.00	0.00	
11,491.16	0.96	240.02	11,162.00	-1,706.86	-1,611.38	2,347.32	0.00	0.00	0.00	
CAMEO.NPC										
11,500.00	0.96	240.02	11,170.84	-1,706.94	-1,611.51	2,347.47	0.00	0.00	0.00	
11,600.00	0.96	240.02	11,270.83	-1,707.77	-1,612.96	2,349.07	0.00	0.00	0.00	
11,700.00	0.96	240.02	11,370.81	-1,708.61	-1,614.41	2,350.67	0.00	0.00	0.00	
11,800.00	0.96	240.02	11,470.80	-1,709.44	-1,615.85	2,352.27	0.00	0.00	0.00	
11,900.00	0.96	240.02	11,570.79	-1,710.28	-1,617.30	2,353.87	0.00	0.00	0.00	
12,000.00	0.96	240.02	11,670.77	-1,711.11	-1,618.75	2,355.47	0.00	0.00	0.00	
12,099.24	0.96	240.02	11,770.00	-1,711.94	-1,620.18	2,357.06	0.00	0.00	0.00	
ROLLINS.NPC										
12,100.00	0.96	240.02	11,770.76	-1,711.95	-1,620.20	2,357.07	0.00	0.00	0.00	
12,200.00	0.96	240.02	11,870.74	-1,712.78	-1,621.64	2,358.68	0.00	0.00	0.00	
12,299.27	0.96	240.02	11,970.00	-1,713.61	-1,623.08	2,360.27	0.00	0.00	0.00	
TD.MBL										

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15D-14 496
Company:	Caerus Oil & Gas	TVD Reference:	RKB @ 7932.00usft
Project:	Rio Blanco County, CO (UTM 12N)	MD Reference:	RKB @ 7932.00usft
Site:	SEC 14-T4S-R96W ELU FED J14 496	North Reference:	True
Well:	ELU J14 FED 15D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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 15D-1	0.00	0.00	11,970.00	-1,713.61	-1,623.08	14,428,185.90	2,444,540.40	39.696049	-108.141582
- 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)			(°)	(°)	
3,397.14	3,279.00	WASATCH.NPC				
5,901.76	5,679.00	WASATCH_G.NPC				
6,655.24	6,401.00	FORT_UNION.NPC				
8,607.41	8,279.00	OHIO_CREEK.NPC				
8,958.80	8,630.00	WILLIAMS_FORK.NPC				
9,008.81	8,680.00	TOP_GAS.NPC				
11,491.16	11,162.00	CAMEO.NPC				
12,099.24	11,770.00	ROLLINS.NPC		0.00		
12,299.27	11,970.00	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
753.96	746.23	-58.31	-54.44	Hold 16.62 Inc at 223.04 Azm
8,254.83	7,933.78	-1,626.36	-1,518.47	Begin 3.00° Drop
8,808.79	8,480.00	-1,684.67	-1,572.91	Hold Vertical, Begin 2.00° Turn
8,851.63	8,522.84	-1,684.83	-1,573.19	Hold 0.86 Inc at 240.00 Azm
12,703.22				TD at 12703.22