



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 13D-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	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	
3	446.01	8.13	290.06	445.10	6.58	-18.03	3.00	290.06	19.18	
4	8360.35	8.13	290.06	8279.90	390.47	-1069.42	0.00	0.00	1137.75	
5	8631.36	0.00	0.00	8550.00	397.05	-1087.45	3.00	180.00	1156.93	
6	8676.42	0.90	240.02	8595.06	396.87	-1087.76	2.00	240.02	1157.17	
7	12187.80	0.90	240.02	12106.00	369.28	-1135.59	0.00	0.00	1194.13	BHL - ELU J14 13D-14 496

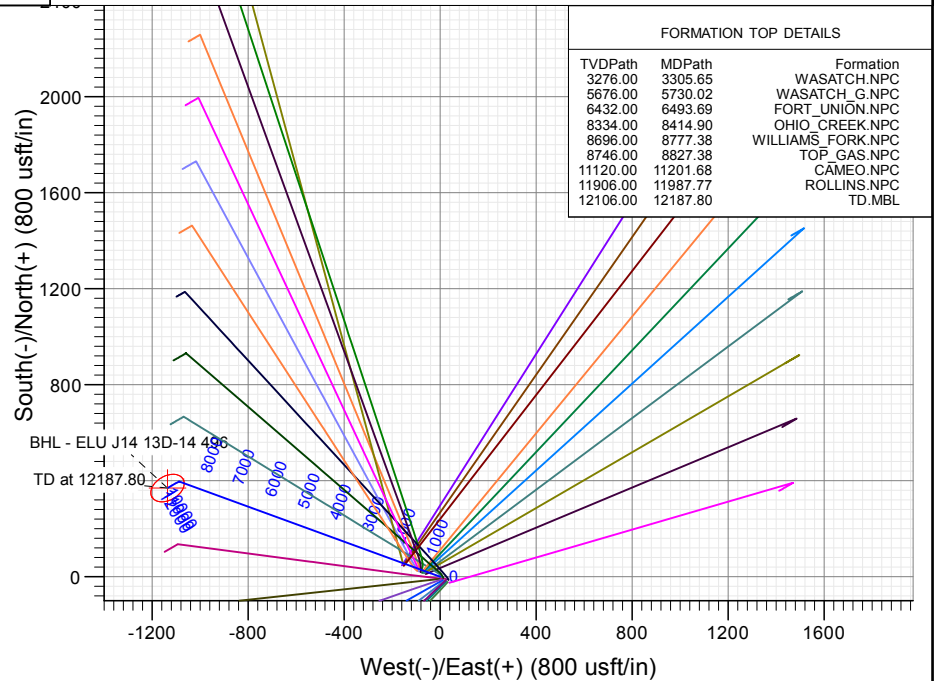
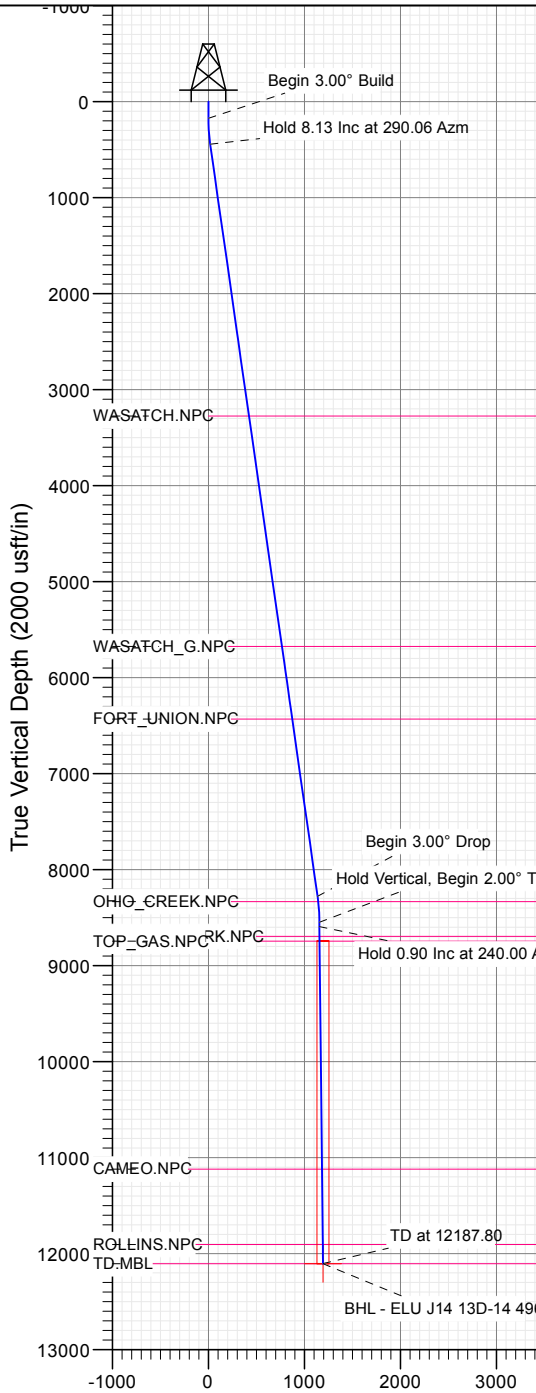
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 13D-14 496
Wellbore: OH
Design: Plan 1

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

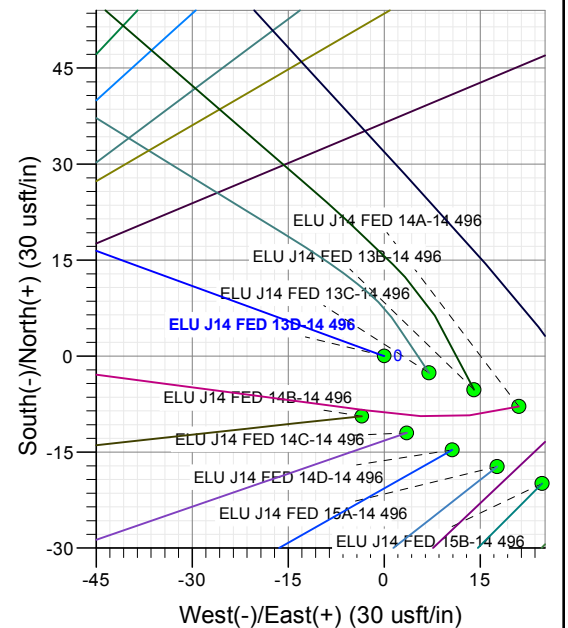
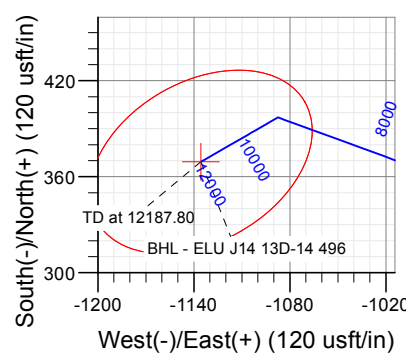
Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 13D-14 496	TD			288.01	Slot		0.00	0.00	0.00	
				TVD	+N/-S	+E/-W	Latitude	Longitude		
				12106.00	369.28	-1135.59	39.701827	-108.139963		

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3276.00	3305.65	WASATCH.NPC
5676.00	5730.02	WASATCH_G.NPC
6432.00	6493.69	FORT_UNION.NPC
8334.00	8414.90	OHIO_CREEK.NPC
8696.00	8777.38	WILLIAMS_FORK.NPC
8746.00	8827.38	TOP_GAS.NPC
1120.00	11201.68	CAMEO.NPC
11906.00	11987.77	ROLLINS.NPC
12106.00	12187.80	TD.MBL



Azimuths to True North
Magnetic North: 9.48°
Magnetic Field
Strength: 51239.3nT
Dip Angle: 65.82°
Date: 11/6/2019
Model: HDGM_FILE



Vertical Section at 288.01° (2000 usft/in)

WELL DETAILS: ELU J14 FED 13D-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14429971.89	2446075.51	39.700814	-108.135929



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13D-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 J14 496	North Reference:	True
Well:	ELU J14 FED 13D-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 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 13D-14 496					
Well Position	+N/-S	-57.38 usft	Northing:	14,429,971.89 usft	Latitude:	39.700814
	+E/-W	154.66 usft	Easting:	2,446,075.52 usft	Longitude:	-108.135929
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	288.01	

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	
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	0.00	
446.01	8.13	290.06	445.10	6.58	-18.03	3.00	3.00	0.00	290.06	
8,360.36	8.13	290.06	8,279.90	390.47	-1,069.42	0.00	0.00	0.00	0.00	
8,631.36	0.00	0.00	8,550.00	397.05	-1,087.45	3.00	-3.00	0.00	180.00	
8,676.42	0.90	240.02	8,595.06	396.87	-1,087.76	2.00	2.00	-266.27	240.02	
12,187.80	0.90	240.02	12,106.00	369.28	-1,135.59	0.00	0.00	0.00	0.00	BHL - ELU J14 13D



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13D-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 J14 496	North Reference:	True
Well:	ELU J14 FED 13D-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
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin 3.00° Build									
200.00	0.75	290.06	200.00	0.06	-0.15	0.16	3.00	3.00	0.00
300.00	3.75	290.06	299.91	1.40	-3.84	4.09	3.00	3.00	0.00
400.00	6.75	290.06	399.48	4.54	-12.44	13.23	3.00	3.00	0.00
446.01	8.13	290.06	445.10	6.58	-18.03	19.18	3.00	3.00	0.00
Hold 8.13 Inc at 290.06 Azm									
500.00	8.13	290.06	498.55	9.20	-25.20	26.81	0.00	0.00	0.00
600.00	8.13	290.06	597.54	14.05	-38.49	40.95	0.00	0.00	0.00
700.00	8.13	290.06	696.54	18.90	-51.77	55.08	0.00	0.00	0.00
800.00	8.13	290.06	795.53	23.75	-65.06	69.21	0.00	0.00	0.00
900.00	8.13	290.06	894.53	28.60	-78.34	83.35	0.00	0.00	0.00
1,000.00	8.13	290.06	993.52	33.45	-91.63	97.48	0.00	0.00	0.00
1,100.00	8.13	290.06	1,092.52	38.31	-104.91	111.61	0.00	0.00	0.00
1,200.00	8.13	290.06	1,191.51	43.16	-118.20	125.75	0.00	0.00	0.00
1,300.00	8.13	290.06	1,290.51	48.01	-131.48	139.88	0.00	0.00	0.00
1,400.00	8.13	290.06	1,389.50	52.86	-144.77	154.01	0.00	0.00	0.00
1,500.00	8.13	290.06	1,488.50	57.71	-158.05	168.15	0.00	0.00	0.00
1,600.00	8.13	290.06	1,587.49	62.56	-171.33	182.28	0.00	0.00	0.00
1,700.00	8.13	290.06	1,686.49	67.41	-184.62	196.41	0.00	0.00	0.00
1,800.00	8.13	290.06	1,785.48	72.26	-197.90	210.55	0.00	0.00	0.00
1,900.00	8.13	290.06	1,884.48	77.11	-211.19	224.68	0.00	0.00	0.00
2,000.00	8.13	290.06	1,983.47	81.96	-224.47	238.82	0.00	0.00	0.00
2,100.00	8.13	290.06	2,082.47	86.81	-237.76	252.95	0.00	0.00	0.00
2,200.00	8.13	290.06	2,181.46	91.66	-251.04	267.08	0.00	0.00	0.00
2,300.00	8.13	290.06	2,280.46	96.51	-264.33	281.22	0.00	0.00	0.00
2,400.00	8.13	290.06	2,379.45	101.36	-277.61	295.35	0.00	0.00	0.00
2,500.00	8.13	290.06	2,478.45	106.21	-290.90	309.48	0.00	0.00	0.00
2,600.00	8.13	290.06	2,577.44	111.06	-304.18	323.62	0.00	0.00	0.00
2,700.00	8.13	290.06	2,676.44	115.91	-317.46	337.75	0.00	0.00	0.00
2,800.00	8.13	290.06	2,775.43	120.76	-330.75	351.88	0.00	0.00	0.00
2,900.00	8.13	290.06	2,874.43	125.61	-344.03	366.02	0.00	0.00	0.00
3,000.00	8.13	290.06	2,973.42	130.46	-357.32	380.15	0.00	0.00	0.00
3,100.00	8.13	290.06	3,072.42	135.31	-370.60	394.28	0.00	0.00	0.00
3,200.00	8.13	290.06	3,171.41	140.17	-383.89	408.42	0.00	0.00	0.00
3,300.00	8.13	290.06	3,270.41	145.02	-397.17	422.55	0.00	0.00	0.00
3,305.65	8.13	290.06	3,276.00	145.29	-397.92	423.35	0.00	0.00	0.00
WASATCH.NPC									
3,400.00	8.13	290.06	3,369.40	149.87	-410.46	436.68	0.00	0.00	0.00
3,500.00	8.13	290.06	3,468.40	154.72	-423.74	450.82	0.00	0.00	0.00
3,600.00	8.13	290.06	3,567.39	159.57	-437.03	464.95	0.00	0.00	0.00
3,700.00	8.13	290.06	3,666.39	164.42	-450.31	479.08	0.00	0.00	0.00
3,800.00	8.13	290.06	3,765.38	169.27	-463.59	493.22	0.00	0.00	0.00
3,900.00	8.13	290.06	3,864.38	174.12	-476.88	507.35	0.00	0.00	0.00
4,000.00	8.13	290.06	3,963.37	178.97	-490.16	521.48	0.00	0.00	0.00
4,100.00	8.13	290.06	4,062.37	183.82	-503.45	535.62	0.00	0.00	0.00
4,200.00	8.13	290.06	4,161.36	188.67	-516.73	549.75	0.00	0.00	0.00
4,300.00	8.13	290.06	4,260.36	193.52	-530.02	563.88	0.00	0.00	0.00
4,400.00	8.13	290.06	4,359.35	198.37	-543.30	578.02	0.00	0.00	0.00
4,500.00	8.13	290.06	4,458.35	203.22	-556.59	592.15	0.00	0.00	0.00
4,600.00	8.13	290.06	4,557.34	208.07	-569.87	606.28	0.00	0.00	0.00
4,700.00	8.13	290.06	4,656.34	212.92	-583.16	620.42	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13D-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 J14 496	North Reference:	True
Well:	ELU J14 FED 13D-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)
4,800.00	8.13	290.06	4,755.33	217.77	-596.44	634.55	0.00	0.00	0.00
4,900.00	8.13	290.06	4,854.33	222.62	-609.73	648.68	0.00	0.00	0.00
5,000.00	8.13	290.06	4,953.32	227.47	-623.01	662.82	0.00	0.00	0.00
5,100.00	8.13	290.06	5,052.31	232.32	-636.29	676.95	0.00	0.00	0.00
5,200.00	8.13	290.06	5,151.31	237.17	-649.58	691.08	0.00	0.00	0.00
5,300.00	8.13	290.06	5,250.30	242.02	-662.86	705.22	0.00	0.00	0.00
5,400.00	8.13	290.06	5,349.30	246.88	-676.15	719.35	0.00	0.00	0.00
5,500.00	8.13	290.06	5,448.29	251.73	-689.43	733.48	0.00	0.00	0.00
5,600.00	8.13	290.06	5,547.29	256.58	-702.72	747.62	0.00	0.00	0.00
5,700.00	8.13	290.06	5,646.28	261.43	-716.00	761.75	0.00	0.00	0.00
5,730.02	8.13	290.06	5,676.00	262.88	-719.99	765.99	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	8.13	290.06	5,745.28	266.28	-729.29	775.88	0.00	0.00	0.00
5,900.00	8.13	290.06	5,844.27	271.13	-742.57	790.02	0.00	0.00	0.00
6,000.00	8.13	290.06	5,943.27	275.98	-755.86	804.15	0.00	0.00	0.00
6,100.00	8.13	290.06	6,042.26	280.83	-769.14	818.28	0.00	0.00	0.00
6,200.00	8.13	290.06	6,141.26	285.68	-782.42	832.42	0.00	0.00	0.00
6,300.00	8.13	290.06	6,240.25	290.53	-795.71	846.55	0.00	0.00	0.00
6,400.00	8.13	290.06	6,339.25	295.38	-808.99	860.68	0.00	0.00	0.00
6,493.69	8.13	290.06	6,432.00	299.92	-821.44	873.93	0.00	0.00	0.00
FORT_UNION.NPC									
6,500.00	8.13	290.06	6,438.24	300.23	-822.28	874.82	0.00	0.00	0.00
6,600.00	8.13	290.06	6,537.24	305.08	-835.56	888.95	0.00	0.00	0.00
6,700.00	8.13	290.06	6,636.23	309.93	-848.85	903.08	0.00	0.00	0.00
6,800.00	8.13	290.06	6,735.23	314.78	-862.13	917.22	0.00	0.00	0.00
6,900.00	8.13	290.06	6,834.22	319.63	-875.42	931.35	0.00	0.00	0.00
7,000.00	8.13	290.06	6,933.22	324.48	-888.70	945.48	0.00	0.00	0.00
7,100.00	8.13	290.06	7,032.21	329.33	-901.99	959.62	0.00	0.00	0.00
7,200.00	8.13	290.06	7,131.21	334.18	-915.27	973.75	0.00	0.00	0.00
7,300.00	8.13	290.06	7,230.20	339.03	-928.55	987.88	0.00	0.00	0.00
7,400.00	8.13	290.06	7,329.20	343.88	-941.84	1,002.02	0.00	0.00	0.00
7,500.00	8.13	290.06	7,428.19	348.74	-955.12	1,016.15	0.00	0.00	0.00
7,600.00	8.13	290.06	7,527.19	353.59	-968.41	1,030.28	0.00	0.00	0.00
7,700.00	8.13	290.06	7,626.18	358.44	-981.69	1,044.42	0.00	0.00	0.00
7,800.00	8.13	290.06	7,725.18	363.29	-994.98	1,058.55	0.00	0.00	0.00
7,900.00	8.13	290.06	7,824.17	368.14	-1,008.26	1,072.68	0.00	0.00	0.00
8,000.00	8.13	290.06	7,923.17	372.99	-1,021.55	1,086.82	0.00	0.00	0.00
8,100.00	8.13	290.06	8,022.16	377.84	-1,034.83	1,100.95	0.00	0.00	0.00
8,200.00	8.13	290.06	8,121.16	382.69	-1,048.12	1,115.08	0.00	0.00	0.00
8,300.00	8.13	290.06	8,220.15	387.54	-1,061.40	1,129.22	0.00	0.00	0.00
8,360.35	8.13	290.06	8,279.90	390.47	-1,069.42	1,137.75	0.00	0.00	0.00
Begin 3.00° Drop									
8,400.00	6.94	290.06	8,319.20	392.25	-1,074.30	1,142.94	3.00	-3.00	0.00
8,414.90	6.49	290.06	8,334.00	392.85	-1,075.94	1,144.69	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,500.00	3.94	290.06	8,418.74	395.50	-1,083.21	1,152.42	3.00	-3.00	0.00
8,600.00	0.94	290.06	8,518.64	396.96	-1,087.21	1,156.67	3.00	-3.00	0.00
8,631.36	0.00	290.06	8,550.00	397.05	-1,087.45	1,156.93	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,676.42	0.90	240.02	8,595.06	396.87	-1,087.76	1,157.17	2.00	2.00	-111.04
Hold 0.90 Inc at 240.00 Azm									
8,700.00	0.90	240.02	8,618.63	396.69	-1,088.08	1,157.42	0.00	0.00	0.00
8,777.38	0.90	240.02	8,696.00	396.08	-1,089.13	1,158.23	0.00	0.00	0.00



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13D-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 J14 496	North Reference:	True
Well:	ELU J14 FED 13D-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)
WILLIAMS_FORK.NPC									
8,800.00	0.90	240.02	8,718.62	395.90	-1,089.44	1,158.47	0.00	0.00	0.00
8,827.38	0.90	240.02	8,746.00	395.69	-1,089.81	1,158.76	0.00	0.00	0.00
TOP_GAS.NPC									
8,900.00	0.90	240.02	8,818.61	395.12	-1,090.80	1,159.52	0.00	0.00	0.00
9,000.00	0.90	240.02	8,918.60	394.33	-1,092.17	1,160.57	0.00	0.00	0.00
9,100.00	0.90	240.02	9,018.58	393.54	-1,093.53	1,161.63	0.00	0.00	0.00
9,200.00	0.90	240.02	9,118.57	392.76	-1,094.89	1,162.68	0.00	0.00	0.00
9,300.00	0.90	240.02	9,218.56	391.97	-1,096.25	1,163.73	0.00	0.00	0.00
9,400.00	0.90	240.02	9,318.55	391.19	-1,097.61	1,164.78	0.00	0.00	0.00
9,500.00	0.90	240.02	9,418.53	390.40	-1,098.98	1,165.84	0.00	0.00	0.00
9,600.00	0.90	240.02	9,518.52	389.61	-1,100.34	1,166.89	0.00	0.00	0.00
9,700.00	0.90	240.02	9,618.51	388.83	-1,101.70	1,167.94	0.00	0.00	0.00
9,800.00	0.90	240.02	9,718.50	388.04	-1,103.06	1,168.99	0.00	0.00	0.00
9,900.00	0.90	240.02	9,818.48	387.26	-1,104.43	1,170.05	0.00	0.00	0.00
10,000.00	0.90	240.02	9,918.47	386.47	-1,105.79	1,171.10	0.00	0.00	0.00
10,100.00	0.90	240.02	10,018.46	385.69	-1,107.15	1,172.15	0.00	0.00	0.00
10,200.00	0.90	240.02	10,118.45	384.90	-1,108.51	1,173.21	0.00	0.00	0.00
10,300.00	0.90	240.02	10,218.43	384.11	-1,109.88	1,174.26	0.00	0.00	0.00
10,400.00	0.90	240.02	10,318.42	383.33	-1,111.24	1,175.31	0.00	0.00	0.00
10,500.00	0.90	240.02	10,418.41	382.54	-1,112.60	1,176.36	0.00	0.00	0.00
10,600.00	0.90	240.02	10,518.40	381.76	-1,113.96	1,177.42	0.00	0.00	0.00
10,700.00	0.90	240.02	10,618.38	380.97	-1,115.33	1,178.47	0.00	0.00	0.00
10,800.00	0.90	240.02	10,718.37	380.18	-1,116.69	1,179.52	0.00	0.00	0.00
10,900.00	0.90	240.02	10,818.36	379.40	-1,118.05	1,180.57	0.00	0.00	0.00
11,000.00	0.90	240.02	10,918.35	378.61	-1,119.41	1,181.63	0.00	0.00	0.00
11,100.00	0.90	240.02	11,018.34	377.83	-1,120.77	1,182.68	0.00	0.00	0.00
11,200.00	0.90	240.02	11,118.32	377.04	-1,122.14	1,183.73	0.00	0.00	0.00
11,201.68	0.90	240.02	11,120.00	377.03	-1,122.16	1,183.75	0.00	0.00	0.00
CAMEO.NPC									
11,300.00	0.90	240.02	11,218.31	376.25	-1,123.50	1,184.78	0.00	0.00	0.00
11,400.00	0.90	240.02	11,318.30	375.47	-1,124.86	1,185.84	0.00	0.00	0.00
11,500.00	0.90	240.02	11,418.29	374.68	-1,126.22	1,186.89	0.00	0.00	0.00
11,600.00	0.90	240.02	11,518.27	373.90	-1,127.59	1,187.94	0.00	0.00	0.00
11,700.00	0.90	240.02	11,618.26	373.11	-1,128.95	1,188.99	0.00	0.00	0.00
11,800.00	0.90	240.02	11,718.25	372.33	-1,130.31	1,190.05	0.00	0.00	0.00
11,900.00	0.90	240.02	11,818.24	371.54	-1,131.67	1,191.10	0.00	0.00	0.00
11,987.77	0.90	240.02	11,906.00	370.85	-1,132.87	1,192.02	0.00	0.00	0.00
ROLLINS.NPC									
12,000.00	0.90	240.02	11,918.22	370.75	-1,133.04	1,192.15	0.00	0.00	0.00
12,100.00	0.90	240.02	12,018.21	369.97	-1,134.40	1,193.20	0.00	0.00	0.00
12,187.80	0.90	240.02	12,106.00	369.28	-1,135.59	1,194.13	0.00	0.00	0.00
TD at 12187.80									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL - ELU J14 13D-1	0.00	0.00	12,106.00	369.28	-1,135.59	14,430,304.70	2,444,928.70	39.701827	-108.139963
- plan hits target center									
- Ellipse (radii L75.00 W50.00 on 240.00 azi)									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13D-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 J14 496	North Reference:	True
Well:	ELU J14 FED 13D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,305.65	3,276.00	WASATCH.NPC				
5,730.02	5,676.00	WASATCH_G.NPC				
6,493.69	6,432.00	FORT_UNION.NPC				
8,414.90	8,334.00	OHIO_CREEK.NPC				
8,777.38	8,696.00	WILLIAMS_FORK.NPC				
8,827.38	8,746.00	TOP_GAS.NPC				
11,201.68	11,120.00	CAMEO.NPC				
11,987.77	11,906.00	ROLLINS.NPC		0.00		
12,187.80	12,106.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
175.00	175.00	0.00	0.00	Begin 3.00° Build
446.01	445.10	6.58	-18.03	Hold 8.13 Inc at 290.06 Azm
8,360.35	8,279.90	390.47	-1,069.42	Begin 3.00° Drop
8,631.36	8,550.00	397.05	-1,087.45	Hold Vertical, Begin 2.00° Turn
8,676.42	8,595.06	396.87	-1,087.76	Hold 0.90 Inc at 240.00 Azm
12,187.80	12,106.00	369.28	-1,135.59	TD at 12187.80