



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 12C-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	315.00	399.95	1.85	-1.85	3.00	315.00	2.53	
4	500.00	3.00	315.00	499.82	5.55	-5.55	0.00	0.00	7.60	
5	891.35	14.58	331.62	885.95	56.32	-36.32	3.00	20.73	66.96	
6	8106.99	14.58	331.62	7869.08	1654.94	-899.88	0.00	0.00	1882.74	
7	8593.15	0.00	0.00	8350.00	1709.09	-929.13	3.00	180.00	1944.24	
8	8641.92	0.98	240.01	8398.78	1708.88	-929.49	2.00	240.01	1944.24	
9	12430.70	0.98	240.01	12187.00	1676.64	-985.36	0.00	0.00	1944.75	BHL - ELU J14 12C-14 496

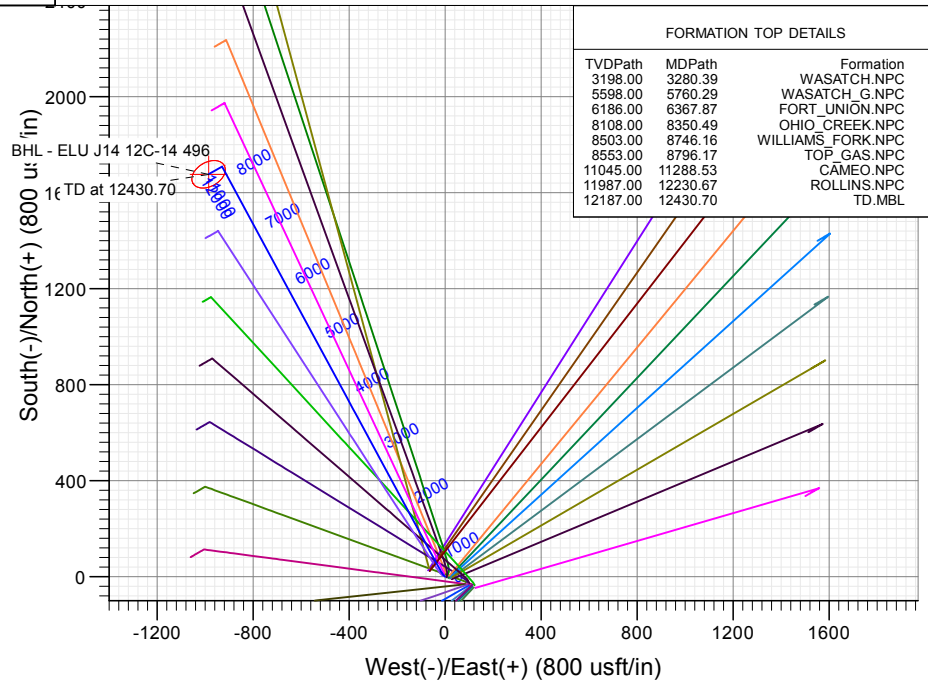
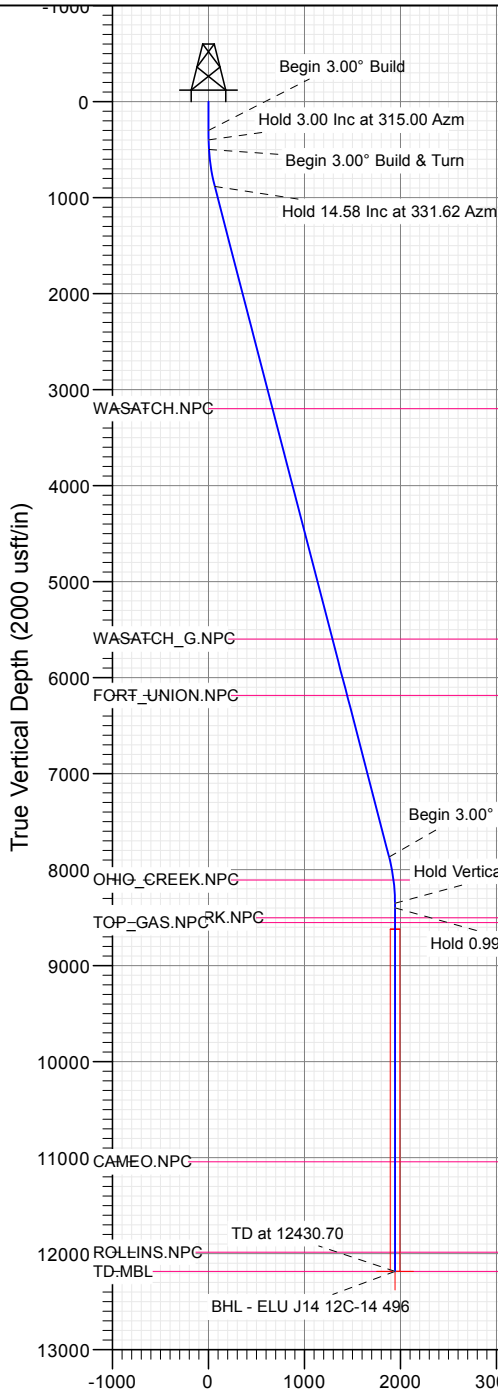
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 12C-14 496
Wellbore: OH
Design: Plan 1

Plan 1
ELU J14 FED 12C-14 496
RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 12C-14 496, True North

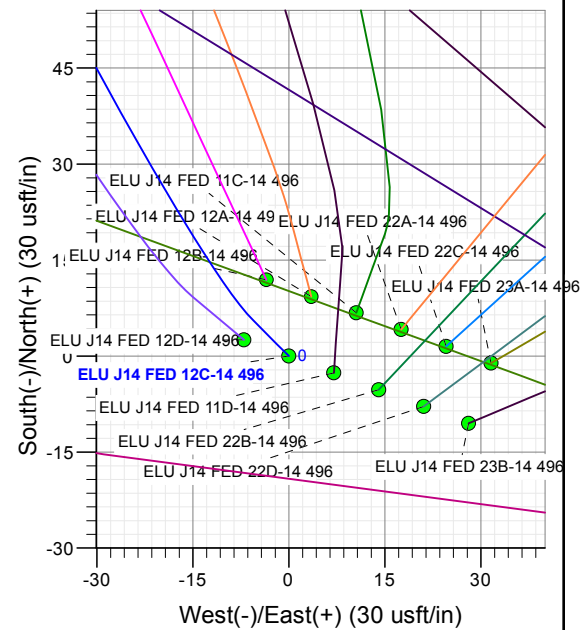
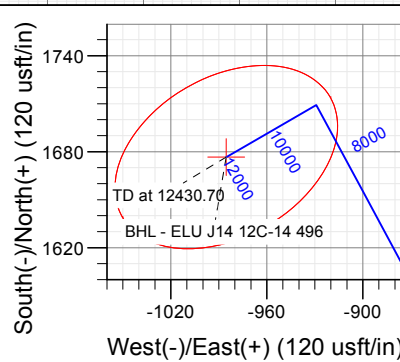
Name	Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 12C-14 496	TD	No Target (Freehand)	329.56	Slot		0.00	0.00	0.00	
			TVD	+N/-S	+E/-W	Latitude	Longitude		
			12187.00	1676.64	-985.36	39.705475	-108.139742		

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3198.00	3280.39	WASATCH.NPC
5598.00	5760.29	WASATCH_G.NPC
6186.00	6367.87	FORT_UNION.NPC
8108.00	8350.49	OHIO_CREEK.NPC
8503.00	8746.16	WILLIAMS_FORK.NPC
8553.00	8796.17	TOP_GAS.NPC
11045.00	11288.53	CAMEO.NPC
11987.00	12230.87	ROLLINS.NPC
12187.00	12430.70	TD.MBL



Azimuths to True North
Magnetic North: 9.48°
Magnetic Field
Strength: 51241.3nT
Dip Angle: 65.82°
Date: 10/30/2019
Model: HDGM_FILE



Vertical Section at 329.56° (2000 usft/in)

WELL DETAILS: ELU J14 FED 12C-14 496

+N/-S	+E/-W	North	East	Latitude	Longitude
0.00	0.00	14429990.99	2445987.01	39.700874	-108.136241

CATHEDRAL

CATHEDRAL

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12C-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 12C-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 12C-14 496					
Well Position	+N/-S	-35.47 usft	Northing:	14,429,990.99 usft	Latitude:	39.700874
	+E/-W	66.81 usft	Easting:	2,445,987.02 usft	Longitude:	-108.136241
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	10/30/2019	9.48	65.82	51,241.30000000

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	329.56	

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	315.00	399.95	1.85	-1.85	3.00	3.00	0.00	315.00	
500.00	3.00	315.00	499.82	5.55	-5.55	0.00	0.00	0.00	0.00	
891.35	14.58	331.62	885.95	56.32	-36.32	3.00	2.96	4.25	20.73	
8,106.99	14.58	331.62	7,869.08	1,654.94	-899.88	0.00	0.00	0.00	0.00	
8,593.15	0.00	0.00	8,350.00	1,709.09	-929.13	3.00	-3.00	0.00	180.00	
8,641.92	0.98	240.01	8,398.78	1,708.88	-929.49	2.00	2.00	-245.99	240.01	
12,430.70	0.98	240.01	12,187.00	1,676.64	-985.36	0.00	0.00	0.00	0.00	BHL - ELU J14 12C

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12C-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 12C-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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin 3.00° Build									
400.00	3.00	315.00	399.95	1.85	-1.85	2.53	3.00	3.00	0.00
Hold 3.00 Inc at 315.00 Azm									
500.00	3.00	315.00	499.82	5.55	-5.55	7.60	0.00	0.00	0.00
Begin 3.00° Build & Turn									
600.00	5.90	325.38	599.51	11.63	-10.32	15.26	3.00	2.90	10.38
700.00	8.87	328.89	698.67	22.47	-17.23	28.10	3.00	2.97	3.51
800.00	11.85	330.64	797.02	38.02	-26.25	46.08	3.00	2.98	1.75
891.35	14.58	331.62	885.95	56.32	-36.32	66.96	3.00	2.99	1.07
Hold 14.58 Inc at 331.62 Azm									
900.00	14.58	331.62	894.32	58.24	-37.35	69.14	0.00	0.00	0.00
1,000.00	14.58	331.62	991.10	80.39	-49.32	94.30	0.00	0.00	0.00
1,100.00	14.58	331.62	1,087.87	102.55	-61.29	119.46	0.00	0.00	0.00
1,200.00	14.58	331.62	1,184.65	124.70	-73.26	144.63	0.00	0.00	0.00
1,300.00	14.58	331.62	1,281.43	146.86	-85.23	169.79	0.00	0.00	0.00
1,400.00	14.58	331.62	1,378.21	169.01	-97.19	194.96	0.00	0.00	0.00
1,500.00	14.58	331.62	1,474.98	191.17	-109.16	220.12	0.00	0.00	0.00
1,600.00	14.58	331.62	1,571.76	213.32	-121.13	245.29	0.00	0.00	0.00
1,700.00	14.58	331.62	1,668.54	235.48	-133.10	270.45	0.00	0.00	0.00
1,800.00	14.58	331.62	1,765.32	257.63	-145.07	295.62	0.00	0.00	0.00
1,900.00	14.58	331.62	1,862.09	279.79	-157.03	320.78	0.00	0.00	0.00
2,000.00	14.58	331.62	1,958.87	301.94	-169.00	345.94	0.00	0.00	0.00
2,100.00	14.58	331.62	2,055.65	324.10	-180.97	371.11	0.00	0.00	0.00
2,200.00	14.58	331.62	2,152.43	346.25	-192.94	396.27	0.00	0.00	0.00
2,300.00	14.58	331.62	2,249.21	368.41	-204.90	421.44	0.00	0.00	0.00
2,400.00	14.58	331.62	2,345.98	390.56	-216.87	446.60	0.00	0.00	0.00
2,500.00	14.58	331.62	2,442.76	412.72	-228.84	471.77	0.00	0.00	0.00
2,600.00	14.58	331.62	2,539.54	434.87	-240.81	496.93	0.00	0.00	0.00
2,700.00	14.58	331.62	2,636.32	457.03	-252.78	522.10	0.00	0.00	0.00
2,800.00	14.58	331.62	2,733.09	479.18	-264.74	547.26	0.00	0.00	0.00
2,900.00	14.58	331.62	2,829.87	501.34	-276.71	572.42	0.00	0.00	0.00
3,000.00	14.58	331.62	2,926.65	523.49	-288.68	597.59	0.00	0.00	0.00
3,100.00	14.58	331.62	3,023.43	545.65	-300.65	622.75	0.00	0.00	0.00
3,200.00	14.58	331.62	3,120.20	567.80	-312.62	647.92	0.00	0.00	0.00
3,280.39	14.58	331.62	3,198.00	585.61	-322.24	668.15	0.00	0.00	0.00
WASATCH.NPC									
3,300.00	14.58	331.62	3,216.98	589.96	-324.58	673.08	0.00	0.00	0.00
3,400.00	14.58	331.62	3,313.76	612.11	-336.55	698.25	0.00	0.00	0.00
3,500.00	14.58	331.62	3,410.54	634.27	-348.52	723.41	0.00	0.00	0.00
3,600.00	14.58	331.62	3,507.32	656.42	-360.49	748.58	0.00	0.00	0.00
3,700.00	14.58	331.62	3,604.09	678.58	-372.46	773.74	0.00	0.00	0.00
3,800.00	14.58	331.62	3,700.87	700.73	-384.42	798.90	0.00	0.00	0.00
3,900.00	14.58	331.62	3,797.65	722.89	-396.39	824.07	0.00	0.00	0.00
4,000.00	14.58	331.62	3,894.43	745.04	-408.36	849.23	0.00	0.00	0.00
4,100.00	14.58	331.62	3,991.20	767.20	-420.33	874.40	0.00	0.00	0.00
4,200.00	14.58	331.62	4,087.98	789.35	-432.30	899.56	0.00	0.00	0.00
4,300.00	14.58	331.62	4,184.76	811.51	-444.26	924.73	0.00	0.00	0.00
4,400.00	14.58	331.62	4,281.54	833.66	-456.23	949.89	0.00	0.00	0.00
4,500.00	14.58	331.62	4,378.32	855.82	-468.20	975.06	0.00	0.00	0.00
4,600.00	14.58	331.62	4,475.09	877.97	-480.17	1,000.22	0.00	0.00	0.00
4,700.00	14.58	331.62	4,571.87	900.13	-492.13	1,025.38	0.00	0.00	0.00
4,800.00	14.58	331.62	4,668.65	922.28	-504.10	1,050.55	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12C-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 12C-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	14.58	331.62	4,765.43	944.44	-516.07	1,075.71	0.00	0.00	0.00
5,000.00	14.58	331.62	4,862.20	966.59	-528.04	1,100.88	0.00	0.00	0.00
5,100.00	14.58	331.62	4,958.98	988.75	-540.01	1,126.04	0.00	0.00	0.00
5,200.00	14.58	331.62	5,055.76	1,010.90	-551.97	1,151.21	0.00	0.00	0.00
5,300.00	14.58	331.62	5,152.54	1,033.06	-563.94	1,176.37	0.00	0.00	0.00
5,400.00	14.58	331.62	5,249.31	1,055.21	-575.91	1,201.54	0.00	0.00	0.00
5,500.00	14.58	331.62	5,346.09	1,077.37	-587.88	1,226.70	0.00	0.00	0.00
5,600.00	14.58	331.62	5,442.87	1,099.52	-599.85	1,251.86	0.00	0.00	0.00
5,700.00	14.58	331.62	5,539.65	1,121.68	-611.81	1,277.03	0.00	0.00	0.00
5,760.30	14.58	331.62	5,598.00	1,135.03	-619.03	1,292.20	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	14.58	331.62	5,636.43	1,143.83	-623.78	1,302.19	0.00	0.00	0.00
5,900.00	14.58	331.62	5,733.20	1,165.99	-635.75	1,327.36	0.00	0.00	0.00
6,000.00	14.58	331.62	5,829.98	1,188.14	-647.72	1,352.52	0.00	0.00	0.00
6,100.00	14.58	331.62	5,926.76	1,210.30	-659.69	1,377.69	0.00	0.00	0.00
6,200.00	14.58	331.62	6,023.54	1,232.45	-671.65	1,402.85	0.00	0.00	0.00
6,300.00	14.58	331.62	6,120.31	1,254.61	-683.62	1,428.02	0.00	0.00	0.00
6,367.87	14.58	331.62	6,186.00	1,269.64	-691.74	1,445.10	0.00	0.00	0.00
FORT_UNION.NPC									
6,400.00	14.58	331.62	6,217.09	1,276.76	-695.59	1,453.18	0.00	0.00	0.00
6,500.00	14.58	331.62	6,313.87	1,298.92	-707.56	1,478.34	0.00	0.00	0.00
6,600.00	14.58	331.62	6,410.65	1,321.07	-719.53	1,503.51	0.00	0.00	0.00
6,700.00	14.58	331.62	6,507.43	1,343.23	-731.49	1,528.67	0.00	0.00	0.00
6,800.00	14.58	331.62	6,604.20	1,365.38	-743.46	1,553.84	0.00	0.00	0.00
6,900.00	14.58	331.62	6,700.98	1,387.54	-755.43	1,579.00	0.00	0.00	0.00
7,000.00	14.58	331.62	6,797.76	1,409.69	-767.40	1,604.17	0.00	0.00	0.00
7,100.00	14.58	331.62	6,894.54	1,431.85	-779.36	1,629.33	0.00	0.00	0.00
7,200.00	14.58	331.62	6,991.31	1,454.00	-791.33	1,654.50	0.00	0.00	0.00
7,300.00	14.58	331.62	7,088.09	1,476.15	-803.30	1,679.66	0.00	0.00	0.00
7,400.00	14.58	331.62	7,184.87	1,498.31	-815.27	1,704.82	0.00	0.00	0.00
7,500.00	14.58	331.62	7,281.65	1,520.46	-827.24	1,729.99	0.00	0.00	0.00
7,600.00	14.58	331.62	7,378.42	1,542.62	-839.20	1,755.15	0.00	0.00	0.00
7,700.00	14.58	331.62	7,475.20	1,564.77	-851.17	1,780.32	0.00	0.00	0.00
7,800.00	14.58	331.62	7,571.98	1,586.93	-863.14	1,805.48	0.00	0.00	0.00
7,900.00	14.58	331.62	7,668.76	1,609.08	-875.11	1,830.65	0.00	0.00	0.00
8,000.00	14.58	331.62	7,765.54	1,631.24	-887.08	1,855.81	0.00	0.00	0.00
8,100.00	14.58	331.62	7,862.31	1,653.39	-899.04	1,880.98	0.00	0.00	0.00
8,106.99	14.58	331.62	7,869.08	1,654.94	-899.88	1,882.73	0.00	0.00	0.00
Begin 3.00° Drop									
8,200.00	11.79	331.62	7,959.63	1,673.61	-909.97	1,903.94	3.00	-3.00	0.00
8,300.00	8.79	331.62	8,058.00	1,689.33	-918.46	1,921.80	3.00	-3.00	0.00
8,350.49	7.28	331.62	8,108.00	1,695.55	-921.81	1,928.85	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,400.00	5.79	331.62	8,157.18	1,700.50	-924.49	1,934.49	3.00	-3.00	0.00
8,500.00	2.79	331.62	8,256.89	1,707.09	-928.05	1,941.97	3.00	-3.00	0.00
8,593.15	0.00	0.00	8,350.01	1,709.09	-929.13	1,944.24	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,600.00	0.14	240.01	8,356.86	1,709.09	-929.14	1,944.24	2.00	2.00	0.00
8,641.92	0.98	240.01	8,398.77	1,708.88	-929.49	1,944.24	2.00	2.00	0.00
Hold 0.99 Inc at 240.00 Azm									
8,700.00	0.98	240.01	8,456.84	1,708.39	-930.35	1,944.25	0.00	0.00	0.00
8,746.16	0.98	240.01	8,503.00	1,708.00	-931.03	1,944.25	0.00	0.00	0.00
WILLIAMS_FORK.NPC									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12C-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 12C-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)	
8,796.17	0.98	240.01	8,553.00	1,707.57	-931.76	1,944.26	0.00	0.00	0.00	
TOP_GAS.NPC										
8,800.00	0.98	240.01	8,556.83	1,707.54	-931.82	1,944.26	0.00	0.00	0.00	
8,900.00	0.98	240.01	8,656.82	1,706.69	-933.30	1,944.28	0.00	0.00	0.00	
9,000.00	0.98	240.01	8,756.80	1,705.84	-934.77	1,944.29	0.00	0.00	0.00	
9,100.00	0.98	240.01	8,856.79	1,704.98	-936.24	1,944.30	0.00	0.00	0.00	
9,200.00	0.98	240.01	8,956.77	1,704.13	-937.72	1,944.32	0.00	0.00	0.00	
9,300.00	0.98	240.01	9,056.76	1,703.28	-939.19	1,944.33	0.00	0.00	0.00	
9,400.00	0.98	240.01	9,156.74	1,702.43	-940.67	1,944.34	0.00	0.00	0.00	
9,500.00	0.98	240.01	9,256.73	1,701.58	-942.14	1,944.36	0.00	0.00	0.00	
9,600.00	0.98	240.01	9,356.71	1,700.73	-943.62	1,944.37	0.00	0.00	0.00	
9,700.00	0.98	240.01	9,456.70	1,699.88	-945.09	1,944.38	0.00	0.00	0.00	
9,800.00	0.98	240.01	9,556.68	1,699.03	-946.57	1,944.40	0.00	0.00	0.00	
9,900.00	0.98	240.01	9,656.67	1,698.18	-948.04	1,944.41	0.00	0.00	0.00	
10,000.00	0.98	240.01	9,756.66	1,697.33	-949.52	1,944.42	0.00	0.00	0.00	
10,100.00	0.98	240.01	9,856.64	1,696.48	-950.99	1,944.44	0.00	0.00	0.00	
10,200.00	0.98	240.01	9,956.63	1,695.62	-952.47	1,944.45	0.00	0.00	0.00	
10,300.00	0.98	240.01	10,056.61	1,694.77	-953.94	1,944.46	0.00	0.00	0.00	
10,400.00	0.98	240.01	10,156.60	1,693.92	-955.42	1,944.48	0.00	0.00	0.00	
10,500.00	0.98	240.01	10,256.58	1,693.07	-956.89	1,944.49	0.00	0.00	0.00	
10,600.00	0.98	240.01	10,356.57	1,692.22	-958.37	1,944.51	0.00	0.00	0.00	
10,700.00	0.98	240.01	10,456.55	1,691.37	-959.84	1,944.52	0.00	0.00	0.00	
10,800.00	0.98	240.01	10,556.54	1,690.52	-961.31	1,944.53	0.00	0.00	0.00	
10,900.00	0.98	240.01	10,656.53	1,689.67	-962.79	1,944.55	0.00	0.00	0.00	
11,000.00	0.98	240.01	10,756.51	1,688.82	-964.26	1,944.56	0.00	0.00	0.00	
11,100.00	0.98	240.01	10,856.50	1,687.97	-965.74	1,944.57	0.00	0.00	0.00	
11,200.00	0.98	240.01	10,956.48	1,687.11	-967.21	1,944.59	0.00	0.00	0.00	
11,288.53	0.98	240.01	11,045.00	1,686.36	-968.52	1,944.60	0.00	0.00	0.00	
CAMEO.NPC										
11,300.00	0.98	240.01	11,056.47	1,686.26	-968.69	1,944.60	0.00	0.00	0.00	
11,400.00	0.98	240.01	11,156.45	1,685.41	-970.16	1,944.61	0.00	0.00	0.00	
11,500.00	0.98	240.01	11,256.44	1,684.56	-971.64	1,944.63	0.00	0.00	0.00	
11,600.00	0.98	240.01	11,356.42	1,683.71	-973.11	1,944.64	0.00	0.00	0.00	
11,700.00	0.98	240.01	11,456.41	1,682.86	-974.59	1,944.65	0.00	0.00	0.00	
11,800.00	0.98	240.01	11,556.39	1,682.01	-976.06	1,944.67	0.00	0.00	0.00	
11,900.00	0.98	240.01	11,656.38	1,681.16	-977.54	1,944.68	0.00	0.00	0.00	
12,000.00	0.98	240.01	11,756.37	1,680.31	-979.01	1,944.70	0.00	0.00	0.00	
12,100.00	0.98	240.01	11,856.35	1,679.46	-980.49	1,944.71	0.00	0.00	0.00	
12,200.00	0.98	240.01	11,956.34	1,678.61	-981.96	1,944.72	0.00	0.00	0.00	
12,230.67	0.98	240.01	11,987.00	1,678.34	-982.41	1,944.73	0.00	0.00	0.00	
ROLLINS.NPC										
12,300.00	0.98	240.01	12,056.32	1,677.75	-983.43	1,944.74	0.00	0.00	0.00	
12,400.00	0.98	240.01	12,156.31	1,676.90	-984.91	1,944.75	0.00	0.00	0.00	
12,430.70	0.98	240.01	12,187.00	1,676.64	-985.36	1,944.75	0.00	0.00	0.00	
TD at 12430.70										

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12C-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 12C-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 12C-1	0.00	0.00	12,187.00	1,676.64	-985.36	14,431,635.30	2,444,948.60	39.705475	-108.139742
- 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)			(°)	(°)	
3,280.39	3,198.00	WASATCH.NPC				
5,760.30	5,598.00	WASATCH_G.NPC				
6,367.87	6,186.00	FORT_UNION.NPC				
8,350.49	8,108.00	OHIO_CREEK.NPC				
8,746.16	8,503.00	WILLIAMS_FORK.NPC				
8,796.17	8,553.00	TOP_GAS.NPC				
11,288.53	11,045.00	CAMEO.NPC				
12,230.67	11,987.00	ROLLINS.NPC		0.00		
12,430.70	12,187.00	TD.MBL		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
300.00	300.00	0.00	0.00	Begin 3.00° Build	
400.00	399.95	1.85	-1.85	Hold 3.00 Inc at 315.00 Azm	
500.00	499.82	5.55	-5.55	Begin 3.00° Build & Turn	
891.35	885.95	56.32	-36.32	Hold 14.58 Inc at 331.62 Azm	
8,106.99	7,869.08	1,654.94	-899.88	Begin 3.00° Drop	
8,593.15	8,350.01	1,709.09	-929.13	Hold Vertical, Begin 2.00° Turn	
8,641.92	8,398.77	1,708.88	-929.49	Hold 0.99 Inc at 240.00 Azm	
12,430.70	12,187.00	1,676.64	-985.36	TD at 12430.70	