



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 11D-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	175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	
3	275.00	3.00	4.00	274.95	2.61	0.18	3.00	4.00	2.37	
4	575.00	3.00	4.00	574.54	18.27	1.28	0.00	0.00	16.59	
5	1150.85	19.98	340.07	1136.94	126.60	-31.45	3.00	-27.82	129.44	
6	8237.84	19.98	340.07	7797.53	2402.74	-856.81	0.00	0.00	2550.11	
7	8903.72	0.00	0.00	8450.00	2510.77	-895.98	3.00	180.00	2665.00	
8	8955.55	1.04	240.01	8501.82	2510.54	-896.39	2.00	240.01	2664.93	
9	12689.34	1.04	240.01	12235.00	2476.78	-954.89	0.00	0.00	2654.48	BHL - ELU J14 11D-14 496

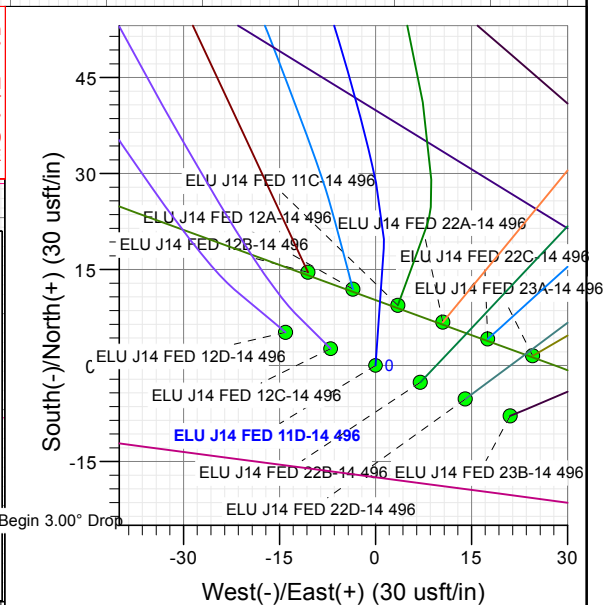
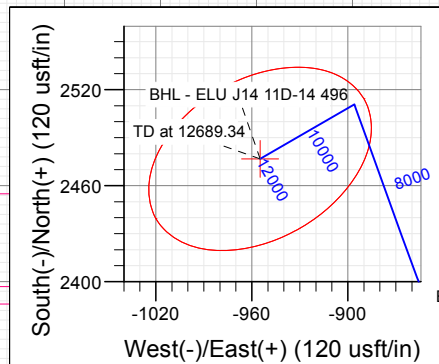
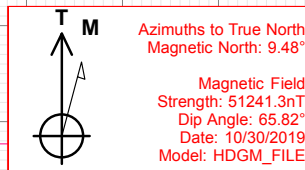
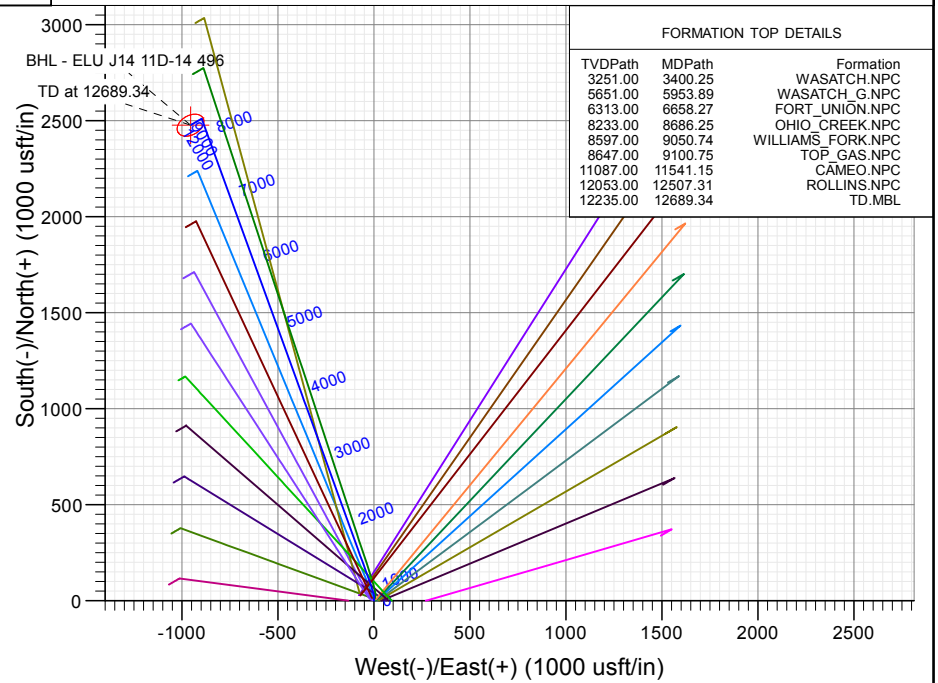
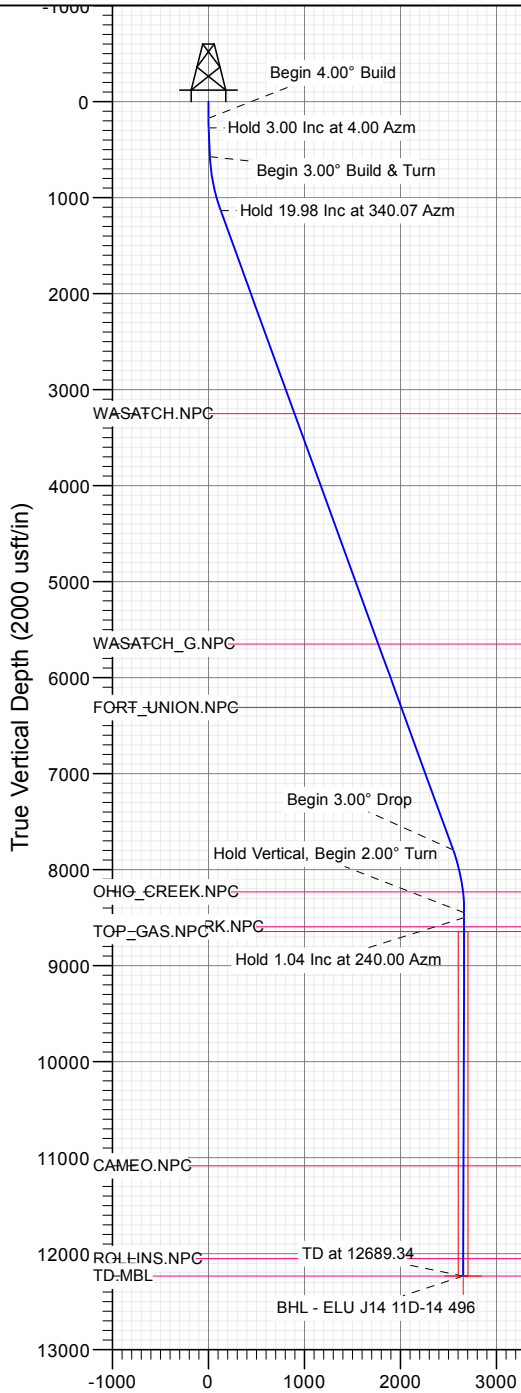
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 11D-14 496
Wellbore: OH
Design: Plan 1

Plan 1
ELU J14 FED 11D-14 496
RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 11D-14 496, True North

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 11D-14 496	TD			338.92	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12235.00			2476.78	-954.89	39.707664	-108.139609

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3251.00	3400.25	WASATCH.NPC
5651.00	5953.89	WASATCH_G.NPC
6313.00	6658.27	FORT_UNION.NPC
8233.00	8686.25	OHIO_CREEK.NPC
8597.00	9050.74	WILLIAMS_FORK.NPC
8647.00	9100.75	TOP_GAS.NPC
11087.00	11541.15	CAMEO.NPC
12053.00	12507.31	ROLLINS.NPC
12235.00	12689.34	TD.MBL



Vertical Section at 338.92° (2000 usft/in)

WELL DETAILS: ELU J14 FED 11D-14 496

+N/-S	+E/-W	Northing	Easting	7902.00	Latitude	Longitude
0.00	0.00	14429988.59	2445994.11		39.700866	-108.136216

CATHEDRAL



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 11D-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 11D-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 11D-14 496					
Well Position	+N/-S	-38.09 usft	Northing:	14,429,988.59 usft	Latitude:	39.700867
	+E/-W	73.83 usft	Easting:	2,445,994.12 usft	Longitude:	-108.136216
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	338.92	

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	
275.00	3.00	4.00	274.95	2.61	0.18	3.00	3.00	0.00	4.00	
575.00	3.00	4.00	574.54	18.27	1.28	0.00	0.00	0.00	0.00	
1,150.85	19.98	340.07	1,136.95	126.60	-31.45	3.00	2.95	-4.16	-27.82	
8,237.84	19.98	340.07	7,797.53	2,402.74	-856.81	0.00	0.00	0.00	0.00	
8,903.72	0.00	0.00	8,450.00	2,510.77	-895.98	3.00	-3.00	0.00	180.00	
8,955.55	1.04	240.01	8,501.82	2,510.54	-896.39	2.00	2.00	-231.51	240.01	
12,689.34	1.04	240.01	12,235.00	2,476.78	-954.89	0.00	0.00	0.00	0.00	BHL - ELU J14 11D

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 11D-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 11D-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 4.00° Build									
200.00	0.75	4.00	200.00	0.16	0.01	0.15	3.00	3.00	0.00
275.00	3.00	4.00	274.95	2.61	0.18	2.37	3.00	3.00	0.00
Hold 3.00 Inc at 4.00 Azm									
300.00	3.00	4.00	299.92	3.92	0.27	3.56	0.00	0.00	0.00
400.00	3.00	4.00	399.78	9.14	0.64	8.30	0.00	0.00	0.00
500.00	3.00	4.00	499.65	14.36	1.00	13.04	0.00	0.00	0.00
575.00	3.00	4.00	574.54	18.27	1.28	16.59	0.00	0.00	0.00
Begin 3.00° Build & Turn									
600.00	3.68	358.54	599.50	19.73	1.30	17.94	3.00	2.72	-21.84
700.00	6.55	348.49	699.09	28.53	0.08	26.59	3.00	2.87	-10.05
800.00	9.51	344.60	798.10	42.09	-3.25	40.44	3.00	2.95	-3.89
900.00	12.48	342.55	896.26	60.36	-8.68	59.45	3.00	2.97	-2.05
1,000.00	15.47	341.28	993.29	83.30	-16.20	83.56	3.00	2.98	-1.27
1,100.00	18.46	340.41	1,088.93	110.85	-25.79	112.71	3.00	2.99	-0.87
1,150.85	19.98	340.07	1,136.94	126.60	-31.45	129.44	3.00	2.99	-0.68
Hold 19.98 Inc at 340.07 Azm									
1,200.00	19.98	340.07	1,183.14	142.39	-37.18	146.23	0.00	0.00	0.00
1,300.00	19.98	340.07	1,277.12	174.50	-48.82	180.38	0.00	0.00	0.00
1,400.00	19.98	340.07	1,371.10	206.62	-60.47	214.54	0.00	0.00	0.00
1,500.00	19.98	340.07	1,465.08	238.74	-72.11	248.70	0.00	0.00	0.00
1,600.00	19.98	340.07	1,559.07	270.85	-83.76	282.85	0.00	0.00	0.00
1,700.00	19.98	340.07	1,653.05	302.97	-95.41	317.01	0.00	0.00	0.00
1,800.00	19.98	340.07	1,747.03	335.09	-107.05	351.17	0.00	0.00	0.00
1,900.00	19.98	340.07	1,841.02	367.21	-118.70	385.32	0.00	0.00	0.00
2,000.00	19.98	340.07	1,935.00	399.32	-130.34	419.48	0.00	0.00	0.00
2,100.00	19.98	340.07	2,028.98	431.44	-141.99	453.64	0.00	0.00	0.00
2,200.00	19.98	340.07	2,122.97	463.56	-153.64	487.79	0.00	0.00	0.00
2,300.00	19.98	340.07	2,216.95	495.68	-165.28	521.95	0.00	0.00	0.00
2,400.00	19.98	340.07	2,310.93	527.79	-176.93	556.11	0.00	0.00	0.00
2,500.00	19.98	340.07	2,404.92	559.91	-188.57	590.26	0.00	0.00	0.00
2,600.00	19.98	340.07	2,498.90	592.03	-200.22	624.42	0.00	0.00	0.00
2,700.00	19.98	340.07	2,592.88	624.14	-211.87	658.58	0.00	0.00	0.00
2,800.00	19.98	340.07	2,686.87	656.26	-223.51	692.73	0.00	0.00	0.00
2,900.00	19.98	340.07	2,780.85	688.38	-235.16	726.89	0.00	0.00	0.00
3,000.00	19.98	340.07	2,874.83	720.50	-246.80	761.05	0.00	0.00	0.00
3,100.00	19.98	340.07	2,968.82	752.61	-258.45	795.20	0.00	0.00	0.00
3,200.00	19.98	340.07	3,062.80	784.73	-270.10	829.36	0.00	0.00	0.00
3,300.00	19.98	340.07	3,156.78	816.85	-281.74	863.52	0.00	0.00	0.00
3,400.00	19.98	340.07	3,250.77	848.96	-293.39	897.67	0.00	0.00	0.00
3,400.25	19.98	340.07	3,251.00	849.04	-293.42	897.76	0.00	0.00	0.00
WASATCH.NPC									
3,500.00	19.98	340.07	3,344.75	881.08	-305.04	931.83	0.00	0.00	0.00
3,600.00	19.98	340.07	3,438.73	913.20	-316.68	965.99	0.00	0.00	0.00
3,700.00	19.98	340.07	3,532.72	945.32	-328.33	1,000.14	0.00	0.00	0.00
3,800.00	19.98	340.07	3,626.70	977.43	-339.97	1,034.30	0.00	0.00	0.00
3,900.00	19.98	340.07	3,720.68	1,009.55	-351.62	1,068.46	0.00	0.00	0.00
4,000.00	19.98	340.07	3,814.67	1,041.67	-363.27	1,102.61	0.00	0.00	0.00
4,100.00	19.98	340.07	3,908.65	1,073.78	-374.91	1,136.77	0.00	0.00	0.00
4,200.00	19.98	340.07	4,002.63	1,105.90	-386.56	1,170.93	0.00	0.00	0.00
4,300.00	19.98	340.07	4,096.62	1,138.02	-398.20	1,205.08	0.00	0.00	0.00
4,400.00	19.98	340.07	4,190.60	1,170.14	-409.85	1,239.24	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 11D-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 11D-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)
4,500.00	19.98	340.07	4,284.58	1,202.25	-421.50	1,273.40	0.00	0.00	0.00
4,600.00	19.98	340.07	4,378.57	1,234.37	-433.14	1,307.55	0.00	0.00	0.00
4,700.00	19.98	340.07	4,472.55	1,266.49	-444.79	1,341.71	0.00	0.00	0.00
4,800.00	19.98	340.07	4,566.53	1,298.61	-456.43	1,375.86	0.00	0.00	0.00
4,900.00	19.98	340.07	4,660.52	1,330.72	-468.08	1,410.02	0.00	0.00	0.00
5,000.00	19.98	340.07	4,754.50	1,362.84	-479.73	1,444.18	0.00	0.00	0.00
5,100.00	19.98	340.07	4,848.48	1,394.96	-491.37	1,478.33	0.00	0.00	0.00
5,200.00	19.98	340.07	4,942.47	1,427.07	-503.02	1,512.49	0.00	0.00	0.00
5,300.00	19.98	340.07	5,036.45	1,459.19	-514.66	1,546.65	0.00	0.00	0.00
5,400.00	19.98	340.07	5,130.43	1,491.31	-526.31	1,580.80	0.00	0.00	0.00
5,500.00	19.98	340.07	5,224.42	1,523.43	-537.96	1,614.96	0.00	0.00	0.00
5,600.00	19.98	340.07	5,318.40	1,555.54	-549.60	1,649.12	0.00	0.00	0.00
5,700.00	19.98	340.07	5,412.38	1,587.66	-561.25	1,683.27	0.00	0.00	0.00
5,800.00	19.98	340.07	5,506.37	1,619.78	-572.90	1,717.43	0.00	0.00	0.00
5,900.00	19.98	340.07	5,600.35	1,651.89	-584.54	1,751.59	0.00	0.00	0.00
5,953.89	19.98	340.07	5,651.00	1,669.20	-590.82	1,770.00	0.00	0.00	0.00
WASATCH_G.NPC									
6,000.00	19.98	340.07	5,694.33	1,684.01	-596.19	1,785.74	0.00	0.00	0.00
6,100.00	19.98	340.07	5,788.32	1,716.13	-607.83	1,819.90	0.00	0.00	0.00
6,200.00	19.98	340.07	5,882.30	1,748.25	-619.48	1,854.06	0.00	0.00	0.00
6,300.00	19.98	340.07	5,976.28	1,780.36	-631.13	1,888.21	0.00	0.00	0.00
6,400.00	19.98	340.07	6,070.27	1,812.48	-642.77	1,922.37	0.00	0.00	0.00
6,500.00	19.98	340.07	6,164.25	1,844.60	-654.42	1,956.53	0.00	0.00	0.00
6,600.00	19.98	340.07	6,258.23	1,876.71	-666.06	1,990.68	0.00	0.00	0.00
6,658.27	19.98	340.07	6,313.00	1,895.43	-672.85	2,010.59	0.00	0.00	0.00
FORT_UNION.NPC									
6,700.00	19.98	340.07	6,352.21	1,908.83	-677.71	2,024.84	0.00	0.00	0.00
6,800.00	19.98	340.07	6,446.20	1,940.95	-689.36	2,059.00	0.00	0.00	0.00
6,900.00	19.98	340.07	6,540.18	1,973.07	-701.00	2,093.15	0.00	0.00	0.00
7,000.00	19.98	340.07	6,634.16	2,005.18	-712.65	2,127.31	0.00	0.00	0.00
7,100.00	19.98	340.07	6,728.15	2,037.30	-724.29	2,161.47	0.00	0.00	0.00
7,200.00	19.98	340.07	6,822.13	2,069.42	-735.94	2,195.62	0.00	0.00	0.00
7,300.00	19.98	340.07	6,916.11	2,101.53	-747.59	2,229.78	0.00	0.00	0.00
7,400.00	19.98	340.07	7,010.10	2,133.65	-759.23	2,263.94	0.00	0.00	0.00
7,500.00	19.98	340.07	7,104.08	2,165.77	-770.88	2,298.09	0.00	0.00	0.00
7,600.00	19.98	340.07	7,198.06	2,197.89	-782.52	2,332.25	0.00	0.00	0.00
7,700.00	19.98	340.07	7,292.05	2,230.00	-794.17	2,366.41	0.00	0.00	0.00
7,800.00	19.98	340.07	7,386.03	2,262.12	-805.82	2,400.56	0.00	0.00	0.00
7,900.00	19.98	340.07	7,480.01	2,294.24	-817.46	2,434.72	0.00	0.00	0.00
8,000.00	19.98	340.07	7,574.00	2,326.36	-829.11	2,468.88	0.00	0.00	0.00
8,100.00	19.98	340.07	7,667.98	2,358.47	-840.75	2,503.03	0.00	0.00	0.00
8,200.00	19.98	340.07	7,761.96	2,390.59	-852.40	2,537.19	0.00	0.00	0.00
8,237.84	19.98	340.07	7,797.53	2,402.74	-856.81	2,550.11	0.00	0.00	0.00
Begin 3.00° Drop									
8,300.00	18.11	340.07	7,856.28	2,421.81	-863.72	2,570.39	3.00	-3.00	0.00
8,400.00	15.11	340.07	7,952.10	2,448.68	-873.47	2,598.97	3.00	-3.00	0.00
8,500.00	12.11	340.07	8,049.28	2,470.80	-881.49	2,622.50	3.00	-3.00	0.00
8,600.00	9.11	340.07	8,147.56	2,488.11	-887.76	2,640.91	3.00	-3.00	0.00
8,686.25	6.52	340.07	8,233.00	2,499.14	-891.76	2,652.64	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,700.00	6.11	340.07	8,246.66	2,500.57	-892.28	2,654.15	3.00	-3.00	0.00
8,800.00	3.11	340.07	8,346.33	2,508.12	-895.02	2,662.19	3.00	-3.00	0.00
8,900.00	0.11	340.07	8,446.28	2,510.77	-895.98	2,665.00	3.00	-3.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 11D-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 11D-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)
8,903.72	0.00	0.00	8,450.00	2,510.77	-895.98	2,665.00	3.00	-3.00	535.79
Hold Vertical, Begin 2.00° Turn									
8,955.55	1.04	240.01	8,501.83	2,510.54	-896.39	2,664.93	2.00	2.00	-231.50
Hold 1.04 Inc at 240.00 Azm									
9,000.00	1.04	240.01	8,546.27	2,510.13	-897.08	2,664.80	0.00	0.00	0.00
9,050.74	1.04	240.01	8,597.00	2,509.68	-897.88	2,664.66	0.00	0.00	0.00
WILLIAMS_FORK.NPC									
9,100.00	1.04	240.01	8,646.25	2,509.23	-898.65	2,664.52	0.00	0.00	0.00
9,100.75	1.04	240.01	8,647.00	2,509.22	-898.66	2,664.52	0.00	0.00	0.00
TOP_GAS.NPC									
9,200.00	1.04	240.01	8,746.24	2,508.33	-900.22	2,664.24	0.00	0.00	0.00
9,300.00	1.04	240.01	8,846.22	2,507.42	-901.78	2,663.96	0.00	0.00	0.00
9,400.00	1.04	240.01	8,946.20	2,506.52	-903.35	2,663.68	0.00	0.00	0.00
9,500.00	1.04	240.01	9,046.19	2,505.61	-904.92	2,663.40	0.00	0.00	0.00
9,600.00	1.04	240.01	9,146.17	2,504.71	-906.48	2,663.12	0.00	0.00	0.00
9,700.00	1.04	240.01	9,246.15	2,503.80	-908.05	2,662.84	0.00	0.00	0.00
9,800.00	1.04	240.01	9,346.14	2,502.90	-909.62	2,662.56	0.00	0.00	0.00
9,900.00	1.04	240.01	9,446.12	2,502.00	-911.18	2,662.28	0.00	0.00	0.00
10,000.00	1.04	240.01	9,546.10	2,501.09	-912.75	2,662.00	0.00	0.00	0.00
10,100.00	1.04	240.01	9,646.09	2,500.19	-914.32	2,661.72	0.00	0.00	0.00
10,200.00	1.04	240.01	9,746.07	2,499.28	-915.88	2,661.44	0.00	0.00	0.00
10,300.00	1.04	240.01	9,846.06	2,498.38	-917.45	2,661.16	0.00	0.00	0.00
10,400.00	1.04	240.01	9,946.04	2,497.48	-919.02	2,660.88	0.00	0.00	0.00
10,500.00	1.04	240.01	10,046.02	2,496.57	-920.59	2,660.60	0.00	0.00	0.00
10,600.00	1.04	240.01	10,146.01	2,495.67	-922.15	2,660.32	0.00	0.00	0.00
10,700.00	1.04	240.01	10,245.99	2,494.76	-923.72	2,660.04	0.00	0.00	0.00
10,800.00	1.04	240.01	10,345.97	2,493.86	-925.29	2,659.77	0.00	0.00	0.00
10,900.00	1.04	240.01	10,445.96	2,492.96	-926.85	2,659.49	0.00	0.00	0.00
11,000.00	1.04	240.01	10,545.94	2,492.05	-928.42	2,659.21	0.00	0.00	0.00
11,100.00	1.04	240.01	10,645.92	2,491.15	-929.99	2,658.93	0.00	0.00	0.00
11,200.00	1.04	240.01	10,745.91	2,490.24	-931.55	2,658.65	0.00	0.00	0.00
11,300.00	1.04	240.01	10,845.89	2,489.34	-933.12	2,658.37	0.00	0.00	0.00
11,400.00	1.04	240.01	10,945.88	2,488.43	-934.69	2,658.09	0.00	0.00	0.00
11,500.00	1.04	240.01	11,045.86	2,487.53	-936.25	2,657.81	0.00	0.00	0.00
11,541.15	1.04	240.01	11,087.00	2,487.16	-936.90	2,657.69	0.00	0.00	0.00
CAMEO.NPC									
11,600.00	1.04	240.01	11,145.84	2,486.63	-937.82	2,657.53	0.00	0.00	0.00
11,700.00	1.04	240.01	11,245.83	2,485.72	-939.39	2,657.25	0.00	0.00	0.00
11,800.00	1.04	240.01	11,345.81	2,484.82	-940.95	2,656.97	0.00	0.00	0.00
11,900.00	1.04	240.01	11,445.79	2,483.91	-942.52	2,656.69	0.00	0.00	0.00
12,000.00	1.04	240.01	11,545.78	2,483.01	-944.09	2,656.41	0.00	0.00	0.00
12,100.00	1.04	240.01	11,645.76	2,482.11	-945.66	2,656.13	0.00	0.00	0.00
12,200.00	1.04	240.01	11,745.74	2,481.20	-947.22	2,655.85	0.00	0.00	0.00
12,300.00	1.04	240.01	11,845.73	2,480.30	-948.79	2,655.57	0.00	0.00	0.00
12,400.00	1.04	240.01	11,945.71	2,479.39	-950.36	2,655.29	0.00	0.00	0.00
12,500.00	1.04	240.01	12,045.70	2,478.49	-951.92	2,655.01	0.00	0.00	0.00
12,507.31	1.04	240.01	12,053.00	2,478.42	-952.04	2,654.99	0.00	0.00	0.00
ROLLINS.NPC									
12,600.00	1.04	240.01	12,145.68	2,477.59	-953.49	2,654.73	0.00	0.00	0.00
12,689.34	1.04	240.01	12,235.00	2,476.78	-954.89	2,654.48	0.00	0.00	0.00
TD at 12689.34									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 11D-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 11D-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 11D-14 - plan hits target center - Ellipse (radii L75.00 W50.00 on 240.00 azi)	0.00	0.00	12,235.00	2,476.78	-954.89	14,432,433.60	2,444,960.60	39.707664	-108.139609

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
3,400.25	3,251.00	WASATCH.NPC				
5,953.89	5,651.00	WASATCH_G.NPC				
6,658.27	6,313.00	FORT_UNION.NPC				
8,686.25	8,233.00	OHIO_CREEK.NPC				
9,050.74	8,597.00	WILLIAMS_FORK.NPC				
9,100.75	8,647.00	TOP_GAS.NPC				
11,541.15	11,087.00	CAMEO.NPC				
12,507.31	12,053.00	ROLLINS.NPC				
12,689.34	12,235.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
175.00	175.00	0.00	0.00	Begin 4.00° Build
275.00	274.95	2.61	0.18	Hold 3.00 Inc at 4.00 Azm
575.00	574.54	18.27	1.28	Begin 3.00° Build & Turn
1,150.85	1,136.94	126.60	-31.45	Hold 19.98 Inc at 340.07 Azm
8,237.84	7,797.53	2,402.74	-856.81	Begin 3.00° Drop
8,903.72	8,450.00	2,510.77	-895.98	Hold Vertical, Begin 2.00° Turn
8,955.55	8,501.83	2,510.54	-896.39	Hold 1.04 Inc at 240.00 Azm
12,689.34	12,235.00	2,476.78	-954.89	TD at 12689.34