



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 12D-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	310.00	399.95	1.68	-2.01	3.00	310.00	2.53	
4	550.00	3.00	310.00	549.75	6.73	-8.02	0.00	0.00	10.12	
5	885.81	12.90	327.06	881.94	43.94	-35.21	3.00	22.00	56.20	
6	8109.80	12.90	327.06	7923.48	1397.90	-912.43	0.00	0.00	1668.31	
7	8539.94	0.00	0.00	8350.00	1438.38	-938.66	3.00	180.00	1716.51	
8	8585.37	0.91	240.02	8395.43	1438.20	-938.97	2.00	240.02	1716.55	
9	12361.42	0.91	240.02	12171.00	1408.28	-990.84	0.00	0.00	1721.92	BHL - ELU J14 12D-14 496

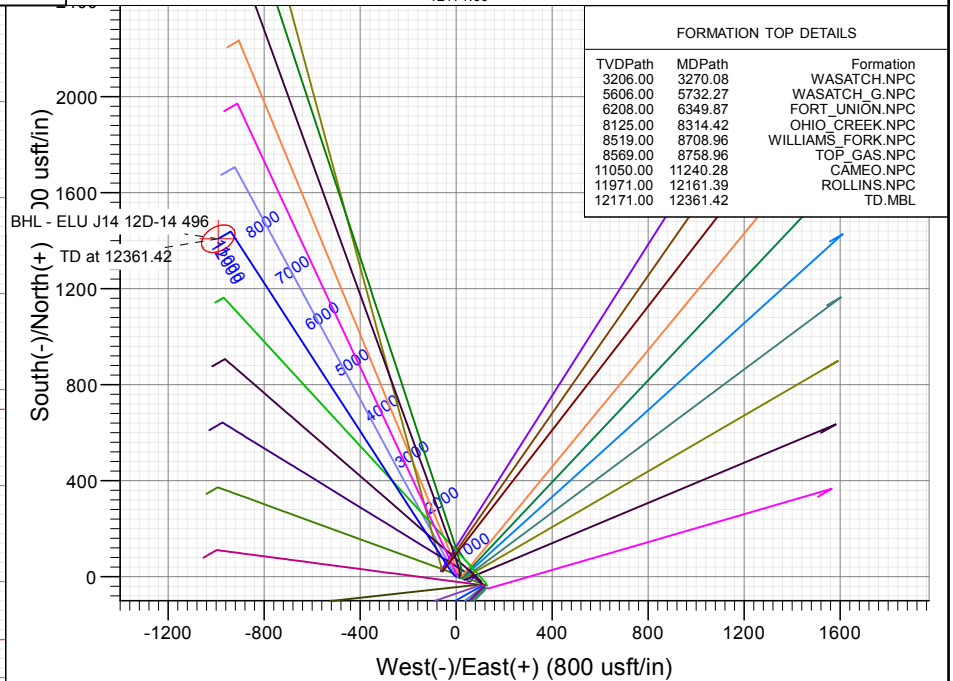
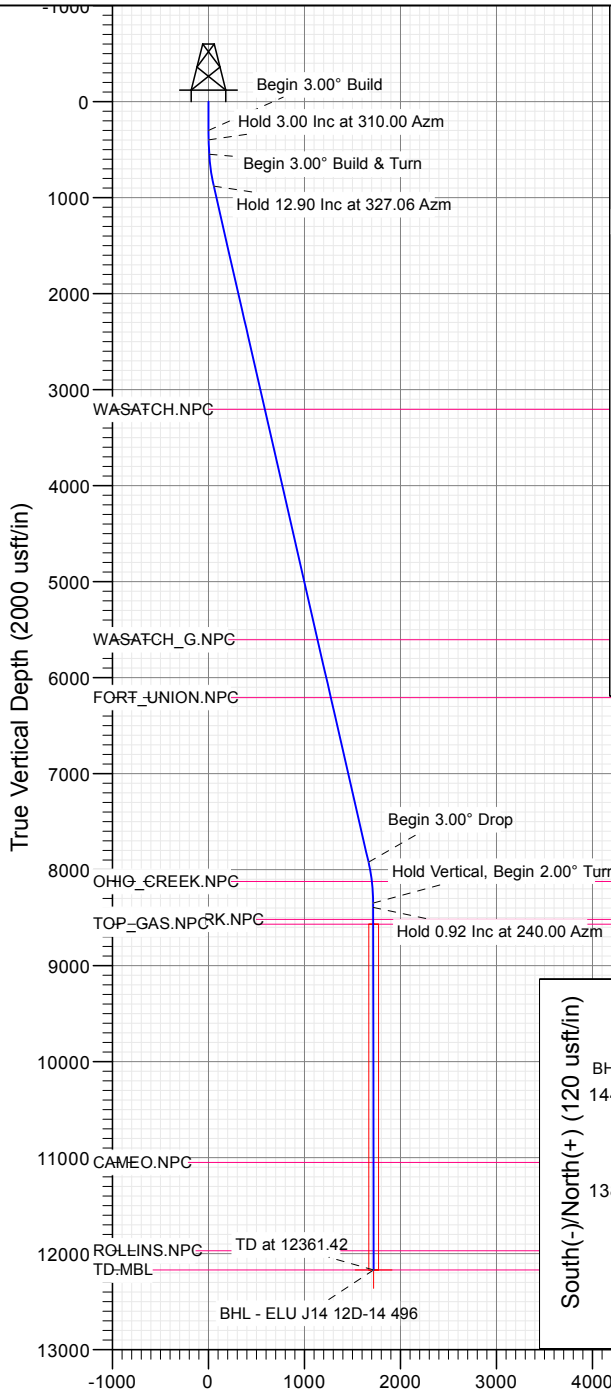
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 12D-14 496
Wellbore: OH
Design: Plan 1

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

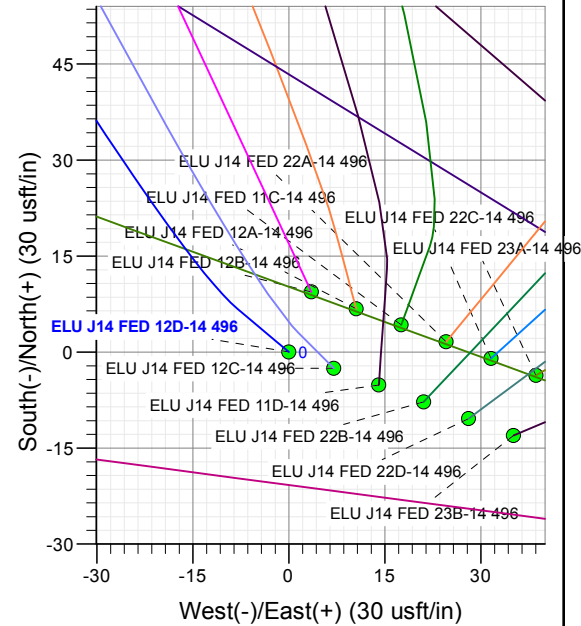
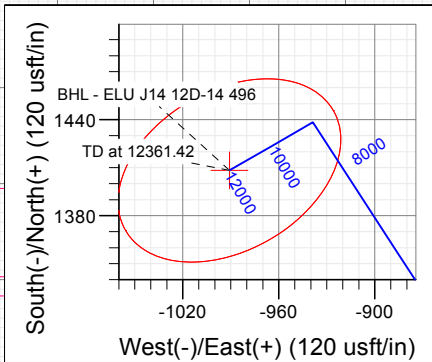
Name	Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 12D-14 496	TD	No Target (Freehand)	324.87	Slot		0.00	0.00	0.00	
			TVD						
			12171.00						
			+N/-S						
			1408.28						
			+E/-W						
			-990.84						
			Latitude						
			39.704745						
			Longitude						
			-108.139786						

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3206.00	3270.08	WASATCH.NPC
5606.00	5732.27	WASATCH_G.NPC
6208.00	6349.87	FORT_UNION.NPC
8125.00	8314.42	OHIO_CREEK.NPC
8519.00	8708.96	WILLIAMS_FORK.NPC
8569.00	8758.96	TOP_GAS.NPC
11050.00	11240.28	CAMEO.NPC
11971.00	12161.39	ROLLINS.NPC
12171.00	12361.42	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 324.87° (2000 usft/in)

WELL DETAILS: ELU J14 FED 12D-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14429993.29	2445979.91	39.700881	-108.136266

CATHEDRAL

CATHEDRAL



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12D-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 12D-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 12D-14 496					
Well Position	+N/-S	-32.94 usft	Northing:	14,429,993.29 usft	Latitude:	39.700881
	+E/-W	59.79 usft	Easting:	2,445,979.92 usft	Longitude:	-108.136266
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	10/31/2019	9.48	65.82	51,241.00000000

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	324.87	

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	310.00	399.95	1.68	-2.01	3.00	3.00	0.00	310.00	
550.00	3.00	310.00	549.75	6.73	-8.02	0.00	0.00	0.00	0.00	
885.81	12.90	327.06	881.94	43.94	-35.21	3.00	2.95	5.08	22.00	
8,109.80	12.90	327.06	7,923.48	1,397.90	-912.43	0.00	0.00	0.00	0.00	
8,539.94	0.00	0.00	8,350.00	1,438.38	-938.66	3.00	-3.00	0.00	180.00	
8,585.37	0.91	240.02	8,395.43	1,438.20	-938.97	2.00	2.00	-264.11	240.02	
12,361.42	0.91	240.02	12,171.00	1,408.28	-990.84	0.00	0.00	0.00	0.00	BHL - ELU J14 12D

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12D-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 12D-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	310.00	399.95	1.68	-2.01	2.53	3.00	3.00	0.00
Hold 3.00 Inc at 310.00 Azm									
500.00	3.00	310.00	499.82	5.05	-6.01	7.59	0.00	0.00	0.00
550.00	3.00	310.00	549.75	6.73	-8.02	10.12	0.00	0.00	0.00
Begin 3.00° Build & Turn									
600.00	4.43	317.30	599.64	8.99	-10.33	13.29	3.00	2.85	14.60
700.00	7.37	323.25	699.10	16.96	-16.78	23.53	3.00	2.94	5.95
800.00	10.34	325.80	797.90	29.53	-25.67	38.92	3.00	2.97	2.55
885.81	12.90	327.06	881.94	43.94	-35.21	56.20	3.00	2.99	1.47
Hold 12.90 Inc at 327.06 Azm									
900.00	12.90	327.06	895.78	46.60	-36.93	59.37	0.00	0.00	0.00
1,000.00	12.90	327.06	993.25	65.34	-49.08	81.68	0.00	0.00	0.00
1,100.00	12.90	327.06	1,090.72	84.09	-61.22	104.00	0.00	0.00	0.00
1,200.00	12.90	327.06	1,188.20	102.83	-73.36	126.31	0.00	0.00	0.00
1,300.00	12.90	327.06	1,285.67	121.57	-85.51	148.63	0.00	0.00	0.00
1,400.00	12.90	327.06	1,383.15	140.31	-97.65	170.95	0.00	0.00	0.00
1,500.00	12.90	327.06	1,480.62	159.06	-109.79	193.26	0.00	0.00	0.00
1,600.00	12.90	327.06	1,578.10	177.80	-121.94	215.58	0.00	0.00	0.00
1,700.00	12.90	327.06	1,675.57	196.54	-134.08	237.89	0.00	0.00	0.00
1,800.00	12.90	327.06	1,773.05	215.28	-146.22	260.21	0.00	0.00	0.00
1,900.00	12.90	327.06	1,870.52	234.03	-158.36	282.53	0.00	0.00	0.00
2,000.00	12.90	327.06	1,967.99	252.77	-170.51	304.84	0.00	0.00	0.00
2,100.00	12.90	327.06	2,065.47	271.51	-182.65	327.16	0.00	0.00	0.00
2,200.00	12.90	327.06	2,162.94	290.25	-194.79	349.48	0.00	0.00	0.00
2,300.00	12.90	327.06	2,260.42	309.00	-206.94	371.79	0.00	0.00	0.00
2,400.00	12.90	327.06	2,357.89	327.74	-219.08	394.11	0.00	0.00	0.00
2,500.00	12.90	327.06	2,455.37	346.48	-231.22	416.42	0.00	0.00	0.00
2,600.00	12.90	327.06	2,552.84	365.22	-243.37	438.74	0.00	0.00	0.00
2,700.00	12.90	327.06	2,650.32	383.97	-255.51	461.06	0.00	0.00	0.00
2,800.00	12.90	327.06	2,747.79	402.71	-267.65	483.37	0.00	0.00	0.00
2,900.00	12.90	327.06	2,845.26	421.45	-279.80	505.69	0.00	0.00	0.00
3,000.00	12.90	327.06	2,942.74	440.19	-291.94	528.00	0.00	0.00	0.00
3,100.00	12.90	327.06	3,040.21	458.94	-304.08	550.32	0.00	0.00	0.00
3,200.00	12.90	327.06	3,137.69	477.68	-316.23	572.64	0.00	0.00	0.00
3,270.08	12.90	327.06	3,206.00	490.82	-324.74	588.28	0.00	0.00	0.00
WASATCH.NPC									
3,300.00	12.90	327.06	3,235.16	496.42	-328.37	594.95	0.00	0.00	0.00
3,400.00	12.90	327.06	3,332.64	515.16	-340.51	617.27	0.00	0.00	0.00
3,500.00	12.90	327.06	3,430.11	533.91	-352.66	639.59	0.00	0.00	0.00
3,600.00	12.90	327.06	3,527.59	552.65	-364.80	661.90	0.00	0.00	0.00
3,700.00	12.90	327.06	3,625.06	571.39	-376.94	684.22	0.00	0.00	0.00
3,800.00	12.90	327.06	3,722.53	590.13	-389.09	706.53	0.00	0.00	0.00
3,900.00	12.90	327.06	3,820.01	608.88	-401.23	728.85	0.00	0.00	0.00
4,000.00	12.90	327.06	3,917.48	627.62	-413.37	751.17	0.00	0.00	0.00
4,100.00	12.90	327.06	4,014.96	646.36	-425.51	773.48	0.00	0.00	0.00
4,200.00	12.90	327.06	4,112.43	665.11	-437.66	795.80	0.00	0.00	0.00
4,300.00	12.90	327.06	4,209.91	683.85	-449.80	818.11	0.00	0.00	0.00
4,400.00	12.90	327.06	4,307.38	702.59	-461.94	840.43	0.00	0.00	0.00
4,500.00	12.90	327.06	4,404.85	721.33	-474.09	862.75	0.00	0.00	0.00
4,600.00	12.90	327.06	4,502.33	740.08	-486.23	885.06	0.00	0.00	0.00
4,700.00	12.90	327.06	4,599.80	758.82	-498.37	907.38	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12D-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 12D-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	12.90	327.06	4,697.28	777.56	-510.52	929.70	0.00	0.00	0.00
4,900.00	12.90	327.06	4,794.75	796.30	-522.66	952.01	0.00	0.00	0.00
5,000.00	12.90	327.06	4,892.23	815.05	-534.80	974.33	0.00	0.00	0.00
5,100.00	12.90	327.06	4,989.70	833.79	-546.95	996.64	0.00	0.00	0.00
5,200.00	12.90	327.06	5,087.18	852.53	-559.09	1,018.96	0.00	0.00	0.00
5,300.00	12.90	327.06	5,184.65	871.27	-571.23	1,041.28	0.00	0.00	0.00
5,400.00	12.90	327.06	5,282.12	890.02	-583.38	1,063.59	0.00	0.00	0.00
5,500.00	12.90	327.06	5,379.60	908.76	-595.52	1,085.91	0.00	0.00	0.00
5,600.00	12.90	327.06	5,477.07	927.50	-607.66	1,108.22	0.00	0.00	0.00
5,700.00	12.90	327.06	5,574.55	946.24	-619.81	1,130.54	0.00	0.00	0.00
5,732.27	12.90	327.06	5,606.00	952.29	-623.72	1,137.74	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	12.90	327.06	5,672.02	964.99	-631.95	1,152.86	0.00	0.00	0.00
5,900.00	12.90	327.06	5,769.50	983.73	-644.09	1,175.17	0.00	0.00	0.00
6,000.00	12.90	327.06	5,866.97	1,002.47	-656.24	1,197.49	0.00	0.00	0.00
6,100.00	12.90	327.06	5,964.45	1,021.21	-668.38	1,219.81	0.00	0.00	0.00
6,200.00	12.90	327.06	6,061.92	1,039.96	-680.52	1,242.12	0.00	0.00	0.00
6,300.00	12.90	327.06	6,159.39	1,058.70	-692.67	1,264.44	0.00	0.00	0.00
6,349.87	12.90	327.06	6,208.00	1,068.04	-698.72	1,275.57	0.00	0.00	0.00
FORT_UNION.NPC									
6,400.00	12.90	327.06	6,256.87	1,077.44	-704.81	1,286.75	0.00	0.00	0.00
6,500.00	12.90	327.06	6,354.34	1,096.18	-716.95	1,309.07	0.00	0.00	0.00
6,600.00	12.90	327.06	6,451.82	1,114.93	-729.09	1,331.39	0.00	0.00	0.00
6,700.00	12.90	327.06	6,549.29	1,133.67	-741.24	1,353.70	0.00	0.00	0.00
6,800.00	12.90	327.06	6,646.77	1,152.41	-753.38	1,376.02	0.00	0.00	0.00
6,900.00	12.90	327.06	6,744.24	1,171.15	-765.52	1,398.33	0.00	0.00	0.00
7,000.00	12.90	327.06	6,841.72	1,189.90	-777.67	1,420.65	0.00	0.00	0.00
7,100.00	12.90	327.06	6,939.19	1,208.64	-789.81	1,442.97	0.00	0.00	0.00
7,200.00	12.90	327.06	7,036.66	1,227.38	-801.95	1,465.28	0.00	0.00	0.00
7,300.00	12.90	327.06	7,134.14	1,246.12	-814.10	1,487.60	0.00	0.00	0.00
7,400.00	12.90	327.06	7,231.61	1,264.87	-826.24	1,509.92	0.00	0.00	0.00
7,500.00	12.90	327.06	7,329.09	1,283.61	-838.38	1,532.23	0.00	0.00	0.00
7,600.00	12.90	327.06	7,426.56	1,302.35	-850.53	1,554.55	0.00	0.00	0.00
7,700.00	12.90	327.06	7,524.04	1,321.09	-862.67	1,576.86	0.00	0.00	0.00
7,800.00	12.90	327.06	7,621.51	1,339.84	-874.81	1,599.18	0.00	0.00	0.00
7,900.00	12.90	327.06	7,718.99	1,358.58	-886.96	1,621.50	0.00	0.00	0.00
8,000.00	12.90	327.06	7,816.46	1,377.32	-899.10	1,643.81	0.00	0.00	0.00
8,100.00	12.90	327.06	7,913.93	1,396.06	-911.24	1,666.13	0.00	0.00	0.00
8,109.80	12.90	327.06	7,923.49	1,397.90	-912.43	1,668.32	0.00	0.00	0.00
Begin 3.00° Drop									
8,200.00	10.20	327.06	8,011.85	1,413.06	-922.25	1,686.36	3.00	-3.00	0.00
8,300.00	7.20	327.06	8,110.69	1,425.75	-930.48	1,701.47	3.00	-3.00	0.00
8,314.42	6.77	327.06	8,125.00	1,427.22	-931.43	1,703.22	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,400.00	4.20	327.06	8,210.18	1,434.08	-935.87	1,711.39	3.00	-3.00	0.00
8,500.00	1.20	327.06	8,310.06	1,438.03	-938.43	1,716.10	3.00	-3.00	0.00
8,539.94	0.00	0.00	8,350.00	1,438.38	-938.66	1,716.51	3.00	-3.00	82.47
Hold Vertical, Begin 2.00° Turn									
8,585.37	0.91	240.02	8,395.43	1,438.20	-938.97	1,716.55	2.00	2.00	-264.10
Hold 0.92 Inc at 240.00 Azm									
8,600.00	0.91	240.02	8,410.06	1,438.08	-939.17	1,716.57	0.00	0.00	0.00
8,700.00	0.91	240.02	8,510.04	1,437.29	-940.55	1,716.71	0.00	0.00	0.00
8,708.96	0.91	240.02	8,519.00	1,437.22	-940.67	1,716.72	0.00	0.00	0.00



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12D-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 12D-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									
8,758.97	0.91	240.02	8,569.00	1,436.82	-941.36	1,716.79	0.00	0.00	0.00
TOP_GAS.NPC									
8,800.00	0.91	240.02	8,610.03	1,436.50	-941.92	1,716.85	0.00	0.00	0.00
8,900.00	0.91	240.02	8,710.02	1,435.71	-943.29	1,716.99	0.00	0.00	0.00
9,000.00	0.91	240.02	8,810.01	1,434.91	-944.67	1,717.14	0.00	0.00	0.00
9,100.00	0.91	240.02	8,909.99	1,434.12	-946.04	1,717.28	0.00	0.00	0.00
9,200.00	0.91	240.02	9,009.98	1,433.33	-947.41	1,717.42	0.00	0.00	0.00
9,300.00	0.91	240.02	9,109.97	1,432.54	-948.79	1,717.56	0.00	0.00	0.00
9,400.00	0.91	240.02	9,209.95	1,431.75	-950.16	1,717.71	0.00	0.00	0.00
9,500.00	0.91	240.02	9,309.94	1,430.95	-951.53	1,717.85	0.00	0.00	0.00
9,600.00	0.91	240.02	9,409.93	1,430.16	-952.91	1,717.99	0.00	0.00	0.00
9,700.00	0.91	240.02	9,509.92	1,429.37	-954.28	1,718.13	0.00	0.00	0.00
9,800.00	0.91	240.02	9,609.90	1,428.58	-955.66	1,718.28	0.00	0.00	0.00
9,900.00	0.91	240.02	9,709.89	1,427.78	-957.03	1,718.42	0.00	0.00	0.00
10,000.00	0.91	240.02	9,809.88	1,426.99	-958.40	1,718.56	0.00	0.00	0.00
10,100.00	0.91	240.02	9,909.87	1,426.20	-959.78	1,718.70	0.00	0.00	0.00
10,200.00	0.91	240.02	10,009.85	1,425.41	-961.15	1,718.84	0.00	0.00	0.00
10,300.00	0.91	240.02	10,109.84	1,424.61	-962.52	1,718.99	0.00	0.00	0.00
10,400.00	0.91	240.02	10,209.83	1,423.82	-963.90	1,719.13	0.00	0.00	0.00
10,500.00	0.91	240.02	10,309.82	1,423.03	-965.27	1,719.27	0.00	0.00	0.00
10,600.00	0.91	240.02	10,409.80	1,422.24	-966.64	1,719.41	0.00	0.00	0.00
10,700.00	0.91	240.02	10,509.79	1,421.44	-968.02	1,719.56	0.00	0.00	0.00
10,800.00	0.91	240.02	10,609.78	1,420.65	-969.39	1,719.70	0.00	0.00	0.00
10,900.00	0.91	240.02	10,709.77	1,419.86	-970.76	1,719.84	0.00	0.00	0.00
11,000.00	0.91	240.02	10,809.75	1,419.07	-972.14	1,719.98	0.00	0.00	0.00
11,100.00	0.91	240.02	10,909.74	1,418.28	-973.51	1,720.13	0.00	0.00	0.00
11,200.00	0.91	240.02	11,009.73	1,417.48	-974.88	1,720.27	0.00	0.00	0.00
11,240.28	0.91	240.02	11,050.00	1,417.16	-975.44	1,720.32	0.00	0.00	0.00
CAMEO.NPC									
11,300.00	0.91	240.02	11,109.72	1,416.69	-976.26	1,720.41	0.00	0.00	0.00
11,400.00	0.91	240.02	11,209.70	1,415.90	-977.63	1,720.55	0.00	0.00	0.00
11,500.00	0.91	240.02	11,309.69	1,415.11	-979.00	1,720.69	0.00	0.00	0.00
11,600.00	0.91	240.02	11,409.68	1,414.31	-980.38	1,720.84	0.00	0.00	0.00
11,700.00	0.91	240.02	11,509.67	1,413.52	-981.75	1,720.98	0.00	0.00	0.00
11,800.00	0.91	240.02	11,609.65	1,412.73	-983.13	1,721.12	0.00	0.00	0.00
11,900.00	0.91	240.02	11,709.64	1,411.94	-984.50	1,721.26	0.00	0.00	0.00
12,000.00	0.91	240.02	11,809.63	1,411.14	-985.87	1,721.41	0.00	0.00	0.00
12,100.00	0.91	240.02	11,909.62	1,410.35	-987.25	1,721.55	0.00	0.00	0.00
12,161.39	0.91	240.02	11,971.00	1,409.86	-988.09	1,721.64	0.00	0.00	0.00
ROLLINS.NPC									
12,200.00	0.91	240.02	12,009.60	1,409.56	-988.62	1,721.69	0.00	0.00	0.00
12,300.00	0.91	240.02	12,109.59	1,408.77	-989.99	1,721.83	0.00	0.00	0.00
12,361.42	0.91	240.02	12,171.00	1,408.28	-990.84	1,721.92	0.00	0.00	0.00
TD at 12361.42									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 12D-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 12D-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
BHL - ELU J14 12D-1	0.00	0.00	12,171.00	1,408.28	-990.84	14,431,369.20	2,444,944.60	39.704745	-108.139786
- plan hits target center									
- Ellipse (radii L75.00 W50.00 on 240.00 azi)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,270.08	3,206.00	WASATCH.NPC			
5,732.27	5,606.00	WASATCH_G.NPC			
6,349.87	6,208.00	FORT_UNION.NPC			
8,314.42	8,125.00	OHIO_CREEK.NPC			
8,708.96	8,519.00	WILLIAMS_FORK.NPC			
8,758.97	8,569.00	TOP_GAS.NPC			
11,240.28	11,050.00	CAMEO.NPC			
12,161.39	11,971.00	ROLLINS.NPC		0.00	
12,361.42	12,171.00	TD.MBL		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Begin 3.00° Build
400.00	399.95	1.68	-2.01	Hold 3.00 Inc at 310.00 Azm
550.00	549.75	6.73	-8.02	Begin 3.00° Build & Turn
885.81	881.94	43.94	-35.21	Hold 12.90 Inc at 327.06 Azm
8,109.80	7,923.49	1,397.90	-912.43	Begin 3.00° Drop
8,539.94	8,350.00	1,438.38	-938.66	Hold Vertical, Begin 2.00° Turn
8,585.37	8,395.43	1,438.20	-938.97	Hold 0.92 Inc at 240.00 Azm
12,361.42	12,171.00	1,408.28	-990.84	TD at 12361.42