



Caerus Oil & Gas

**Rio Blanco County, CO (UTM 12N)
SEC 14-T4S-R96W ELU FED J14 496
ELU J14 FED 14C-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	Vsect	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	479.21	8.38	251.05	478.21	-6.62	-19.27	3.00	251.05	20.37	
4	8356.81	8.38	251.05	8271.79	-379.25	-1104.63	0.00	0.00	1167.87	
5	8636.02	0.00	0.00	8550.00	-385.87	-1123.90	3.00	180.00	1188.24	
6	8685.92	1.00	240.02	8599.90	-386.09	-1124.28	2.00	240.02	1188.67	
7	12147.55	1.00	240.02	12061.00	-416.22	-1176.51	0.00	0.00	1247.96	BHL - ELU J14 14C-14 496

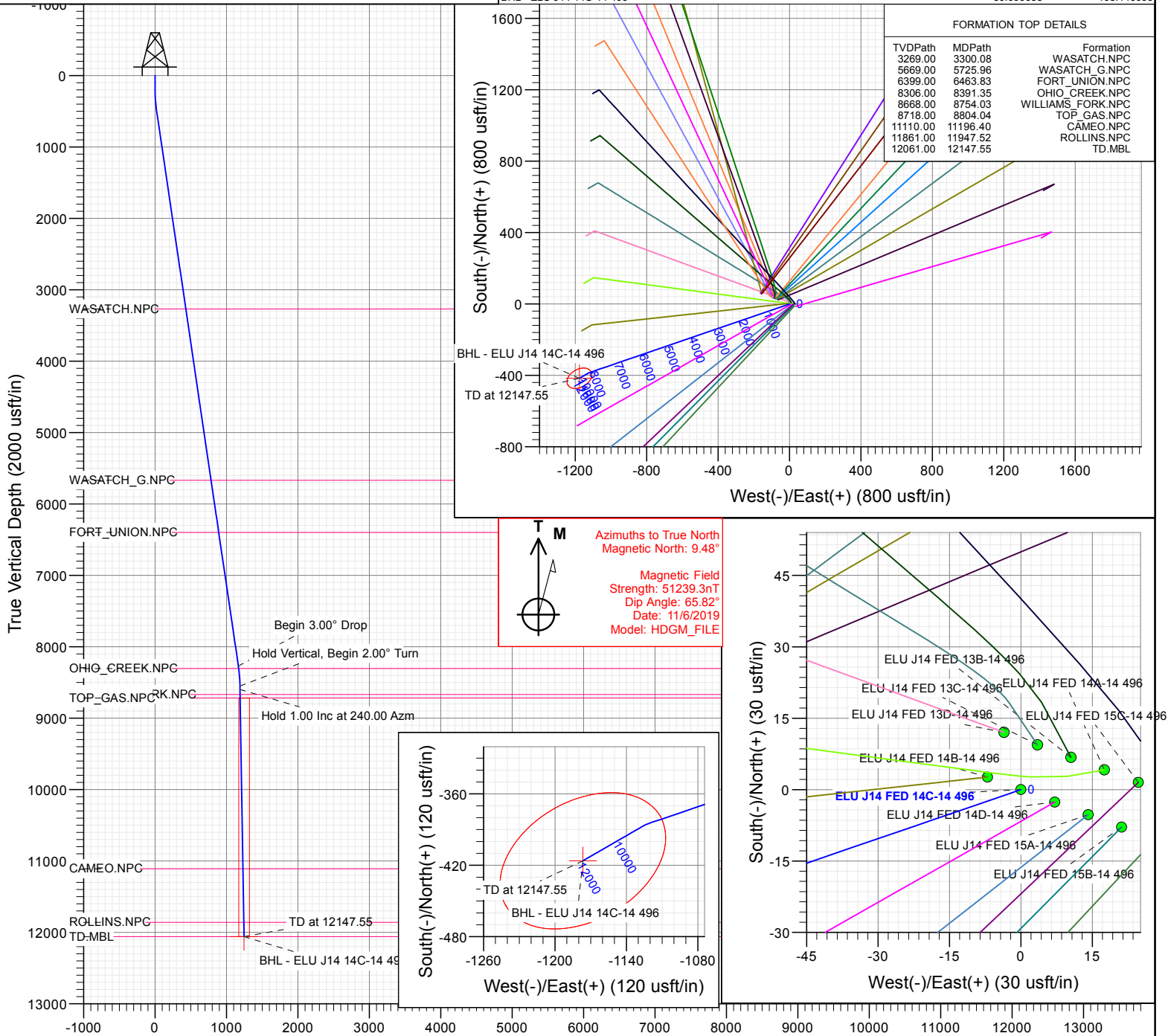
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU FED J14 496
Well: ELU J14 FED 14C-14 496
Wellbore: OH
Design: Plan 1

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

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 14C-14 496	TD			250.52	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12061.00			-416.22	-1176.51	39.699638	-108.140096

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3269.00	3300.08	WASATCH.NPC
5669.00	5725.96	WASATCH_G.NPC
6399.00	6463.83	FORT_UNION.NPC
8306.00	8391.35	OHIO_CREEK.NPC
8668.00	8754.03	WILLIAMS_FORK.NPC
8718.00	8804.04	TOP_GAS.NPC
11110.00	11196.40	CAMEO.NPC
11861.00	11947.52	ROLLINS.NPC
12061.00	12147.55	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 250.52° (2000 usft/in)
WELL DETAILS: ELU J14 FED 14C-14 496
+N/-S 0.00 +E/-W 0.00 Northing 14429959.99 Easting 2446079.41
7902.00 Latitude 39.700781 Longitude -108.135916





Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 14C-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 14C-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 14C-14 496					
Well Position	+N/-S	-69.40 usft	Northing:	14,429,959.99 usft	Latitude:	39.700781
	+E/-W	158.18 usft	Easting:	2,446,079.42 usft	Longitude:	-108.135917
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	250.52

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	
479.21	8.38	251.05	478.21	-6.62	-19.27	3.00	3.00	0.00	251.05	
8,356.81	8.38	251.05	8,271.79	-379.25	-1,104.63	0.00	0.00	0.00	0.00	
8,636.02	0.00	0.00	8,550.00	-385.87	-1,123.90	3.00	-3.00	0.00	180.00	
8,685.92	1.00	240.02	8,599.90	-386.09	-1,124.28	2.00	2.00	-240.42	240.02	
12,147.55	1.00	240.02	12,061.00	-416.22	-1,176.51	0.00	0.00	0.00	0.00	BHL - ELU J14 14C



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 14C-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 14C-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	251.05	299.95	-0.85	-2.48	2.62	3.00	3.00	0.00
400.00	6.00	251.05	399.63	-3.40	-9.90	10.46	3.00	3.00	0.00
479.21	8.38	251.05	478.22	-6.62	-19.27	20.37	3.00	3.00	0.00
Hold 8.38 Inc at 251.05 Azm									
500.00	8.38	251.05	498.78	-7.60	-22.13	23.40	0.00	0.00	0.00
600.00	8.38	251.05	597.72	-12.33	-35.91	37.97	0.00	0.00	0.00
700.00	8.38	251.05	696.65	-17.06	-49.69	52.53	0.00	0.00	0.00
800.00	8.38	251.05	795.58	-21.79	-63.47	67.10	0.00	0.00	0.00
900.00	8.38	251.05	894.52	-26.52	-77.24	81.67	0.00	0.00	0.00
1,000.00	8.38	251.05	993.45	-31.25	-91.02	96.23	0.00	0.00	0.00
1,100.00	8.38	251.05	1,092.38	-35.98	-104.80	110.80	0.00	0.00	0.00
1,200.00	8.38	251.05	1,191.32	-40.71	-118.58	125.37	0.00	0.00	0.00
1,300.00	8.38	251.05	1,290.25	-45.44	-132.36	139.93	0.00	0.00	0.00
1,400.00	8.38	251.05	1,389.18	-50.17	-146.13	154.50	0.00	0.00	0.00
1,500.00	8.38	251.05	1,488.12	-54.90	-159.91	169.07	0.00	0.00	0.00
1,600.00	8.38	251.05	1,587.05	-59.63	-173.69	183.63	0.00	0.00	0.00
1,700.00	8.38	251.05	1,685.98	-64.36	-187.47	198.20	0.00	0.00	0.00
1,800.00	8.38	251.05	1,784.92	-69.09	-201.25	212.77	0.00	0.00	0.00
1,900.00	8.38	251.05	1,883.85	-73.82	-215.02	227.33	0.00	0.00	0.00
2,000.00	8.38	251.05	1,982.78	-78.55	-228.80	241.90	0.00	0.00	0.00
2,100.00	8.38	251.05	2,081.72	-83.28	-242.58	256.47	0.00	0.00	0.00
2,200.00	8.38	251.05	2,180.65	-88.02	-256.36	271.03	0.00	0.00	0.00
2,300.00	8.38	251.05	2,279.58	-92.75	-270.13	285.60	0.00	0.00	0.00
2,400.00	8.38	251.05	2,378.52	-97.48	-283.91	300.17	0.00	0.00	0.00
2,500.00	8.38	251.05	2,477.45	-102.21	-297.69	314.73	0.00	0.00	0.00
2,600.00	8.38	251.05	2,576.38	-106.94	-311.47	329.30	0.00	0.00	0.00
2,700.00	8.38	251.05	2,675.32	-111.67	-325.25	343.87	0.00	0.00	0.00
2,800.00	8.38	251.05	2,774.25	-116.40	-339.02	358.43	0.00	0.00	0.00
2,900.00	8.38	251.05	2,873.18	-121.13	-352.80	373.00	0.00	0.00	0.00
3,000.00	8.38	251.05	2,972.12	-125.86	-366.58	387.57	0.00	0.00	0.00
3,100.00	8.38	251.05	3,071.05	-130.59	-380.36	402.13	0.00	0.00	0.00
3,200.00	8.38	251.05	3,169.98	-135.32	-394.13	416.70	0.00	0.00	0.00
3,300.00	8.38	251.05	3,268.92	-140.05	-407.91	431.27	0.00	0.00	0.00
3,300.08	8.38	251.05	3,269.00	-140.05	-407.92	431.28	0.00	0.00	0.00
WASATCH.NPC									
3,400.00	8.38	251.05	3,367.85	-144.78	-421.69	445.83	0.00	0.00	0.00
3,500.00	8.38	251.05	3,466.78	-149.51	-435.47	460.40	0.00	0.00	0.00
3,600.00	8.38	251.05	3,565.72	-154.24	-449.25	474.97	0.00	0.00	0.00
3,700.00	8.38	251.05	3,664.65	-158.97	-463.02	489.53	0.00	0.00	0.00
3,800.00	8.38	251.05	3,763.58	-163.70	-476.80	504.10	0.00	0.00	0.00
3,900.00	8.38	251.05	3,862.52	-168.43	-490.58	518.67	0.00	0.00	0.00
4,000.00	8.38	251.05	3,961.45	-173.16	-504.36	533.23	0.00	0.00	0.00
4,100.00	8.38	251.05	4,060.38	-177.89	-518.14	547.80	0.00	0.00	0.00
4,200.00	8.38	251.05	4,159.32	-182.62	-531.91	562.37	0.00	0.00	0.00
4,300.00	8.38	251.05	4,258.25	-187.35	-545.69	576.93	0.00	0.00	0.00
4,400.00	8.38	251.05	4,357.18	-192.08	-559.47	591.50	0.00	0.00	0.00
4,500.00	8.38	251.05	4,456.12	-196.81	-573.25	606.07	0.00	0.00	0.00
4,600.00	8.38	251.05	4,555.05	-201.54	-587.02	620.63	0.00	0.00	0.00
4,700.00	8.38	251.05	4,653.98	-206.27	-600.80	635.20	0.00	0.00	0.00
4,800.00	8.38	251.05	4,752.92	-211.00	-614.58	649.77	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 14C-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 14C-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	8.38	251.05	4,851.85	-215.73	-628.36	664.33	0.00	0.00	0.00
5,000.00	8.38	251.05	4,950.78	-220.47	-642.14	678.90	0.00	0.00	0.00
5,100.00	8.38	251.05	5,049.72	-225.20	-655.91	693.47	0.00	0.00	0.00
5,200.00	8.38	251.05	5,148.65	-229.93	-669.69	708.03	0.00	0.00	0.00
5,300.00	8.38	251.05	5,247.58	-234.66	-683.47	722.60	0.00	0.00	0.00
5,400.00	8.38	251.05	5,346.52	-239.39	-697.25	737.17	0.00	0.00	0.00
5,500.00	8.38	251.05	5,445.45	-244.12	-711.02	751.73	0.00	0.00	0.00
5,600.00	8.38	251.05	5,544.38	-248.85	-724.80	766.30	0.00	0.00	0.00
5,700.00	8.38	251.05	5,643.32	-253.58	-738.58	780.86	0.00	0.00	0.00
5,725.96	8.38	251.05	5,669.00	-254.81	-742.16	784.65	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	8.38	251.05	5,742.25	-258.31	-752.36	795.43	0.00	0.00	0.00
5,900.00	8.38	251.05	5,841.18	-263.04	-766.14	810.00	0.00	0.00	0.00
6,000.00	8.38	251.05	5,940.12	-267.77	-779.91	824.56	0.00	0.00	0.00
6,100.00	8.38	251.05	6,039.05	-272.50	-793.69	839.13	0.00	0.00	0.00
6,200.00	8.38	251.05	6,137.98	-277.23	-807.47	853.70	0.00	0.00	0.00
6,300.00	8.38	251.05	6,236.92	-281.96	-821.25	868.26	0.00	0.00	0.00
6,400.00	8.38	251.05	6,335.85	-286.69	-835.03	882.83	0.00	0.00	0.00
6,463.83	8.38	251.05	6,399.00	-289.71	-843.82	892.13	0.00	0.00	0.00
FORT_UNION.NPC									
6,500.00	8.38	251.05	6,434.78	-291.42	-848.80	897.40	0.00	0.00	0.00
6,600.00	8.38	251.05	6,533.72	-296.15	-862.58	911.96	0.00	0.00	0.00
6,700.00	8.38	251.05	6,632.65	-300.88	-876.36	926.53	0.00	0.00	0.00
6,800.00	8.38	251.05	6,731.58	-305.61	-890.14	941.10	0.00	0.00	0.00
6,900.00	8.38	251.05	6,830.52	-310.34	-903.91	955.66	0.00	0.00	0.00
7,000.00	8.38	251.05	6,929.45	-315.07	-917.69	970.23	0.00	0.00	0.00
7,100.00	8.38	251.05	7,028.38	-319.80	-931.47	984.80	0.00	0.00	0.00
7,200.00	8.38	251.05	7,127.32	-324.53	-945.25	999.36	0.00	0.00	0.00
7,300.00	8.38	251.05	7,226.25	-329.26	-959.03	1,013.93	0.00	0.00	0.00
7,400.00	8.38	251.05	7,325.18	-333.99	-972.80	1,028.50	0.00	0.00	0.00
7,500.00	8.38	251.05	7,424.11	-338.72	-986.58	1,043.06	0.00	0.00	0.00
7,600.00	8.38	251.05	7,523.05	-343.45	-1,000.36	1,057.63	0.00	0.00	0.00
7,700.00	8.38	251.05	7,621.98	-348.18	-1,014.14	1,072.20	0.00	0.00	0.00
7,800.00	8.38	251.05	7,720.91	-352.92	-1,027.91	1,086.76	0.00	0.00	0.00
7,900.00	8.38	251.05	7,819.85	-357.65	-1,041.69	1,101.33	0.00	0.00	0.00
8,000.00	8.38	251.05	7,918.78	-362.38	-1,055.47	1,115.90	0.00	0.00	0.00
8,100.00	8.38	251.05	8,017.71	-367.11	-1,069.25	1,130.46	0.00	0.00	0.00
8,200.00	8.38	251.05	8,116.65	-371.84	-1,083.03	1,145.03	0.00	0.00	0.00
8,300.00	8.38	251.05	8,215.58	-376.57	-1,096.80	1,159.60	0.00	0.00	0.00
8,356.81	8.38	251.05	8,271.79	-379.25	-1,104.63	1,167.87	0.00	0.00	0.00
Begin 3.00° Drop									
8,391.35	7.34	251.05	8,306.00	-380.79	-1,109.10	1,172.59	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,400.00	7.08	251.05	8,314.58	-381.14	-1,110.12	1,173.68	3.00	-3.00	0.00
8,500.00	4.08	251.05	8,414.10	-384.30	-1,119.32	1,183.40	3.00	-3.00	0.00
8,600.00	1.08	251.05	8,513.98	-385.76	-1,123.58	1,187.90	3.00	-3.00	0.00
8,636.02	0.00	0.00	8,550.00	-385.87	-1,123.90	1,188.24	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,685.92	1.00	240.02	8,599.90	-386.09	-1,124.28	1,188.67	2.00	2.00	0.00
Hold 1.00 Inc at 240.00 Azm									
8,700.00	1.00	240.02	8,613.98	-386.21	-1,124.49	1,188.91	0.00	0.00	0.00
8,754.03	1.00	240.02	8,668.00	-386.68	-1,125.30	1,189.84	0.00	0.00	0.00
WILLIAMS_FORK.NPC									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 14C-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 14C-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)
8,800.00	1.00	240.02	8,713.96	-387.08	-1,126.00	1,190.63	0.00	0.00	0.00
8,804.04	1.00	240.02	8,718.00	-387.12	-1,126.06	1,190.69	0.00	0.00	0.00
TOP_GAS.NPC									
8,900.00	1.00	240.02	8,813.95	-387.95	-1,127.51	1,192.34	0.00	0.00	0.00
9,000.00	1.00	240.02	8,913.93	-388.82	-1,129.02	1,194.05	0.00	0.00	0.00
9,100.00	1.00	240.02	9,013.92	-389.69	-1,130.52	1,195.76	0.00	0.00	0.00
9,200.00	1.00	240.02	9,113.90	-390.56	-1,132.03	1,197.48	0.00	0.00	0.00
9,300.00	1.00	240.02	9,213.89	-391.43	-1,133.54	1,199.19	0.00	0.00	0.00
9,400.00	1.00	240.02	9,313.87	-392.30	-1,135.05	1,200.90	0.00	0.00	0.00
9,500.00	1.00	240.02	9,413.86	-393.17	-1,136.56	1,202.61	0.00	0.00	0.00
9,600.00	1.00	240.02	9,513.84	-394.04	-1,138.07	1,204.33	0.00	0.00	0.00
9,700.00	1.00	240.02	9,613.83	-394.91	-1,139.58	1,206.04	0.00	0.00	0.00
9,800.00	1.00	240.02	9,713.81	-395.78	-1,141.09	1,207.75	0.00	0.00	0.00
9,900.00	1.00	240.02	9,813.80	-396.65	-1,142.59	1,209.47	0.00	0.00	0.00
10,000.00	1.00	240.02	9,913.78	-397.52	-1,144.10	1,211.18	0.00	0.00	0.00
10,100.00	1.00	240.02	10,013.76	-398.39	-1,145.61	1,212.89	0.00	0.00	0.00
10,200.00	1.00	240.02	10,113.75	-399.27	-1,147.12	1,214.60	0.00	0.00	0.00
10,300.00	1.00	240.02	10,213.73	-400.14	-1,148.63	1,216.32	0.00	0.00	0.00
10,400.00	1.00	240.02	10,313.72	-401.01	-1,150.14	1,218.03	0.00	0.00	0.00
10,500.00	1.00	240.02	10,413.70	-401.88	-1,151.65	1,219.74	0.00	0.00	0.00
10,600.00	1.00	240.02	10,513.69	-402.75	-1,153.16	1,221.45	0.00	0.00	0.00
10,700.00	1.00	240.02	10,613.67	-403.62	-1,154.67	1,223.17	0.00	0.00	0.00
10,800.00	1.00	240.02	10,713.66	-404.49	-1,156.17	1,224.88	0.00	0.00	0.00
10,900.00	1.00	240.02	10,813.64	-405.36	-1,157.68	1,226.59	0.00	0.00	0.00
11,000.00	1.00	240.02	10,913.63	-406.23	-1,159.19	1,228.31	0.00	0.00	0.00
11,100.00	1.00	240.02	11,013.61	-407.10	-1,160.70	1,230.02	0.00	0.00	0.00
11,196.40	1.00	240.02	11,110.00	-407.94	-1,162.16	1,231.67	0.00	0.00	0.00
CAMEO.NPC									
11,200.00	1.00	240.02	11,113.60	-407.97	-1,162.21	1,231.73	0.00	0.00	0.00
11,300.00	1.00	240.02	11,213.58	-408.84	-1,163.72	1,233.44	0.00	0.00	0.00
11,400.00	1.00	240.02	11,313.57	-409.71	-1,165.23	1,235.16	0.00	0.00	0.00
11,500.00	1.00	240.02	11,413.55	-410.58	-1,166.74	1,236.87	0.00	0.00	0.00
11,600.00	1.00	240.02	11,513.54	-411.45	-1,168.25	1,238.58	0.00	0.00	0.00
11,700.00	1.00	240.02	11,613.52	-412.32	-1,169.75	1,240.29	0.00	0.00	0.00
11,800.00	1.00	240.02	11,713.51	-413.19	-1,171.26	1,242.01	0.00	0.00	0.00
11,900.00	1.00	240.02	11,813.49	-414.06	-1,172.77	1,243.72	0.00	0.00	0.00
11,947.52	1.00	240.02	11,861.00	-414.48	-1,173.49	1,244.53	0.00	0.00	0.00
ROLLINS.NPC									
12,000.00	1.00	240.02	11,913.48	-414.93	-1,174.28	1,245.43	0.00	0.00	0.00
12,100.00	1.00	240.02	12,013.46	-415.80	-1,175.79	1,247.15	0.00	0.00	0.00
12,147.55	1.00	240.02	12,061.00	-416.22	-1,176.51	1,247.96	0.00	0.00	0.00
TD at 12147.55									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL - ELU J14 14C-1	0.00	0.00	12,061.00	-416.22	-1,176.51	14,429,506.40	2,444,916.80	39.699638	-108.140096
- plan hits target center									
- Ellipse (radii L75.00 W50.00 on 240.00 azi)									



Planning Report

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

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,300.08	3,269.00	WASATCH.NPC				
5,725.96	5,669.00	WASATCH_G.NPC				
6,463.83	6,399.00	FORT_UNION.NPC				
8,391.35	8,306.00	OHIO_CREEK.NPC				
8,754.03	8,668.00	WILLIAMS_FORK.NPC				
8,804.04	8,718.00	TOP_GAS.NPC				
11,196.40	11,110.00	CAMEO.NPC				
11,947.52	11,861.00	ROLLINS.NPC		0.00		
12,147.55	12,061.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Begin 3.00° Build
479.21	478.22	-6.62	-19.27	Hold 8.38 Inc at 251.05 Azm
8,356.81	8,271.79	-379.25	-1,104.63	Begin 3.00° Drop
8,636.02	8,550.00	-385.87	-1,123.90	Hold Vertical, Begin 2.00° Turn
8,685.92	8,599.90	-386.09	-1,124.28	Hold 1.00 Inc at 240.00 Azm
12,147.55	12,061.00	-416.22	-1,176.51	TD at 12147.55