



Caerus Oil & Gas

**Rio Blanco County, CO (UTM 12N)
SEC 14-T4S-R96W ELU FED J14 496
ELU J14 FED 15A-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	V Sect	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	523.61	10.46	231.90	521.68	-19.58	-24.97	3.00	231.90	31.73	
4	8326.89	10.46	231.90	8195.32	-893.59	-1139.60	0.00	0.00	1448.15	
5	8675.50	0.00	0.00	8542.00	-913.17	-1164.57	3.00	180.00	1479.88	
6	8724.23	0.97	240.02	8590.73	-913.38	-1164.93	2.00	240.02	1480.29	
7	12166.00	0.97	240.02	12032.00	-942.63	-1215.64	0.00	0.00	1538.29	BHL - ELU J14 15A-14 496

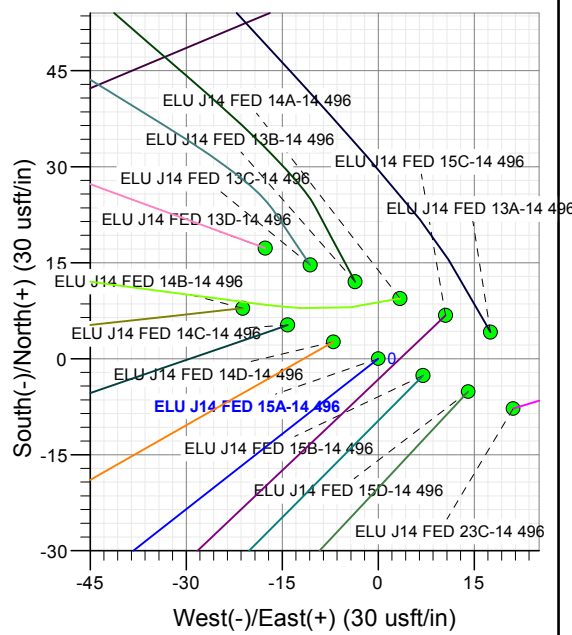
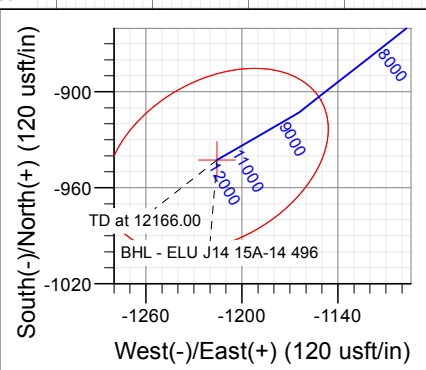
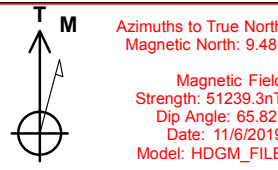
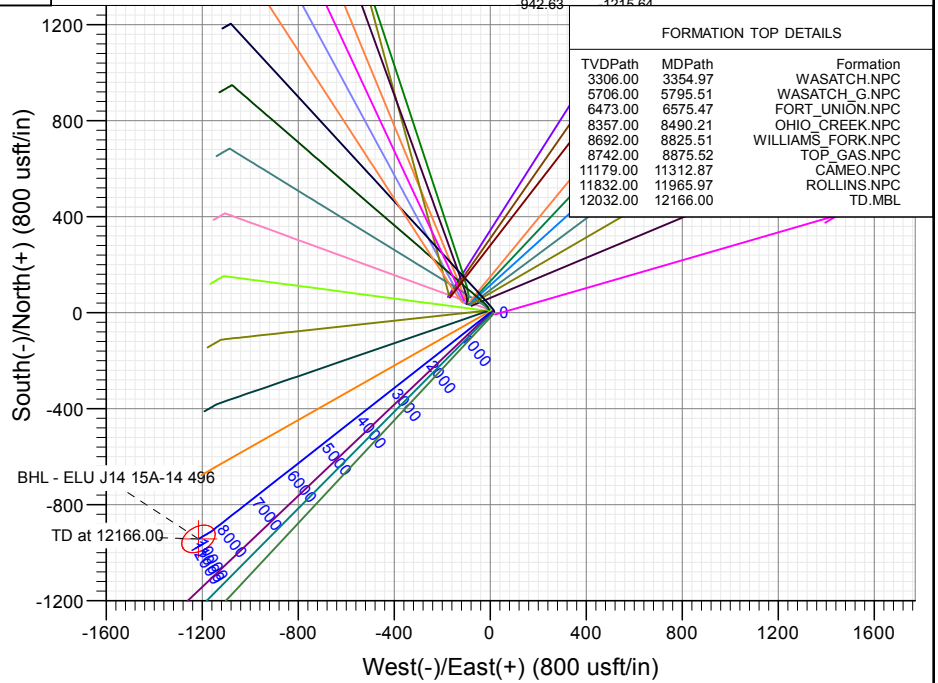
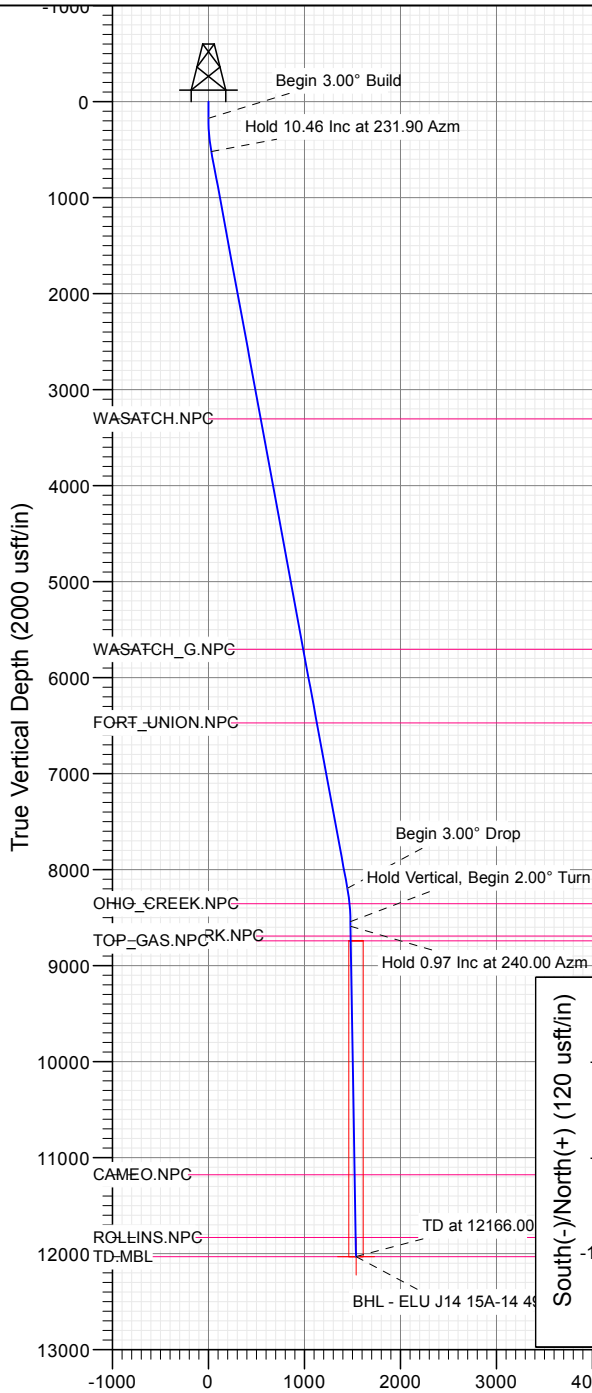
Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU FED J14 496
Well: ELU J14 FED 15A-14 496
Wellbore: OH
Design: Plan 1

Plan 1
ELU J14 FED 15A-14 496
RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 15A-14 496, True North

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 15A-14 496	TD			232.21	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12032.00			942.63	1215.64	39.698179	-108.140185

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3306.00	3354.97	WASATCH.NPC
5706.00	5795.51	WASATCH_G.NPC
6473.00	6575.47	FORT_UNION.NPC
8357.00	8490.21	OHIO_CREEK.NPC
8692.00	8825.51	WILLIAMS_FORK.NPC
8742.00	8875.52	TOP_GAS.NPC
11179.00	11312.87	CAMEO.NPC
11832.00	11965.97	ROLLINS.NPC
12032.00	12166.00	TD.MBL



Vertical Section at 232.21° (2000 usft/in)

WELL DETAILS: ELU J14 FED 15A-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14429955.19	2446093.71	39.700766	-108.135866



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15A-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 15A-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 15A-14 496					
Well Position	+N/-S	-74.66 usft	Northing:	14,429,955.19 usft	Latitude:	39.700766
	+E/-W	172.31 usft	Easting:	2,446,093.72 usft	Longitude:	-108.135866
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	232.21	

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	
523.61	10.46	231.90	521.68	-19.58	-24.97	3.00	3.00	0.00	231.90	
8,326.89	10.46	231.90	8,195.32	-893.59	-1,139.60	0.00	0.00	0.00	0.00	
8,675.50	0.00	0.00	8,542.00	-913.17	-1,164.57	3.00	-3.00	0.00	180.00	
8,724.23	0.97	240.02	8,590.73	-913.38	-1,164.93	2.00	2.00	-246.19	240.02	
12,166.00	0.97	240.02	12,032.00	-942.63	-1,215.64	0.00	0.00	0.00	0.00	BHL - ELU J14 15A

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15A-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 15A-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	231.90	200.00	-0.10	-0.13	0.16	3.00	3.00	0.00
300.00	3.75	231.90	299.91	-2.52	-3.22	4.09	3.00	3.00	0.00
400.00	6.75	231.90	399.48	-8.17	-10.42	13.24	3.00	3.00	0.00
500.00	9.75	231.90	498.43	-17.02	-21.71	27.59	3.00	3.00	0.00
523.61	10.46	231.90	521.68	-19.58	-24.97	31.73	3.00	3.00	0.00
Hold 10.46 Inc at 231.90 Azm									
600.00	10.46	231.90	596.80	-28.13	-35.88	45.59	0.00	0.00	0.00
700.00	10.46	231.90	695.14	-39.33	-50.16	63.75	0.00	0.00	0.00
800.00	10.46	231.90	793.48	-50.54	-64.45	81.90	0.00	0.00	0.00
900.00	10.46	231.90	891.81	-61.74	-78.73	100.05	0.00	0.00	0.00
1,000.00	10.46	231.90	990.15	-72.94	-93.02	118.20	0.00	0.00	0.00
1,100.00	10.46	231.90	1,088.49	-84.14	-107.30	136.35	0.00	0.00	0.00
1,200.00	10.46	231.90	1,186.83	-95.34	-121.58	154.50	0.00	0.00	0.00
1,300.00	10.46	231.90	1,285.17	-106.54	-135.87	172.66	0.00	0.00	0.00
1,400.00	10.46	231.90	1,383.51	-117.74	-150.15	190.81	0.00	0.00	0.00
1,500.00	10.46	231.90	1,481.85	-128.94	-164.44	208.96	0.00	0.00	0.00
1,600.00	10.46	231.90	1,580.19	-140.14	-178.72	227.11	0.00	0.00	0.00
1,700.00	10.46	231.90	1,678.52	-151.34	-193.01	245.26	0.00	0.00	0.00
1,800.00	10.46	231.90	1,776.86	-162.54	-207.29	263.41	0.00	0.00	0.00
1,900.00	10.46	231.90	1,875.20	-173.74	-221.57	281.56	0.00	0.00	0.00
2,000.00	10.46	231.90	1,973.54	-184.94	-235.86	299.72	0.00	0.00	0.00
2,100.00	10.46	231.90	2,071.88	-196.14	-250.14	317.87	0.00	0.00	0.00
2,200.00	10.46	231.90	2,170.22	-207.34	-264.43	336.02	0.00	0.00	0.00
2,300.00	10.46	231.90	2,268.56	-218.54	-278.71	354.17	0.00	0.00	0.00
2,400.00	10.46	231.90	2,366.90	-229.74	-292.99	372.32	0.00	0.00	0.00
2,500.00	10.46	231.90	2,465.23	-240.95	-307.28	390.47	0.00	0.00	0.00
2,600.00	10.46	231.90	2,563.57	-252.15	-321.56	408.63	0.00	0.00	0.00
2,700.00	10.46	231.90	2,661.91	-263.35	-335.85	426.78	0.00	0.00	0.00
2,800.00	10.46	231.90	2,760.25	-274.55	-350.13	444.93	0.00	0.00	0.00
2,900.00	10.46	231.90	2,858.59	-285.75	-364.42	463.08	0.00	0.00	0.00
3,000.00	10.46	231.90	2,956.93	-296.95	-378.70	481.23	0.00	0.00	0.00
3,100.00	10.46	231.90	3,055.27	-308.15	-392.98	499.38	0.00	0.00	0.00
3,200.00	10.46	231.90	3,153.61	-319.35	-407.27	517.54	0.00	0.00	0.00
3,300.00	10.46	231.90	3,251.94	-330.55	-421.55	535.69	0.00	0.00	0.00
3,354.97	10.46	231.90	3,306.00	-336.71	-429.40	545.67	0.00	0.00	0.00
WASATCH.NPC									
3,400.00	10.46	231.90	3,350.28	-341.75	-435.84	553.84	0.00	0.00	0.00
3,500.00	10.46	231.90	3,448.62	-352.95	-450.12	571.99	0.00	0.00	0.00
3,600.00	10.46	231.90	3,546.96	-364.15	-464.40	590.14	0.00	0.00	0.00
3,700.00	10.46	231.90	3,645.30	-375.35	-478.69	608.29	0.00	0.00	0.00
3,800.00	10.46	231.90	3,743.64	-386.55	-492.97	626.45	0.00	0.00	0.00
3,900.00	10.46	231.90	3,841.98	-397.75	-507.26	644.60	0.00	0.00	0.00
4,000.00	10.46	231.90	3,940.32	-408.95	-521.54	662.75	0.00	0.00	0.00
4,100.00	10.46	231.90	4,038.65	-420.16	-535.83	680.90	0.00	0.00	0.00
4,200.00	10.46	231.90	4,136.99	-431.36	-550.11	699.05	0.00	0.00	0.00
4,300.00	10.46	231.90	4,235.33	-442.56	-564.39	717.20	0.00	0.00	0.00
4,400.00	10.46	231.90	4,333.67	-453.76	-578.68	735.36	0.00	0.00	0.00
4,500.00	10.46	231.90	4,432.01	-464.96	-592.96	753.51	0.00	0.00	0.00
4,600.00	10.46	231.90	4,530.35	-476.16	-607.25	771.66	0.00	0.00	0.00
4,700.00	10.46	231.90	4,628.69	-487.36	-621.53	789.81	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15A-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 15A-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	10.46	231.90	4,727.03	-498.56	-635.82	807.96	0.00	0.00	0.00
4,900.00	10.46	231.90	4,825.36	-509.76	-650.10	826.11	0.00	0.00	0.00
5,000.00	10.46	231.90	4,923.70	-520.96	-664.38	844.27	0.00	0.00	0.00
5,100.00	10.46	231.90	5,022.04	-532.16	-678.67	862.42	0.00	0.00	0.00
5,200.00	10.46	231.90	5,120.38	-543.36	-692.95	880.57	0.00	0.00	0.00
5,300.00	10.46	231.90	5,218.72	-554.56	-707.24	898.72	0.00	0.00	0.00
5,400.00	10.46	231.90	5,317.06	-565.76	-721.52	916.87	0.00	0.00	0.00
5,500.00	10.46	231.90	5,415.40	-576.96	-735.80	935.02	0.00	0.00	0.00
5,600.00	10.46	231.90	5,513.74	-588.16	-750.09	953.18	0.00	0.00	0.00
5,700.00	10.46	231.90	5,612.07	-599.36	-764.37	971.33	0.00	0.00	0.00
5,795.51	10.46	231.90	5,706.00	-610.06	-778.02	988.66	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	10.46	231.90	5,710.41	-610.57	-778.66	989.48	0.00	0.00	0.00
5,900.00	10.46	231.90	5,808.75	-621.77	-792.94	1,007.63	0.00	0.00	0.00
6,000.00	10.46	231.90	5,907.09	-632.97	-807.23	1,025.78	0.00	0.00	0.00
6,100.00	10.46	231.90	6,005.43	-644.17	-821.51	1,043.93	0.00	0.00	0.00
6,200.00	10.46	231.90	6,103.77	-655.37	-835.79	1,062.09	0.00	0.00	0.00
6,300.00	10.46	231.90	6,202.11	-666.57	-850.08	1,080.24	0.00	0.00	0.00
6,400.00	10.46	231.90	6,300.45	-677.77	-864.36	1,098.39	0.00	0.00	0.00
6,500.00	10.46	231.90	6,398.78	-688.97	-878.65	1,116.54	0.00	0.00	0.00
6,575.47	10.46	231.90	6,473.00	-697.42	-889.43	1,130.24	0.00	0.00	0.00
FORT_UNION.NPC									
6,600.00	10.46	231.90	6,497.12	-700.17	-892.93	1,134.69	0.00	0.00	0.00
6,700.00	10.46	231.90	6,595.46	-711.37	-907.21	1,152.84	0.00	0.00	0.00
6,800.00	10.46	231.90	6,693.80	-722.57	-921.50	1,171.00	0.00	0.00	0.00
6,900.00	10.46	231.90	6,792.14	-733.77	-935.78	1,189.15	0.00	0.00	0.00
7,000.00	10.46	231.90	6,890.48	-744.97	-950.07	1,207.30	0.00	0.00	0.00
7,100.00	10.46	231.90	6,988.82	-756.17	-964.35	1,225.45	0.00	0.00	0.00
7,200.00	10.46	231.90	7,087.16	-767.37	-978.64	1,243.60	0.00	0.00	0.00
7,300.00	10.46	231.90	7,185.49	-778.57	-992.92	1,261.75	0.00	0.00	0.00
7,400.00	10.46	231.90	7,283.83	-789.78	-1,007.20	1,279.91	0.00	0.00	0.00
7,500.00	10.46	231.90	7,382.17	-800.98	-1,021.49	1,298.06	0.00	0.00	0.00
7,600.00	10.46	231.90	7,480.51	-812.18	-1,035.77	1,316.21	0.00	0.00	0.00
7,700.00	10.46	231.90	7,578.85	-823.38	-1,050.06	1,334.36	0.00	0.00	0.00
7,800.00	10.46	231.90	7,677.19	-834.58	-1,064.34	1,352.51	0.00	0.00	0.00
7,900.00	10.46	231.90	7,775.53	-845.78	-1,078.63	1,370.66	0.00	0.00	0.00
8,000.00	10.46	231.90	7,873.87	-856.98	-1,092.91	1,388.81	0.00	0.00	0.00
8,100.00	10.46	231.90	7,972.20	-868.18	-1,107.19	1,406.97	0.00	0.00	0.00
8,200.00	10.46	231.90	8,070.54	-879.38	-1,121.48	1,425.12	0.00	0.00	0.00
8,300.00	10.46	231.90	8,168.88	-890.58	-1,135.76	1,443.27	0.00	0.00	0.00
8,326.89	10.46	231.90	8,195.32	-893.59	-1,139.60	1,448.15	0.00	0.00	0.00
Begin 3.00° Drop									
8,400.00	8.26	231.90	8,267.46	-900.93	-1,148.96	1,460.04	3.00	-3.00	0.00
8,490.21	5.56	231.90	8,357.00	-907.63	-1,157.50	1,470.90	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,500.00	5.26	231.90	8,366.75	-908.20	-1,158.23	1,471.82	3.00	-3.00	0.00
8,600.00	2.26	231.90	8,466.52	-912.25	-1,163.40	1,478.39	3.00	-3.00	0.00
8,675.50	0.00	0.00	8,542.00	-913.17	-1,164.57	1,479.88	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,700.00	0.49	240.02	8,566.50	-913.22	-1,164.66	1,479.98	2.00	2.00	0.00
8,724.23	0.97	240.02	8,590.73	-913.38	-1,164.93	1,480.29	2.00	2.00	0.00
Hold 0.97 Inc at 240.00 Azm									
8,800.00	0.97	240.02	8,666.49	-914.02	-1,166.05	1,481.57	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 15A-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 15A-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)
8,825.51	0.97	240.02	8,692.00	-914.24	-1,166.42	1,482.00	0.00	0.00	0.00
WILLIAMS_FORK.NPC									
8,875.52	0.97	240.02	8,742.00	-914.66	-1,167.16	1,482.84	0.00	0.00	0.00
TOP_GAS.NPC									
8,900.00	0.97	240.02	8,766.47	-914.87	-1,167.52	1,483.25	0.00	0.00	0.00
9,000.00	0.97	240.02	8,866.46	-915.72	-1,168.99	1,484.94	0.00	0.00	0.00
9,100.00	0.97	240.02	8,966.45	-916.57	-1,170.47	1,486.62	0.00	0.00	0.00
9,200.00	0.97	240.02	9,066.43	-917.42	-1,171.94	1,488.31	0.00	0.00	0.00
9,300.00	0.97	240.02	9,166.42	-918.27	-1,173.41	1,489.99	0.00	0.00	0.00
9,400.00	0.97	240.02	9,266.40	-919.12	-1,174.89	1,491.68	0.00	0.00	0.00
9,500.00	0.97	240.02	9,366.39	-919.97	-1,176.36	1,493.36	0.00	0.00	0.00
9,600.00	0.97	240.02	9,466.37	-920.82	-1,177.83	1,495.05	0.00	0.00	0.00
9,700.00	0.97	240.02	9,566.36	-921.67	-1,179.31	1,496.73	0.00	0.00	0.00
9,800.00	0.97	240.02	9,666.34	-922.52	-1,180.78	1,498.42	0.00	0.00	0.00
9,900.00	0.97	240.02	9,766.33	-923.37	-1,182.25	1,500.10	0.00	0.00	0.00
10,000.00	0.97	240.02	9,866.32	-924.22	-1,183.73	1,501.79	0.00	0.00	0.00
10,100.00	0.97	240.02	9,966.30	-925.07	-1,185.20	1,503.47	0.00	0.00	0.00
10,200.00	0.97	240.02	10,066.29	-925.92	-1,186.67	1,505.16	0.00	0.00	0.00
10,300.00	0.97	240.02	10,166.27	-926.77	-1,188.15	1,506.85	0.00	0.00	0.00
10,400.00	0.97	240.02	10,266.26	-927.62	-1,189.62	1,508.53	0.00	0.00	0.00
10,500.00	0.97	240.02	10,366.24	-928.47	-1,191.09	1,510.22	0.00	0.00	0.00
10,600.00	0.97	240.02	10,466.23	-929.32	-1,192.57	1,511.90	0.00	0.00	0.00
10,700.00	0.97	240.02	10,566.21	-930.17	-1,194.04	1,513.59	0.00	0.00	0.00
10,800.00	0.97	240.02	10,666.20	-931.02	-1,195.52	1,515.27	0.00	0.00	0.00
10,900.00	0.97	240.02	10,766.19	-931.87	-1,196.99	1,516.96	0.00	0.00	0.00
11,000.00	0.97	240.02	10,866.17	-932.72	-1,198.46	1,518.64	0.00	0.00	0.00
11,100.00	0.97	240.02	10,966.16	-933.57	-1,199.94	1,520.33	0.00	0.00	0.00
11,200.00	0.97	240.02	11,066.14	-934.42	-1,201.41	1,522.01	0.00	0.00	0.00
11,300.00	0.97	240.02	11,166.13	-935.27	-1,202.88	1,523.70	0.00	0.00	0.00
11,312.87	0.97	240.02	11,179.00	-935.38	-1,203.07	1,523.92	0.00	0.00	0.00
CAMEO.NPC									
11,400.00	0.97	240.02	11,266.11	-936.12	-1,204.36	1,525.38	0.00	0.00	0.00
11,500.00	0.97	240.02	11,366.10	-936.97	-1,205.83	1,527.07	0.00	0.00	0.00
11,600.00	0.97	240.02	11,466.08	-937.82	-1,207.30	1,528.75	0.00	0.00	0.00
11,700.00	0.97	240.02	11,566.07	-938.67	-1,208.78	1,530.44	0.00	0.00	0.00
11,800.00	0.97	240.02	11,666.06	-939.52	-1,210.25	1,532.13	0.00	0.00	0.00
11,900.00	0.97	240.02	11,766.04	-940.37	-1,211.72	1,533.81	0.00	0.00	0.00
11,965.97	0.97	240.02	11,832.00	-940.93	-1,212.70	1,534.92	0.00	0.00	0.00
ROLLINS.NPC									
12,000.00	0.97	240.02	11,866.03	-941.22	-1,213.20	1,535.50	0.00	0.00	0.00
12,100.00	0.97	240.02	11,966.01	-942.07	-1,214.67	1,537.18	0.00	0.00	0.00
12,166.00	0.97	240.02	12,032.00	-942.63	-1,215.64	1,538.29	0.00	0.00	0.00
TD at 12166.00									

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 15A-1	0.00	0.00	12,032.00	-942.63	-1,215.64	14,428,974.20	2,444,908.80	39.698179	-108.140185
- 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 15A-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 15A-14 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,354.97	3,306.00	WASATCH.NPC				
5,795.51	5,706.00	WASATCH_G.NPC				
6,575.47	6,473.00	FORT_UNION.NPC				
8,490.21	8,357.00	OHIO_CREEK.NPC				
8,825.51	8,692.00	WILLIAMS_FORK.NPC				
8,875.52	8,742.00	TOP_GAS.NPC				
11,312.87	11,179.00	CAMEO.NPC				
11,965.97	11,832.00	ROLLINS.NPC		0.00		
12,166.00	12,032.00	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
523.61	521.68	-19.58	-24.97	Hold 10.46 Inc at 231.90 Azm
8,326.89	8,195.32	-893.59	-1,139.60	Begin 3.00° Drop
8,675.50	8,542.00	-913.17	-1,164.57	Hold Vertical, Begin 2.00° Turn
8,724.23	8,590.73	-913.38	-1,164.93	Hold 0.97 Inc at 240.00 Azm
12,166.00	12,032.00	-942.63	-1,215.64	TD at 12166.00