



Caerus Oil & Gas

Rio Blanco County, CO (UTM 12N)

SEC 14-T4S-R96W ELU J14 496

ELU J14 FED 13A-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	330.00	399.95	2.27	-1.31	3.00	330.00	2.54	
4	600.00	3.00	330.00	599.68	11.33	-6.54	0.00	0.00	12.70	
5	903.69	12.01	317.38	900.47	41.54	-31.97	3.00	-16.69	52.11	
6	8266.96	12.01	317.38	8102.43	1169.50	-1069.82	0.00	0.00	1584.54	
7	8667.45	0.00	0.00	8500.00	1200.29	-1098.15	3.00	180.00	1626.37	
8	8699.36	0.64	240.02	8531.91	1200.20	-1098.30	2.00	240.02	1626.41	
9	12325.68	0.64	240.02	12158.00	1180.02	-1133.29	0.00	0.00	1636.09	BHL - ELU J14 13A-14 496

Project: Rio Blanco County, CO (UTM 12N)
Site: SEC 14-T4S-R96W ELU J14 496
Well: ELU J14 FED 13A-14 496
Wellbore: OH
Design: Plan 1

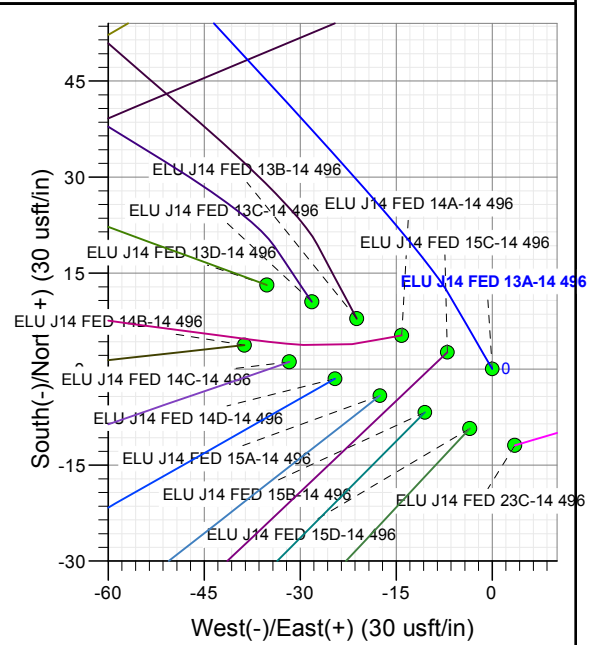
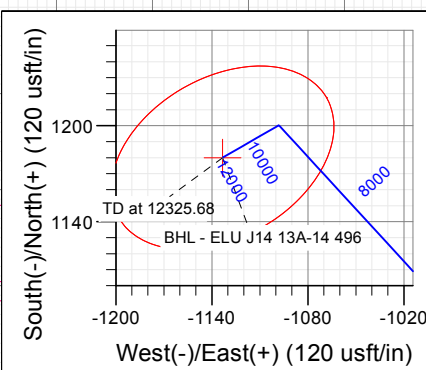
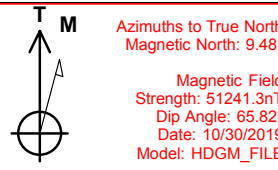
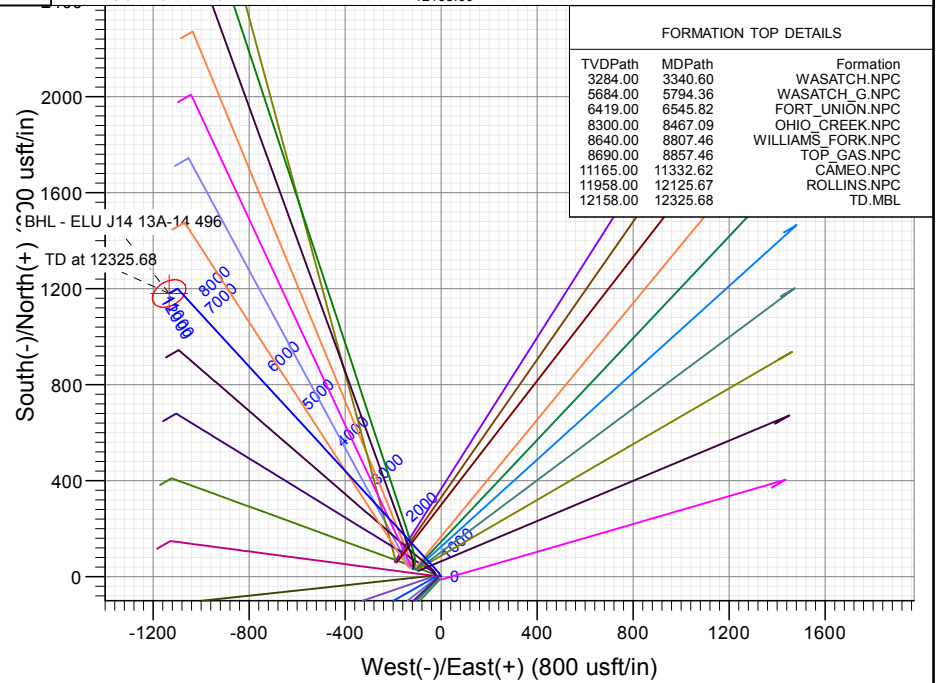
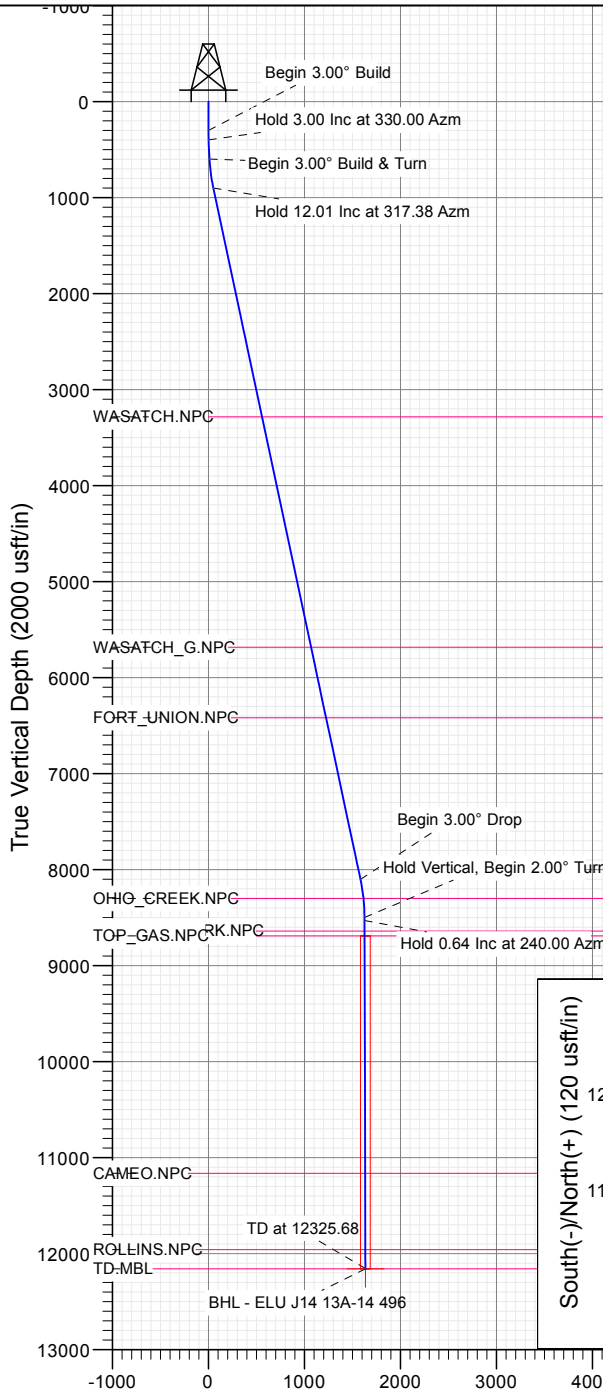
Plan 1
ELU J14 FED 13A-14 496

RKB @ 7932.00usft
Ground Level @ 7902.00
NAD 1927 - Western US
Well ELU J14 FED 13A-14 496, True North

Name	Type	Target	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
BHL - ELU J14 13A-14 496	TD			316.16	Slot		0.00	0.00	0.00	
				TVD			+N/-S	+E/-W	Latitude	Longitude
				12158.00			1180.02	-1133.29	39.704016	-108.139830

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3284.00	3340.60	WASATCH.NPC
5684.00	5794.36	WASATCH_G.NPC
6419.00	6545.82	FORT_UNION.NPC
8300.00	8467.09	OHIO_CREEK.NPC
8640.00	8807.46	WILLIAMS_FORK.NPC
8690.00	8857.46	TOP_GAS.NPC
11165.00	11332.62	CAMEO.NPC
11958.00	12125.67	ROLLINS.NPC
12158.00	12325.68	TD.MBL



Vertical Section at 316.16° (2000 usft/in)

WELL DETAILS: ELU J14 FED 13A-14 496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14429959.89	2446111.11	39.700777	-108.135804



Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13A-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 13A-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 13A-14 496					
Well Position	+N/-S	-70.51 usft	Northing:	14,429,959.89 usft	Latitude:	39.700778
	+E/-W	189.86 usft	Easting:	2,446,111.12 usft	Longitude:	-108.135804
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	7,902.00 usft

Wellbore	OH				
-----------------	----	--	--	--	--

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				
---------------	--------	--	--	--	--

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	316.16	

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	330.00	399.95	2.27	-1.31	3.00	3.00	0.00	330.00	
600.00	3.00	330.00	599.68	11.33	-6.54	0.00	0.00	0.00	0.00	
903.69	12.01	317.38	900.47	41.54	-31.97	3.00	2.97	-4.15	-16.69	
8,266.96	12.01	317.38	8,102.43	1,169.50	-1,069.82	0.00	0.00	0.00	0.00	
8,667.45	0.00	0.00	8,500.00	1,200.29	-1,098.15	3.00	-3.00	0.00	180.00	
8,699.36	0.64	240.02	8,531.91	1,200.20	-1,098.30	2.00	2.00	-375.97	240.02	
12,325.68	0.64	240.02	12,158.00	1,180.02	-1,133.29	0.00	0.00	0.00	0.00	BHL - ELU J14 13A

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13A-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 13A-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	330.00	399.95	2.27	-1.31	2.54	3.00	3.00	0.00
Hold 3.00 Inc at 330.00 Azm									
500.00	3.00	330.00	499.82	6.80	-3.93	7.62	0.00	0.00	0.00
600.00	3.00	330.00	599.68	11.33	-6.54	12.70	0.00	0.00	0.00
Begin 3.00° Build & Turn									
700.00	5.94	321.64	699.37	17.65	-11.06	20.39	3.00	2.94	-8.36
800.00	8.92	318.83	798.52	27.54	-19.37	33.29	3.00	2.98	-2.81
900.00	11.90	317.42	896.86	40.98	-31.45	51.34	3.00	2.99	-1.41
903.69	12.01	317.38	900.47	41.54	-31.97	52.11	3.00	2.99	-1.05
Hold 12.01 Inc at 317.38 Azm									
1,000.00	12.01	317.38	994.67	56.29	-45.55	72.15	0.00	0.00	0.00
1,100.00	12.01	317.38	1,092.48	71.61	-59.64	92.96	0.00	0.00	0.00
1,200.00	12.01	317.38	1,190.29	86.93	-73.74	113.77	0.00	0.00	0.00
1,300.00	12.01	317.38	1,288.10	102.25	-87.83	134.59	0.00	0.00	0.00
1,400.00	12.01	317.38	1,385.91	117.57	-101.93	155.40	0.00	0.00	0.00
1,500.00	12.01	317.38	1,483.72	132.89	-116.02	176.21	0.00	0.00	0.00
1,600.00	12.01	317.38	1,581.53	148.20	-130.12	197.02	0.00	0.00	0.00
1,700.00	12.01	317.38	1,679.34	163.52	-144.21	217.83	0.00	0.00	0.00
1,800.00	12.01	317.38	1,777.14	178.84	-158.31	238.64	0.00	0.00	0.00
1,900.00	12.01	317.38	1,874.95	194.16	-172.40	259.46	0.00	0.00	0.00
2,000.00	12.01	317.38	1,972.76	209.48	-186.50	280.27	0.00	0.00	0.00
2,100.00	12.01	317.38	2,070.57	224.80	-200.59	301.08	0.00	0.00	0.00
2,200.00	12.01	317.38	2,168.38	240.12	-214.69	321.89	0.00	0.00	0.00
2,300.00	12.01	317.38	2,266.19	255.44	-228.78	342.70	0.00	0.00	0.00
2,400.00	12.01	317.38	2,364.00	270.76	-242.88	363.52	0.00	0.00	0.00
2,500.00	12.01	317.38	2,461.81	286.07	-256.97	384.33	0.00	0.00	0.00
2,600.00	12.01	317.38	2,559.62	301.39	-271.07	405.14	0.00	0.00	0.00
2,700.00	12.01	317.38	2,657.43	316.71	-285.16	425.95	0.00	0.00	0.00
2,800.00	12.01	317.38	2,755.24	332.03	-299.26	446.76	0.00	0.00	0.00
2,900.00	12.01	317.38	2,853.05	347.35	-313.35	467.58	0.00	0.00	0.00
3,000.00	12.01	317.38	2,950.86	362.67	-327.45	488.39	0.00	0.00	0.00
3,100.00	12.01	317.38	3,048.67	377.99	-341.54	509.20	0.00	0.00	0.00
3,200.00	12.01	317.38	3,146.48	393.31	-355.64	530.01	0.00	0.00	0.00
3,300.00	12.01	317.38	3,244.28	408.62	-369.73	550.82	0.00	0.00	0.00
3,340.60	12.01	317.38	3,284.00	414.84	-375.45	559.27	0.00	0.00	0.00
WASATCH.NPC									
3,400.00	12.01	317.38	3,342.09	423.94	-383.83	571.64	0.00	0.00	0.00
3,500.00	12.01	317.38	3,439.90	439.26	-397.92	592.45	0.00	0.00	0.00
3,600.00	12.01	317.38	3,537.71	454.58	-412.02	613.26	0.00	0.00	0.00
3,700.00	12.01	317.38	3,635.52	469.90	-426.11	634.07	0.00	0.00	0.00
3,800.00	12.01	317.38	3,733.33	485.22	-440.21	654.88	0.00	0.00	0.00
3,900.00	12.01	317.38	3,831.14	500.54	-454.30	675.69	0.00	0.00	0.00
4,000.00	12.01	317.38	3,928.95	515.86	-468.40	696.51	0.00	0.00	0.00
4,100.00	12.01	317.38	4,026.76	531.17	-482.49	717.32	0.00	0.00	0.00
4,200.00	12.01	317.38	4,124.57	546.49	-496.59	738.13	0.00	0.00	0.00
4,300.00	12.01	317.38	4,222.38	561.81	-510.68	758.94	0.00	0.00	0.00
4,400.00	12.01	317.38	4,320.19	577.13	-524.78	779.75	0.00	0.00	0.00
4,500.00	12.01	317.38	4,418.00	592.45	-538.87	800.57	0.00	0.00	0.00
4,600.00	12.01	317.38	4,515.81	607.77	-552.97	821.38	0.00	0.00	0.00
4,700.00	12.01	317.38	4,613.62	623.09	-567.06	842.19	0.00	0.00	0.00
4,800.00	12.01	317.38	4,711.42	638.41	-581.16	863.00	0.00	0.00	0.00

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13A-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 13A-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	12.01	317.38	4,809.23	653.72	-595.25	883.81	0.00	0.00	0.00
5,000.00	12.01	317.38	4,907.04	669.04	-609.35	904.63	0.00	0.00	0.00
5,100.00	12.01	317.38	5,004.85	684.36	-623.44	925.44	0.00	0.00	0.00
5,200.00	12.01	317.38	5,102.66	699.68	-637.54	946.25	0.00	0.00	0.00
5,300.00	12.01	317.38	5,200.47	715.00	-651.63	967.06	0.00	0.00	0.00
5,400.00	12.01	317.38	5,298.28	730.32	-665.72	987.87	0.00	0.00	0.00
5,500.00	12.01	317.38	5,396.09	745.64	-679.82	1,008.68	0.00	0.00	0.00
5,600.00	12.01	317.38	5,493.90	760.96	-693.91	1,029.50	0.00	0.00	0.00
5,700.00	12.01	317.38	5,591.71	776.27	-708.01	1,050.31	0.00	0.00	0.00
5,794.36	12.01	317.38	5,684.00	790.73	-721.31	1,069.95	0.00	0.00	0.00
WASATCH_G.NPC									
5,800.00	12.01	317.38	5,689.52	791.59	-722.10	1,071.12	0.00	0.00	0.00
5,900.00	12.01	317.38	5,787.33	806.91	-736.20	1,091.93	0.00	0.00	0.00
6,000.00	12.01	317.38	5,885.14	822.23	-750.29	1,112.74	0.00	0.00	0.00
6,100.00	12.01	317.38	5,982.95	837.55	-764.39	1,133.56	0.00	0.00	0.00
6,200.00	12.01	317.38	6,080.76	852.87	-778.48	1,154.37	0.00	0.00	0.00
6,300.00	12.01	317.38	6,178.57	868.19	-792.58	1,175.18	0.00	0.00	0.00
6,400.00	12.01	317.38	6,276.37	883.51	-806.67	1,195.99	0.00	0.00	0.00
6,500.00	12.01	317.38	6,374.18	898.83	-820.77	1,216.80	0.00	0.00	0.00
6,545.82	12.01	317.38	6,419.00	905.84	-827.23	1,226.34	0.00	0.00	0.00
FORT_UNION.NPC									
6,600.00	12.01	317.38	6,471.99	914.14	-834.86	1,237.62	0.00	0.00	0.00
6,700.00	12.01	317.38	6,569.80	929.46	-848.96	1,258.43	0.00	0.00	0.00
6,800.00	12.01	317.38	6,667.61	944.78	-863.05	1,279.24	0.00	0.00	0.00
6,900.00	12.01	317.38	6,765.42	960.10	-877.15	1,300.05	0.00	0.00	0.00
7,000.00	12.01	317.38	6,863.23	975.42	-891.24	1,320.86	0.00	0.00	0.00
7,100.00	12.01	317.38	6,961.04	990.74	-905.34	1,341.68	0.00	0.00	0.00
7,200.00	12.01	317.38	7,058.85	1,006.06	-919.43	1,362.49	0.00	0.00	0.00
7,300.00	12.01	317.38	7,156.66	1,021.38	-933.53	1,383.30	0.00	0.00	0.00
7,400.00	12.01	317.38	7,254.47	1,036.69	-947.62	1,404.11	0.00	0.00	0.00
7,500.00	12.01	317.38	7,352.28	1,052.01	-961.72	1,424.92	0.00	0.00	0.00
7,600.00	12.01	317.38	7,450.09	1,067.33	-975.81	1,445.73	0.00	0.00	0.00
7,700.00	12.01	317.38	7,547.90	1,082.65	-989.91	1,466.55	0.00	0.00	0.00
7,800.00	12.01	317.38	7,645.71	1,097.97	-1,004.00	1,487.36	0.00	0.00	0.00
7,900.00	12.01	317.38	7,743.51	1,113.29	-1,018.10	1,508.17	0.00	0.00	0.00
8,000.00	12.01	317.38	7,841.32	1,128.61	-1,032.19	1,528.98	0.00	0.00	0.00
8,100.00	12.01	317.38	7,939.13	1,143.93	-1,046.29	1,549.79	0.00	0.00	0.00
8,200.00	12.01	317.38	8,036.94	1,159.24	-1,060.38	1,570.61	0.00	0.00	0.00
8,266.96	12.01	317.38	8,102.44	1,169.50	-1,069.82	1,584.54	0.00	0.00	0.00
Begin 3.00° Drop									
8,300.00	11.02	317.38	8,134.81	1,174.36	-1,074.29	1,591.14	3.00	-3.00	0.00
8,400.00	8.02	317.38	8,233.42	1,186.53	-1,085.49	1,607.68	3.00	-3.00	0.00
8,467.09	6.01	317.38	8,300.00	1,192.56	-1,091.04	1,615.87	3.00	-3.00	0.00
OHIO_CREEK.NPC									
8,500.00	5.02	317.38	8,332.76	1,194.89	-1,093.18	1,619.04	3.00	-3.00	0.00
8,600.00	2.02	317.38	8,432.56	1,199.41	-1,097.34	1,625.18	3.00	-3.00	0.00
8,667.45	0.00	317.38	8,500.00	1,200.29	-1,098.15	1,626.37	3.00	-3.00	0.00
Hold Vertical, Begin 2.00° Turn									
8,699.36	0.64	240.02	8,531.91	1,200.20	-1,098.30	1,626.41	2.00	2.00	-242.43
Hold 0.64 Inc at 240.00 Azm									
8,700.00	0.64	240.02	8,532.55	1,200.20	-1,098.31	1,626.41	0.01	0.01	0.00
8,800.00	0.64	240.02	8,632.54	1,199.64	-1,099.28	1,626.68	0.00	0.00	0.00
8,807.46	0.64	240.02	8,640.00	1,199.60	-1,099.35	1,626.70	0.00	0.00	0.00



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13A-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 13A-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									
8,857.46	0.64	240.02	8,690.00	1,199.32	-1,099.83	1,626.83	0.00	0.00	0.00
TOP_GAS.NPC									
8,900.00	0.64	240.02	8,732.53	1,199.08	-1,100.24	1,626.95	0.00	0.00	0.00
9,000.00	0.64	240.02	8,832.53	1,198.53	-1,101.20	1,627.21	0.00	0.00	0.00
9,100.00	0.64	240.02	8,932.52	1,197.97	-1,102.17	1,627.48	0.00	0.00	0.00
9,200.00	0.64	240.02	9,032.52	1,197.42	-1,103.13	1,627.75	0.00	0.00	0.00
9,300.00	0.64	240.02	9,132.51	1,196.86	-1,104.10	1,628.02	0.00	0.00	0.00
9,400.00	0.64	240.02	9,232.50	1,196.30	-1,105.06	1,628.28	0.00	0.00	0.00
9,500.00	0.64	240.02	9,332.50	1,195.75	-1,106.03	1,628.55	0.00	0.00	0.00
9,600.00	0.64	240.02	9,432.49	1,195.19	-1,106.99	1,628.82	0.00	0.00	0.00
9,700.00	0.64	240.02	9,532.48	1,194.63	-1,107.96	1,629.08	0.00	0.00	0.00
9,800.00	0.64	240.02	9,632.48	1,194.08	-1,108.92	1,629.35	0.00	0.00	0.00
9,900.00	0.64	240.02	9,732.47	1,193.52	-1,109.89	1,629.62	0.00	0.00	0.00
10,000.00	0.64	240.02	9,832.47	1,192.96	-1,110.85	1,629.88	0.00	0.00	0.00
10,100.00	0.64	240.02	9,932.46	1,192.41	-1,111.82	1,630.15	0.00	0.00	0.00
10,200.00	0.64	240.02	10,032.45	1,191.85	-1,112.78	1,630.42	0.00	0.00	0.00
10,300.00	0.64	240.02	10,132.45	1,191.29	-1,113.75	1,630.69	0.00	0.00	0.00
10,400.00	0.64	240.02	10,232.44	1,190.74	-1,114.71	1,630.95	0.00	0.00	0.00
10,500.00	0.64	240.02	10,332.43	1,190.18	-1,115.68	1,631.22	0.00	0.00	0.00
10,600.00	0.64	240.02	10,432.43	1,189.62	-1,116.64	1,631.49	0.00	0.00	0.00
10,700.00	0.64	240.02	10,532.42	1,189.07	-1,117.61	1,631.75	0.00	0.00	0.00
10,800.00	0.64	240.02	10,632.42	1,188.51	-1,118.57	1,632.02	0.00	0.00	0.00
10,900.00	0.64	240.02	10,732.41	1,187.95	-1,119.54	1,632.29	0.00	0.00	0.00
11,000.00	0.64	240.02	10,832.40	1,187.40	-1,120.50	1,632.55	0.00	0.00	0.00
11,100.00	0.64	240.02	10,932.40	1,186.84	-1,121.47	1,632.82	0.00	0.00	0.00
11,200.00	0.64	240.02	11,032.39	1,186.28	-1,122.43	1,633.09	0.00	0.00	0.00
11,300.00	0.64	240.02	11,132.38	1,185.73	-1,123.40	1,633.36	0.00	0.00	0.00
11,332.62	0.64	240.02	11,165.00	1,185.55	-1,123.71	1,633.44	0.00	0.00	0.00
CAMEO.NPC									
11,400.00	0.64	240.02	11,232.38	1,185.17	-1,124.36	1,633.62	0.00	0.00	0.00
11,500.00	0.64	240.02	11,332.37	1,184.61	-1,125.33	1,633.89	0.00	0.00	0.00
11,600.00	0.64	240.02	11,432.37	1,184.06	-1,126.29	1,634.16	0.00	0.00	0.00
11,700.00	0.64	240.02	11,532.36	1,183.50	-1,127.26	1,634.42	0.00	0.00	0.00
11,800.00	0.64	240.02	11,632.35	1,182.95	-1,128.22	1,634.69	0.00	0.00	0.00
11,900.00	0.64	240.02	11,732.35	1,182.39	-1,129.19	1,634.96	0.00	0.00	0.00
12,000.00	0.64	240.02	11,832.34	1,181.83	-1,130.15	1,635.22	0.00	0.00	0.00
12,100.00	0.64	240.02	11,932.34	1,181.28	-1,131.12	1,635.49	0.00	0.00	0.00
12,125.67	0.64	240.02	11,958.00	1,181.13	-1,131.36	1,635.56	0.00	0.00	0.00
ROLLINS.NPC									
12,200.00	0.64	240.02	12,032.33	1,180.72	-1,132.08	1,635.76	0.00	0.00	0.00
12,300.00	0.64	240.02	12,132.32	1,180.16	-1,133.05	1,636.02	0.00	0.00	0.00
12,325.68	0.64	240.02	12,158.00	1,180.02	-1,133.29	1,636.09	0.00	0.00	0.00
TD at 12325.68									

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well ELU J14 FED 13A-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 13A-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 13A-1-	0.00	0.00	12,158.00	1,180.02	-1,133.29	14,431,103.10	2,444,940.70	39.704016	-108.139830
- 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)			(°)	(°)	
3,340.60	3,284.00	WASATCH.NPC				
5,794.36	5,684.00	WASATCH_G.NPC				
6,545.82	6,419.00	FORT_UNION.NPC				
8,467.09	8,300.00	OHIO_CREEK.NPC				
8,807.46	8,640.00	WILLIAMS_FORK.NPC				
8,857.46	8,690.00	TOP_GAS.NPC				
11,332.62	11,165.00	CAMEO.NPC				
12,125.67	11,958.00	ROLLINS.NPC		0.00		
12,325.68	12,158.00	TD.MBL		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Begin 3.00° Build
400.00	399.95	2.27	-1.31	Hold 3.00 Inc at 330.00 Azm
600.00	599.68	11.33	-6.54	Begin 3.00° Build & Turn
903.69	900.47	41.54	-31.97	Hold 12.01 Inc at 317.38 Azm
8,266.96	8,102.44	1,169.50	-1,069.82	Begin 3.00° Drop
8,667.45	8,500.00	1,200.29	-1,098.15	Hold Vertical, Begin 2.00° Turn
8,699.36	8,531.91	1,200.20	-1,098.30	Hold 0.64 Inc at 240.00 Azm
12,325.68	12,158.00	1,180.02	-1,133.29	TD at 12325.68