

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well FED 24A-14 - Slot N_A2
Company:	Caerus Oil & Gas	TVD Reference:	GL+_KB
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL+_KB
Site:	S24-T4S-R96W ELU A24 496	North Reference:	True
Well:	FED 24A-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	S24-T4S-R96W ELU A24 496, Gravity = 0.997576		
Site Position:		Northing:	14,427,694.80 usft
From:	Map	Easting:	2,449,140.90 usft
Position Uncertainty:	3.28 usft	Slot Radius:	13-3/16"
		Latitude:	39.694298
		Longitude:	-108.125304
		Grid Convergence:	1.84 °

Well	FED 24A-14 - Slot N_A2					
Well Position	+N/-S	0.00 usft	Northing:	14,427,702.20 usft	Latitude:	39.694319
	+E/-W	0.00 usft	Easting:	2,449,141.60 usft	Longitude:	-108.125300
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	8,125.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	7/26/2018	9.62	65.88	51,373.80000000

Design	PLAN #2			
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	323.83

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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	3.00	280.00	349.95	0.45	-2.58	3.00	3.00	0.00	280.00	
530.00	3.00	280.00	529.71	2.09	-11.85	0.00	0.00	0.00	0.00	
1,105.12	19.20	326.10	1,092.70	83.83	-79.95	3.00	2.82	8.02	53.04	
8,621.46	19.20	326.10	8,190.81	2,135.76	-1,458.95	0.00	0.00	0.00	0.00	
9,261.56	0.00	0.00	8,819.00	2,223.97	-1,518.22	3.00	-3.00	0.00	180.00	
9,333.47	1.44	250.00	8,890.90	2,223.66	-1,519.07	2.00	2.00	-152.97	250.00	
12,901.70	1.44	250.00	12,458.00	2,193.02	-1,603.22	0.00	0.00	0.00	0.00	FED 24A-14_PBHL

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Site:	S24-T4S-R96W ELU A24 496	North Reference:	True
Well:	FED 24A-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
300.00	1.50	280.00	299.99	0.11	-0.64	0.47	3.00	3.00	
350.00	3.00	280.00	349.95	0.45	-2.58	1.89	3.00	3.00	Start 180.00 hold at 350.00 MD
400.00	3.00	280.00	399.89	0.91	-5.15	3.78	0.00	0.00	
500.00	3.00	280.00	499.75	1.82	-10.31	7.55	0.00	0.00	
530.00	3.00	280.00	529.71	2.09	-11.85	8.68	0.00	0.00	Start DLS 3.00 TFO 53.04
600.00	4.58	301.51	599.56	3.87	-16.04	12.59	3.00	2.26	
700.00	7.31	313.95	699.01	10.37	-24.03	22.55	3.00	2.73	
800.00	10.19	319.53	797.84	21.52	-34.35	37.64	3.00	2.88	
900.00	13.12	322.66	895.77	37.27	-46.98	57.81	3.00	2.93	
1,000.00	16.08	324.65	992.53	57.60	-61.88	83.01	3.00	2.96	
1,100.00	19.05	326.04	1,087.86	82.43	-79.01	113.18	3.00	2.97	
1,105.12	19.20	326.10	1,092.70	83.83	-79.95	114.85	3.00	2.98	Start 7516.34 hold at 1105.12 MD
1,200.00	19.20	326.10	1,182.29	109.73	-97.36	146.04	0.00	0.00	
1,300.00	19.20	326.10	1,276.73	137.03	-115.70	178.90	0.00	0.00	
1,400.00	19.20	326.10	1,371.17	164.33	-134.05	211.77	0.00	0.00	
1,500.00	19.20	326.10	1,465.60	191.63	-152.40	244.64	0.00	0.00	
1,600.00	19.20	326.10	1,560.04	218.93	-170.74	277.50	0.00	0.00	
1,700.00	19.20	326.10	1,654.47	246.23	-189.09	310.37	0.00	0.00	
1,800.00	19.20	326.10	1,748.91	273.53	-207.44	343.23	0.00	0.00	
1,900.00	19.20	326.10	1,843.35	300.83	-225.78	376.10	0.00	0.00	
2,000.00	19.20	326.10	1,937.78	328.12	-244.13	408.97	0.00	0.00	
2,100.00	19.20	326.10	2,032.22	355.42	-262.48	441.83	0.00	0.00	
2,200.00	19.20	326.10	2,126.65	382.72	-280.82	474.70	0.00	0.00	
2,300.00	19.20	326.10	2,221.09	410.02	-299.17	507.56	0.00	0.00	
2,400.00	19.20	326.10	2,315.52	437.32	-317.52	540.43	0.00	0.00	
2,500.00	19.20	326.10	2,409.96	464.62	-335.86	573.30	0.00	0.00	
2,600.00	19.20	326.10	2,504.40	491.92	-354.21	606.16	0.00	0.00	
2,700.00	19.20	326.10	2,598.83	519.22	-372.56	639.03	0.00	0.00	
2,800.00	19.20	326.10	2,693.27	546.52	-390.90	671.90	0.00	0.00	
2,900.00	19.20	326.10	2,787.70	573.82	-409.25	704.76	0.00	0.00	
3,000.00	19.20	326.10	2,882.14	601.12	-427.60	737.63	0.00	0.00	
3,100.00	19.20	326.10	2,976.58	628.42	-445.94	770.49	0.00	0.00	
3,200.00	19.20	326.10	3,071.01	655.72	-464.29	803.36	0.00	0.00	
3,300.00	19.20	326.10	3,165.45	683.02	-482.64	836.23	0.00	0.00	
3,400.00	19.20	326.10	3,259.88	710.32	-500.98	869.09	0.00	0.00	
3,500.00	19.20	326.10	3,354.32	737.62	-519.33	901.96	0.00	0.00	
3,600.00	19.20	326.10	3,448.75	764.92	-537.68	934.82	0.00	0.00	
3,700.00	19.20	326.10	3,543.19	792.22	-556.02	967.69	0.00	0.00	
3,800.00	19.20	326.10	3,637.63	819.52	-574.37	1,000.56	0.00	0.00	
3,900.00	19.20	326.10	3,732.06	846.82	-592.72	1,033.42	0.00	0.00	
4,000.00	19.20	326.10	3,826.50	874.12	-611.06	1,066.29	0.00	0.00	
4,100.00	19.20	326.10	3,920.93	901.42	-629.41	1,099.15	0.00	0.00	
4,200.00	19.20	326.10	4,015.37	928.72	-647.76	1,132.02	0.00	0.00	
4,300.00	19.20	326.10	4,109.81	956.02	-666.10	1,164.89	0.00	0.00	
4,400.00	19.20	326.10	4,204.24	983.32	-684.45	1,197.75	0.00	0.00	
4,500.00	19.20	326.10	4,298.68	1,010.62	-702.80	1,230.62	0.00	0.00	
4,600.00	19.20	326.10	4,393.11	1,037.92	-721.14	1,263.49	0.00	0.00	
4,700.00	19.20	326.10	4,487.55	1,065.22	-739.49	1,296.35	0.00	0.00	

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Site:	S24-T4S-R96W ELU A24 496	North Reference:	True
Well:	FED 24A-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,800.00	19.20	326.10	4,581.98	1,092.52	-757.84	1,329.22	0.00	0.00	
4,900.00	19.20	326.10	4,676.42	1,119.82	-776.18	1,362.08	0.00	0.00	
5,000.00	19.20	326.10	4,770.86	1,147.12	-794.53	1,394.95	0.00	0.00	
5,100.00	19.20	326.10	4,865.29	1,174.42	-812.88	1,427.82	0.00	0.00	
5,200.00	19.20	326.10	4,959.73	1,201.72	-831.22	1,460.68	0.00	0.00	
5,300.00	19.20	326.10	5,054.16	1,229.02	-849.57	1,493.55	0.00	0.00	
5,400.00	19.20	326.10	5,148.60	1,256.32	-867.92	1,526.41	0.00	0.00	
5,500.00	19.20	326.10	5,243.04	1,283.61	-886.26	1,559.28	0.00	0.00	
5,600.00	19.20	326.10	5,337.47	1,310.91	-904.61	1,592.15	0.00	0.00	
5,700.00	19.20	326.10	5,431.91	1,338.21	-922.96	1,625.01	0.00	0.00	
5,800.00	19.20	326.10	5,526.34	1,365.51	-941.30	1,657.88	0.00	0.00	
5,900.00	19.20	326.10	5,620.78	1,392.81	-959.65	1,690.75	0.00	0.00	
6,000.00	19.20	326.10	5,715.21	1,420.11	-978.00	1,723.61	0.00	0.00	
6,100.00	19.20	326.10	5,809.65	1,447.41	-996.34	1,756.48	0.00	0.00	
6,200.00	19.20	326.10	5,904.09	1,474.71	-1,014.69	1,789.34	0.00	0.00	
6,300.00	19.20	326.10	5,998.52	1,502.01	-1,033.04	1,822.21	0.00	0.00	
6,400.00	19.20	326.10	6,092.96	1,529.31	-1,051.38	1,855.08	0.00	0.00	
6,500.00	19.20	326.10	6,187.39	1,556.61	-1,069.73	1,887.94	0.00	0.00	
6,512.29	19.20	326.10	6,199.00	1,559.97	-1,071.98	1,891.98	0.00	0.00	WASATCH_G.NPC (TVD)
6,600.00	19.20	326.10	6,281.83	1,583.91	-1,088.08	1,920.81	0.00	0.00	
6,700.00	19.20	326.10	6,376.27	1,611.21	-1,106.42	1,953.67	0.00	0.00	
6,800.00	19.20	326.10	6,470.70	1,638.51	-1,124.77	1,986.54	0.00	0.00	
6,900.00	19.20	326.10	6,565.14	1,665.81	-1,143.12	2,019.41	0.00	0.00	
6,973.98	19.20	326.10	6,635.00	1,686.01	-1,156.69	2,043.72	0.00	0.00	FORT_UNION.NPC (TVD)
7,000.00	19.20	326.10	6,659.57	1,693.11	-1,161.46	2,052.27	0.00	0.00	
7,100.00	19.20	326.10	6,754.01	1,720.41	-1,179.81	2,085.14	0.00	0.00	
7,200.00	19.20	326.10	6,848.44	1,747.71	-1,198.16	2,118.00	0.00	0.00	
7,300.00	19.20	326.10	6,942.88	1,775.01	-1,216.50	2,150.87	0.00	0.00	
7,400.00	19.20	326.10	7,037.32	1,802.31	-1,234.85	2,183.74	0.00	0.00	
7,500.00	19.20	326.10	7,131.75	1,829.61	-1,253.19	2,216.60	0.00	0.00	
7,600.00	19.20	326.10	7,226.19	1,856.91	-1,271.54	2,249.47	0.00	0.00	
7,700.00	19.20	326.10	7,320.62	1,884.21	-1,289.89	2,282.34	0.00	0.00	
7,800.00	19.20	326.10	7,415.06	1,911.51	-1,308.23	2,315.20	0.00	0.00	
7,900.00	19.20	326.10	7,509.50	1,938.81	-1,326.58	2,348.07	0.00	0.00	
8,000.00	19.20	326.10	7,603.93	1,966.11	-1,344.93	2,380.93	0.00	0.00	
8,100.00	19.20	326.10	7,698.37	1,993.41	-1,363.27	2,413.80	0.00	0.00	
8,200.00	19.20	326.10	7,792.80	2,020.71	-1,381.62	2,446.67	0.00	0.00	
8,300.00	19.20	326.10	7,887.24	2,048.01	-1,399.97	2,479.53	0.00	0.00	
8,400.00	19.20	326.10	7,981.67	2,075.31	-1,418.31	2,512.40	0.00	0.00	
8,500.00	19.20	326.10	8,076.11	2,102.61	-1,436.66	2,545.26	0.00	0.00	
8,600.00	19.20	326.10	8,170.55	2,129.91	-1,455.01	2,578.13	0.00	0.00	
8,621.46	19.20	326.10	8,190.81	2,135.76	-1,458.95	2,585.18	0.00	0.00	Start Drop -3.00
8,700.00	16.85	326.10	8,265.49	2,155.93	-1,472.50	2,609.47	3.00	-3.00	
8,800.00	13.85	326.10	8,361.92	2,177.90	-1,487.26	2,635.91	3.00	-3.00	
8,900.00	10.85	326.10	8,459.59	2,195.64	-1,499.19	2,657.27	3.00	-3.00	
8,958.29	9.10	326.10	8,517.00	2,204.02	-1,504.82	2,667.36	3.00	-3.00	OHIO_CREEK.NPC
9,000.00	7.85	326.10	8,558.25	2,209.12	-1,508.24	2,673.50	3.00	-3.00	
9,100.00	4.85	326.10	8,657.63	2,218.30	-1,514.41	2,684.54	3.00	-3.00	
9,200.00	1.85	326.10	8,757.45	2,223.14	-1,517.67	2,690.38	3.00	-3.00	
9,261.56	0.00	0.00	8,819.00	2,223.97	-1,518.22	2,691.37	3.00	-3.00	Start DLS 2.00 TFO 250.00
9,300.00	0.77	250.00	8,857.43	2,223.88	-1,518.46	2,691.44	2.00	2.00	
9,311.57	1.00	250.00	8,869.00	2,223.82	-1,518.63	2,691.49	2.00	2.00	WILLIAMS_FORK.NPC (TVD)

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Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL+_KB
Site:	S24-T4S-R96W ELU A24 496	North Reference:	True
Well:	FED 24A-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
9,333.47	1.44	250.00	8,890.90	2,223.66	-1,519.07	2,691.62	2.00	2.00	Start 3568.22 hold at 9333.47 MD
9,361.58	1.44	250.00	8,919.00	2,223.42	-1,519.73	2,691.82	0.00	0.00	TOP_GAS.NPC (TVD)
9,400.00	1.44	250.00	8,957.41	2,223.09	-1,520.64	2,692.08	0.00	0.00	
9,500.00	1.44	250.00	9,057.38	2,222.23	-1,523.00	2,692.78	0.00	0.00	
9,600.00	1.44	250.00	9,157.34	2,221.37	-1,525.35	2,693.48	0.00	0.00	
9,700.00	1.44	250.00	9,257.31	2,220.51	-1,527.71	2,694.18	0.00	0.00	
9,800.00	1.44	250.00	9,357.28	2,219.65	-1,530.07	2,694.88	0.00	0.00	
9,900.00	1.44	250.00	9,457.25	2,218.79	-1,532.43	2,695.58	0.00	0.00	
10,000.00	1.44	250.00	9,557.22	2,217.93	-1,534.79	2,696.28	0.00	0.00	
10,100.00	1.44	250.00	9,657.19	2,217.08	-1,537.15	2,696.98	0.00	0.00	
10,200.00	1.44	250.00	9,757.15	2,216.22	-1,539.51	2,697.68	0.00	0.00	
10,300.00	1.44	250.00	9,857.12	2,215.36	-1,541.86	2,698.37	0.00	0.00	
10,400.00	1.44	250.00	9,957.09	2,214.50	-1,544.22	2,699.07	0.00	0.00	
10,500.00	1.44	250.00	10,057.06	2,213.64	-1,546.58	2,699.77	0.00	0.00	
10,600.00	1.44	250.00	10,157.03	2,212.78	-1,548.94	2,700.47	0.00	0.00	
10,700.00	1.44	250.00	10,257.00	2,211.93	-1,551.30	2,701.17	0.00	0.00	
10,800.00	1.44	250.00	10,356.97	2,211.07	-1,553.66	2,701.87	0.00	0.00	
10,900.00	1.44	250.00	10,456.93	2,210.21	-1,556.01	2,702.57	0.00	0.00	
11,000.00	1.44	250.00	10,556.90	2,209.35	-1,558.37	2,703.27	0.00	0.00	
11,100.00	1.44	250.00	10,656.87	2,208.49	-1,560.73	2,703.97	0.00	0.00	
11,200.00	1.44	250.00	10,756.84	2,207.63	-1,563.09	2,704.66	0.00	0.00	
11,300.00	1.44	250.00	10,856.81	2,206.77	-1,565.45	2,705.36	0.00	0.00	
11,400.00	1.44	250.00	10,956.78	2,205.92	-1,567.81	2,706.06	0.00	0.00	
11,500.00	1.44	250.00	11,056.75	2,205.06	-1,570.17	2,706.76	0.00	0.00	
11,600.00	1.44	250.00	11,156.71	2,204.20	-1,572.52	2,707.46	0.00	0.00	
11,700.00	1.44	250.00	11,256.68	2,203.34	-1,574.88	2,708.16	0.00	0.00	
11,800.00	1.44	250.00	11,356.65	2,202.48	-1,577.24	2,708.86	0.00	0.00	
11,900.00	1.44	250.00	11,456.62	2,201.62	-1,579.60	2,709.56	0.00	0.00	
12,000.00	1.44	250.00	11,556.59	2,200.77	-1,581.96	2,710.26	0.00	0.00	
12,100.00	1.44	250.00	11,656.56	2,199.91	-1,584.32	2,710.95	0.00	0.00	
12,200.00	1.44	250.00	11,756.52	2,199.05	-1,586.68	2,711.65	0.00	0.00	
12,201.48	1.44	250.00	11,758.00	2,199.04	-1,586.71	2,711.66	0.00	0.00	CAMEO.NPC (TVD)
12,300.00	1.44	250.00	11,856.49	2,198.19	-1,589.03	2,712.35	0.00	0.00	
12,400.00	1.44	250.00	11,956.46	2,197.33	-1,591.39	2,713.05	0.00	0.00	
12,500.00	1.44	250.00	12,056.43	2,196.47	-1,593.75	2,713.75	0.00	0.00	
12,600.00	1.44	250.00	12,156.40	2,195.61	-1,596.11	2,714.45	0.00	0.00	
12,700.00	1.44	250.00	12,256.37	2,194.76	-1,598.47	2,715.15	0.00	0.00	
12,701.63	1.44	250.00	12,258.00	2,194.74	-1,598.51	2,715.16	0.00	0.00	ROLLINS.NPC (TVD)
12,800.00	1.44	250.00	12,356.34	2,193.90	-1,600.83	2,715.85	0.00	0.00	
12,900.00	1.44	250.00	12,456.30	2,193.04	-1,603.18	2,716.55	0.00	0.00	
12,901.70	1.44	250.00	12,458.00	2,193.02	-1,603.22	2,716.56	0.00	0.00	TD at 12901.70 - FED 24A-14_PBHL

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									
FED 24A-14_PBHL	0.00	0.00	12,458.00	2,193.02	-1,603.22	14,429,842.70	2,447,468.90	39.700337	-108.130996
- plan hits target center									
- Ellipse (radii L100.00 W50.00 on 250.00 azi)									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well FED 24A-14 - Slot N_A2
Company:	Caerus Oil & Gas	TVD Reference:	GL+_KB
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL+_KB
Site:	S24-T4S-R96W ELU A24 496	North Reference:	True
Well:	FED 24A-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,512.29	6,199.00	WASATCH_G.NPC (TVD)				
6,973.98	6,635.00	FORT_UNION.NPC (TVD)				
8,958.29	8,517.00	OHIO_CREEK.NPC				
9,311.57	8,869.00	WILLIAMS_FORK.NPC (TVD)				
9,361.58	8,919.00	TOP_GAS.NPC (TVD)				
12,201.48	11,758.00	CAMEO.NPC (TVD)				
12,701.63	12,258.00	ROLLINS.NPC (TVD)				
12,901.70	12,458.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.00	250.00	0.00	0.00	Start Build 3.00	
350.00	349.95	0.45	-2.58	Start 180.00 hold at 350.00 MD	
530.00	529.71	2.09	-11.85	Start DLS 3.00 TFO 53.04	
1,105.12	1,092.70	83.83	-79.95	Start 7516.34 hold at 1105.12 MD	
8,621.46	8,190.81	2,135.76	-1,458.95	Start Drop -3.00	
9,261.56	8,819.00	2,223.97	-1,518.22	Start DLS 2.00 TFO 250.00	
9,333.47	8,890.90	2,223.66	-1,519.07	Start 3568.22 hold at 9333.47 MD	
12,901.70	12,458.00	2,193.02	-1,603.22	TD at 12901.70	