



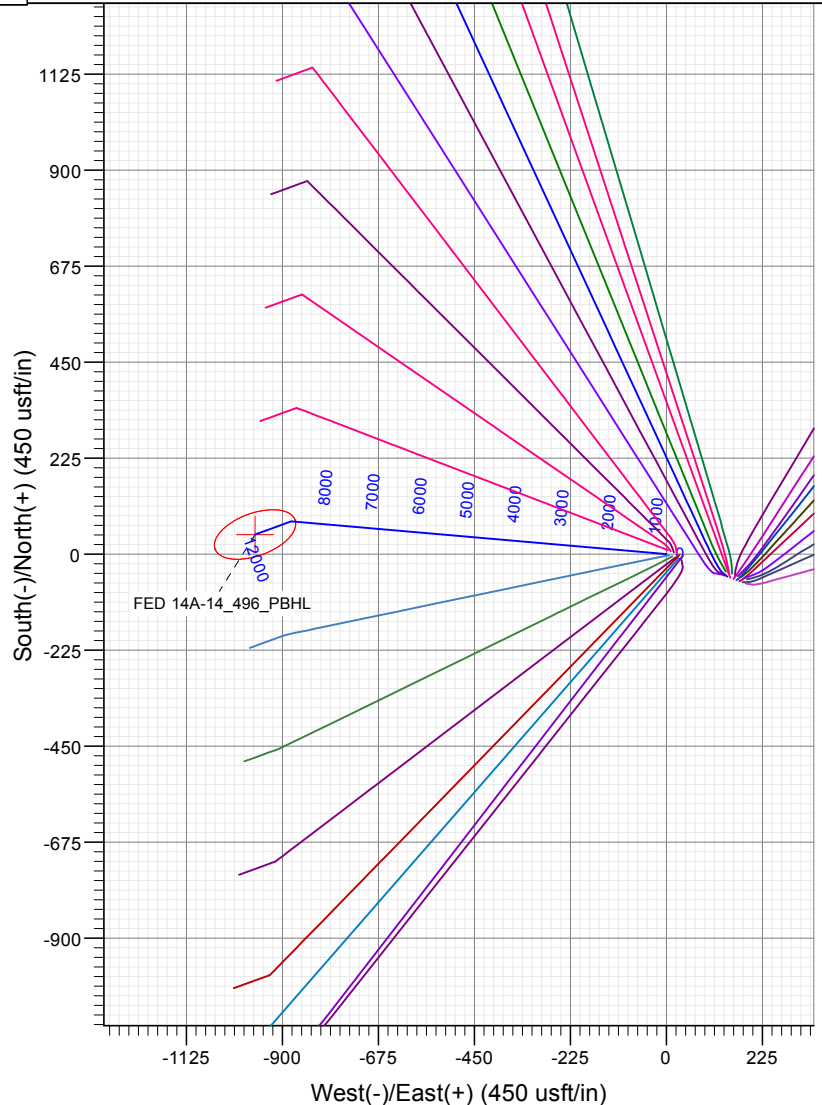
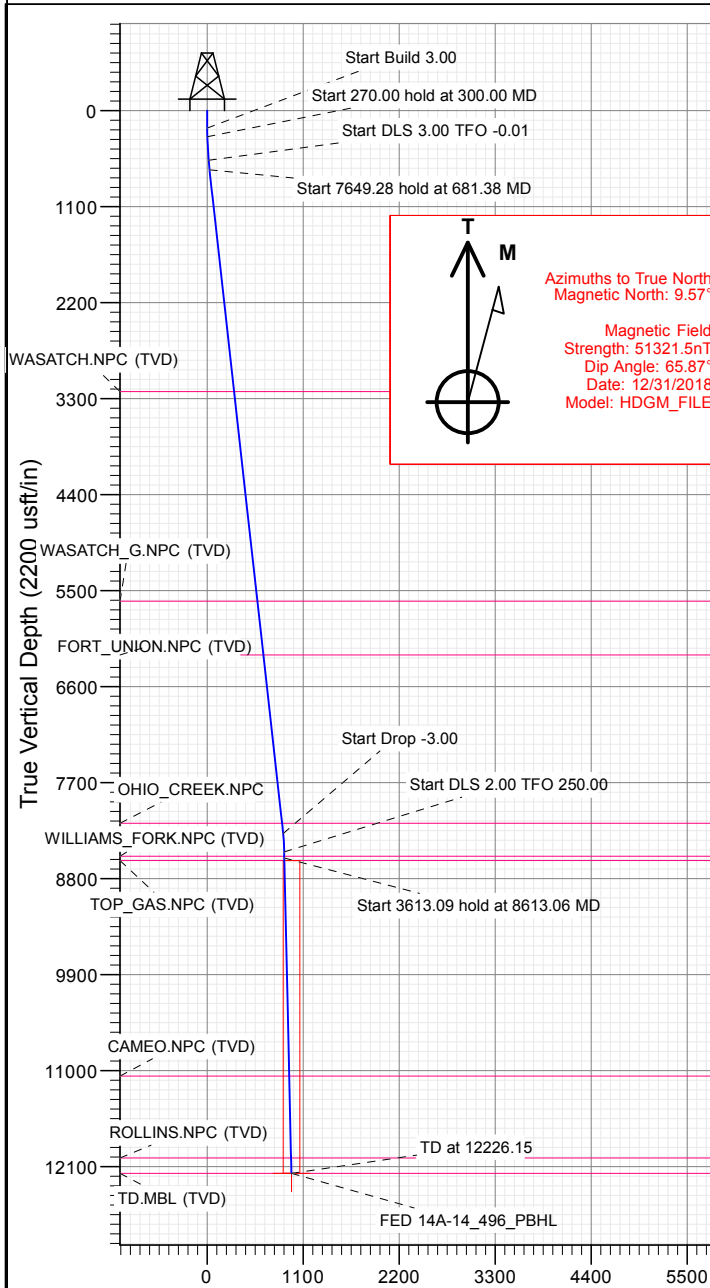
## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	300.00	3.00	275.00	299.95	0.23	-2.61	3.00	275.00	2.62	
4	570.00	3.00	275.00	569.58	1.46	-16.68	0.00	0.00	16.73	
5	681.38	6.34	275.00	680.58	2.25	-25.72	3.00	-0.01	25.80	
6	8330.66	6.34	275.00	8283.05	75.83	-867.39	0.00	0.00	870.01	
7	8542.04	0.00	0.00	8494.00	76.85	-879.03	3.00	180.00	881.69	
8	8613.06	1.42	250.00	8565.02	76.55	-879.86	2.00	250.00	882.50	
9	12226.15	1.42	250.00	12177.00	45.91	-964.03	0.00	0.00	965.12	FED 14A-14_496_PBHL

PLAN #1  
FED 14A-14\_496  
GL +FB = 30' @ 7532.00usft  
Ground Level @ 7902.00  
NAD 1927 - Western US  
Well FED 14A-14\_496 - Slot WS\_1, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD	Name
TD	No Target (Freehand)	272.73	Slot		0.00	0.00	0.00	12177.00	FED 14A-14_496_PBHL
					+N/-S	+E/-W			
					45.91	-964.03			
						Latitude	Longitude		
						39.701097	-108.140007		

Project: Garfield County, CO (UTM 12N)  
Site: SEC 14-T4S-R96W ELU J14 496 PAD  
Well: FED 14A-14\_496  
Wellbore: OH  
Design: PLAN #1



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3221.00	3237.44	WASATCH.NPC (TVD)
5621.00	5652.22	WASATCH.G.NPC (TVD)
6236.00	6271.00	FORT UNION.NPC (TVD)
8167.00	8213.89	OHIO CREEK.NPC
8544.00	8592.04	WILLIAMS FORK.NPC (TVD)
8594.00	8642.05	TOP GAS.NPC (TVD)
11063.00	11111.81	CAMEO.NPC (TVD)
12002.00	12051.10	ROLLINS.NPC (TVD)
12177.00	12226.15	TD.MBL (TVD)

## WELL DETAILS: FED 14A-14\_496

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14430023.50	2445889.80	39.700971	-108.136582

WS\_1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 14A-14_496 - Slot WS_1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU J14 496 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FED 14A-14_496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

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

Site		SEC 14-T4S-R96W ELU J14 496 PAD			
Site Position:		Northing:	14,430,033.00 usft	Latitude:	39.700997
From:	Map	Easting:	2,445,893.00 usft	Longitude:	-108.136570
Position Uncertainty:	3.28 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.83 °

Well	FED 14A-14_496 - Slot WS_1					
Well Position	+N/-S	0.00 usft	Northing:	14,430,023.50 usft	Latitude:	39.700971
	+E/-W	0.00 usft	Easting:	2,445,889.80 usft	Longitude:	-108.136582
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	7,902.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM_FILE	12/31/2018	9.57	65.87	51,321.50000000

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	272.73

<b>Plan Sections</b>										
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	
300.00	3.00	275.00	299.95	0.23	-2.61	3.00	3.00	0.00	275.00	
570.00	3.00	275.00	569.58	1.46	-16.68	0.00	0.00	0.00	0.00	
681.38	6.34	275.00	680.58	2.25	-25.72	3.00	3.00	0.00	-0.01	
8,330.66	6.34	275.00	8,283.05	75.83	-867.39	0.00	0.00	0.00	0.00	
8,542.04	0.00	0.00	8,494.00	76.85	-879.03	3.00	-3.00	0.00	180.00	
8,613.06	1.42	250.00	8,565.02	76.55	-879.86	2.00	2.00	-154.87	250.00	
12,226.15	1.42	250.00	12,177.00	45.91	-964.03	0.00	0.00	0.00	0.00	FED 14A-14_496_PB

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 14A-14_496 - Slot WS_1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU J14 496 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FED 14A-14_496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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 (°/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	Start Build 3.00
300.00	3.00	275.00	299.95	0.23	-2.61	2.62	3.00	3.00	Start 270.00 hold at 300.00 MD
400.00	3.00	275.00	399.82	0.68	-7.82	7.84	0.00	0.00	
500.00	3.00	275.00	499.68	1.14	-13.03	13.07	0.00	0.00	
570.00	3.00	275.00	569.58	1.46	-16.68	16.73	0.00	0.00	Start DLS 3.00 TFO -0.01
600.00	3.90	275.00	599.53	1.62	-18.48	18.54	3.00	3.00	
681.38	6.34	275.00	680.58	2.25	-25.72	25.80	3.00	3.00	Start 7649.28 hold at 681.38 MD
700.00	6.34	275.00	699.08	2.43	-27.77	27.85	0.00	0.00	
800.00	6.34	275.00	798.47	3.39	-38.77	38.89	0.00	0.00	
900.00	6.34	275.00	897.86	4.35	-49.77	49.92	0.00	0.00	
1,000.00	6.34	275.00	997.25	5.31	-60.78	60.96	0.00	0.00	
1,100.00	6.34	275.00	1,096.64	6.28	-71.78	72.00	0.00	0.00	
1,200.00	6.34	275.00	1,196.03	7.24	-82.78	83.03	0.00	0.00	
1,300.00	6.34	275.00	1,295.41	8.20	-93.79	94.07	0.00	0.00	
1,400.00	6.34	275.00	1,394.80	9.16	-104.79	105.11	0.00	0.00	
1,500.00	6.34	275.00	1,494.19	10.12	-115.79	116.14	0.00	0.00	
1,600.00	6.34	275.00	1,593.58	11.09	-126.80	127.18	0.00	0.00	
1,700.00	6.34	275.00	1,692.97	12.05	-137.80	138.22	0.00	0.00	
1,800.00	6.34	275.00	1,792.35	13.01	-148.80	149.25	0.00	0.00	
1,900.00	6.34	275.00	1,891.74	13.97	-159.81	160.29	0.00	0.00	
2,000.00	6.34	275.00	1,991.13	14.93	-170.81	171.33	0.00	0.00	
2,100.00	6.34	275.00	2,090.52	15.90	-181.81	182.36	0.00	0.00	
2,200.00	6.34	275.00	2,189.91	16.86	-192.82	193.40	0.00	0.00	
2,300.00	6.34	275.00	2,289.30	17.82	-203.82	204.44	0.00	0.00	
2,400.00	6.34	275.00	2,388.68	18.78	-214.82	215.47	0.00	0.00	
2,500.00	6.34	275.00	2,488.07	19.74	-225.83	226.51	0.00	0.00	
2,600.00	6.34	275.00	2,587.46	20.71	-236.83	237.55	0.00	0.00	
2,700.00	6.34	275.00	2,686.85	21.67	-247.83	248.58	0.00	0.00	
2,800.00	6.34	275.00	2,786.24	22.63	-258.84	259.62	0.00	0.00	
2,900.00	6.34	275.00	2,885.62	23.59	-269.84	270.66	0.00	0.00	
3,000.00	6.34	275.00	2,985.01	24.55	-280.84	281.69	0.00	0.00	
3,100.00	6.34	275.00	3,084.40	25.52	-291.85	292.73	0.00	0.00	
3,200.00	6.34	275.00	3,183.79	26.48	-302.85	303.77	0.00	0.00	
3,237.44	6.34	275.00	3,221.00	26.84	-306.97	307.90	0.00	0.00	WASATCH.NPC (TVD)
3,300.00	6.34	275.00	3,283.18	27.44	-313.85	314.80	0.00	0.00	
3,400.00	6.34	275.00	3,382.56	28.40	-324.86	325.84	0.00	0.00	
3,500.00	6.34	275.00	3,481.95	29.36	-335.86	336.88	0.00	0.00	
3,600.00	6.34	275.00	3,581.34	30.33	-346.86	347.91	0.00	0.00	
3,700.00	6.34	275.00	3,680.73	31.29	-357.87	358.95	0.00	0.00	
3,800.00	6.34	275.00	3,780.12	32.25	-368.87	369.98	0.00	0.00	
3,900.00	6.34	275.00	3,879.51	33.21	-379.87	381.02	0.00	0.00	
4,000.00	6.34	275.00	3,978.89	34.17	-390.87	392.06	0.00	0.00	
4,100.00	6.34	275.00	4,078.28	35.14	-401.88	403.09	0.00	0.00	
4,200.00	6.34	275.00	4,177.67	36.10	-412.88	414.13	0.00	0.00	
4,300.00	6.34	275.00	4,277.06	37.06	-423.88	425.17	0.00	0.00	
4,400.00	6.34	275.00	4,376.45	38.02	-434.89	436.20	0.00	0.00	
4,500.00	6.34	275.00	4,475.83	38.98	-445.89	447.24	0.00	0.00	
4,600.00	6.34	275.00	4,575.22	39.95	-456.89	458.28	0.00	0.00	
4,700.00	6.34	275.00	4,674.61	40.91	-467.90	469.31	0.00	0.00	
4,800.00	6.34	275.00	4,774.00	41.87	-478.90	480.35	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 14A-14_496 - Slot WS_1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU J14 496 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FED 14A-14_496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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 (°/100u)	Comments / Formations
4,900.00	6.34	275.00	4,873.39	42.83	-489.90	491.39	0.00	0.00	
5,000.00	6.34	275.00	4,972.77	43.79	-500.91	502.42	0.00	0.00	
5,100.00	6.34	275.00	5,072.16	44.75	-511.91	513.46	0.00	0.00	
5,200.00	6.34	275.00	5,171.55	45.72	-522.91	524.50	0.00	0.00	
5,300.00	6.34	275.00	5,270.94	46.68	-533.92	535.53	0.00	0.00	
5,400.00	6.34	275.00	5,370.33	47.64	-544.92	546.57	0.00	0.00	
5,500.00	6.34	275.00	5,469.72	48.60	-555.92	557.61	0.00	0.00	
5,600.00	6.34	275.00	5,569.10	49.56	-566.93	568.64	0.00	0.00	
5,652.22	6.34	275.00	5,621.00	50.07	-572.67	574.41	0.00	0.00	WASATCH_G.NPC (TVD)
5,700.00	6.34	275.00	5,668.49	50.53	-577.93	579.68	0.00	0.00	
5,800.00	6.34	275.00	5,767.88	51.49	-588.93	590.72	0.00	0.00	
5,900.00	6.34	275.00	5,867.27	52.45	-599.94	601.75	0.00	0.00	
6,000.00	6.34	275.00	5,966.66	53.41	-610.94	612.79	0.00	0.00	
6,100.00	6.34	275.00	6,066.04	54.37	-621.94	623.83	0.00	0.00	
6,200.00	6.34	275.00	6,165.43	55.34	-632.95	634.86	0.00	0.00	
6,271.00	6.34	275.00	6,236.00	56.02	-640.76	642.70	0.00	0.00	FORT_UNION.NPC (TVD)
6,300.00	6.34	275.00	6,264.82	56.30	-643.95	645.90	0.00	0.00	
6,400.00	6.34	275.00	6,364.21	57.26	-654.95	656.94	0.00	0.00	
6,500.00	6.34	275.00	6,463.60	58.22	-665.96	667.97	0.00	0.00	
6,600.00	6.34	275.00	6,562.99	59.18	-676.96	679.01	0.00	0.00	
6,700.00	6.34	275.00	6,662.37	60.15	-687.96	690.05	0.00	0.00	
6,800.00	6.34	275.00	6,761.76	61.11	-698.97	701.08	0.00	0.00	
6,900.00	6.34	275.00	6,861.15	62.07	-709.97	712.12	0.00	0.00	
7,000.00	6.34	275.00	6,960.54	63.03	-720.97	723.16	0.00	0.00	
7,100.00	6.34	275.00	7,059.93	63.99	-731.98	734.19	0.00	0.00	
7,200.00	6.34	275.00	7,159.31	64.96	-742.98	745.23	0.00	0.00	
7,300.00	6.34	275.00	7,258.70	65.92	-753.98	756.27	0.00	0.00	
7,400.00	6.34	275.00	7,358.09	66.88	-764.99	767.30	0.00	0.00	
7,500.00	6.34	275.00	7,457.48	67.84	-775.99	778.34	0.00	0.00	
7,600.00	6.34	275.00	7,556.87	68.80	-786.99	789.37	0.00	0.00	
7,700.00	6.34	275.00	7,656.25	69.77	-798.00	800.41	0.00	0.00	
7,800.00	6.34	275.00	7,755.64	70.73	-809.00	811.45	0.00	0.00	
7,900.00	6.34	275.00	7,855.03	71.69	-820.00	822.48	0.00	0.00	
8,000.00	6.34	275.00	7,954.42	72.65	-831.01	833.52	0.00	0.00	
8,100.00	6.34	275.00	8,053.81	73.61	-842.01	844.56	0.00	0.00	
8,200.00	6.34	275.00	8,153.20	74.58	-853.01	855.59	0.00	0.00	
8,213.89	6.34	275.00	8,167.00	74.71	-854.54	857.13	0.00	0.00	OHIO_CREEK.NPC
8,300.00	6.34	275.00	8,252.58	75.54	-864.02	866.63	0.00	0.00	
8,330.66	6.34	275.00	8,283.05	75.83	-867.39	870.01	0.00	0.00	Start Drop -3.00
8,400.00	4.26	275.00	8,352.10	76.39	-873.77	876.42	3.00	-3.00	
8,500.00	1.26	275.00	8,451.97	76.81	-878.57	881.23	3.00	-3.00	
8,542.04	0.00	0.00	8,494.00	76.85	-879.03	881.69	3.00	-3.00	Start DLS 2.00 TFO 250.00
8,592.04	1.00	250.00	8,544.00	76.70	-879.44	882.09	2.00	2.00	WILLIAMS_FORK.NPC (TVD)
8,600.00	1.16	250.00	8,551.96	76.65	-879.58	882.23	2.00	2.00	
8,613.06	1.42	250.00	8,565.02	76.55	-879.86	882.50	2.00	2.00	Start 3613.09 hold at 8613.06 MD
8,642.05	1.42	250.00	8,594.00	76.30	-880.53	883.17	0.00	0.00	TOP_GAS.NPC (TVD)
8,700.00	1.42	250.00	8,651.93	75.81	-881.88	884.49	0.00	0.00	
8,800.00	1.42	250.00	8,751.90	74.96	-884.21	886.78	0.00	0.00	
8,900.00	1.42	250.00	8,851.87	74.12	-886.54	889.06	0.00	0.00	
9,000.00	1.42	250.00	8,951.84	73.27	-888.87	891.35	0.00	0.00	
9,100.00	1.42	250.00	9,051.81	72.42	-891.20	893.64	0.00	0.00	
9,200.00	1.42	250.00	9,151.78	71.57	-893.53	895.92	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 14A-14_496 - Slot WS_1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU J14 496 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FED 14A-14_496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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 (°/100u)	Comments / Formations
9,300.00	1.42	250.00	9,251.75	70.72	-895.86	898.21	0.00	0.00	
9,400.00	1.42	250.00	9,351.72	69.88	-898.19	900.50	0.00	0.00	
9,500.00	1.42	250.00	9,451.68	69.03	-900.52	902.78	0.00	0.00	
9,600.00	1.42	250.00	9,551.65	68.18	-902.85	905.07	0.00	0.00	
9,700.00	1.42	250.00	9,651.62	67.33	-905.18	907.36	0.00	0.00	
9,800.00	1.42	250.00	9,751.59	66.48	-907.51	909.64	0.00	0.00	
9,900.00	1.42	250.00	9,851.56	65.64	-909.84	911.93	0.00	0.00	
10,000.00	1.42	250.00	9,951.53	64.79	-912.17	914.22	0.00	0.00	
10,100.00	1.42	250.00	10,051.50	63.94	-914.50	916.50	0.00	0.00	
10,200.00	1.42	250.00	10,151.47	63.09	-916.83	918.79	0.00	0.00	
10,300.00	1.42	250.00	10,251.44	62.24	-919.16	921.08	0.00	0.00	
10,400.00	1.42	250.00	10,351.41	61.40	-921.48	923.36	0.00	0.00	
10,500.00	1.42	250.00	10,451.38	60.55	-923.81	925.65	0.00	0.00	
10,600.00	1.42	250.00	10,551.35	59.70	-926.14	927.94	0.00	0.00	
10,700.00	1.42	250.00	10,651.32	58.85	-928.47	930.22	0.00	0.00	
10,800.00	1.42	250.00	10,751.29	58.00	-930.80	932.51	0.00	0.00	
10,900.00	1.42	250.00	10,851.25	57.16	-933.13	934.79	0.00	0.00	
11,000.00	1.42	250.00	10,951.22	56.31	-935.46	937.08	0.00	0.00	
11,100.00	1.42	250.00	11,051.19	55.46	-937.79	939.37	0.00	0.00	
11,111.81	1.42	250.00	11,063.00	55.36	-938.07	939.64	0.00	0.00	CAMEO.NPC (TVD)
11,200.00	1.42	250.00	11,151.16	54.61	-940.12	941.65	0.00	0.00	
11,300.00	1.42	250.00	11,251.13	53.76	-942.45	943.94	0.00	0.00	
11,400.00	1.42	250.00	11,351.10	52.92	-944.78	946.23	0.00	0.00	
11,500.00	1.42	250.00	11,451.07	52.07	-947.11	948.51	0.00	0.00	
11,600.00	1.42	250.00	11,551.04	51.22	-949.44	950.80	0.00	0.00	
11,700.00	1.42	250.00	11,651.01	50.37	-951.77	953.09	0.00	0.00	
11,800.00	1.42	250.00	11,750.98	49.52	-954.10	955.37	0.00	0.00	
11,900.00	1.42	250.00	11,850.95	48.68	-956.43	957.66	0.00	0.00	
12,000.00	1.42	250.00	11,950.92	47.83	-958.76	959.95	0.00	0.00	
12,051.10	1.42	250.00	12,002.00	47.40	-959.95	961.12	0.00	0.00	ROLLINS.NPC (TVD)
12,100.00	1.42	250.00	12,050.89	46.98	-961.09	962.23	0.00	0.00	
12,200.00	1.42	250.00	12,150.85	46.13	-963.42	964.52	0.00	0.00	
12,226.15	1.42	250.00	12,177.00	45.91	-964.03	965.12	0.00	0.00	TD at 12226.15 - TD.MBL (TVD) - FED 14A-14_

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FED 14A-14_496_PBHL	0.00	0.00	12,177.00	45.91	-964.03	14,430,038.60	2,444,924.80	39.701097	-108.140007
- hit/miss target									
- Shape									
- plan hits target center									
- Ellipse (radii L100.00 W50.00 on 250.00 azi)									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 14A-14_496 - Slot WS_1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	GL + KB = 30' @ 7932.00usft
<b>Site:</b>	SEC 14-T4S-R96W ELU J14 496 PAD	<b>North Reference:</b>	True
<b>Well:</b>	FED 14A-14_496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,237.44	3,221.00	WASATCH.NPC (TVD)				
5,652.22	5,621.00	WASATCH_G.NPC (TVD)				
6,271.00	6,236.00	FORT_UNION.NPC (TVD)				
8,213.89	8,167.00	OHIO_CREEK.NPC				
8,592.04	8,544.00	WILLIAMS_FORK.NPC (TVD)				
8,642.05	8,594.00	TOP_GAS.NPC (TVD)				
11,111.81	11,063.00	CAMEO.NPC (TVD)				
12,051.10	12,002.00	ROLLINS.NPC (TVD)				
12,226.15	12,177.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	Start Build 3.00	
300.00	299.95	0.23	-2.61	Start 270.00 hold at 300.00 MD	
570.00	569.58	1.46	-16.68	Start DLS 3.00 TFO -0.01	
681.38	680.58	2.25	-25.72	Start 7649.28 hold at 681.38 MD	
8,330.66	8,283.05	75.83	-867.39	Start Drop -3.00	
8,542.04	8,494.00	76.85	-879.03	Start DLS 2.00 TFO 250.00	
8,613.06	8,565.02	76.55	-879.86	Start 3613.09 hold at 8613.06 MD	
12,226.15	12,177.00	45.91	-964.03	TD at 12226.15	