

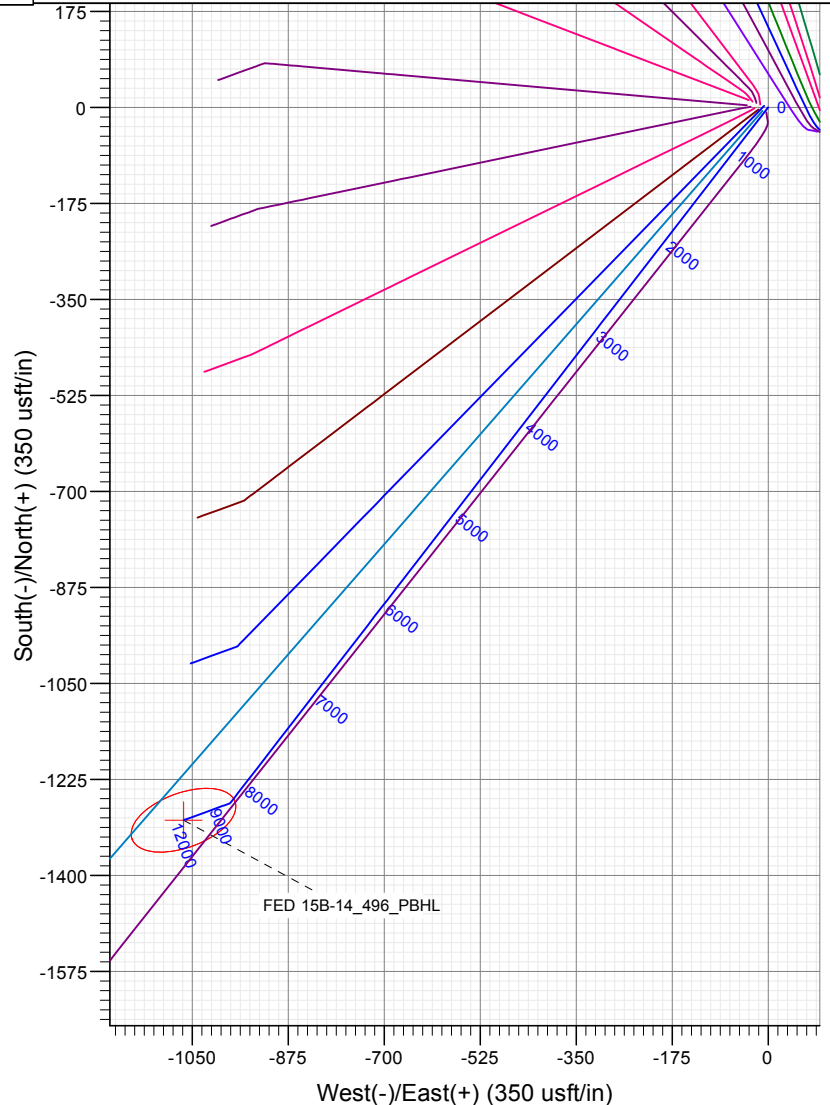
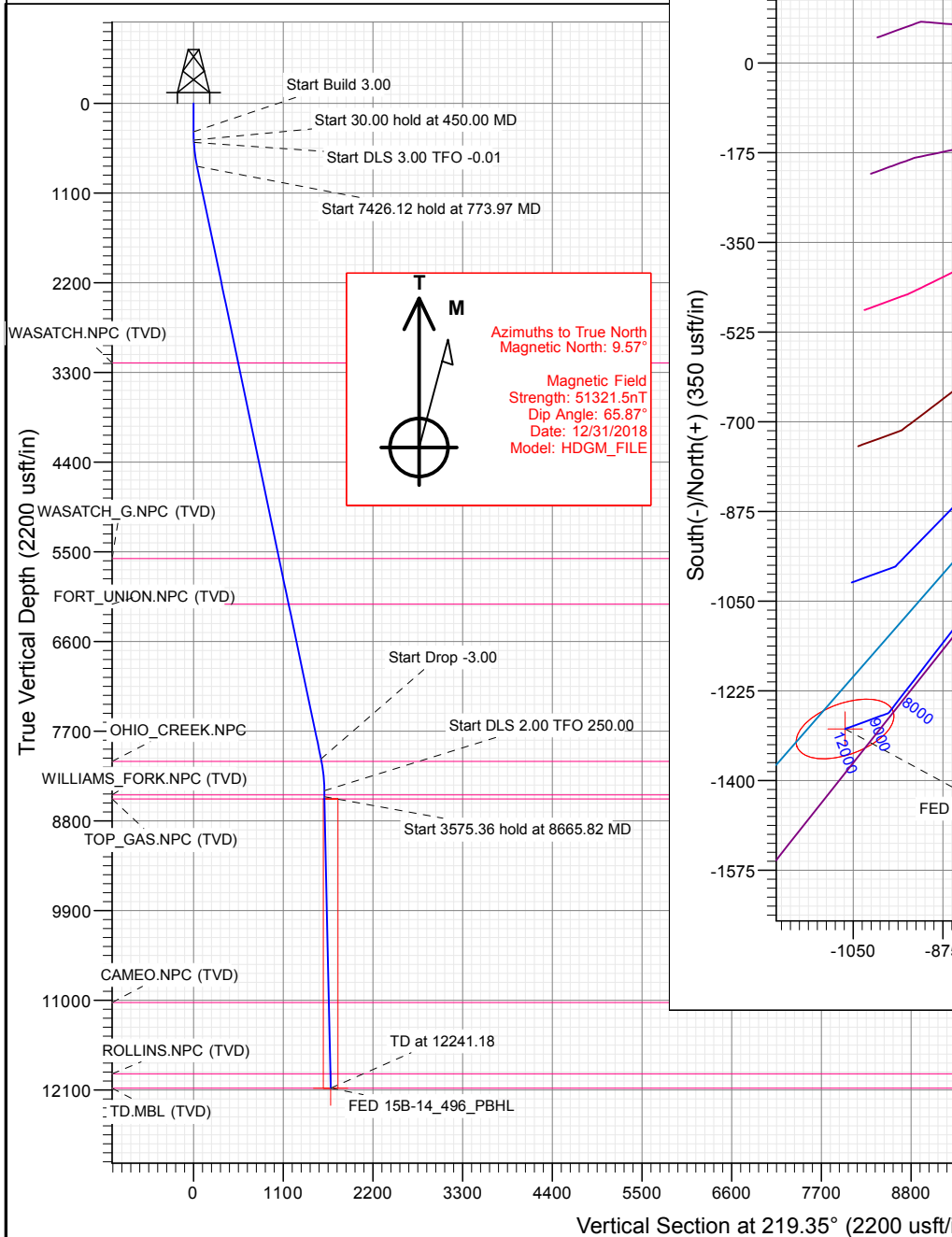


## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	
3	450.00	3.00	217.71	449.95	-2.07	-1.60	3.00	217.71	2.62	
4	480.00	3.00	217.71	479.91	-3.31	-2.56	0.00	0.00	4.19	
5	773.97	11.82	217.71	771.14	-33.28	-25.72	3.00	-0.01	42.04	
6	8200.09	11.82	217.71	8039.82	-1236.66	-955.99	0.00	0.00	1562.44	
7	8594.05	0.00	0.00	8431.00	-1268.69	-980.75	3.00	180.00	1602.91	
8	8665.82	1.44	250.00	8502.76	-1269.00	-981.59	2.00	250.00	1603.68	
9	12241.18	1.44	250.00	12077.00	-1299.63	-1065.75	0.00	0.00	1680.73	FED 15B-14_496_PBHL

PLAN #1 FED 15B-14_496 GL +FB = 30' @ 7532.00usft Ground Level @ 7902.00 NAD 1927 - Western US Well FED 15B-14_496 - Slot WN_6, True North									
Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD	
TD	No Target (Freehand)	219.35	Slot		0.00	0.00	0.00		
Name	FED 15B-14_496_PBHL	TVD	+N/-S	+E/-W	Latitude	Longitude			
		12077.00	-1299.63	-1065.75	39.697395	-108.140231			

Project: Garfield County, CO (UTM 12N)  
Site: SEC 14-T4S-R96W ELU J14 496 PAD  
Well: FED 15B-14\_496  
Wellbore: OH  
Design: PLAN #1



## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3184.00	3239.09	WASATCH.NPC (TVD)
5584.00	5691.07	WASATCH_G.NPC (TVD)
6143.00	6262.18	FORT_UNION.NPC (TVD)
8071.00	8231.89	OHIO_CREEK.NPC
8481.00	8644.06	WILLIAMS_FORK.NPC (TVD)
8531.00	8694.07	TOP_GAS.NPC (TVD)
11028.00	11191.85	CAMEO.NPC (TVD)
11902.00	12066.13	ROLLINS.NPC (TVD)
12077.00	12241.18	TD.MBL (TVD)

## WELL DETAILS: FED 15B-14\_496

+N/-S	+E/-W	Northing	Easting	7902.00
0.00	0.00	14430021.10	2445928.60	

Latitude	Longitude
39.700961	-108.136445

WN\_6



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 15B-14_496 - Slot WN_6
<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 15B-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 15B-14_496 - Slot WN_6					
Well Position	+N/-S	0.00 usft	Northing:	14,430,021.10 usft	Latitude:	39.700961
	+E/-W	0.00 usft	Easting:	2,445,928.60 usft	Longitude:	-108.136445
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	219.35

<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	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	217.71	449.95	-2.07	-1.60	3.00	3.00	0.00	217.71	
480.00	3.00	217.71	479.91	-3.31	-2.56	0.00	0.00	0.00	0.00	
773.97	11.82	217.71	771.14	-33.28	-25.72	3.00	3.00	0.00	-0.01	
8,200.09	11.82	217.71	8,039.82	-1,236.66	-955.99	0.00	0.00	0.00	0.00	
8,594.05	0.00	0.00	8,431.00	-1,268.69	-980.75	3.00	-3.00	0.00	180.00	
8,665.82	1.44	250.00	8,502.76	-1,269.00	-981.59	2.00	2.00	-153.28	250.00	
12,241.18	1.44	250.00	12,077.00	-1,299.63	-1,065.75	0.00	0.00	0.00	0.00	FED 15B-14_496_PB

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 15B-14_496 - Slot WN_6
<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 15B-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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
400.00	1.50	217.71	399.99	-0.52	-0.40	0.65	3.00	3.00	
450.00	3.00	217.71	449.95	-2.07	-1.60	2.62	3.00	3.00	Start 30.00 hold at 450.00 MD
480.00	3.00	217.71	479.91	-3.31	-2.56	4.19	0.00	0.00	Start DLS 3.00 TFO -0.01
500.00	3.60	217.71	499.88	-4.22	-3.27	5.34	3.00	3.00	
600.00	6.60	217.71	599.47	-11.26	-8.70	14.22	3.00	3.00	
700.00	9.60	217.71	698.46	-22.40	-17.32	28.30	3.00	3.00	
773.97	11.82	217.71	771.14	-33.28	-25.72	42.04	3.00	3.00	Start 7426.12 hold at 773.97 MD
800.00	11.82	217.71	796.62	-37.49	-28.99	47.37	0.00	0.00	
900.00	11.82	217.71	894.50	-53.70	-41.51	67.85	0.00	0.00	
1,000.00	11.82	217.71	992.38	-69.90	-54.04	88.32	0.00	0.00	
1,100.00	11.82	217.71	1,090.26	-86.11	-66.57	108.79	0.00	0.00	
1,200.00	11.82	217.71	1,188.14	-102.31	-79.09	129.27	0.00	0.00	
1,300.00	11.82	217.71	1,286.02	-118.52	-91.62	149.74	0.00	0.00	
1,400.00	11.82	217.71	1,383.90	-134.72	-104.15	170.21	0.00	0.00	
1,500.00	11.82	217.71	1,481.78	-150.93	-116.67	190.69	0.00	0.00	
1,600.00	11.82	217.71	1,579.66	-167.13	-129.20	211.16	0.00	0.00	
1,700.00	11.82	217.71	1,677.54	-183.34	-141.73	231.63	0.00	0.00	
1,800.00	11.82	217.71	1,775.42	-199.54	-154.25	252.11	0.00	0.00	
1,900.00	11.82	217.71	1,873.30	-215.75	-166.78	272.58	0.00	0.00	
2,000.00	11.82	217.71	1,971.18	-231.95	-179.31	293.06	0.00	0.00	
2,100.00	11.82	217.71	2,069.06	-248.16	-191.84	313.53	0.00	0.00	
2,200.00	11.82	217.71	2,166.94	-264.36	-204.36	334.00	0.00	0.00	
2,300.00	11.82	217.71	2,264.82	-280.56	-216.89	354.48	0.00	0.00	
2,400.00	11.82	217.71	2,362.70	-296.77	-229.42	374.95	0.00	0.00	
2,500.00	11.82	217.71	2,460.58	-312.97	-241.94	395.42	0.00	0.00	
2,600.00	11.82	217.71	2,558.46	-329.18	-254.47	415.90	0.00	0.00	
2,700.00	11.82	217.71	2,656.34	-345.38	-267.00	436.37	0.00	0.00	
2,800.00	11.82	217.71	2,754.22	-361.59	-279.52	456.84	0.00	0.00	
2,900.00	11.82	217.71	2,852.10	-377.79	-292.05	477.32	0.00	0.00	
3,000.00	11.82	217.71	2,949.98	-394.00	-304.58	497.79	0.00	0.00	
3,100.00	11.82	217.71	3,047.86	-410.20	-317.10	518.27	0.00	0.00	
3,200.00	11.82	217.71	3,145.74	-426.41	-329.63	538.74	0.00	0.00	
3,239.09	11.82	217.71	3,184.00	-432.74	-334.53	546.74	0.00	0.00	WASATCH.NPC (TVD)
3,300.00	11.82	217.71	3,243.62	-442.61	-342.16	559.21	0.00	0.00	
3,400.00	11.82	217.71	3,341.50	-458.82	-354.68	579.69	0.00	0.00	
3,500.00	11.82	217.71	3,439.38	-475.02	-367.21	600.16	0.00	0.00	
3,600.00	11.82	217.71	3,537.26	-491.23	-379.74	620.63	0.00	0.00	
3,700.00	11.82	217.71	3,635.14	-507.43	-392.27	641.11	0.00	0.00	
3,800.00	11.82	217.71	3,733.02	-523.64	-404.79	661.58	0.00	0.00	
3,900.00	11.82	217.71	3,830.90	-539.84	-417.32	682.05	0.00	0.00	
4,000.00	11.82	217.71	3,928.78	-556.04	-429.85	702.53	0.00	0.00	
4,100.00	11.82	217.71	4,026.66	-572.25	-442.37	723.00	0.00	0.00	
4,200.00	11.82	217.71	4,124.54	-588.45	-454.90	743.47	0.00	0.00	
4,300.00	11.82	217.71	4,222.42	-604.66	-467.43	763.95	0.00	0.00	
4,400.00	11.82	217.71	4,320.30	-620.86	-479.95	784.42	0.00	0.00	
4,500.00	11.82	217.71	4,418.18	-637.07	-492.48	804.90	0.00	0.00	
4,600.00	11.82	217.71	4,516.06	-653.27	-505.01	825.37	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 15B-14_496 - Slot WN_6
<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 15B-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
4,700.00	11.82	217.71	4,613.94	-669.48	-517.53	845.84	0.00	0.00	
4,800.00	11.82	217.71	4,711.82	-685.68	-530.06	866.32	0.00	0.00	
4,900.00	11.82	217.71	4,809.70	-701.89	-542.59	886.79	0.00	0.00	
5,000.00	11.82	217.71	4,907.58	-718.09	-555.12	907.26	0.00	0.00	
5,100.00	11.82	217.71	5,005.46	-734.30	-567.64	927.74	0.00	0.00	
5,200.00	11.82	217.71	5,103.34	-750.50	-580.17	948.21	0.00	0.00	
5,300.00	11.82	217.71	5,201.22	-766.71	-592.70	968.68	0.00	0.00	
5,400.00	11.82	217.71	5,299.10	-782.91	-605.22	989.16	0.00	0.00	
5,500.00	11.82	217.71	5,396.98	-799.11	-617.75	1,009.63	0.00	0.00	
5,600.00	11.82	217.71	5,494.86	-815.32	-630.28	1,030.10	0.00	0.00	
5,691.07	11.82	217.71	5,584.00	-830.08	-641.69	1,048.75	0.00	0.00	WASATCH_G.NPC (TVD)
5,700.00	11.82	217.71	5,592.74	-831.52	-642.80	1,050.58	0.00	0.00	
5,800.00	11.82	217.71	5,690.62	-847.73	-655.33	1,071.05	0.00	0.00	
5,900.00	11.82	217.71	5,788.50	-863.93	-667.86	1,091.53	0.00	0.00	
6,000.00	11.82	217.71	5,886.38	-880.14	-680.38	1,112.00	0.00	0.00	
6,100.00	11.82	217.71	5,984.26	-896.34	-692.91	1,132.47	0.00	0.00	
6,200.00	11.82	217.71	6,082.14	-912.55	-705.44	1,152.95	0.00	0.00	
6,262.18	11.82	217.71	6,143.00	-922.62	-713.23	1,165.68	0.00	0.00	FORT_UNION.NPC (TVD)
6,300.00	11.82	217.71	6,180.02	-928.75	-717.96	1,173.42	0.00	0.00	
6,400.00	11.82	217.71	6,277.90	-944.96	-730.49	1,193.89	0.00	0.00	
6,500.00	11.82	217.71	6,375.78	-961.16	-743.02	1,214.37	0.00	0.00	
6,600.00	11.82	217.71	6,473.66	-977.37	-755.55	1,234.84	0.00	0.00	
6,700.00	11.82	217.71	6,571.54	-993.57	-768.07	1,255.31	0.00	0.00	
6,800.00	11.82	217.71	6,669.42	-1,009.78	-780.60	1,275.79	0.00	0.00	
6,900.00	11.82	217.71	6,767.30	-1,025.98	-793.13	1,296.26	0.00	0.00	
7,000.00	11.82	217.71	6,865.18	-1,042.19	-805.65	1,316.74	0.00	0.00	
7,100.00	11.82	217.71	6,963.06	-1,058.39	-818.18	1,337.21	0.00	0.00	
7,200.00	11.82	217.71	7,060.94	-1,074.59	-830.71	1,357.68	0.00	0.00	
7,300.00	11.82	217.71	7,158.82	-1,090.80	-843.23	1,378.16	0.00	0.00	
7,400.00	11.82	217.71	7,256.70	-1,107.00	-855.76	1,398.63	0.00	0.00	
7,500.00	11.82	217.71	7,354.58	-1,123.21	-868.29	1,419.10	0.00	0.00	
7,600.00	11.82	217.71	7,452.46	-1,139.41	-880.81	1,439.58	0.00	0.00	
7,700.00	11.82	217.71	7,550.34	-1,155.62	-893.34	1,460.05	0.00	0.00	
7,800.00	11.82	217.71	7,648.22	-1,171.82	-905.87	1,480.52	0.00	0.00	
7,900.00	11.82	217.71	7,746.10	-1,188.03	-918.39	1,501.00	0.00	0.00	
8,000.00	11.82	217.71	7,843.98	-1,204.23	-930.92	1,521.47	0.00	0.00	
8,100.00	11.82	217.71	7,941.86	-1,220.44	-943.45	1,541.94	0.00	0.00	
8,200.00	11.82	217.71	8,039.74	-1,236.64	-955.98	1,562.42	0.00	0.00	
8,200.09	11.82	217.71	8,039.82	-1,236.66	-955.99	1,562.44	0.00	0.00	Start Drop -3.00
8,231.89	10.86	217.71	8,071.00	-1,241.60	-959.81	1,568.69	3.00	-3.00	OHIO_CREEK.NPC
8,300.00	8.82	217.71	8,138.11	-1,250.82	-966.93	1,580.33	3.00	-3.00	
8,400.00	5.82	217.71	8,237.28	-1,260.90	-974.73	1,593.06	3.00	-3.00	
8,500.00	2.82	217.71	8,336.98	-1,266.86	-979.33	1,600.59	3.00	-3.00	
8,594.05	0.00	0.00	8,431.00	-1,268.69	-980.75	1,602.91	3.00	-3.00	Start DLS 2.00 TFO 250.00
8,600.00	0.12	250.00	8,436.95	-1,268.69	-980.76	1,602.91	2.00	2.00	
8,644.06	1.00	250.00	8,481.00	-1,268.84	-981.16	1,603.28	2.00	2.00	WILLIAMS_FORK.NPC (TVD)
8,665.82	1.44	250.00	8,502.76	-1,269.00	-981.59	1,603.68	2.00	2.00	Start 3575.36 hold at 8665.82 MD
8,694.07	1.44	250.00	8,531.00	-1,269.24	-982.26	1,604.29	0.00	0.00	TOP_GAS.NPC (TVD)
8,700.00	1.44	250.00	8,536.93	-1,269.29	-982.40	1,604.42	0.00	0.00	
8,800.00	1.44	250.00	8,636.90	-1,270.15	-984.75	1,606.57	0.00	0.00	
8,900.00	1.44	250.00	8,736.86	-1,271.00	-987.11	1,608.73	0.00	0.00	
9,000.00	1.44	250.00	8,836.83	-1,271.86	-989.46	1,610.88	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well FED 15B-14_496 - Slot WN_6
<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 15B-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
9,100.00	1.44	250.00	8,936.80	-1,272.72	-991.81	1,613.04	0.00	0.00	
9,200.00	1.44	250.00	9,036.77	-1,273.57	-994.17	1,615.19	0.00	0.00	
9,300.00	1.44	250.00	9,136.74	-1,274.43	-996.52	1,617.35	0.00	0.00	
9,400.00	1.44	250.00	9,236.71	-1,275.29	-998.88	1,619.50	0.00	0.00	
9,500.00	1.44	250.00	9,336.68	-1,276.14	-1,001.23	1,621.66	0.00	0.00	
9,600.00	1.44	250.00	9,436.64	-1,277.00	-1,003.58	1,623.81	0.00	0.00	
9,700.00	1.44	250.00	9,536.61	-1,277.86	-1,005.94	1,625.97	0.00	0.00	
9,800.00	1.44	250.00	9,636.58	-1,278.71	-1,008.29	1,628.12	0.00	0.00	
9,900.00	1.44	250.00	9,736.55	-1,279.57	-1,010.64	1,630.28	0.00	0.00	
10,000.00	1.44	250.00	9,836.52	-1,280.43	-1,013.00	1,632.43	0.00	0.00	
10,100.00	1.44	250.00	9,936.49	-1,281.28	-1,015.35	1,634.59	0.00	0.00	
10,200.00	1.44	250.00	10,036.46	-1,282.14	-1,017.71	1,636.74	0.00	0.00	
10,300.00	1.44	250.00	10,136.43	-1,283.00	-1,020.06	1,638.90	0.00	0.00	
10,400.00	1.44	250.00	10,236.39	-1,283.85	-1,022.41	1,641.05	0.00	0.00	
10,500.00	1.44	250.00	10,336.36	-1,284.71	-1,024.77	1,643.21	0.00	0.00	
10,600.00	1.44	250.00	10,436.33	-1,285.57	-1,027.12	1,645.36	0.00	0.00	
10,700.00	1.44	250.00	10,536.30	-1,286.42	-1,029.47	1,647.52	0.00	0.00	
10,800.00	1.44	250.00	10,636.27	-1,287.28	-1,031.83	1,649.67	0.00	0.00	
10,900.00	1.44	250.00	10,736.24	-1,288.14	-1,034.18	1,651.83	0.00	0.00	
11,000.00	1.44	250.00	10,836.21	-1,288.99	-1,036.54	1,653.98	0.00	0.00	
11,100.00	1.44	250.00	10,936.17	-1,289.85	-1,038.89	1,656.14	0.00	0.00	
11,191.85	1.44	250.00	11,028.00	-1,290.64	-1,041.05	1,658.12	0.00	0.00	CAMEO.NPC (TVD)
11,200.00	1.44	250.00	11,036.14	-1,290.71	-1,041.24	1,658.29	0.00	0.00	
11,300.00	1.44	250.00	11,136.11	-1,291.56	-1,043.60	1,660.45	0.00	0.00	
11,400.00	1.44	250.00	11,236.08	-1,292.42	-1,045.95	1,662.60	0.00	0.00	
11,500.00	1.44	250.00	11,336.05	-1,293.28	-1,048.30	1,664.76	0.00	0.00	
11,600.00	1.44	250.00	11,436.02	-1,294.13	-1,050.66	1,666.91	0.00	0.00	
11,700.00	1.44	250.00	11,535.99	-1,294.99	-1,053.01	1,669.07	0.00	0.00	
11,800.00	1.44	250.00	11,635.95	-1,295.85	-1,055.37	1,671.22	0.00	0.00	
11,900.00	1.44	250.00	11,735.92	-1,296.70	-1,057.72	1,673.38	0.00	0.00	
12,000.00	1.44	250.00	11,835.89	-1,297.56	-1,060.07	1,675.53	0.00	0.00	
12,066.13	1.44	250.00	11,902.00	-1,298.13	-1,061.63	1,676.96	0.00	0.00	ROLLINS.NPC (TVD)
12,100.00	1.44	250.00	11,935.86	-1,298.42	-1,062.43	1,677.69	0.00	0.00	
12,200.00	1.44	250.00	12,035.83	-1,299.27	-1,064.78	1,679.84	0.00	0.00	
12,241.18	1.44	250.00	12,077.00	-1,299.63	-1,065.75	1,680.73	0.00	0.00	TD at 12241.18 - TD.MBL (TVD) - FED 15B-14_

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FED 15B-14_496_PBHL	0.00	0.00	12,077.00	-1,299.63	-1,065.75	14,428,688.10	2,444,904.90	39.697395	-108.140231
- 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 15B-14_496 - Slot WN_6
<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 15B-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 (°)	
3,239.09	3,184.00	WASATCH.NPC (TVD)				
5,691.07	5,584.00	WASATCH_G.NPC (TVD)				
6,262.18	6,143.00	FORT_UNION.NPC (TVD)				
8,231.89	8,071.00	OHIO_CREEK.NPC				
8,644.06	8,481.00	WILLIAMS_FORK.NPC (TVD)				
8,694.07	8,531.00	TOP_GAS.NPC (TVD)				
11,191.85	11,028.00	CAMEO.NPC (TVD)				
12,066.13	11,902.00	ROLLINS.NPC (TVD)				
12,241.18	12,077.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
350.00	350.00	0.00	0.00	Start Build 3.00	
450.00	449.95	-2.07	-1.60	Start 30.00 hold at 450.00 MD	
480.00	479.91	-3.31	-2.56	Start DLS 3.00 TFO -0.01	
773.97	771.14	-33.28	-25.72	Start 7426.12 hold at 773.97 MD	
8,200.09	8,039.82	-1,236.66	-955.99	Start Drop -3.00	
8,594.05	8,431.00	-1,268.69	-980.75	Start DLS 2.00 TFO 250.00	
8,665.82	8,502.76	-1,269.00	-981.59	Start 3575.36 hold at 8665.82 MD	
12,241.18	12,077.00	-1,299.63	-1,065.75	TD at 12241.18	