



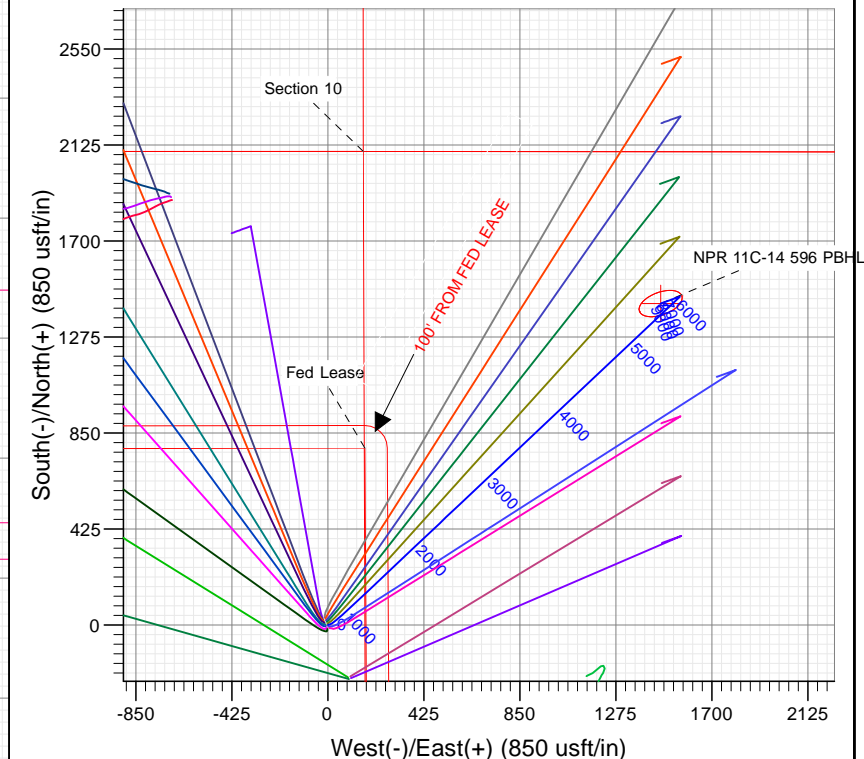
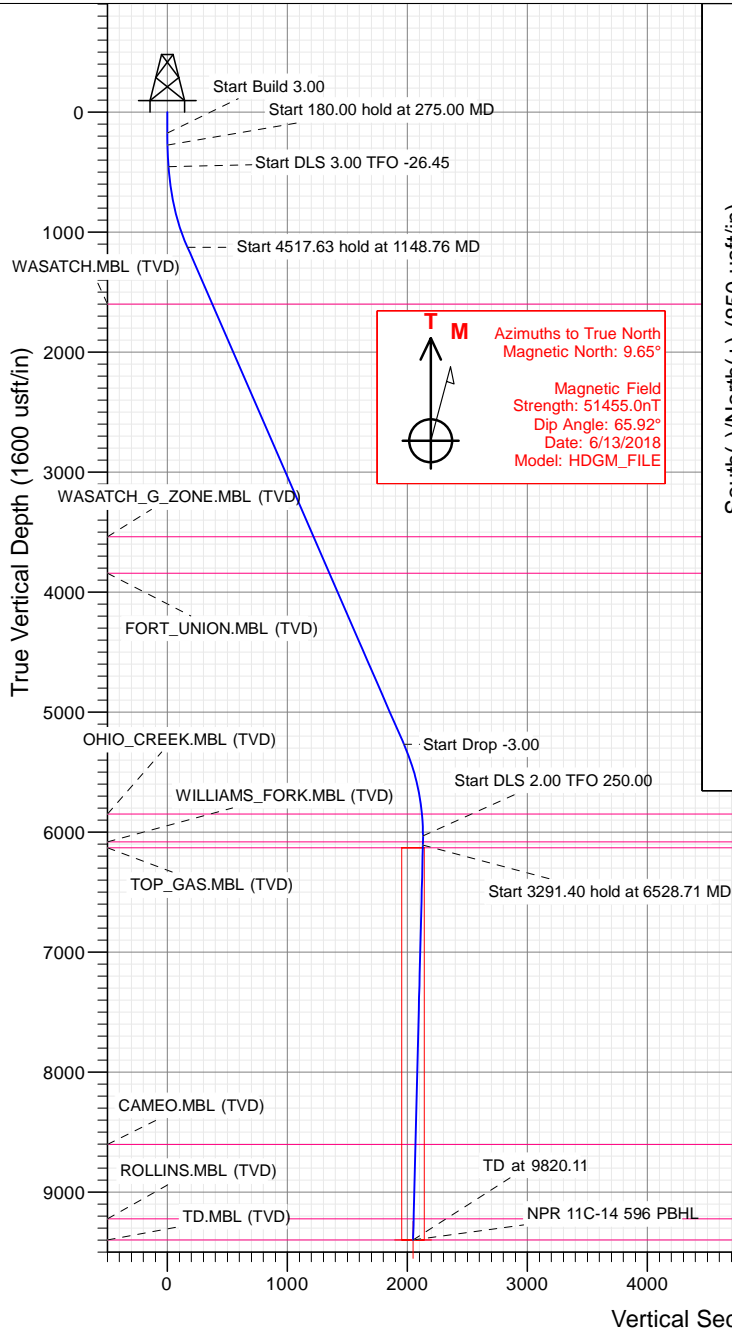
SECTION DETAILS

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	175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	
3	275.00	3.00	70.00	274.95	0.90	2.46	3.00	70.00	2.39	
4	455.00	3.00	70.00	454.71	4.12	11.31	0.00	0.00	11.00	
5	1148.76	23.54	46.65	1126.54	106.53	130.41	3.00	-26.45	167.81	
6	5666.39	23.54	46.65	5268.37	1344.80	1442.23	0.00	0.001971	62.12	
7	6450.89	0.00	0.00	6031.00	1453.85	1557.76	3.00	180.0021	30.48	
8	6528.71	1.56	250.00	6108.81	1453.49	1556.77	2.00	250.0021	29.52	
9	9820.11	1.56	250.00	9399.00	1422.92	1472.76	0.00	0.002047	86.18	NPR 11C-14 596 PBHL

PLAN #1
NPR 11C-14 596
GL + KB @ 6459.00usft
Ground Level @ 6429.00
NAD 1927 - Western US
Well NPR 11C-14 596 - Slot NPR 11C-14 596, True North

Project: Garfield County, CO (UTM 12N)
Site: S15-T5S-R96W NPR H15 596 (POD 1)
Well: NPR 11C-14 596
Wellbore: OH
Design: PLAN #1

Type	Target	TD	No Target (Freehand)	Azimuth	Origin	Type	N/S	E/W	From	TVD
				45.99	Slot		0.00	0.00	0.00	
Name				TVD			+N/-S	+E/-W	Latitude	Longitude
NPR 11C-14 596 PBHL				9399.00			1422.92	1472.76	39.620510	-108.140813

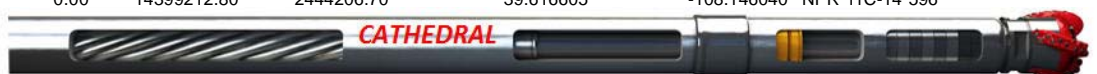


FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1600.00	1665.18	WASATCH.MBL (TVD)
3539.00	3780.11	WASATCH_G_ZONE.MBL (TVD)
3843.00	4111.69	FORT_UNION.MBL (TVD)
5849.00	6268.61	OHIO_CREEK.MBL (TVD)
6081.00	6500.89	WILLIAMS_FORK.MBL (TVD)
6131.00	6550.91	TOP_GAS.MBL (TVD)
8603.00	9023.82	CAMEO.MBL (TVD)
9223.00	9644.05	ROLLINS.MBL (TVD)
9399.00	9820.11	TD.MBL (TVD)

WELL DETAILS: NPR 11C-14 596

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14399212.80	2444206.70	39.616605	-108.146040 NPR 11C-14 596



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 11C-14 596 - Slot NPR 11C-14 596
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 6459.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 6459.00usft
Site:	NPR H15 596 (POD 1)	North Reference:	True
Well:	NPR 11C-14 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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		NPR H15 596 (POD 1)			
Site Position:		Northing:	14,399,246.80 usft	Latitude:	39.616700
From:	Map	Easting:	2,444,190.70 usft	Longitude:	-108.146092
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.82 °

Well	NPR 11C-14 596 - Slot NPR 11C-14 596					
Well Position	+N/-S	0.00 usft	Northing:	14,399,212.80 usft	Latitude:	39.616605
	+E/-W	0.00 usft	Easting:	2,444,206.70 usft	Longitude:	-108.146040
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	6,429.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM_FILE	6/13/2018	9.65	65.92	51,455.00000000

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	45.99

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	
275.00	3.00	70.00	274.95	0.90	2.46	3.00	3.00	0.00	70.00	
455.00	3.00	70.00	454.71	4.12	11.31	0.00	0.00	0.00	0.00	
1,148.76	23.54	46.65	1,126.54	106.53	130.41	3.00	2.96	-3.37	-26.45	
5,666.39	23.54	46.65	5,268.37	1,344.80	1,442.23	0.00	0.00	0.00	0.00	
6,450.89	0.00	0.00	6,031.00	1,453.85	1,557.76	3.00	-3.00	0.00	180.00	
6,528.71	1.56	250.00	6,108.81	1,453.49	1,556.77	2.00	2.00	-141.34	250.00	
9,820.11	1.56	250.00	9,399.00	1,422.92	1,472.76	0.00	0.00	0.00	0.00	NPR 11C-14 596 PBH

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 11C-14 596 - Slot NPR 11C-14 596
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 6459.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 6459.00usft
Site:	NPR H15 596 (POD 1)	North Reference:	True
Well:	NPR 11C-14 596	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 (°/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	
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
200.00	0.75	70.00	200.00	0.06	0.15	0.15	3.00	3.00	
275.00	3.00	70.00	274.95	0.90	2.46	2.39	3.00	3.00	Start 180.00 hold at 275.00 MD
300.00	3.00	70.00	299.92	1.34	3.69	3.59	0.00	0.00	
400.00	3.00	70.00	399.78	3.13	8.61	8.37	0.00	0.00	
455.00	3.00	70.00	454.71	4.12	11.31	11.00	0.00	0.00	Start DLS 3.00 TFO -26.45
500.00	4.25	61.86	499.62	5.31	13.89	13.68	3.00	2.78	
600.00	7.16	54.28	599.11	10.70	22.22	23.41	3.00	2.91	
700.00	10.12	51.09	697.97	19.86	34.12	38.34	3.00	2.96	
800.00	13.10	49.33	795.91	32.77	49.56	58.41	3.00	2.98	
900.00	16.09	48.22	892.67	49.39	68.50	83.58	3.00	2.99	
1,000.00	19.08	47.45	987.99	69.68	90.88	113.78	3.00	2.99	
1,100.00	22.07	46.88	1,081.59	93.59	116.64	148.91	3.00	2.99	
1,148.76	23.54	46.65	1,126.54	106.53	130.41	167.81	3.00	2.99	Start 4517.63 hold at 1148.76 MD
1,200.00	23.54	46.65	1,173.52	120.58	145.29	188.27	0.00	0.00	
1,300.00	23.54	46.65	1,265.20	147.99	174.33	228.20	0.00	0.00	
1,400.00	23.54	46.65	1,356.88	175.40	203.36	268.13	0.00	0.00	
1,500.00	23.54	46.65	1,448.56	202.81	232.40	308.05	0.00	0.00	
1,600.00	23.54	46.65	1,540.25	230.22	261.44	347.98	0.00	0.00	
1,665.18	23.54	46.65	1,600.00	248.08	280.37	374.01	0.00	0.00	WASATCH.MBL (TVD)
1,700.00	23.54	46.65	1,631.93	257.63	290.48	387.91	0.00	0.00	
1,800.00	23.54	46.65	1,723.61	285.04	319.52	427.84	0.00	0.00	
1,900.00	23.54	46.65	1,815.29	312.45	348.55	467.77	0.00	0.00	
2,000.00	23.54	46.65	1,906.97	339.86	377.59	507.70	0.00	0.00	
2,100.00	23.54	46.65	1,998.65	367.27	406.63	547.62	0.00	0.00	
2,200.00	23.54	46.65	2,090.33	394.68	435.67	587.55	0.00	0.00	
2,300.00	23.54	46.65	2,182.02	422.09	464.71	627.48	0.00	0.00	
2,400.00	23.54	46.65	2,273.70	449.50	493.74	667.41	0.00	0.00	
2,500.00	23.54	46.65	2,365.38	476.90	522.78	707.34	0.00	0.00	
2,600.00	23.54	46.65	2,457.06	504.31	551.82	747.27	0.00	0.00	
2,700.00	23.54	46.65	2,548.74	531.72	580.86	787.19	0.00	0.00	
2,800.00	23.54	46.65	2,640.42	559.13	609.89	827.12	0.00	0.00	
2,900.00	23.54	46.65	2,732.11	586.54	638.93	867.05	0.00	0.00	
3,000.00	23.54	46.65	2,823.79	613.95	667.97	906.98	0.00	0.00	
3,100.00	23.54	46.65	2,915.47	641.36	697.01	946.91	0.00	0.00	
3,200.00	23.54	46.65	3,007.15	668.77	726.05	986.84	0.00	0.00	
3,300.00	23.54	46.65	3,098.83	696.18	755.08	1,026.76	0.00	0.00	
3,400.00	23.54	46.65	3,190.51	723.59	784.12	1,066.69	0.00	0.00	
3,500.00	23.54	46.65	3,282.20	751.00	813.16	1,106.62	0.00	0.00	
3,600.00	23.54	46.65	3,373.88	778.41	842.20	1,146.55	0.00	0.00	
3,700.00	23.54	46.65	3,465.56	805.82	871.23	1,186.48	0.00	0.00	
3,780.11	23.54	46.65	3,539.00	827.78	894.49	1,218.46	0.00	0.00	WASATCH_G_ZONE.MBL (TVD)
3,800.00	23.54	46.65	3,557.24	833.23	900.27	1,226.41	0.00	0.00	
3,900.00	23.54	46.65	3,648.92	860.64	929.31	1,266.33	0.00	0.00	
4,000.00	23.54	46.65	3,740.60	888.05	958.35	1,306.26	0.00	0.00	
4,100.00	23.54	46.65	3,832.28	915.46	987.39	1,346.19	0.00	0.00	
4,111.69	23.54	46.65	3,843.00	918.66	990.78	1,350.86	0.00	0.00	FORT_UNION.MBL (TVD)
4,200.00	23.54	46.65	3,923.97	942.87	1,016.42	1,386.12	0.00	0.00	
4,300.00	23.54	46.65	4,015.65	970.28	1,045.46	1,426.05	0.00	0.00	
4,400.00	23.54	46.65	4,107.33	997.69	1,074.50	1,465.98	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 11C-14 596 - Slot NPR 11C-14 596
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 6459.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 6459.00usft
Site:	NPR H15 596 (POD 1)	North Reference:	True
Well:	NPR 11C-14 596	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 (°/100u)	Comments / Formations
4,500.00	23.54	46.65	4,199.01	1,025.10	1,103.54	1,505.90	0.00	0.00	
4,600.00	23.54	46.65	4,290.69	1,052.51	1,132.57	1,545.83	0.00	0.00	
4,700.00	23.54	46.65	4,382.37	1,079.92	1,161.61	1,585.76	0.00	0.00	
4,800.00	23.54	46.65	4,474.06	1,107.33	1,190.65	1,625.69	0.00	0.00	
4,900.00	23.54	46.65	4,565.74	1,134.74	1,219.69	1,665.62	0.00	0.00	
5,000.00	23.54	46.65	4,657.42	1,162.15	1,248.73	1,705.55	0.00	0.00	
5,100.00	23.54	46.65	4,749.10	1,189.56	1,277.76	1,745.47	0.00	0.00	
5,200.00	23.54	46.65	4,840.78	1,216.97	1,306.80	1,785.40	0.00	0.00	
5,300.00	23.54	46.65	4,932.46	1,244.38	1,335.84	1,825.33	0.00	0.00	
5,400.00	23.54	46.65	5,024.15	1,271.79	1,364.88	1,865.26	0.00	0.00	
5,500.00	23.54	46.65	5,115.83	1,299.20	1,393.91	1,905.19	0.00	0.00	
5,600.00	23.54	46.65	5,207.51	1,326.61	1,422.95	1,945.12	0.00	0.00	
5,666.39	23.54	46.65	5,268.37	1,344.80	1,442.23	1,971.62	0.00	0.00	Start Drop -3.00
5,700.00	22.53	46.65	5,299.31	1,353.83	1,451.79	1,984.77	3.00	-3.00	
5,800.00	19.53	46.65	5,392.64	1,378.46	1,477.88	2,020.65	3.00	-3.00	
5,900.00	16.53	46.65	5,487.72	1,399.70	1,500.38	2,051.59	3.00	-3.00	
6,000.00	13.53	46.65	5,584.29	1,417.49	1,519.23	2,077.51	3.00	-3.00	
6,100.00	10.53	46.65	5,682.08	1,431.79	1,534.39	2,098.34	3.00	-3.00	
6,200.00	7.53	46.65	5,780.83	1,442.56	1,545.79	2,114.03	3.00	-3.00	
6,268.61	5.47	46.65	5,849.00	1,447.89	1,551.44	2,121.79	3.00	-3.00	OHIO_CREEK.MBL (TVD)
6,300.00	4.53	46.65	5,880.27	1,449.77	1,553.43	2,124.53	3.00	-3.00	
6,400.00	1.53	46.65	5,980.12	1,453.39	1,557.27	2,129.80	3.00	-3.00	
6,450.89	0.00	0.00	6,031.00	1,453.85	1,557.76	2,130.48	3.00	-3.00	Start DLS 2.00 TFO 250.00
6,500.00	0.98	250.00	6,080.11	1,453.71	1,557.36	2,130.10	2.00	2.00	
6,500.89	1.00	250.00	6,081.00	1,453.71	1,557.35	2,130.08	2.00	2.00	WILLIAMS_FORK.MBL (TVD)
6,528.71	1.56	250.00	6,108.81	1,453.49	1,556.77	2,129.52	2.00	2.00	Start 3291.40 hold at 6528.71 MD
6,550.91	1.56	250.00	6,131.00	1,453.29	1,556.20	2,128.97	0.00	0.00	TOP_GAS.MBL (TVD)
6,600.00	1.56	250.00	6,180.07	1,452.83	1,554.95	2,127.75	0.00	0.00	
6,700.00	1.56	250.00	6,280.04	1,451.90	1,552.39	2,125.27	0.00	0.00	
6,800.00	1.56	250.00	6,380.00	1,450.97	1,549.84	2,122.79	0.00	0.00	
6,900.00	1.56	250.00	6,479.96	1,450.05	1,547.29	2,120.31	0.00	0.00	
7,000.00	1.56	250.00	6,579.93	1,449.12	1,544.74	2,117.82	0.00	0.00	
7,100.00	1.56	250.00	6,679.89	1,448.19	1,542.18	2,115.34	0.00	0.00	
7,200.00	1.56	250.00	6,779.85	1,447.26	1,539.63	2,112.86	0.00	0.00	
7,300.00	1.56	250.00	6,879.82	1,446.33	1,537.08	2,110.38	0.00	0.00	
7,400.00	1.56	250.00	6,979.78	1,445.40	1,534.53	2,107.90	0.00	0.00	
7,500.00	1.56	250.00	7,079.74	1,444.47	1,531.98	2,105.42	0.00	0.00	
7,600.00	1.56	250.00	7,179.71	1,443.54	1,529.42	2,102.94	0.00	0.00	
7,700.00	1.56	250.00	7,279.67	1,442.61	1,526.87	2,100.46	0.00	0.00	
7,800.00	1.56	250.00	7,379.63	1,441.69	1,524.32	2,097.98	0.00	0.00	
7,900.00	1.56	250.00	7,479.59	1,440.76	1,521.77	2,095.50	0.00	0.00	
8,000.00	1.56	250.00	7,579.56	1,439.83	1,519.21	2,093.01	0.00	0.00	
8,100.00	1.56	250.00	7,679.52	1,438.90	1,516.66	2,090.53	0.00	0.00	
8,200.00	1.56	250.00	7,779.48	1,437.97	1,514.11	2,088.05	0.00	0.00	
8,300.00	1.56	250.00	7,879.45	1,437.04	1,511.56	2,085.57	0.00	0.00	
8,400.00	1.56	250.00	7,979.41	1,436.11	1,509.00	2,083.09	0.00	0.00	
8,500.00	1.56	250.00	8,079.37	1,435.18	1,506.45	2,080.61	0.00	0.00	
8,600.00	1.56	250.00	8,179.34	1,434.26	1,503.90	2,078.13	0.00	0.00	
8,700.00	1.56	250.00	8,279.30	1,433.33	1,501.35	2,075.65	0.00	0.00	
8,800.00	1.56	250.00	8,379.26	1,432.40	1,498.79	2,073.17	0.00	0.00	
8,900.00	1.56	250.00	8,479.23	1,431.47	1,496.24	2,070.69	0.00	0.00	
9,000.00	1.56	250.00	8,579.19	1,430.54	1,493.69	2,068.20	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well NPR 11C-14 596 - Slot NPR 11C-14 596
Company:	Caerus Oil & Gas	TVD Reference:	GL + KB @ 6459.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	GL + KB @ 6459.00usft
Site:	NPR H15 596 (POD 1)	North Reference:	True
Well:	NPR 11C-14 596	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 (°/100u)	Comments / Formations
9,023.82	1.56	250.00	8,603.00	1,430.32	1,493.08	2,067.61	0.00	0.00	CAMEO.MBL (TVD)
9,100.00	1.56	250.00	8,679.15	1,429.61	1,491.14	2,065.72	0.00	0.00	
9,200.00	1.56	250.00	8,779.12	1,428.68	1,488.58	2,063.24	0.00	0.00	
9,300.00	1.56	250.00	8,879.08	1,427.75	1,486.03	2,060.76	0.00	0.00	
9,400.00	1.56	250.00	8,979.04	1,426.82	1,483.48	2,058.28	0.00	0.00	
9,500.00	1.56	250.00	9,079.00	1,425.90	1,480.93	2,055.80	0.00	0.00	
9,600.00	1.56	250.00	9,178.97	1,424.97	1,478.37	2,053.32	0.00	0.00	
9,644.05	1.56	250.00	9,223.00	1,424.56	1,477.25	2,052.23	0.00	0.00	ROLLINS.MBL (TVD)
9,700.00	1.56	250.00	9,278.93	1,424.04	1,475.82	2,050.84	0.00	0.00	
9,800.00	1.56	250.00	9,378.89	1,423.11	1,473.27	2,048.36	0.00	0.00	
9,820.11	1.56	250.00	9,399.00	1,422.92	1,472.76	2,047.86	0.00	0.00	TD at 9820.11 - TD.MBL (TVD) - NPR 11C-14 5

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
NPR 11C-14 596 PBHL	- plan hits target center	0.00	0.00	9,399.00	1,422.92	1,472.76	14,400,681.80	2,445,633.50	39.620510 -108.140813
	- Ellipse (radii L100.00 W50.00 on 250.00 azi)								

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,665.18	1,600.00	WASATCH.MBL (TVD)				
3,780.11	3,539.00	WASATCH_G_ZONE.MBL (TVD)				
4,111.69	3,843.00	FORT_UNION.MBL (TVD)				
6,268.61	5,849.00	OHIO_CREEK.MBL (TVD)				
6,500.89	6,081.00	WILLIAMS_FORK.MBL (TVD)				
6,550.91	6,131.00	TOP_GAS.MBL (TVD)				
9,023.82	8,603.00	CAMEO.MBL (TVD)				
9,644.05	9,223.00	ROLLINS.MBL (TVD)				
9,820.11	9,399.00	TD.MBL (TVD)				

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	Start Build 3.00
275.00	274.95	0.90	2.46	Start 180.00 hold at 275.00 MD
455.00	454.71	4.12	11.31	Start DLS 3.00 TFO -26.45
1,148.76	1,126.54	106.53	130.41	Start 4517.63 hold at 1148.76 MD
5,666.39	5,268.37	1,344.80	1,442.23	Start Drop -3.00
6,450.89	6,031.00	1,453.85	1,557.76	Start DLS 2.00 TFO 250.00
6,528.71	6,108.81	1,453.49	1,556.77	Start 3291.40 hold at 6528.71 MD
9,820.11	9,399.00	1,422.92	1,472.76	TD at 9820.11