



NPR 12A-9 596  
 Plan #1 (1-15-18)  
 8:33, January 18 2018

Azimuths to True North  
 Magnetic North: 9.63°

Magnetic Field  
 Strength: 51503.2snT  
 Dip Angle: 65.85°  
 Date: 1/18/2018  
 Model: HDGM

**DESIGN TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SHL 1751'FNL, 2340'FWL, SEC.9	1.0	0.0	0.0	39.632032	-108.174588	Point
BHL 1516'FNL, 1310'FWL, SEC.9	10007.0	234.2	-1030.1	39.632675	-108.178245	Ellipse (Radii: L200.0 W100.0)

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	898.0	8.94	288.99	896.8	7.6	-21.9	3.00	288.99	23.1	
4	6453.9	8.94	288.99	6385.2	288.5	-838.4	0.00	0.00	881.5	
5	6751.9	0.00	0.00	6682.0	296.1	-860.3	3.00	180.00	904.5	
6	7079.1	3.27	250.00	7009.0	292.9	-869.1	1.00	250.00	912.4	
7	10082.0	3.27	250.00	10007.0	234.2	-1030.1	0.00	0.00	1056.4	BHL 1516'FNL, 1310'FWL, SEC.9



## Directional

### **Caerus Oil and Gas LLC**

**SEC.9-T5S-R96W**

**NPR G09 596 Pad Sec.9-T5S-R96W**

**NPR 12A-9 596**

**Wellbore #1**

**Plan: Plan #1 (1-15-18)**

### **Standard Planning Report**

**18 January, 2018**

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 12A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (1-15-18)		

<b>Project</b>	SEC.9-T5S-R96W, Garfield County, CO		
<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		Using Well Reference Point
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		Using geodetic scale factor

<b>Site</b>	NPR G09 596 Pad Sec.9-T5S-R96W				
<b>Site Position:</b>	<b>Northing:</b>	14,404,590.33 usft	<b>Latitude:</b>	39.632067	
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,436,015.01 usft	<b>Longitude:</b>	-108.174492
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.80 °

<b>Well</b>	NPR 12A-9 596					
<b>Well Position</b>	<b>+N/-S</b>	-12.7 ft	<b>Northing:</b>	14,404,576.73 usft	<b>Latitude:</b>	39.632032
	<b>+E/-W</b>	-27.1 ft	<b>Easting:</b>	2,435,988.32 usft	<b>Longitude:</b>	-108.174588
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	0.0 ft	<b>Ground Level:</b>	7,640.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	1/18/2018	9.63	65.85	51,503

<b>Design</b>	Plan #1 (1-15-18)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	282.81

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
898.0	8.94	288.99	896.8	7.6	-21.9	3.00	3.00	0.00	288.99	
6,453.9	8.94	288.99	6,385.2	288.5	-838.4	0.00	0.00	0.00	0.00	
6,751.9	0.00	0.00	6,682.0	296.1	-860.3	3.00	-3.00	0.00	180.00	
7,079.1	3.27	250.00	7,009.0	292.9	-869.1	1.00	1.00	-33.62	250.00	
10,082.0	3.27	250.00	10,007.0	234.2	-1,030.1	0.00	0.00	0.00	0.00	BHL 1516'FNL, 1310'

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 12A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (1-15-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>SHL 1751'FNL, 2340'FWL, SEC.9</b>										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	3.00	288.99	700.0	0.9	-2.5	2.6	3.00	3.00	0.00	
800.0	6.00	288.99	799.6	3.4	-9.9	10.4	3.00	3.00	0.00	
898.0	8.94	288.99	896.8	7.6	-21.9	23.1	3.00	3.00	0.00	
900.0	8.94	288.99	898.8	7.7	-22.2	23.4	0.00	0.00	0.00	
1,000.0	8.94	288.99	997.6	12.7	-36.9	38.8	0.00	0.00	0.00	
1,100.0	8.94	288.99	1,096.3	17.8	-51.6	54.3	0.00	0.00	0.00	
1,200.0	8.94	288.99	1,195.1	22.8	-66.3	69.7	0.00	0.00	0.00	
1,300.0	8.94	288.99	1,293.9	27.9	-81.0	85.2	0.00	0.00	0.00	
1,400.0	8.94	288.99	1,392.7	32.9	-95.7	100.6	0.00	0.00	0.00	
1,500.0	8.94	288.99	1,491.5	38.0	-110.4	116.1	0.00	0.00	0.00	
1,600.0	8.94	288.99	1,590.3	43.1	-125.1	131.5	0.00	0.00	0.00	
1,700.0	8.94	288.99	1,689.0	48.1	-139.8	147.0	0.00	0.00	0.00	
1,800.0	8.94	288.99	1,787.8	53.2	-154.5	162.4	0.00	0.00	0.00	
1,900.0	8.94	288.99	1,886.6	58.2	-169.2	177.9	0.00	0.00	0.00	
1,996.6	8.94	288.99	1,982.0	63.1	-183.4	192.8	0.00	0.00	0.00	
<b>WASATCH.MBL</b>										
2,000.0	8.94	288.99	1,985.4	63.3	-183.9	193.3	0.00	0.00	0.00	
2,100.0	8.94	288.99	2,084.2	68.3	-198.6	208.8	0.00	0.00	0.00	
2,200.0	8.94	288.99	2,183.0	73.4	-213.3	224.2	0.00	0.00	0.00	
2,300.0	8.94	288.99	2,281.8	78.5	-228.0	239.7	0.00	0.00	0.00	
2,400.0	8.94	288.99	2,380.5	83.5	-242.7	255.1	0.00	0.00	0.00	
2,500.0	8.94	288.99	2,479.3	88.6	-257.3	270.6	0.00	0.00	0.00	
2,520.9	8.94	288.99	2,500.0	89.6	-260.4	273.8	0.00	0.00	0.00	
<b>9 5/8"</b>										
2,600.0	8.94	288.99	2,578.1	93.6	-272.0	286.0	0.00	0.00	0.00	
2,700.0	8.94	288.99	2,676.9	98.7	-286.7	301.5	0.00	0.00	0.00	
2,800.0	8.94	288.99	2,775.7	103.7	-301.4	316.9	0.00	0.00	0.00	
2,900.0	8.94	288.99	2,874.5	108.8	-316.1	332.4	0.00	0.00	0.00	
3,000.0	8.94	288.99	2,973.3	113.9	-330.8	347.8	0.00	0.00	0.00	
3,100.0	8.94	288.99	3,072.0	118.9	-345.5	363.3	0.00	0.00	0.00	
3,200.0	8.94	288.99	3,170.8	124.0	-360.2	378.7	0.00	0.00	0.00	
3,300.0	8.94	288.99	3,269.6	129.0	-374.9	394.2	0.00	0.00	0.00	
3,400.0	8.94	288.99	3,368.4	134.1	-389.6	409.6	0.00	0.00	0.00	
3,500.0	8.94	288.99	3,467.2	139.1	-404.3	425.1	0.00	0.00	0.00	
3,600.0	8.94	288.99	3,566.0	144.2	-419.0	440.5	0.00	0.00	0.00	
3,700.0	8.94	288.99	3,664.8	149.3	-433.7	456.0	0.00	0.00	0.00	
3,800.0	8.94	288.99	3,763.5	154.3	-448.4	471.4	0.00	0.00	0.00	
3,900.0	8.94	288.99	3,862.3	159.4	-463.1	486.9	0.00	0.00	0.00	
4,000.0	8.94	288.99	3,961.1	164.4	-477.8	502.3	0.00	0.00	0.00	
4,100.0	8.94	288.99	4,059.9	169.5	-492.5	517.8	0.00	0.00	0.00	
4,200.0	8.94	288.99	4,158.7	174.5	-507.2	533.2	0.00	0.00	0.00	
4,300.0	8.94	288.99	4,257.5	179.6	-521.9	548.7	0.00	0.00	0.00	
4,400.0	8.94	288.99	4,356.2	184.7	-536.5	564.1	0.00	0.00	0.00	
4,426.1	8.94	288.99	4,382.0	186.0	-540.4	568.2	0.00	0.00	0.00	
<b>WASATCH_G_ZONE.MBL</b>										

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 12A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (1-15-18)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.0	8.94	288.99	4,455.0	189.7	-551.2	579.6	0.00	0.00	0.00
4,600.0	8.94	288.99	4,553.8	194.8	-565.9	595.0	0.00	0.00	0.00
4,700.0	8.94	288.99	4,652.6	199.8	-580.6	610.5	0.00	0.00	0.00
4,752.0	8.94	288.99	4,704.0	202.5	-588.3	618.5	0.00	0.00	0.00
<b>FORT_UNION.MBL</b>									
4,800.0	8.94	288.99	4,751.4	204.9	-595.3	625.9	0.00	0.00	0.00
4,900.0	8.94	288.99	4,850.2	209.9	-610.0	641.4	0.00	0.00	0.00
5,000.0	8.94	288.99	4,949.0	215.0	-624.7	656.8	0.00	0.00	0.00
5,100.0	8.94	288.99	5,047.7	220.1	-639.4	672.3	0.00	0.00	0.00
5,200.0	8.94	288.99	5,146.5	225.1	-654.1	687.7	0.00	0.00	0.00
5,300.0	8.94	288.99	5,245.3	230.2	-668.8	703.2	0.00	0.00	0.00
5,400.0	8.94	288.99	5,344.1	235.2	-683.5	718.6	0.00	0.00	0.00
5,500.0	8.94	288.99	5,442.9	240.3	-698.2	734.1	0.00	0.00	0.00
5,600.0	8.94	288.99	5,541.7	245.3	-712.9	749.5	0.00	0.00	0.00
5,700.0	8.94	288.99	5,640.5	250.4	-727.6	765.0	0.00	0.00	0.00
5,800.0	8.94	288.99	5,739.2	255.5	-742.3	780.4	0.00	0.00	0.00
5,900.0	8.94	288.99	5,838.0	260.5	-757.0	795.9	0.00	0.00	0.00
6,000.0	8.94	288.99	5,936.8	265.6	-771.7	811.3	0.00	0.00	0.00
6,100.0	8.94	288.99	6,035.6	270.6	-786.4	826.8	0.00	0.00	0.00
6,200.0	8.94	288.99	6,134.4	275.7	-801.0	842.2	0.00	0.00	0.00
6,300.0	8.94	288.99	6,233.2	280.7	-815.7	857.7	0.00	0.00	0.00
6,400.0	8.94	288.99	6,331.9	285.8	-830.4	873.1	0.00	0.00	0.00
6,453.9	8.94	288.99	6,385.2	288.5	-838.4	881.5	0.00	0.00	0.00
6,500.0	7.56	288.99	6,430.8	290.7	-844.6	888.0	3.00	-3.00	0.00
6,565.6	5.59	288.99	6,496.0	293.1	-851.7	895.5	3.00	-3.00	0.00
<b>OHIO_CREEK.MBL</b>									
6,600.0	4.56	288.99	6,530.2	294.1	-854.6	898.5	3.00	-3.00	0.00
6,700.0	1.56	288.99	6,630.1	295.8	-859.6	903.8	3.00	-3.00	0.00
6,751.9	0.00	0.00	6,682.0	296.1	-860.3	904.5	3.00	-3.00	0.00
6,800.0	0.48	250.00	6,730.1	296.0	-860.5	904.7	1.00	1.00	0.00
6,801.9	0.50	250.00	6,732.0	296.0	-860.5	904.7	1.00	1.00	0.00
<b>WILLIAMS_FORK.MBL</b>									
6,851.9	1.00	250.00	6,782.0	295.8	-861.1	905.3	1.00	1.00	0.00
<b>TOP_GAS.MBL</b>									
6,900.0	1.48	250.00	6,830.1	295.4	-862.1	906.1	1.00	1.00	0.00
7,000.0	2.48	250.00	6,930.0	294.2	-865.3	909.0	1.00	1.00	0.00
7,079.1	3.27	250.00	7,009.0	292.9	-869.1	912.4	1.00	1.00	0.00
7,100.0	3.27	250.00	7,029.9	292.5	-870.2	913.4	0.00	0.00	0.00
7,200.0	3.27	250.00	7,129.7	290.5	-875.6	918.2	0.00	0.00	0.00
7,300.0	3.27	250.00	7,229.5	288.6	-880.9	923.0	0.00	0.00	0.00
7,400.0	3.27	250.00	7,329.4	286.6	-886.3	927.8	0.00	0.00	0.00
7,500.0	3.27	250.00	7,429.2	284.7	-891.7	932.6	0.00	0.00	0.00
7,600.0	3.27	250.00	7,529.1	282.7	-897.0	937.4	0.00	0.00	0.00
7,700.0	3.27	250.00	7,628.9	280.8	-902.4	942.2	0.00	0.00	0.00
7,800.0	3.27	250.00	7,728.7	278.8	-907.7	947.0	0.00	0.00	0.00
7,900.0	3.27	250.00	7,828.6	276.8	-913.1	951.8	0.00	0.00	0.00
8,000.0	3.27	250.00	7,928.4	274.9	-918.5	956.6	0.00	0.00	0.00
8,100.0	3.27	250.00	8,028.2	272.9	-923.8	961.4	0.00	0.00	0.00
8,200.0	3.27	250.00	8,128.1	271.0	-929.2	966.2	0.00	0.00	0.00
8,300.0	3.27	250.00	8,227.9	269.0	-934.6	970.9	0.00	0.00	0.00
8,400.0	3.27	250.00	8,327.8	267.1	-939.9	975.7	0.00	0.00	0.00
8,500.0	3.27	250.00	8,427.6	265.1	-945.3	980.5	0.00	0.00	0.00
8,600.0	3.27	250.00	8,527.4	263.2	-950.6	985.3	0.00	0.00	0.00

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<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 12A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (1-15-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,700.0	3.27	250.00	8,627.3	261.2	-956.0	990.1	0.00	0.00	0.00	
8,800.0	3.27	250.00	8,727.1	259.3	-961.4	994.9	0.00	0.00	0.00	
8,900.0	3.27	250.00	8,826.9	257.3	-966.7	999.7	0.00	0.00	0.00	
9,000.0	3.27	250.00	8,926.8	255.4	-972.1	1,004.5	0.00	0.00	0.00	
9,100.0	3.27	250.00	9,026.6	253.4	-977.5	1,009.3	0.00	0.00	0.00	
9,200.0	3.27	250.00	9,126.4	251.5	-982.8	1,014.1	0.00	0.00	0.00	
9,265.7	3.27	250.00	9,192.0	250.2	-986.4	1,017.3	0.00	0.00	0.00	
<b>CAMEO.MBL</b>										
9,300.0	3.27	250.00	9,226.3	249.5	-988.2	1,018.9	0.00	0.00	0.00	
9,400.0	3.27	250.00	9,326.1	247.6	-993.6	1,023.7	0.00	0.00	0.00	
9,500.0	3.27	250.00	9,426.0	245.6	-998.9	1,028.5	0.00	0.00	0.00	
9,600.0	3.27	250.00	9,525.8	243.7	-1,004.3	1,033.3	0.00	0.00	0.00	
9,700.0	3.27	250.00	9,625.6	241.7	-1,009.6	1,038.1	0.00	0.00	0.00	
9,800.0	3.27	250.00	9,725.5	239.7	-1,015.0	1,042.9	0.00	0.00	0.00	
9,900.0	3.27	250.00	9,825.3	237.8	-1,020.4	1,047.7	0.00	0.00	0.00	
9,906.7	3.27	250.00	9,832.0	237.7	-1,020.7	1,048.0	0.00	0.00	0.00	
<b>ROLLINS.MBL</b>										
10,000.0	3.27	250.00	9,925.1	235.8	-1,025.7	1,052.5	0.00	0.00	0.00	
10,082.0	3.27	250.00	10,007.0	234.2	-1,030.1	1,056.4	0.00	0.00	0.00	
<b>TD.MBL - BHL 1516'FNL, 1310'FWL, SEC.9</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL 1751'FNL, 2340'FW - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	14,404,576.73	2,435,988.32	39.632032	-108.174588	
BHL 1516'FNL, 1310'FW - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	10,007.0	234.2	-1,030.1	14,404,778.51	2,434,950.99	39.632675	-108.178245	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,520.9	2,500.0	9 5/8"	9-5/8	12-1/4		

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-9 596
<b>Company:</b>	Caerus Oil and Gas LLC	<b>TVD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Project:</b>	SEC.9-T5S-R96W	<b>MD Reference:</b>	WELL @ 7670.0ft (Original Well Elev)
<b>Site:</b>	NPR G09 596 Pad Sec.9-T5S-R96W	<b>North Reference:</b>	True
<b>Well:</b>	NPR 12A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (1-15-18)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,996.6	1,982.0	WASATCH.MBL		0.00		
4,426.1	4,382.0	WASATCH_G_ZONE.MBL		0.00		
4,752.0	4,704.0	FORT_UNION.MBL		0.00		
6,565.6	6,496.0	OHIO_CREEK.MBL		0.00		
6,801.9	6,732.0	WILLIAMS_FORK.MBL		0.00		
6,851.9	6,782.0	TOP_GAS.MBL		0.00		
9,265.7	9,192.0	CAMEO.MBL		0.00		
9,906.7	9,832.0	ROLLINS.MBL		0.00		
10,082.0	10,007.0	TD.MBL		0.00		