



NPR 23D-9 596  
 Plan #1 (1-15-18)  
 11:11, January 19 2018

Azimuths to True North  
 Magnetic North: 9.63°  
 Magnetic Field  
 Strength: 51502.8snT  
 Dip Angle: 65.85°  
 Date: 1/19/2018  
 Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SHL 1699'FNL, 2476'FWL, SEC.9	1.0	0.0	0.0	39.632175	-108.174106	Point
BHL 2070'FSL, 1308'FEL, SEC.9	10123.0	-1507.3	1498.2	39.628037	-108.168787	Ellipse (Radii: L200.0 W100.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1108.2	21.24	130.91	1092.0	-85.0	98.1	3.00	130.91	129.4	
4	6483.4	21.24	130.91	6102.0	-1360.4	1570.1	0.00	0.00	2071.8	
5	7191.5	0.00	0.00	6794.0	-1445.4	1668.2	3.00	180.00	2201.2	
6	7518.6	3.27	250.00	7120.9	-1448.6	1659.4	1.00	250.00	2197.3	
7	10525.6	3.27	250.00	10123.0	-1507.3	1498.2	0.00	0.00	2125.2	BHL 2070'FSL, 1308'FEL, SEC.9



## Directional

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

**SEC.9-T5S-R96W**

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

**NPR 23D-9 596**

**Wellbore #1**

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

### **Standard Planning Report**

**19 January, 2018**

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 23D-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 23D-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 23D-9 596					
<b>Well Position</b>	<b>+N/-S</b>	39.3 ft	<b>Northing:</b>	14,404,633.08 usft	<b>Latitude:</b>	39.632175
	<b>+E/-W</b>	108.5 ft	<b>Easting:</b>	2,436,122.25 usft	<b>Longitude:</b>	-108.174107
<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	1/19/2018	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	135.17

<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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,108.2	21.24	130.91	1,092.0	-85.0	98.1	3.00	3.00	0.00	130.91	
6,483.4	21.24	130.91	6,102.0	-1,360.4	1,570.1	0.00	0.00	0.00	0.00	
7,191.5	0.00	0.00	6,794.0	-1,445.4	1,668.2	3.00	-3.00	0.00	180.00	
7,518.6	3.27	250.00	7,120.9	-1,448.6	1,659.4	1.00	1.00	-33.63	250.00	
10,525.6	3.27	250.00	10,123.0	-1,507.3	1,498.2	0.00	0.00	0.00	0.00	BHL 2070'FSL, 1308'

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 23D-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 23D-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 1699'FNL, 2476'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	3.00	130.91	500.0	-1.7	2.0	2.6	3.00	3.00	0.00	
600.0	6.00	130.91	599.6	-6.9	7.9	10.4	3.00	3.00	0.00	
700.0	9.00	130.91	698.8	-15.4	17.8	23.4	3.00	3.00	0.00	
800.0	12.00	130.91	797.1	-27.3	31.5	41.6	3.00	3.00	0.00	
900.0	15.00	130.91	894.3	-42.6	49.2	64.9	3.00	3.00	0.00	
1,000.0	18.00	130.91	990.2	-61.2	70.6	93.2	3.00	3.00	0.00	
1,100.0	21.00	130.91	1,084.4	-83.1	95.9	126.5	3.00	3.00	0.00	
1,108.2	21.24	130.91	1,092.0	-85.0	98.1	129.4	3.00	3.00	0.00	
1,200.0	21.24	130.91	1,177.6	-106.8	123.2	162.6	0.00	0.00	0.00	
1,300.0	21.24	130.91	1,270.8	-130.5	150.6	198.8	0.00	0.00	0.00	
1,400.0	21.24	130.91	1,364.1	-154.2	178.0	234.9	0.00	0.00	0.00	
1,500.0	21.24	130.91	1,457.3	-178.0	205.4	271.0	0.00	0.00	0.00	
1,600.0	21.24	130.91	1,550.5	-201.7	232.8	307.2	0.00	0.00	0.00	
1,700.0	21.24	130.91	1,643.7	-225.4	260.2	343.3	0.00	0.00	0.00	
1,800.0	21.24	130.91	1,736.9	-249.2	287.6	379.4	0.00	0.00	0.00	
1,900.0	21.24	130.91	1,830.1	-272.9	314.9	415.6	0.00	0.00	0.00	
2,000.0	21.24	130.91	1,923.3	-296.6	342.3	451.7	0.00	0.00	0.00	
2,100.0	21.24	130.91	2,016.5	-320.3	369.7	487.8	0.00	0.00	0.00	
2,127.4	21.24	130.91	2,042.0	-326.8	377.2	497.7	0.00	0.00	0.00	
<b>WASATCH.MBL</b>										
2,200.0	21.24	130.91	2,109.7	-344.1	397.1	524.0	0.00	0.00	0.00	
2,300.0	21.24	130.91	2,202.9	-367.8	424.5	560.1	0.00	0.00	0.00	
2,400.0	21.24	130.91	2,296.1	-391.5	451.9	596.2	0.00	0.00	0.00	
2,500.0	21.24	130.91	2,389.3	-415.3	479.3	632.4	0.00	0.00	0.00	
2,600.0	21.24	130.91	2,482.5	-439.0	506.6	668.5	0.00	0.00	0.00	
2,618.8	21.24	130.91	2,500.0	-443.4	511.8	675.3	0.00	0.00	0.00	
<b>9 5/8"</b>										
2,700.0	21.24	130.91	2,575.7	-462.7	534.0	704.6	0.00	0.00	0.00	
2,800.0	21.24	130.91	2,668.9	-486.4	561.4	740.8	0.00	0.00	0.00	
2,900.0	21.24	130.91	2,762.1	-510.2	588.8	776.9	0.00	0.00	0.00	
3,000.0	21.24	130.91	2,855.3	-533.9	616.2	813.0	0.00	0.00	0.00	
3,100.0	21.24	130.91	2,948.5	-557.6	643.6	849.2	0.00	0.00	0.00	
3,200.0	21.24	130.91	3,041.7	-581.4	670.9	885.3	0.00	0.00	0.00	
3,300.0	21.24	130.91	3,134.9	-605.1	698.3	921.4	0.00	0.00	0.00	
3,400.0	21.24	130.91	3,228.1	-628.8	725.7	957.6	0.00	0.00	0.00	
3,500.0	21.24	130.91	3,321.3	-652.5	753.1	993.7	0.00	0.00	0.00	
3,600.0	21.24	130.91	3,414.5	-676.3	780.5	1,029.9	0.00	0.00	0.00	
3,700.0	21.24	130.91	3,507.7	-700.0	807.9	1,066.0	0.00	0.00	0.00	
3,800.0	21.24	130.91	3,601.0	-723.7	835.3	1,102.1	0.00	0.00	0.00	
3,900.0	21.24	130.91	3,694.2	-747.4	862.6	1,138.3	0.00	0.00	0.00	
4,000.0	21.24	130.91	3,787.4	-771.2	890.0	1,174.4	0.00	0.00	0.00	
4,100.0	21.24	130.91	3,880.6	-794.9	917.4	1,210.5	0.00	0.00	0.00	
4,200.0	21.24	130.91	3,973.8	-818.6	944.8	1,246.7	0.00	0.00	0.00	
4,300.0	21.24	130.91	4,067.0	-842.4	972.2	1,282.8	0.00	0.00	0.00	
4,400.0	21.24	130.91	4,160.2	-866.1	999.6	1,318.9	0.00	0.00	0.00	
4,500.0	21.24	130.91	4,253.4	-889.8	1,027.0	1,355.1	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 23D-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)	
4,600.0	21.24	130.91	4,346.6	-913.5	1,054.3	1,391.2	0.00	0.00	0.00	
4,700.0	21.24	130.91	4,439.8	-937.3	1,081.7	1,427.3	0.00	0.00	0.00	
4,702.4	21.24	130.91	4,442.0	-937.8	1,082.4	1,428.2	0.00	0.00	0.00	
<b>WASATCH_G_ZONE.MBL</b>										
4,800.0	21.24	130.91	4,533.0	-961.0	1,109.1	1,463.5	0.00	0.00	0.00	
4,900.0	21.24	130.91	4,626.2	-984.7	1,136.5	1,499.6	0.00	0.00	0.00	
5,000.0	21.24	130.91	4,719.4	-1,008.5	1,163.9	1,535.7	0.00	0.00	0.00	
5,100.0	21.24	130.91	4,812.6	-1,032.2	1,191.3	1,571.9	0.00	0.00	0.00	
5,113.3	21.24	130.91	4,825.0	-1,035.3	1,194.9	1,576.7	0.00	0.00	0.00	
<b>FORT_UNION.MBL</b>										
5,200.0	21.24	130.91	4,905.8	-1,055.9	1,218.7	1,608.0	0.00	0.00	0.00	
5,300.0	21.24	130.91	4,999.0	-1,079.6	1,246.0	1,644.1	0.00	0.00	0.00	
5,400.0	21.24	130.91	5,092.2	-1,103.4	1,273.4	1,680.3	0.00	0.00	0.00	
5,500.0	21.24	130.91	5,185.4	-1,127.1	1,300.8	1,716.4	0.00	0.00	0.00	
5,600.0	21.24	130.91	5,278.6	-1,150.8	1,328.2	1,752.5	0.00	0.00	0.00	
5,700.0	21.24	130.91	5,371.8	-1,174.6	1,355.6	1,788.7	0.00	0.00	0.00	
5,800.0	21.24	130.91	5,465.0	-1,198.3	1,383.0	1,824.8	0.00	0.00	0.00	
5,900.0	21.24	130.91	5,558.2	-1,222.0	1,410.4	1,861.0	0.00	0.00	0.00	
6,000.0	21.24	130.91	5,651.4	-1,245.7	1,437.7	1,897.1	0.00	0.00	0.00	
6,100.0	21.24	130.91	5,744.6	-1,269.5	1,465.1	1,933.2	0.00	0.00	0.00	
6,200.0	21.24	130.91	5,837.9	-1,293.2	1,492.5	1,969.4	0.00	0.00	0.00	
6,300.0	21.24	130.91	5,931.1	-1,316.9	1,519.9	2,005.5	0.00	0.00	0.00	
6,400.0	21.24	130.91	6,024.3	-1,340.7	1,547.3	2,041.6	0.00	0.00	0.00	
6,483.4	21.24	130.91	6,102.0	-1,360.4	1,570.1	2,071.8	0.00	0.00	0.00	
6,500.0	20.75	130.91	6,117.5	-1,364.3	1,574.6	2,077.7	3.00	-3.00	0.00	
6,600.0	17.75	130.91	6,211.9	-1,385.9	1,599.5	2,110.6	3.00	-3.00	0.00	
6,700.0	14.75	130.91	6,307.9	-1,404.2	1,620.7	2,138.5	3.00	-3.00	0.00	
6,800.0	11.75	130.91	6,405.2	-1,419.2	1,638.0	2,161.3	3.00	-3.00	0.00	
6,900.0	8.75	130.91	6,503.6	-1,430.9	1,651.4	2,179.0	3.00	-3.00	0.00	
6,996.2	5.86	130.91	6,599.0	-1,438.9	1,660.7	2,191.2	3.00	-3.00	0.00	
<b>OHIO_CREEK.MBL</b>										
7,000.0	5.75	130.91	6,602.8	-1,439.1	1,660.9	2,191.6	3.00	-3.00	0.00	
7,100.0	2.75	130.91	6,702.5	-1,444.0	1,666.5	2,199.0	3.00	-3.00	0.00	
7,191.5	0.00	0.00	6,794.0	-1,445.4	1,668.2	2,201.2	3.00	-3.00	0.00	
7,200.0	0.08	250.00	6,802.5	-1,445.4	1,668.2	2,201.2	1.00	1.00	0.00	
7,241.5	0.50	250.00	6,844.0	-1,445.5	1,668.0	2,201.1	1.00	1.00	0.00	
<b>WILLIAMS_FORK.MBL</b>										
7,291.5	1.00	250.00	6,894.0	-1,445.7	1,667.4	2,200.8	1.00	1.00	0.00	
<b>TOP_GAS.MBL</b>										
7,300.0	1.08	250.00	6,902.5	-1,445.8	1,667.2	2,200.8	1.00	1.00	0.00	
7,400.0	2.08	250.00	7,002.4	-1,446.7	1,664.6	2,199.6	1.00	1.00	0.00	
7,500.0	3.08	250.00	7,102.3	-1,448.3	1,660.4	2,197.7	1.00	1.00	0.00	
7,518.6	3.27	250.00	7,120.9	-1,448.6	1,659.4	2,197.3	1.00	1.00	0.00	
7,600.0	3.27	250.00	7,202.2	-1,450.2	1,655.1	2,195.3	0.00	0.00	0.00	
7,700.0	3.27	250.00	7,302.0	-1,452.2	1,649.7	2,192.9	0.00	0.00	0.00	
7,800.0	3.27	250.00	7,401.8	-1,454.1	1,644.3	2,190.5	0.00	0.00	0.00	
7,900.0	3.27	250.00	7,501.7	-1,456.1	1,639.0	2,188.1	0.00	0.00	0.00	
8,000.0	3.27	250.00	7,601.5	-1,458.0	1,633.6	2,185.7	0.00	0.00	0.00	
8,100.0	3.27	250.00	7,701.4	-1,460.0	1,628.3	2,183.3	0.00	0.00	0.00	
8,200.0	3.27	250.00	7,801.2	-1,461.9	1,622.9	2,180.9	0.00	0.00	0.00	
8,300.0	3.27	250.00	7,901.0	-1,463.9	1,617.5	2,178.5	0.00	0.00	0.00	
8,400.0	3.27	250.00	8,000.9	-1,465.8	1,612.2	2,176.2	0.00	0.00	0.00	
8,500.0	3.27	250.00	8,100.7	-1,467.8	1,606.8	2,173.8	0.00	0.00	0.00	
8,600.0	3.27	250.00	8,200.5	-1,469.7	1,601.5	2,171.4	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 23D-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	8,300.4	-1,471.7	1,596.1	2,169.0	0.00	0.00	0.00
8,800.0	3.27	250.00	8,400.2	-1,473.6	1,590.7	2,166.6	0.00	0.00	0.00
8,900.0	3.27	250.00	8,500.1	-1,475.6	1,585.4	2,164.2	0.00	0.00	0.00
9,000.0	3.27	250.00	8,599.9	-1,477.5	1,580.0	2,161.8	0.00	0.00	0.00
9,100.0	3.27	250.00	8,699.7	-1,479.5	1,574.7	2,159.4	0.00	0.00	0.00
9,200.0	3.27	250.00	8,799.6	-1,481.4	1,569.3	2,157.0	0.00	0.00	0.00
9,300.0	3.27	250.00	8,899.4	-1,483.4	1,563.9	2,154.6	0.00	0.00	0.00
9,400.0	3.27	250.00	8,999.2	-1,485.3	1,558.6	2,152.2	0.00	0.00	0.00
9,500.0	3.27	250.00	9,099.1	-1,487.3	1,553.2	2,149.8	0.00	0.00	0.00
9,600.0	3.27	250.00	9,198.9	-1,489.2	1,547.8	2,147.4	0.00	0.00	0.00
9,700.0	3.27	250.00	9,298.7	-1,491.2	1,542.5	2,145.0	0.00	0.00	0.00
9,723.3	3.27	250.00	9,322.0	-1,491.6	1,541.2	2,144.5	0.00	0.00	0.00
<b>CAMEO.MBL</b>									
9,800.0	3.27	250.00	9,398.6	-1,493.1	1,537.1	2,142.6	0.00	0.00	0.00
9,900.0	3.27	250.00	9,498.4	-1,495.1	1,531.8	2,140.2	0.00	0.00	0.00
10,000.0	3.27	250.00	9,598.3	-1,497.0	1,526.4	2,137.8	0.00	0.00	0.00
10,100.0	3.27	250.00	9,698.1	-1,499.0	1,521.0	2,135.4	0.00	0.00	0.00
10,200.0	3.27	250.00	9,797.9	-1,500.9	1,515.7	2,133.0	0.00	0.00	0.00
10,300.0	3.27	250.00	9,897.8	-1,502.9	1,510.3	2,130.6	0.00	0.00	0.00
10,350.3	3.27	250.00	9,948.0	-1,503.9	1,507.6	2,129.4	0.00	0.00	0.00
<b>ROLLINS.MBL</b>									
10,400.0	3.27	250.00	9,997.6	-1,504.8	1,505.0	2,128.2	0.00	0.00	0.00
10,500.0	3.27	250.00	10,097.4	-1,506.8	1,499.6	2,125.8	0.00	0.00	0.00
10,525.6	3.27	250.00	10,123.0	-1,507.3	1,498.2	2,125.2	0.00	0.00	0.00
<b>TD.MBL - BHL 2070'FSL, 1308'FEL, 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 1699'FNL, 2476'FW - hit/miss target center - Shape - Point	0.00	0.00	1.0	0.0	0.0	14,404,633.08	2,436,122.25	39.632175	-108.174107
BHL 2070'FSL, 1308'FEI - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	10,123.0	-1,507.3	1,498.2	14,403,173.22	2,437,667.67	39.628037	-108.168788

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
2,618.8	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 23D-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 23D-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 (°)	
2,127.4	2,042.0	WASATCH.MBL		0.00		
4,702.4	4,442.0	WASATCH_G_ZONE.MBL		0.00		
5,113.3	4,825.0	FORT_UNION.MBL		0.00		
6,996.2	6,599.0	OHIO_CREEK.MBL		0.00		
7,241.5	6,844.0	WILLIAMS_FORK.MBL		0.00		
7,291.5	6,894.0	TOP_GAS.MBL		0.00		
9,723.3	9,322.0	CAMEO.MBL		0.00		
10,350.3	9,948.0	ROLLINS.MBL		0.00		
10,525.6	10,123.0	TD.MBL		0.00		