



NPR 14A-9 596  
 Plan #2 (3-06-18)  
 14:23, March 15 2018

Azimuths to True North  
 Magnetic North: 9.62°

Magnetic Field  
 Strength: 51485.2snT  
 Dip Angle: 65.85°  
 Date: 3/15/2018  
 Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SHL 1748'FNL, 2347'FWL, SEC.9	1.0	0.0	0.0	39.632041	-108.174564	Point
BHL 1621'FSL, 1319'FWL, SEC.9	9940.0	-1908.1	-1025.8	39.626802	-108.178205	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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1068.0	20.04	204.88	1054.5	-104.9	-48.6	3.00	204.88	115.4	
4	6331.8	20.04	204.88	5999.5	-1741.4	-807.5	0.00	0.00	1916.1	
5	6999.8	0.00	0.00	6654.0	-1846.3	-856.1	3.00	180.00	2031.6	
6	7331.1	3.31	250.00	6985.1	-1849.6	-865.1	1.00	250.00	2038.7	
7	10290.9	3.31	250.00	9940.0	-1908.1	-1025.8	0.00	0.00	2166.3	BHL 1621'FSL, 1319'FWL, SEC.9



## Directional

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

**SEC.9-T5S-R96W**

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

**NPR 14A-9 596**

**Wellbore #1**

**Plan: Plan #2 (3-06-18)**

### **Standard Planning Report**

**15 March, 2018**

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 14A-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 14A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

<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 14A-9 596					
<b>Well Position</b>	<b>+N/-S</b>	-9.7 ft	<b>Northing:</b>	14,404,580.04 usft	<b>Latitude:</b>	39.632041
	<b>+E/-W</b>	-20.4 ft	<b>Easting:</b>	2,435,994.92 usft	<b>Longitude:</b>	-108.174564
<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	3/15/2018	9.62	65.85	51,485

<b>Design</b>	Plan #2 (3-06-18)			
<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	208.26

<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	
1,068.0	20.04	204.88	1,054.5	-104.9	-48.6	3.00	3.00	0.00	204.88	
6,331.8	20.04	204.88	5,999.5	-1,741.4	-807.5	0.00	0.00	0.00	0.00	
6,999.8	0.00	0.00	6,654.0	-1,846.3	-856.1	3.00	-3.00	0.00	180.00	
7,331.1	3.31	250.00	6,985.1	-1,849.6	-865.1	1.00	1.00	-33.21	250.00	
10,290.9	3.31	250.00	9,940.0	-1,908.1	-1,025.8	0.00	0.00	0.00	0.00	BHL 1621'FSL, 1319'

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 14A-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 14A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

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 1760'FNL, 2344'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	204.88	500.0	-2.4	-1.1	2.6	3.00	3.00	0.00	
600.0	6.00	204.88	599.6	-9.5	-4.4	10.4	3.00	3.00	0.00	
700.0	9.00	204.88	698.8	-21.3	-9.9	23.5	3.00	3.00	0.00	
800.0	12.00	204.88	797.1	-37.9	-17.6	41.7	3.00	3.00	0.00	
900.0	15.00	204.88	894.3	-59.0	-27.4	65.0	3.00	3.00	0.00	
1,000.0	18.00	204.88	990.2	-84.8	-39.3	93.3	3.00	3.00	0.00	
1,068.0	20.04	204.88	1,054.5	-104.9	-48.6	115.4	3.00	3.00	0.00	
1,100.0	20.04	204.88	1,084.5	-114.9	-53.3	126.4	0.00	0.00	0.00	
1,200.0	20.04	204.88	1,178.5	-145.9	-67.7	160.6	0.00	0.00	0.00	
1,300.0	20.04	204.88	1,272.4	-177.0	-82.1	194.8	0.00	0.00	0.00	
1,400.0	20.04	204.88	1,366.4	-208.1	-96.5	229.0	0.00	0.00	0.00	
1,500.0	20.04	204.88	1,460.3	-239.2	-110.9	263.2	0.00	0.00	0.00	
1,600.0	20.04	204.88	1,554.2	-270.3	-125.3	297.4	0.00	0.00	0.00	
1,700.0	20.04	204.88	1,648.2	-301.4	-139.8	331.6	0.00	0.00	0.00	
1,800.0	20.04	204.88	1,742.1	-332.5	-154.2	365.8	0.00	0.00	0.00	
1,900.0	20.04	204.88	1,836.1	-363.6	-168.6	400.1	0.00	0.00	0.00	
2,000.0	20.04	204.88	1,930.0	-394.7	-183.0	434.3	0.00	0.00	0.00	
2,001.0	20.04	204.88	1,931.0	-395.0	-183.1	434.6	0.00	0.00	0.00	
<b>WASATCH.MBL</b>										
2,100.0	20.04	204.88	2,024.0	-425.7	-197.4	468.5	0.00	0.00	0.00	
2,200.0	20.04	204.88	2,117.9	-456.8	-211.8	502.7	0.00	0.00	0.00	
2,300.0	20.04	204.88	2,211.9	-487.9	-226.2	536.9	0.00	0.00	0.00	
2,400.0	20.04	204.88	2,305.8	-519.0	-240.7	571.1	0.00	0.00	0.00	
2,500.0	20.04	204.88	2,399.8	-550.1	-255.1	605.3	0.00	0.00	0.00	
2,600.0	20.04	204.88	2,493.7	-581.2	-269.5	639.5	0.00	0.00	0.00	
2,606.7	20.04	204.88	2,500.0	-583.3	-270.5	641.8	0.00	0.00	0.00	
<b>9 5/8"</b>										
2,700.0	20.04	204.88	2,587.6	-612.3	-283.9	673.7	0.00	0.00	0.00	
2,800.0	20.04	204.88	2,681.6	-643.4	-298.3	707.9	0.00	0.00	0.00	
2,900.0	20.04	204.88	2,775.5	-674.5	-312.7	742.1	0.00	0.00	0.00	
3,000.0	20.04	204.88	2,869.5	-705.6	-327.2	776.4	0.00	0.00	0.00	
3,100.0	20.04	204.88	2,963.4	-736.6	-341.6	810.6	0.00	0.00	0.00	
3,200.0	20.04	204.88	3,057.4	-767.7	-356.0	844.8	0.00	0.00	0.00	
3,300.0	20.04	204.88	3,151.3	-798.8	-370.4	879.0	0.00	0.00	0.00	
3,400.0	20.04	204.88	3,245.3	-829.9	-384.8	913.2	0.00	0.00	0.00	
3,500.0	20.04	204.88	3,339.2	-861.0	-399.2	947.4	0.00	0.00	0.00	
3,600.0	20.04	204.88	3,433.1	-892.1	-413.6	981.6	0.00	0.00	0.00	
3,700.0	20.04	204.88	3,527.1	-923.2	-428.1	1,015.8	0.00	0.00	0.00	
3,800.0	20.04	204.88	3,621.0	-954.3	-442.5	1,050.0	0.00	0.00	0.00	
3,900.0	20.04	204.88	3,715.0	-985.4	-456.9	1,084.2	0.00	0.00	0.00	
4,000.0	20.04	204.88	3,808.9	-1,016.4	-471.3	1,118.4	0.00	0.00	0.00	
4,100.0	20.04	204.88	3,902.9	-1,047.5	-485.7	1,152.7	0.00	0.00	0.00	
4,200.0	20.04	204.88	3,996.8	-1,078.6	-500.1	1,186.9	0.00	0.00	0.00	
4,300.0	20.04	204.88	4,090.8	-1,109.7	-514.6	1,221.1	0.00	0.00	0.00	
4,400.0	20.04	204.88	4,184.7	-1,140.8	-529.0	1,255.3	0.00	0.00	0.00	
4,500.0	20.04	204.88	4,278.7	-1,171.9	-543.4	1,289.5	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 14A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

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)	
4,555.7	20.04	204.88	4,331.0	-1,189.2	-551.4	1,308.6	0.00	0.00	0.00	
<b>WASATCH_G_ZONE.MBL</b>										
4,600.0	20.04	204.88	4,372.6	-1,203.0	-557.8	1,323.7	0.00	0.00	0.00	
4,700.0	20.04	204.88	4,466.5	-1,234.1	-572.2	1,357.9	0.00	0.00	0.00	
4,800.0	20.04	204.88	4,560.5	-1,265.2	-586.6	1,392.1	0.00	0.00	0.00	
4,900.0	20.04	204.88	4,654.4	-1,296.3	-601.1	1,426.3	0.00	0.00	0.00	
4,941.1	20.04	204.88	4,693.0	-1,309.0	-607.0	1,440.4	0.00	0.00	0.00	
<b>FORT_UNION.MBL</b>										
5,000.0	20.04	204.88	4,748.4	-1,327.3	-615.5	1,460.5	0.00	0.00	0.00	
5,100.0	20.04	204.88	4,842.3	-1,358.4	-629.9	1,494.7	0.00	0.00	0.00	
5,200.0	20.04	204.88	4,936.3	-1,389.5	-644.3	1,529.0	0.00	0.00	0.00	
5,300.0	20.04	204.88	5,030.2	-1,420.6	-658.7	1,563.2	0.00	0.00	0.00	
5,400.0	20.04	204.88	5,124.2	-1,451.7	-673.1	1,597.4	0.00	0.00	0.00	
5,500.0	20.04	204.88	5,218.1	-1,482.8	-687.5	1,631.6	0.00	0.00	0.00	
5,600.0	20.04	204.88	5,312.0	-1,513.9	-702.0	1,665.8	0.00	0.00	0.00	
5,700.0	20.04	204.88	5,406.0	-1,545.0	-716.4	1,700.0	0.00	0.00	0.00	
5,800.0	20.04	204.88	5,499.9	-1,576.1	-730.8	1,734.2	0.00	0.00	0.00	
5,900.0	20.04	204.88	5,593.9	-1,607.1	-745.2	1,768.4	0.00	0.00	0.00	
6,000.0	20.04	204.88	5,687.8	-1,638.2	-759.6	1,802.6	0.00	0.00	0.00	
6,100.0	20.04	204.88	5,781.8	-1,669.3	-774.0	1,836.8	0.00	0.00	0.00	
6,200.0	20.04	204.88	5,875.7	-1,700.4	-788.5	1,871.0	0.00	0.00	0.00	
6,300.0	20.04	204.88	5,969.7	-1,731.5	-802.9	1,905.3	0.00	0.00	0.00	
6,331.8	20.04	204.88	5,999.5	-1,741.4	-807.5	1,916.1	0.00	0.00	0.00	
6,400.0	17.99	204.88	6,064.0	-1,761.6	-816.8	1,938.3	3.00	-3.00	0.00	
6,500.0	14.99	204.88	6,159.9	-1,787.3	-828.7	1,966.7	3.00	-3.00	0.00	
6,600.0	11.99	204.88	6,257.1	-1,808.5	-838.6	1,989.9	3.00	-3.00	0.00	
6,700.0	8.99	204.88	6,355.4	-1,825.0	-846.2	2,008.1	3.00	-3.00	0.00	
6,800.0	5.99	204.88	6,454.6	-1,836.8	-851.7	2,021.1	3.00	-3.00	0.00	
6,814.5	5.56	204.88	6,469.0	-1,838.2	-852.3	2,022.6	3.00	-3.00	0.00	
<b>OHIO_CREEK.MBL</b>										
6,900.0	2.99	204.88	6,554.2	-1,843.9	-855.0	2,029.0	3.00	-3.00	0.00	
6,999.8	0.00	0.00	6,654.0	-1,846.3	-856.1	2,031.6	3.00	-3.00	0.00	
7,000.0	0.00	250.00	6,654.2	-1,846.3	-856.1	2,031.6	0.00	0.00	0.00	
7,049.8	0.50	250.00	6,704.0	-1,846.4	-856.3	2,031.7	1.00	1.00	0.00	
<b>WILLIAMS_FORK.MBL</b>										
7,099.8	1.00	250.00	6,754.0	-1,846.6	-856.9	2,032.2	1.00	1.00	0.00	
<b>TOP_GAS.MBL</b>										
7,100.0	1.00	250.00	6,754.2	-1,846.6	-856.9	2,032.2	1.00	1.00	0.00	
7,200.0	2.00	250.00	6,854.2	-1,847.5	-859.4	2,034.2	1.00	1.00	0.00	
7,300.0	3.00	250.00	6,954.1	-1,849.0	-863.5	2,037.4	1.00	1.00	0.00	
7,331.1	3.31	250.00	6,985.1	-1,849.6	-865.1	2,038.7	1.00	1.00	0.00	
7,400.0	3.31	250.00	7,053.9	-1,850.9	-868.8	2,041.7	0.00	0.00	0.00	
7,500.0	3.31	250.00	7,153.7	-1,852.9	-874.3	2,046.0	0.00	0.00	0.00	
7,600.0	3.31	250.00	7,253.6	-1,854.9	-879.7	2,050.3	0.00	0.00	0.00	
7,700.0	3.31	250.00	7,353.4	-1,856.9	-885.1	2,054.6	0.00	0.00	0.00	
7,800.0	3.31	250.00	7,453.2	-1,858.8	-890.6	2,058.9	0.00	0.00	0.00	
7,900.0	3.31	250.00	7,553.1	-1,860.8	-896.0	2,063.2	0.00	0.00	0.00	
8,000.0	3.31	250.00	7,652.9	-1,862.8	-901.4	2,067.6	0.00	0.00	0.00	
8,100.0	3.31	250.00	7,752.7	-1,864.8	-906.8	2,071.9	0.00	0.00	0.00	
8,200.0	3.31	250.00	7,852.6	-1,866.7	-912.3	2,076.2	0.00	0.00	0.00	
8,300.0	3.31	250.00	7,952.4	-1,868.7	-917.7	2,080.5	0.00	0.00	0.00	
8,400.0	3.31	250.00	8,052.2	-1,870.7	-923.1	2,084.8	0.00	0.00	0.00	
8,500.0	3.31	250.00	8,152.1	-1,872.7	-928.6	2,089.1	0.00	0.00	0.00	
8,600.0	3.31	250.00	8,251.9	-1,874.6	-934.0	2,093.4	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 14A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

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	3.31	250.00	8,351.7	-1,876.6	-939.4	2,097.7	0.00	0.00	0.00	
8,800.0	3.31	250.00	8,451.6	-1,878.6	-944.9	2,102.0	0.00	0.00	0.00	
8,900.0	3.31	250.00	8,551.4	-1,880.6	-950.3	2,106.4	0.00	0.00	0.00	
9,000.0	3.31	250.00	8,651.2	-1,882.6	-955.7	2,110.7	0.00	0.00	0.00	
9,100.0	3.31	250.00	8,751.1	-1,884.5	-961.1	2,115.0	0.00	0.00	0.00	
9,200.0	3.31	250.00	8,850.9	-1,886.5	-966.6	2,119.3	0.00	0.00	0.00	
9,300.0	3.31	250.00	8,950.7	-1,888.5	-972.0	2,123.6	0.00	0.00	0.00	
9,400.0	3.31	250.00	9,050.6	-1,890.5	-977.4	2,127.9	0.00	0.00	0.00	
9,500.0	3.31	250.00	9,150.4	-1,892.4	-982.9	2,132.2	0.00	0.00	0.00	
9,600.0	3.31	250.00	9,250.2	-1,894.4	-988.3	2,136.5	0.00	0.00	0.00	
9,644.9	3.31	250.00	9,295.0	-1,895.3	-990.7	2,138.5	0.00	0.00	0.00	
<b>CAMEO.MBL</b>										
9,700.0	3.31	250.00	9,350.1	-1,896.4	-993.7	2,140.8	0.00	0.00	0.00	
9,800.0	3.31	250.00	9,449.9	-1,898.4	-999.2	2,145.2	0.00	0.00	0.00	
9,900.0	3.31	250.00	9,549.7	-1,900.3	-1,004.6	2,149.5	0.00	0.00	0.00	
10,000.0	3.31	250.00	9,649.6	-1,902.3	-1,010.0	2,153.8	0.00	0.00	0.00	
10,100.0	3.31	250.00	9,749.4	-1,904.3	-1,015.4	2,158.1	0.00	0.00	0.00	
10,115.6	3.31	250.00	9,765.0	-1,904.6	-1,016.3	2,158.8	0.00	0.00	0.00	
<b>ROLLINS.MBL</b>										
10,200.0	3.31	250.00	9,849.2	-1,906.3	-1,020.9	2,162.4	0.00	0.00	0.00	
10,290.9	3.31	250.00	9,940.0	-1,908.1	-1,025.8	2,166.3	0.00	0.00	0.00	
<b>TD.MBL - BHL 1621'FSL, 1319'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 1760'FNL, 2344'FM - hit/miss target - Shape - Point	0.00	0.00	1.0	-12.2	-2.5	14,404,567.80	2,435,992.83	39.632007	-108.174573	
- plan misses target center by 12.4ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)										
BHL 1621'FSL, 1319'FW - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	9,940.0	-1,908.1	-1,025.8	14,402,640.02	2,435,029.35	39.626802	-108.178206	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
2,606.7	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 14A-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 14A-9 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 (3-06-18)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,001.0	1,931.0	WASATCH.MBL		0.00		
4,555.7	4,331.0	WASATCH_G_ZONE.MBL		0.00		
4,941.1	4,693.0	FORT_UNION.MBL		0.00		
6,814.5	6,469.0	OHIO_CREEK.MBL		0.00		
7,049.8	6,704.0	WILLIAMS_FORK.MBL		0.00		
7,099.8	6,754.0	TOP_GAS.MBL		0.00		
9,644.9	9,295.0	CAMEO.MBL		0.00		
10,115.6	9,765.0	ROLLINS.MBL		0.00		
10,290.9	9,940.0	TD.MBL		0.00		