



NPR 11B-9 596  
 Plan #1 (1-15-18)  
 7:39, 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 1742'FNL, 2360'FWL, SEC.9	1.0	0.0	0.0	39.632058	-108.174516	Point
BHL 514'FNL, 1316'FWL, SEC.9	10049.0	1226.3	-1044.9	39.635425	-108.178226	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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	792.5	14.78	325.82	787.1	52.2	-35.5	3.00	325.82	62.8	
4	6402.9	14.78	325.82	6211.9	1235.9	-839.4	0.00	0.00	1485.1	
5	6895.4	0.00	0.00	6699.0	1288.2	-874.9	3.00	180.00	1547.9	
6	7220.3	3.25	250.00	7023.7	1285.0	-883.6	1.00	250.00	1551.1	
7	10250.5	3.25	250.00	10049.0	1226.3	-1044.9	0.00	0.00	1611.1	BHL 514'FNL, 1316'FWL, SEC.9



## Directional

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

**SEC.9-T5S-R96W**

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

**NPR 11B-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 11B-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 11B-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 11B-9 596					
<b>Well Position</b>	<b>+N/-S</b>	-3.3 ft	<b>Northing:</b>	14,404,586.84 usft	<b>Latitude:</b>	39.632058
	<b>+E/-W</b>	-6.9 ft	<b>Easting:</b>	2,436,008.24 usft	<b>Longitude:</b>	-108.174516
<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	319.57

<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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
792.5	14.78	325.82	787.1	52.2	-35.5	3.00	3.00	0.00	325.82	
6,402.9	14.78	325.82	6,211.9	1,235.9	-839.4	0.00	0.00	0.00	0.00	
6,895.4	0.00	0.00	6,699.0	1,288.2	-874.9	3.00	-3.00	0.00	180.00	
7,220.3	3.25	250.00	7,023.7	1,285.0	-883.6	1.00	1.00	-33.85	250.00	
10,250.5	3.25	250.00	10,049.0	1,226.3	-1,044.9	0.00	0.00	0.00	0.00	BHL 514'FNL, 1316'F'

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11B-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 11B-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 1742'FNL, 2360'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	3.00	325.82	400.0	2.2	-1.5	2.6	3.00	3.00	0.00	
500.0	6.00	325.82	499.6	8.7	-5.9	10.4	3.00	3.00	0.00	
600.0	9.00	325.82	598.8	19.5	-13.2	23.4	3.00	3.00	0.00	
700.0	12.00	325.82	697.1	34.5	-23.4	41.5	3.00	3.00	0.00	
792.5	14.78	325.82	787.1	52.2	-35.5	62.8	3.00	3.00	0.00	
800.0	14.78	325.82	794.3	53.8	-36.6	64.7	0.00	0.00	0.00	
900.0	14.78	325.82	891.0	74.9	-50.9	90.0	0.00	0.00	0.00	
1,000.0	14.78	325.82	987.7	96.0	-65.2	115.4	0.00	0.00	0.00	
1,100.0	14.78	325.82	1,084.4	117.1	-79.5	140.7	0.00	0.00	0.00	
1,200.0	14.78	325.82	1,181.1	138.2	-93.9	166.1	0.00	0.00	0.00	
1,300.0	14.78	325.82	1,277.8	159.3	-108.2	191.4	0.00	0.00	0.00	
1,400.0	14.78	325.82	1,374.5	180.4	-122.5	216.8	0.00	0.00	0.00	
1,500.0	14.78	325.82	1,471.2	201.5	-136.9	242.1	0.00	0.00	0.00	
1,600.0	14.78	325.82	1,567.9	222.6	-151.2	267.5	0.00	0.00	0.00	
1,700.0	14.78	325.82	1,664.5	243.7	-165.5	292.8	0.00	0.00	0.00	
1,800.0	14.78	325.82	1,761.2	264.8	-179.8	318.2	0.00	0.00	0.00	
1,900.0	14.78	325.82	1,857.9	285.9	-194.2	343.6	0.00	0.00	0.00	
2,000.0	14.78	325.82	1,954.6	307.0	-208.5	368.9	0.00	0.00	0.00	
2,059.3	14.78	325.82	2,012.0	319.5	-217.0	383.9	0.00	0.00	0.00	
<b>WASATCH.MBL</b>										
2,100.0	14.78	325.82	2,051.3	328.1	-222.8	394.3	0.00	0.00	0.00	
2,200.0	14.78	325.82	2,148.0	349.2	-237.2	419.6	0.00	0.00	0.00	
2,300.0	14.78	325.82	2,244.7	370.3	-251.5	445.0	0.00	0.00	0.00	
2,400.0	14.78	325.82	2,341.4	391.4	-265.8	470.3	0.00	0.00	0.00	
2,500.0	14.78	325.82	2,438.1	412.5	-280.2	495.7	0.00	0.00	0.00	
2,564.0	14.78	325.82	2,500.0	426.0	-289.3	511.9	0.00	0.00	0.00	
<b>9 5/8"</b>										
2,600.0	14.78	325.82	2,534.8	433.6	-294.5	521.0	0.00	0.00	0.00	
2,700.0	14.78	325.82	2,631.5	454.7	-308.8	546.4	0.00	0.00	0.00	
2,800.0	14.78	325.82	2,728.2	475.8	-323.1	571.7	0.00	0.00	0.00	
2,900.0	14.78	325.82	2,824.9	496.9	-337.5	597.1	0.00	0.00	0.00	
3,000.0	14.78	325.82	2,921.6	518.0	-351.8	622.4	0.00	0.00	0.00	
3,100.0	14.78	325.82	3,018.3	539.1	-366.1	647.8	0.00	0.00	0.00	
3,200.0	14.78	325.82	3,114.9	560.2	-380.5	673.1	0.00	0.00	0.00	
3,300.0	14.78	325.82	3,211.6	581.3	-394.8	698.5	0.00	0.00	0.00	
3,400.0	14.78	325.82	3,308.3	602.4	-409.1	723.8	0.00	0.00	0.00	
3,500.0	14.78	325.82	3,405.0	623.5	-423.4	749.2	0.00	0.00	0.00	
3,600.0	14.78	325.82	3,501.7	644.6	-437.8	774.5	0.00	0.00	0.00	
3,700.0	14.78	325.82	3,598.4	665.7	-452.1	799.9	0.00	0.00	0.00	
3,800.0	14.78	325.82	3,695.1	686.8	-466.4	825.3	0.00	0.00	0.00	
3,900.0	14.78	325.82	3,791.8	707.9	-480.8	850.6	0.00	0.00	0.00	
4,000.0	14.78	325.82	3,888.5	729.0	-495.1	876.0	0.00	0.00	0.00	
4,100.0	14.78	325.82	3,985.2	750.1	-509.4	901.3	0.00	0.00	0.00	
4,200.0	14.78	325.82	4,081.9	771.2	-523.8	926.7	0.00	0.00	0.00	
4,300.0	14.78	325.82	4,178.6	792.3	-538.1	952.0	0.00	0.00	0.00	
4,400.0	14.78	325.82	4,275.3	813.4	-552.4	977.4	0.00	0.00	0.00	
4,500.0	14.78	325.82	4,372.0	834.5	-566.7	1,002.7	0.00	0.00	0.00	

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11B-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 11B-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)	
4,541.4	14.78	325.82	4,412.0	843.2	-572.7	1,013.2	0.00	0.00	0.00	
<b>WASATCH_G_ZONE.MBL</b>										
4,600.0	14.78	325.82	4,468.6	855.5	-581.1	1,028.1	0.00	0.00	0.00	
4,700.0	14.78	325.82	4,565.3	876.6	-595.4	1,053.4	0.00	0.00	0.00	
4,800.0	14.78	325.82	4,662.0	897.7	-609.7	1,078.8	0.00	0.00	0.00	
4,849.6	14.78	325.82	4,710.0	908.2	-616.8	1,091.4	0.00	0.00	0.00	
<b>FORT_UNION.MBL</b>										
4,900.0	14.78	325.82	4,758.7	918.8	-624.1	1,104.1	0.00	0.00	0.00	
5,000.0	14.78	325.82	4,855.4	939.9	-638.4	1,129.5	0.00	0.00	0.00	
5,100.0	14.78	325.82	4,952.1	961.0	-652.7	1,154.8	0.00	0.00	0.00	
5,200.0	14.78	325.82	5,048.8	982.1	-667.0	1,180.2	0.00	0.00	0.00	
5,300.0	14.78	325.82	5,145.5	1,003.2	-681.4	1,205.5	0.00	0.00	0.00	
5,400.0	14.78	325.82	5,242.2	1,024.3	-695.7	1,230.9	0.00	0.00	0.00	
5,500.0	14.78	325.82	5,338.9	1,045.4	-710.0	1,256.2	0.00	0.00	0.00	
5,600.0	14.78	325.82	5,435.6	1,066.5	-724.4	1,281.6	0.00	0.00	0.00	
5,700.0	14.78	325.82	5,532.3	1,087.6	-738.7	1,306.9	0.00	0.00	0.00	
5,800.0	14.78	325.82	5,629.0	1,108.7	-753.0	1,332.3	0.00	0.00	0.00	
5,900.0	14.78	325.82	5,725.7	1,129.8	-767.4	1,357.7	0.00	0.00	0.00	
6,000.0	14.78	325.82	5,822.3	1,150.9	-781.7	1,383.0	0.00	0.00	0.00	
6,100.0	14.78	325.82	5,919.0	1,172.0	-796.0	1,408.4	0.00	0.00	0.00	
6,200.0	14.78	325.82	6,015.7	1,193.1	-810.3	1,433.7	0.00	0.00	0.00	
6,300.0	14.78	325.82	6,112.4	1,214.2	-824.7	1,459.1	0.00	0.00	0.00	
6,400.0	14.78	325.82	6,209.1	1,235.3	-839.0	1,484.4	0.00	0.00	0.00	
6,402.9	14.78	325.82	6,211.9	1,235.9	-839.4	1,485.1	0.00	0.00	0.00	
6,500.0	11.86	325.82	6,306.4	1,254.4	-852.0	1,507.4	3.00	-3.00	0.00	
6,600.0	8.86	325.82	6,404.8	1,269.3	-862.1	1,525.3	3.00	-3.00	0.00	
6,700.0	5.86	325.82	6,503.9	1,279.9	-869.3	1,538.0	3.00	-3.00	0.00	
6,706.1	5.68	325.82	6,510.0	1,280.4	-869.6	1,538.6	3.00	-3.00	0.00	
<b>OHIO_CREEK.MBL</b>										
6,800.0	2.86	325.82	6,603.6	1,286.2	-873.6	1,545.6	3.00	-3.00	0.00	
6,895.4	0.00	0.00	6,699.0	1,288.2	-874.9	1,547.9	3.00	-3.00	0.00	
6,900.0	0.05	250.00	6,703.6	1,288.2	-874.9	1,547.9	1.00	1.00	0.00	
6,945.4	0.50	250.00	6,749.0	1,288.1	-875.1	1,548.0	1.00	1.00	0.00	
<b>WILLIAMS_FORK.MBL</b>										
6,995.4	1.00	250.00	6,799.0	1,287.9	-875.7	1,548.2	1.00	1.00	0.00	
<b>TOP_GAS.MBL</b>										
7,000.0	1.05	250.00	6,803.6	1,287.8	-875.8	1,548.3	1.00	1.00	0.00	
7,100.0	2.05	250.00	6,903.5	1,286.9	-878.3	1,549.2	1.00	1.00	0.00	
7,200.0	3.05	250.00	7,003.4	1,285.4	-882.5	1,550.8	1.00	1.00	0.00	
7,220.3	3.25	250.00	7,023.7	1,285.0	-883.6	1,551.1	1.00	1.00	0.00	
7,300.0	3.25	250.00	7,103.3	1,283.5	-887.8	1,552.7	0.00	0.00	0.00	
7,400.0	3.25	250.00	7,203.1	1,281.5	-893.1	1,554.7	0.00	0.00	0.00	
7,500.0	3.25	250.00	7,303.0	1,279.6	-898.5	1,556.7	0.00	0.00	0.00	
7,600.0	3.25	250.00	7,402.8	1,277.7	-903.8	1,558.7	0.00	0.00	0.00	
7,700.0	3.25	250.00	7,502.6	1,275.7	-909.1	1,560.6	0.00	0.00	0.00	
7,800.0	3.25	250.00	7,602.5	1,273.8	-914.4	1,562.6	0.00	0.00	0.00	
7,900.0	3.25	250.00	7,702.3	1,271.8	-919.8	1,564.6	0.00	0.00	0.00	
8,000.0	3.25	250.00	7,802.2	1,269.9	-925.1	1,566.6	0.00	0.00	0.00	
8,100.0	3.25	250.00	7,902.0	1,268.0	-930.4	1,568.6	0.00	0.00	0.00	
8,200.0	3.25	250.00	8,001.8	1,266.0	-935.7	1,570.5	0.00	0.00	0.00	
8,300.0	3.25	250.00	8,101.7	1,264.1	-941.1	1,572.5	0.00	0.00	0.00	
8,400.0	3.25	250.00	8,201.5	1,262.2	-946.4	1,574.5	0.00	0.00	0.00	
8,500.0	3.25	250.00	8,301.4	1,260.2	-951.7	1,576.5	0.00	0.00	0.00	
8,600.0	3.25	250.00	8,401.2	1,258.3	-957.0	1,578.4	0.00	0.00	0.00	

<b>Database:</b>	US_EDM	<b>Local Co-ordinate Reference:</b>	Well NPR 11B-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 11B-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	3.25	250.00	8,501.0	1,256.3	-962.4	1,580.4	0.00	0.00	0.00	
8,800.0	3.25	250.00	8,600.9	1,254.4	-967.7	1,582.4	0.00	0.00	0.00	
8,900.0	3.25	250.00	8,700.7	1,252.5	-973.0	1,584.4	0.00	0.00	0.00	
9,000.0	3.25	250.00	8,800.5	1,250.5	-978.3	1,586.4	0.00	0.00	0.00	
9,100.0	3.25	250.00	8,900.4	1,248.6	-983.7	1,588.3	0.00	0.00	0.00	
9,200.0	3.25	250.00	9,000.2	1,246.7	-989.0	1,590.3	0.00	0.00	0.00	
9,300.0	3.25	250.00	9,100.1	1,244.7	-994.3	1,592.3	0.00	0.00	0.00	
9,387.1	3.25	250.00	9,187.0	1,243.0	-999.0	1,594.0	0.00	0.00	0.00	
<b>CAMEO.MBL</b>										
9,400.0	3.25	250.00	9,199.9	1,242.8	-999.6	1,594.3	0.00	0.00	0.00	
9,500.0	3.25	250.00	9,299.7	1,240.8	-1,005.0	1,596.3	0.00	0.00	0.00	
9,600.0	3.25	250.00	9,399.6	1,238.9	-1,010.3	1,598.2	0.00	0.00	0.00	
9,700.0	3.25	250.00	9,499.4	1,237.0	-1,015.6	1,600.2	0.00	0.00	0.00	
9,800.0	3.25	250.00	9,599.3	1,235.0	-1,020.9	1,602.2	0.00	0.00	0.00	
9,900.0	3.25	250.00	9,699.1	1,233.1	-1,026.3	1,604.2	0.00	0.00	0.00	
10,000.0	3.25	250.00	9,798.9	1,231.1	-1,031.6	1,606.2	0.00	0.00	0.00	
10,075.2	3.25	250.00	9,874.0	1,229.7	-1,035.6	1,607.6	0.00	0.00	0.00	
<b>ROLLINS.MBL</b>										
10,100.0	3.25	250.00	9,898.8	1,229.2	-1,036.9	1,608.1	0.00	0.00	0.00	
10,200.0	3.25	250.00	9,998.6	1,227.3	-1,042.3	1,610.1	0.00	0.00	0.00	
10,250.5	3.25	250.00	10,049.0	1,226.3	-1,044.9	1,611.1	0.00	0.00	0.00	
<b>TD.MBL - BHL 514'FNL, 1316'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 1742'FNL, 2360'FM - hit/miss target - Shape - Point	0.00	0.00	1.0	0.0	0.0	14,404,586.84	2,436,008.24	39.632058	-108.174516	
BHL 514'FNL, 1316'FWL - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	10,049.0	1,226.3	-1,044.9	14,405,780.03	2,434,924.88	39.635425	-108.178226	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
2,564.0	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 11B-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 11B-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 (°)	
2,059.3	2,012.0	WASATCH.MBL		0.00		
4,541.4	4,412.0	WASATCH_G_ZONE.MBL		0.00		
4,849.6	4,710.0	FORT_UNION.MBL		0.00		
6,706.1	6,510.0	OHIO_CREEK.MBL		0.00		
6,945.4	6,749.0	WILLIAMS_FORK.MBL		0.00		
6,995.4	6,799.0	TOP_GAS.MBL		0.00		
9,387.1	9,187.0	CAMEO.MBL		0.00		
10,075.2	9,874.0	ROLLINS.MBL		0.00		
10,250.5	10,049.0	TD.MBL		0.00		