



Well Name: WAAG 4  
Surface Location: WAAG NORTH  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4902.0  
WELL @ 4918.0ft (Xtreme 7 Rig)  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1450717.52 3219686.39 40° 34' 4.548 N 104° 42' 33.264 W WAAG 4

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1528.6	12.57	122.71	1523.5	-37.1	57.8	2.00	122.71	-52.2	
4	6226.1	12.57	122.71	6108.5	-589.7	918.1	0.00	0.00	-829.3	
5	6854.7	0.00	0.00	6732.0	-626.8	975.8	2.00	180.00	-881.5	
6	6884.7	0.00	0.00	6762.0	-626.8	975.8	0.00	0.00	-881.5	
7	7784.7	90.00	270.75	7335.0	-619.3	402.9	10.00	270.75	-314.9	
8	82269.3	90.00	270.75	7335.0	-560.7	-4081.3	0.00	0.00	4119.6	TD / PBHL WAAG NORTH 4



Azimuths to True North  
Magnetic North: 8.43°  
Magnetic Field  
Strength: 52894.4snT  
Dip Angle: 67.09°  
Date: 8/1/2014  
Model: IGRF2010

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LP WAAG NORTH 4	7335.0	-619.3	402.8	40° 33' 58.428 N	104° 42' 28.044 W	Point
TD / PBHL WAAG NORTH 4	7335.0	-560.7	-4081.3	40° 33' 59.004 N	104° 43' 26.148 W	Point

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3610.0	3666.3	PARKMAN
4337.0	4411.1	SUSSEX
4730.0	4813.8	SHANNON
7008.0	7139.0	NIOBRARA
7148.0	7308.2	NIO B TARGET
7292.0	7561.4	FORT HAYS
7325.0	7677.7	CODELL

