



Well Name: WAAG 18  
Surface Location: WAAG MIDDLE  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4882.0  
WELL @ 4898.0ft (Xtreme 7)

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1448107.50 3220340.41 40° 33' 38.700 N 104° 42' 25.092 W WAAG 18

#### 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	1588.1	13.76	164.80	1581.5	-79.4	21.6	2.00	164.80	-2.7	
4	5986.4	13.76	164.80	5853.5	-1089.0	295.8	0.00	0.00	-36.5	
5	6674.4	0.00	0.00	6535.0	-1168.4	317.4	2.00	180.00	-39.2	
6	6704.4	0.00	0.00	6565.0	-1168.4	317.4	0.00	0.00	-39.2	
7	7604.4	90.00	270.62	7138.0	-1162.2	-255.5	10.00	270.62	516.8	
8	2047.8	90.00	270.61	7138.0	-1114.3	-4698.7	0.00	0.00	4829.0	TD / PBHL WAAG MIDDLE 18

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LP WAAG MIDDLE 18	7138.0	-1162.2	-255.6	40° 33' 27.216 N	104° 42' 28.404 W	Point
TD / PBHL WAAG MIDDLE 18	7138.0	-1114.3	-4698.7	40° 33' 27.684 N	104° 43' 25.968 W	Point



Azimuths to True North  
Magnetic North: 8.42°

Magnetic Field

Strength: 52888.7nT

Dip Angle: 67.08°

Date: 8/9/2014

Model: IGRF2010

#### FORMATION TOP DETAILS

TVDP	MDP	Path	Formation
3610.0	3676.5		PARKMAN
4337.0	4425.0		SUSSEX
4730.0	4829.6		SHANNON
7008.0	7210.9		NIOBRARA

