



Well Name: WAAG 23  
Surface Location: WAAG SOUTH  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4868.0  
WELL @ 4884.0ft (Xtreme 7)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1445742.04	3220230.95	40° 33' 15.336 N	104° 42' 26.784 W	WAAG 23

#### 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	1158.5	5.17	64.60	1158.2	5.0	10.5	2.00	64.60	-10.2	
4	6298.1	5.17	64.60	6276.8	203.7	429.0	0.00	0.00	-416.6	
5	6556.6	0.00	0.00	6535.0	208.7	439.5	2.00	180.00	-426.8	
6	6586.6	0.00	0.00	6565.0	208.7	439.5	0.00	0.00	-426.8	
7	7486.6	90.00	270.62	7138.0	214.9	-133.4	10.00	270.62	145.6	
8	1918.9	90.00	270.62	7138.0	262.7	-4565.5	0.00	0.00	4573.0	TD / PBHL WAAG SOUTH 23



Azimuths to True North  
Magnetic North: 8.42°  
Magnetic Field  
Strength: 52887.2snT  
Dip Angle: 67.07°  
Date: 8/3/2014  
Model: IGRF2010

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LP WAAG SOUTH 23	7138.0	214.9	-133.4	40° 33' 17.460 N	104° 42' 28.512 W	Point
TD / PBHL WAAG SOUTH 23	7138.0	262.7	-4565.5	40° 33' 17.928 N	104° 43' 25.932 W	Point

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3610.0	3620.4	PARKMAN
4337.0	4350.3	SUSSEX
4730.0	4744.9	SHANNON
7008.0	7093.0	NIOBRARA

