



Well Name: WAAG 21  
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	1445782.49	3220272.27	40° 33' 15.732 N	104° 42' 26.244 W	WAAG 21

#### 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	1243.8	6.88	38.90	1242.9	16.0	12.9	2.00	38.90	-10.9	
4	6228.7	6.88	38.90	6192.1	480.5	387.7	0.00	0.00	-327.9	
5	6572.5	0.00	0.00	6535.0	496.5	400.6	2.00	180.00	-338.9	
6	6602.5	0.00	0.00	6565.0	496.5	400.6	0.00	0.00	-338.9	
7	7502.5	90.00	270.62	7138.0	502.7	-172.3	10.00	270.62	230.8	
8	1937.5	90.00	270.62	7138.0	550.5	-4607.1	0.00	0.00	4639.9	TD / PBHL WAAG SOUTH 21



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 21	7138.0	502.7	-172.3	40° 33' 20.700 N	104° 42' 28.476 W	Point
TD / PBHL WAAG SOUTH 21	7138.0	550.5	-4607.1	40° 33' 21.168 N	104° 43' 25.932 W	Point

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3610.0	3628.0	PARKMAN
4337.0	4360.2	SUSSEX
4730.0	4756.1	SHANNON
7008.0	7108.9	NIOBRARA

