



Well Name: WAAG 9
 Surface Location: WAAG MIDDLE
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4886.0
 WELL @ 4902.0ft (Xtreme 7)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1448358.88	3220340.94	40° 33' 41.184 N	104° 42' 25.056 W	WAAG 9

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	1262.2	7.24	29.61	1261.3	19.9	11.3	2.00	29.61	-8.5	
4	46214.2	7.24	29.61	6173.7	562.8	319.9	0.00	0.00	-240.1	
5	56576.5	0.00	0.00	6535.0	582.7	331.2	2.00	180.00	-248.6	
6	66606.5	0.00	0.00	6565.0	582.7	331.2	0.00	0.00	-248.6	
7	7506.5	90.00	270.75	7138.0	590.2	-241.7	10.00	270.75	320.0	
8	1974.5	90.00	270.76	7138.0	648.9	-4709.4	0.00	0.00	4753.9	TD / PBHL WAAG MIDDLE 9



Azimuths to True North
 Magnetic North: 8.42°
 Magnetic Field
 Strength: 52889.6snT
 Dip Angle: 67.08°
 Date: 8/7/2014
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LP WAAG MIDDLE 9	7138.0	590.2	-241.7	40° 33' 47.016 N	104° 42' 28.188 W	Point
TD / PBHL WAAG MIDDLE 9	7138.0	648.9	-4709.4	40° 33' 47.592 N	104° 43' 26.076 W	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3610.0	3629.9	PARKMAN
4337.0	4362.7	SUSSEX
4730.0	4758.9	SHANNON
7008.0	7112.9	NIOBRARA

