



Well Name: WAAG 19
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	1445819.26	3220310.85	40° 33' 16.092 N	104° 42' 25.740 W	WAAG 19

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	1448.5	10.97	21.03	1445.1	48.9	18.8	2.00	21.03	-8.0	
4	6278.5	10.97	21.03	6186.9	906.7	348.5	0.00	0.00	-148.1	
5	6826.9	0.00	0.00	6732.0	955.6	367.3	2.00	180.00	-156.1	
6	6856.9	0.00	0.00	6762.0	955.6	367.3	0.00	0.00	-156.1	
7	7756.9	90.00	270.62	7335.0	961.8	-205.6	10.00	270.62	405.1	
8	2200.2	90.00	270.61	7335.0	1009.6	-4648.7	0.00	0.00	4757.0	TD / PBHL WAAG SOUTH 19



Azimuths to True North
Magnetic North: 8.42°

Magnetic Field
Strength: 52887.3snT
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 19	7335.0	961.8	-205.6	40° 33' 25.596 N	104° 42' 28.404 W	Point
TD / PBHL WAAG SOUTH 19	7335.0	1009.6	-4648.7	40° 33' 26.064 N	104° 43' 25.968 W	Point

FORMATION TOP DETAILS

TVDP	Path	MD	Path	Formation
3610.0	3653.6			PARKMAN
4337.0	4394.2			SUSSEX
4730.0	4794.5			SHANNON
7008.0	7111.2			NIOBRARA
7148.0	7280.5			NIO B TARGET
7292.0	7533.7			FORT HAYS
7325.0	7650.0			CODELL

