



Well Name: WAAG 16  
Surface Location: WAAG MIDDLE  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4883.0  
WELL @ 4899.0ft (Xtreme 7)

| +N/-S | +E/-W | Northing   | Easting    | Latitude         | Longitude         | Slot    |
|-------|-------|------------|------------|------------------|-------------------|---------|
| 0.0   | 0.0   | 1448165.78 | 3220339.88 | 40° 33' 39.276 N | 104° 42' 25.092 W | WAAG 16 |

#### 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   | 1320.1 | 8.40  | 156.18 | 1318.6 | -28.1  | 12.4    | 2.00  | 156.18 | -8.3   |                          |
| 4   | 6369.1 | 8.40  | 156.18 | 6313.4 | -703.1 | 310.4   | 0.00  | 0.00   | -207.0 |                          |
| 5   | 6789.2 | 0.00  | 0.00   | 6732.0 | -731.2 | 322.8   | 2.00  | 180.00 | -215.3 |                          |
| 6   | 6819.2 | 0.00  | 0.00   | 6762.0 | -731.2 | 322.8   | 0.00  | 0.00   | -215.3 |                          |
| 7   | 7719.2 | 90.00 | 270.62 | 7335.0 | -725.0 | -250.1  | 10.00 | 270.62 | 350.9  |                          |
| 8   | 2170.7 | 90.00 | 270.61 | 7335.0 | -677.2 | -4701.3 | 0.00  | 0.00   | 4749.9 | TD / PBHL WAAG MIDDLE 16 |

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

| Name                     | TVD    | +N/-S  | +E/-W   | Latitude         | Longitude         | Shape |
|--------------------------|--------|--------|---------|------------------|-------------------|-------|
| LP WAAG MIDDLE 16        | 7335.0 | -725.0 | -250.1  | 40° 33' 32.112 N | 104° 42' 28.332 W | Point |
| TD / PBHL WAAG MIDDLE 16 | 7335.0 | -677.2 | -4701.3 | 40° 33' 32.580 N | 104° 43' 26.004 W | Point |

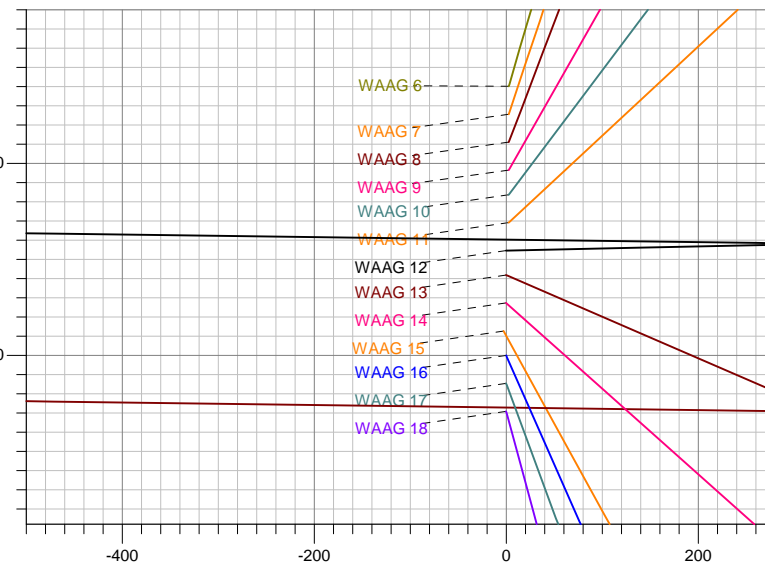


Azimuths to True North  
Magnetic North: 8.42°  
  
Magnetic Field  
Strength: 52888.8snT  
Dip Angle: 67.08°  
Date: 8/9/2014  
Model: IGRF2010

#### FORMATION TOP DETAILS

| TVDPath | MDPath | Formation    |
|---------|--------|--------------|
| 3610.0  | 3636.4 | PARKMAN      |
| 4337.0  | 4371.3 | SUSSEX       |
| 4730.0  | 4768.5 | SHANNON      |
| 7008.0  | 7073.5 | NIOBRARA     |
| 7148.0  | 7242.7 | NIO B TARGET |
| 7292.0  | 7495.9 | FORT HAYS    |
| 7325.0  | 7612.2 | CODELL       |

South(-)/North(+) (200 ft/in)



West(-)/East(+) (200 ft/in)

