

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: Schaefer 10E-223

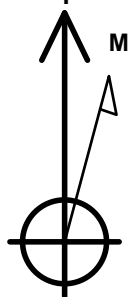
Surface Location: Schaefer Pad Sec.10-T6N-R63W
North American Datum 1983 , US State Plane 1983Colorado Northern Zone
Ground Elevation: 4697.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1429803.08 | 3298215.30 | 40.508260 | -104.427510 | |

RKB Ensign 32 - 15' WELL @ 4712.0ft (RKB Ensign 32 - 15')

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---------------------------|--------|---------|--------|------------|------------|-----------|-------------|---------|
| HARDLINE 460'FWL | 1.0 | -4776.1 | -923.3 | 1425016.33 | 3297349.86 | 40.495150 | -104.430830 | Polygon |
| HARDLINE BHL 460'FSL | 1.0 | -4776.1 | -923.3 | 1425016.33 | 3297349.86 | 40.495150 | -104.430830 | Polygon |
| HARDLINE SHL 460'FNL | 1.0 | -305.0 | -923.3 | 1429486.95 | 3297295.79 | 40.507423 | -104.430830 | Polygon |
| SECTION LINE 155'N OF SHL | 1.0 | 155.0 | -923.3 | 1429946.90 | 3297290.22 | 40.508685 | -104.430830 | Polygon |
| BHL 500'FSL & 560'FWL | 6557.0 | -4736.1 | -823.3 | 1425057.52 | 3297449.40 | 40.495260 | -104.430470 | Point |



Azimuths to True North
Magnetic North: 8.59°

Magnetic Field
Strength: 53148.6snT
Dip Angle: 67.17°
Date: 3/5/2012
Model: IGRF2010

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------|
| 200.0 | 200.0 | KOP #1 |
| 5837.8 | 5901.9 | KOP #2 |
| 6601.7 | 7110.3 | End of Build |

Schaefer Pad Sec.10-T6N-R63W
Schaefer 10E-223
Plan #1 (3-5-12)
12:43, March 21 2012

