

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: Spaur 31V-214

Surface Location: Spaur NE-31 Pad Sec.31-T7N-R63W
North American Datum 1983, US State Plane 1983, Colorado Northern Zone

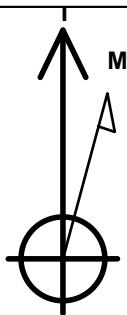
Ground Elevation: 4758.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1439083.04	3285949.79	40.534130	-104.471230	

RKB Ensign 32 - 15' WELL @ 4773.0ft (RKB Ensign 32 - 15')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINES BHL 460'FWL	1.0	-85.0	-4515.2	Polygon
HARDLINES SHL 460'FEL	1.0	-200.0	-210.0	Polygon
SECTION HARDLINES 250'E OF SHL	1.0	-200.0	250.0	Polygon
BHL 680'FNL, 500'FWL	6773.0	485.0	-4475.2	Point



Azimuths to True North
Magnetic North: 8.62°

Magnetic Field
Strength: 53154.7snT
Dip Angle: 67.18°
Date: 3/13/2012
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
6009.1	6055.8	KOP #2
6773.0	7255.8	End of Build

Spaur NE-31 Pad Sec.31-T7N-R63W
Spaur 31V-214
Plan #1 (3-07-12)
13:06, March 13 2012

