

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: Magnuson 231-421

Surface Location: Magnuson Pad Sec.23-T7N-R66W

North American Datum 1983 , US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4899.0

+N/-S

+E/-W

Northing

Easting

Latitude

Longitude

Slot

0.0

0.0

1445544.13

3207936.15

40.554010

-104.751690

RKB Ensign 32 - 15'

WELL @ 4914.0ft (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' (1)	1.0	4634.1	-242.9	1450175.87	3207654.20	40.566730	-104.752564	Polygon
HARDLINE BHL 460'FNL (2)	1.0	4641.4	-244.5	1450183.16	3207652.50	40.566750	-104.752570	Polygon
HARDLINE SHL 460'FSL (2)	1.0	235.0	-300.0	1445776.58	3207634.18	40.554655	-104.752770	Polygon
SECTIONLINE 225'S OF SHL (2)	1.0	-225.0	-300.0	1445316.62	3207638.06	40.553392	-104.752770	Polygon
BHL 500'FNL & 660'FWL	7414.0	4601.4	-44.5	1450144.85	3207852.87	40.566640	-104.751850	Point

M

Azimuths to True North  
Magnetic North: 8.75°

Magnetic Field  
Strength: 53115.8snT  
Dip Angle: 67.15°  
Date: 5/16/2012  
Model: IGRF2010

ANNOTATIONS

TVD

MD

Annotation

600.0

600.0

KOP #1

6639.2

6661.8

KOP #2

7419.4

8038.4

End of Build

Magnuson Pad Sec.23-T7N-R66W

Magnuson 231-421

Plan #1 (5-16-12)

8:56, May 22 2012

