

PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: **Rickards 41-10H (SHL 48'FNL, 990'FEL)**

Surface Location: Rickards 41-10H Sec.10-TN-R61W

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

Ground Elevation: 4695.0

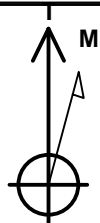
+N/-S+E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1431276.89 3364452.02 40° 30' 35.503 N 104° 11' 21.307 W
Original Well Elev WELL @ 4709.0ft (Original Well Elev)

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Target BHL 500'FSL, 1020'FEL	6175.0	-4749.2	2.8	1426528.38	3364525.00	40° 29' 48.574 N	104° 11' 21.271 W	

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	5634.1	0.00	0.00	5634.1	0.0	0.0	0.00	0.00	0.0	
3	6538.5	90.44	179.97	6207.0	-577.4	0.3	10.00	179.97	577.4	
4	10710.5	90.44	179.97	6175.0	-4749.2	2.8	0.00	0.00	4749.2	Target BHL 500'FSL, 1020'FEL



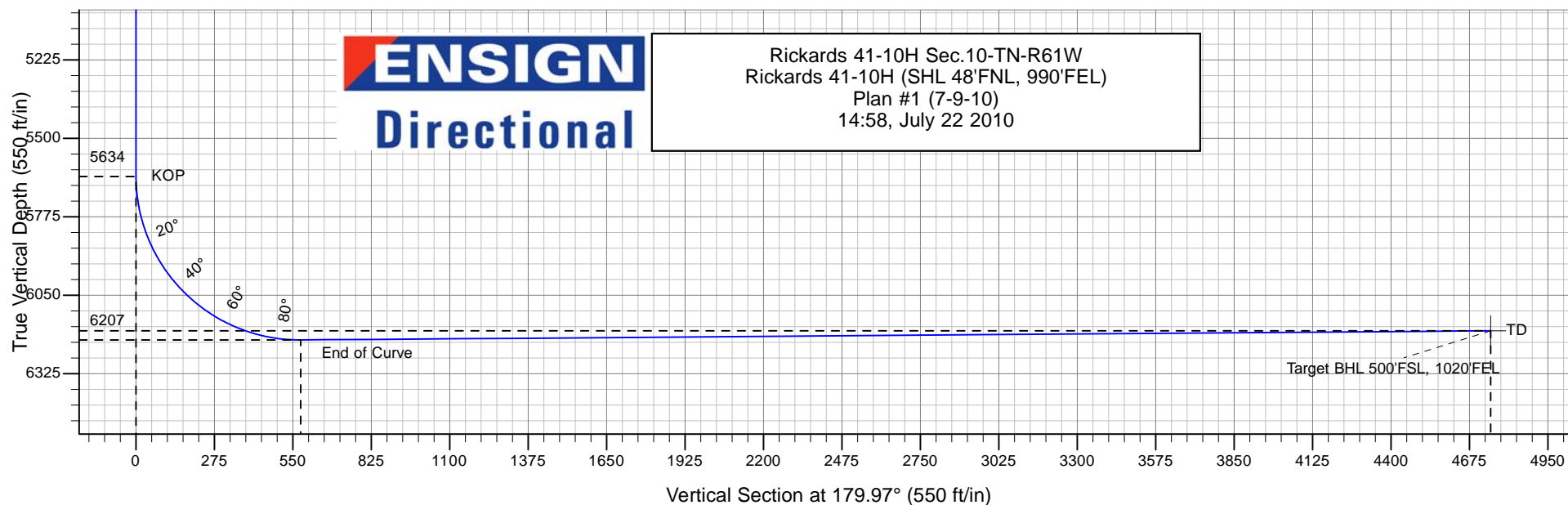
Azimuths to True North
Magnetic North: 8.69°

Magnetic Field
Strength: 53350.3srT
Dip Angle: 67.27°
Date: 7/9/2010
Model: IGRF2010

ANNOTATIONS

TVD	MD	Annotation
5634.1	5634.1	KOP
6207.0	6538.5	End of Curve
6175.0	10710.5	TD

Rickards 41-10H Sec.10-TN-R61W
Rickards 41-10H (SHL 48'FNL, 990'FEL)
Plan #1 (7-9-10)
14:58, July 22 2010



South(-)/North(+) (1700 ft/in)

SHL 48'FNL & 990'FEL

BHL 500'FSL & 1020'FEL

West(-)/East(+) (1700 ft/in)