



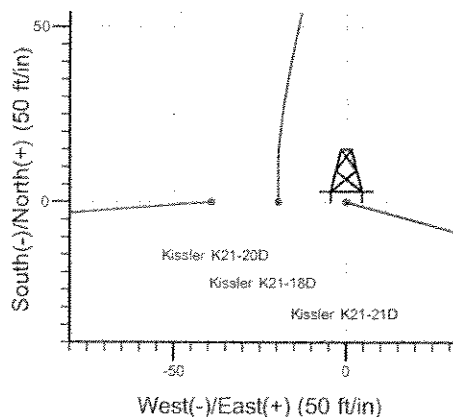
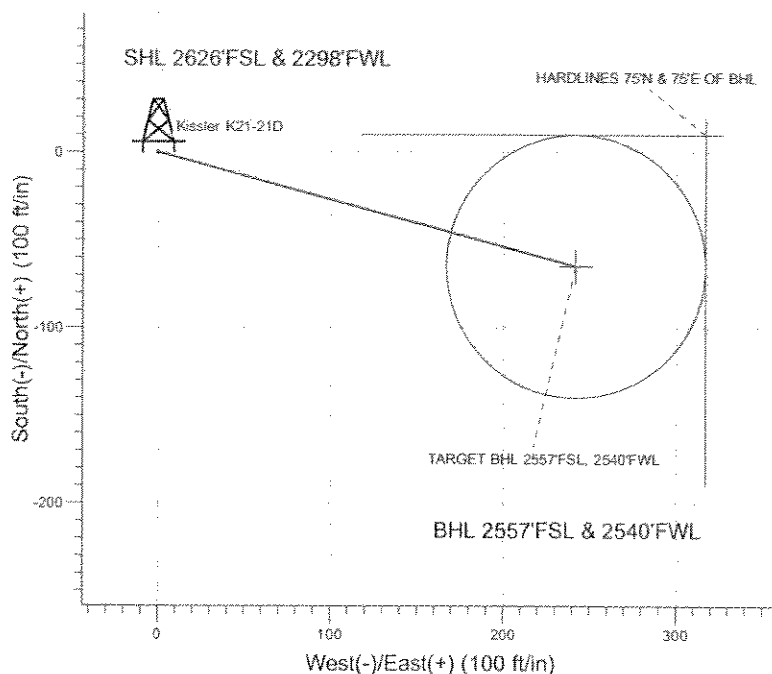
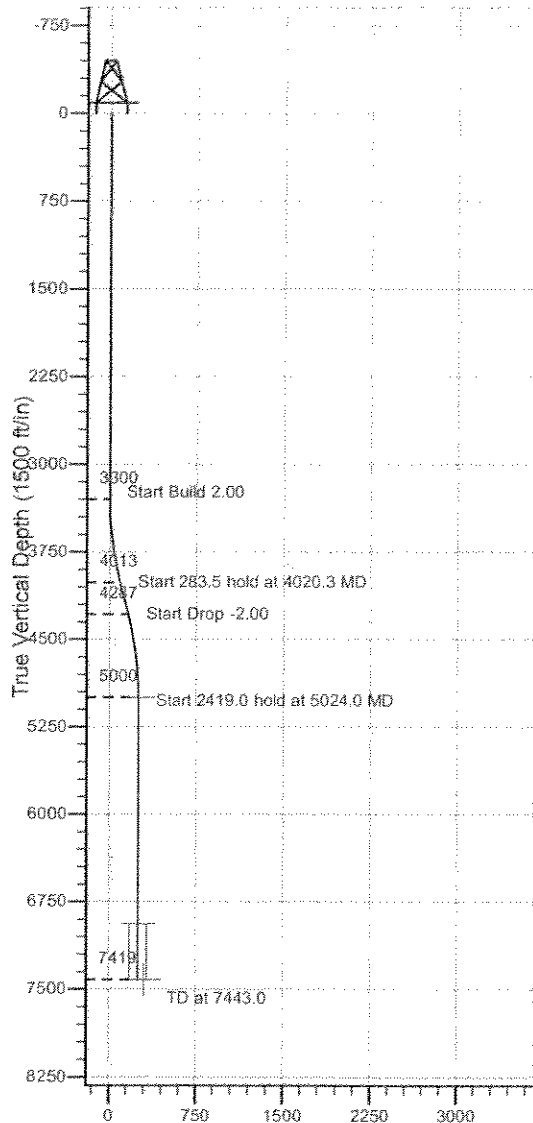
02529015

ENSIGN**Directional****Well Name: Kissler K21-21D**Surface Location: Kissler K21-21D Pad Sec.21-T4N-R66W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4756.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	-0.0	1351878.08	3199811.57	40° 17' 49.524 N	104° 47' 1.140 W	

Original Well Elev WELL @ 4769.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO

Kissler K21-21D Pad Sec.21-T4N-R66W
Kissler K21-21D
Noble Kissler K21-21D Plan #2 (4-18-10)
15:13, April 18 2010



Azimuths to True North
Magnetic North: 9.02°

Magnetic Field
Strength: 53198.2snT
Dip Angle: 67.00°
Date: 4/18/2010
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2557'FSL, 2540'FWL	5000.0	-64.9	242.1	40° 17' 48.882 N	104° 46' 58.015 W	Point
TARGET CIRCLE 2557'FSL, 2540'FWL	6941.0	-64.9	242.1	40° 17' 48.883 N	104° 46' 58.015 W	Circle (Radius: 75.0)
HARDLINES 75°N & 75°E OF BHL	7419.0	10.1	317.1	40° 17' 49.624 N	104° 46' 57.047 W	Polygon

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	3300.0	0.00	0.00	3300.0	0.0	0.0	0.00	0.00	0.0	
3	4020.3	14.41	105.01	4012.7	-23.3	87.0	2.00	105.01	90.1	
4	4303.8	14.41	105.01	4287.3	-41.6	155.1	0.00	0.00	160.6	
5	5024.0	0.00	0.00	5000.0	-64.9	242.1	2.00	180.00	250.7	TARGET BHL 2557'FSL, 2540'FWL
6	7443.0	0.00	0.00	7419.0	-64.9	242.1	0.00	0.00	250.7	