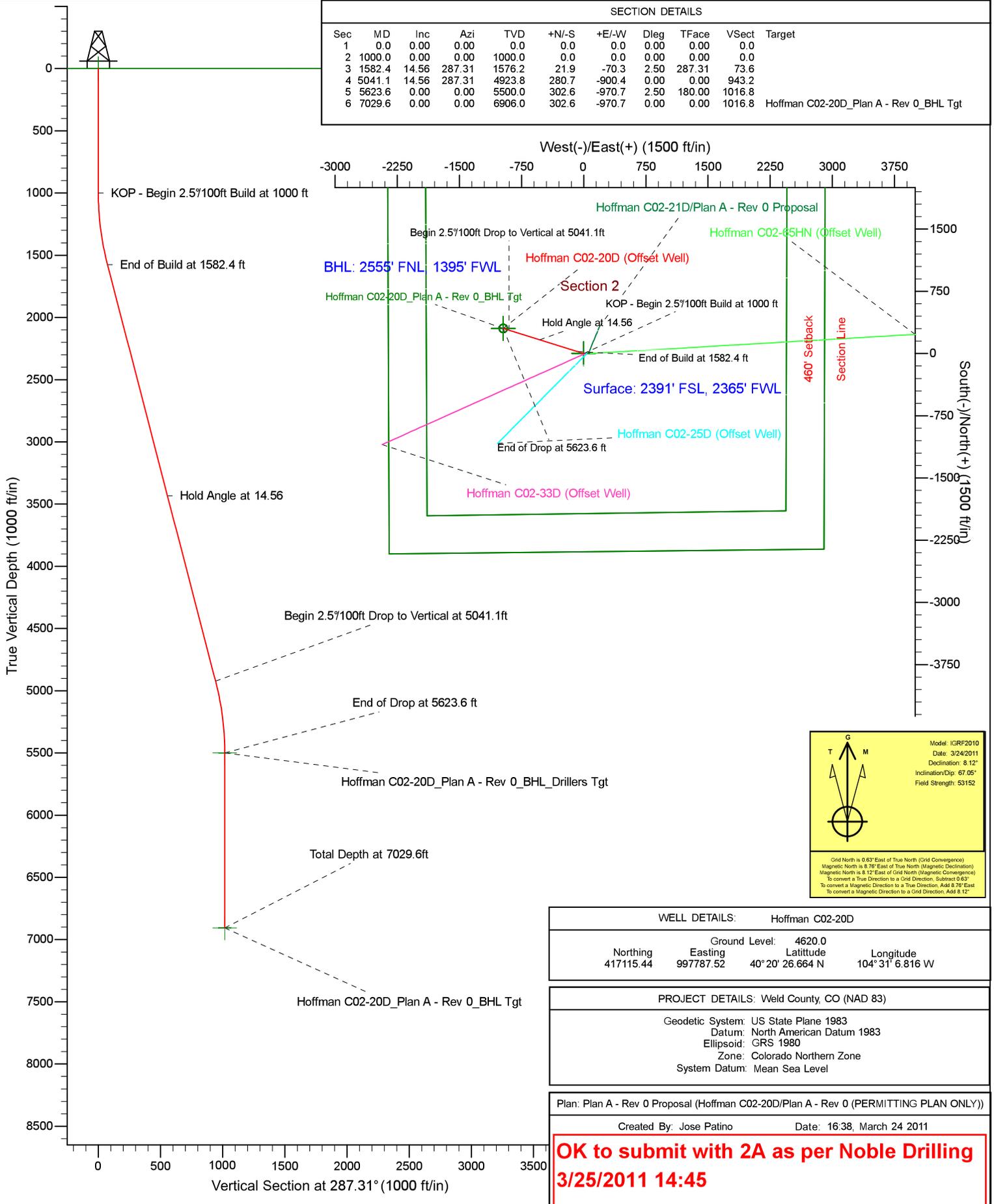


Noble Energy

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1582.4	14.56	287.31	1576.2	21.9	-70.3	2.50	287.31	73.6	
4	5041.1	14.56	287.31	4923.8	280.7	-900.4	0.00	0.00	943.2	
5	5623.6	0.00	0.00	5500.0	302.6	-970.7	2.50	180.00	1016.8	
6	7029.6	0.00	0.00	6906.0	302.6	-970.7	0.00	0.00	1016.8	Hoffman C02-20D_Plan A - Rev 0_BHL Tgt



Model: IGRF2010
 Date: 3/24/2011
 Declination: 8.12°
 Inclination/Dip: 67.05°
 Field Strength: 53152

Grid North is 0.63° East of True North (Grid Convergence)
 Magnetic North is 8.78° East of True North (Magnetic Declination)
 Magnetic North is 8.12° East of Grid North (Magnetic Convergence)
 To convert a True Direction to a Grid Direction, Subtract 0.63°
 To convert a Magnetic Direction to a True Direction, Add 8.78° East
 To convert a Magnetic Direction to a Grid Direction, Add 8.12°

WELL DETAILS: Hoffman C02-20D			
Ground Level:	4620.0	Latitude	40° 20' 26.664 N
Northing	417115.44	Easting	997787.52
Longitude	104° 31' 6.816 W		

PROJECT DETAILS: Weld County, CO (NAD 83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Colorado Northern Zone
System Datum:	Mean Sea Level

Plan: Plan A - Rev 0 Proposal (Hoffman C02-20D/Plan A - Rev 0 (PERMITTING PLAN ONLY))
 Created By: Jose Patino Date: 16:38, March 24 2011

**OK to submit with 2A as per Noble Drilling
 3/25/2011 14:45**