

**Annotations**

MD	Inc	Azi	TVD	+N-S	+E-W	VSect	Departure	Annotation
1379.00	32.70	320.10	1351.49	95.89	-84.97	128.11	0.00	Last Survey, Begin 7.00°/100' Build & Turn
1770.36	80.00	316.84	1619.11	304.80	-272.26	400.84	280.47	Hold 80.00° Inc, 316.84° Azm
1948.17	80.00	316.84	1700.01	416.92	-377.83	662.81	434.46	Begin 12.00°/100' Build & Turn
2198.28	90.00	317.67	1772.00	592.38	-538.82	801.31	673.27	Begin 90.00° Lateral
3076.40	90.00	317.67	1772.00	1241.57	-1130.97	1679.46	1651.42	PBHL

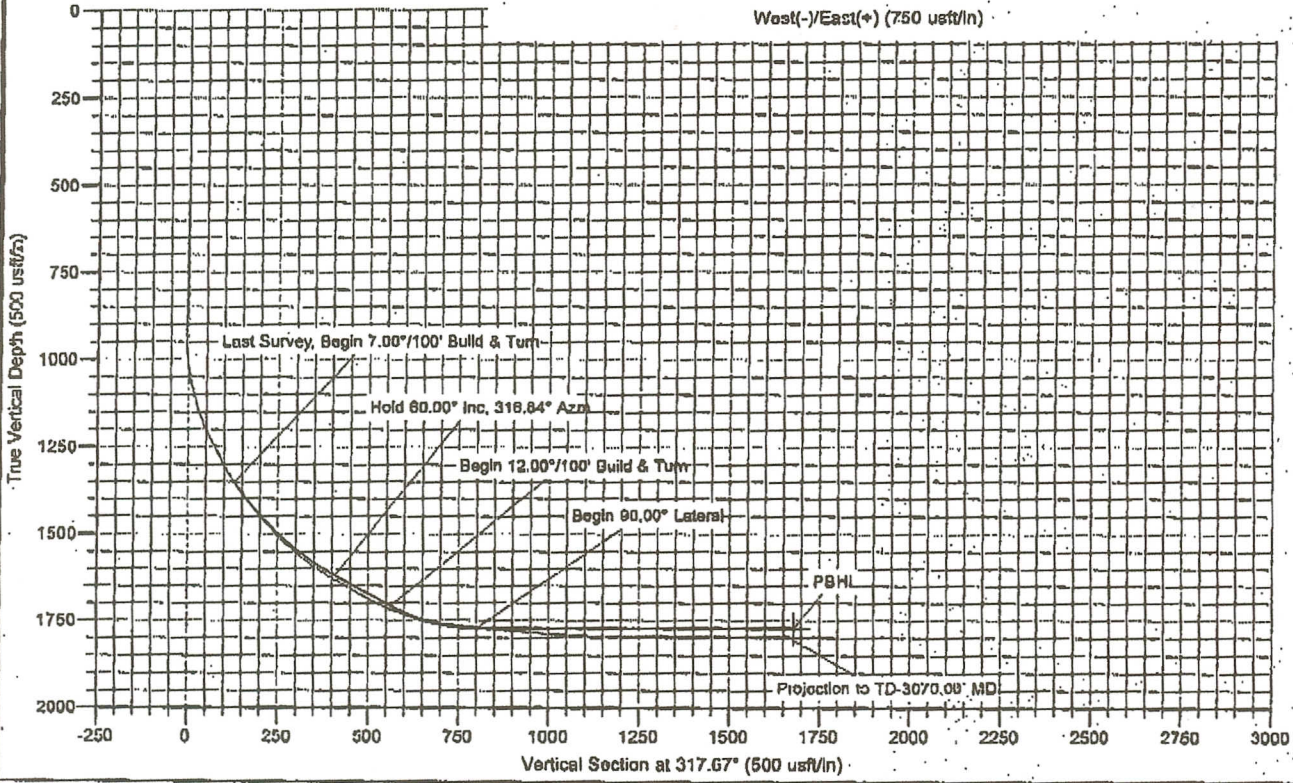
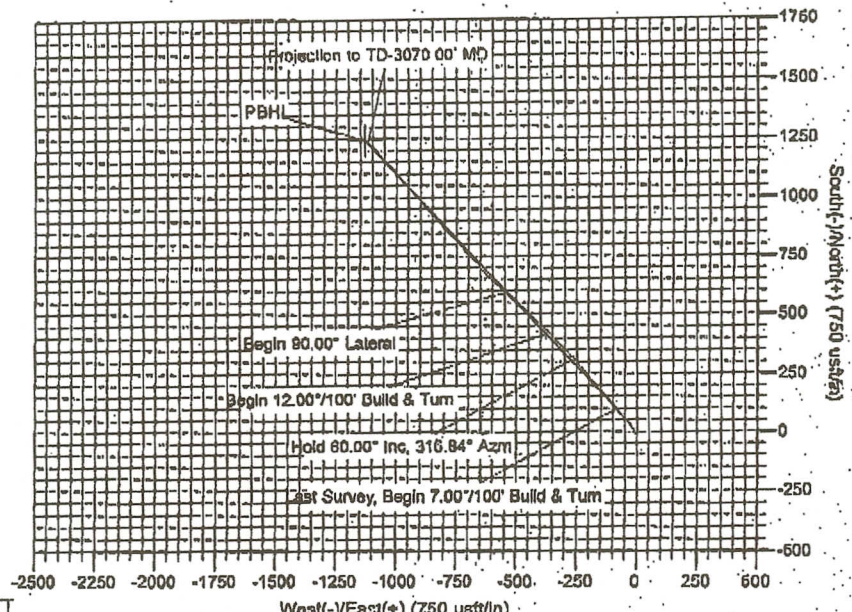
Azimuths to Grid-North  
 True North: -1.59°  
 Magnetic North: 1.44°  
 Magnetic Field Strength: 52388.8nT  
 Dip Angle: 66.24°  
 Date: 2013/06/11  
 Model: WMM\_2010

US State Plane 1983  
 Kansas Southern Zone

Created By: HLH  
 Date: 11/27, June 28 2013  
 Plan: Design #2

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The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.