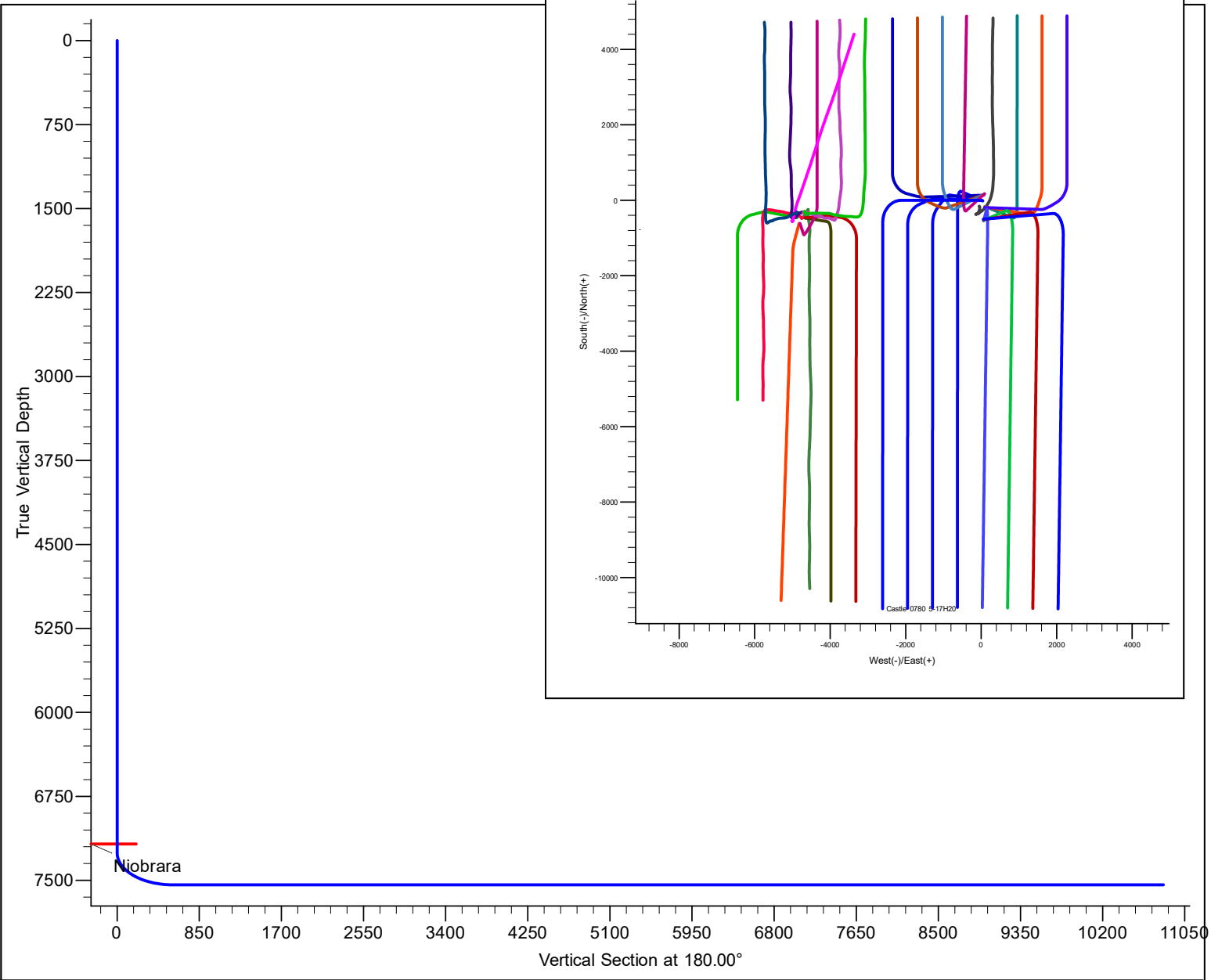


PROJECT DETAILS: North Park Basin										<div><div><div><div><div></div><div>G</div></div><div><div></div><div>T</div></div><div><div></div><div>M</div></div></div><div><div></div></div></div></div> <div><div>Azimuths to Grid North True North: 0.57° Magnetic North: 10.46° Magnetic Field Strength: 53191.9snT Dip Angle: 66.98° Date: 12/31/2009 Model: IGRF200510</div></div>			
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Colorado Northern Zone System Datum: Mean Sea Level													
FORMATION TOP DETAILS												CASING DETAILS	
TVDPPath 7175.0		MDPath 7636.2		Formation Niobrara		DipAngle 0.00		DipDir		No casing data is available			
DESIGN DETAILS: Design #1												Project: North Park Basin Site: T7N-R80W-S9 Well: Castle 0780 5-17H20 Wellbore: Wellbore #1 Design: Design #1	
0' Vertical Section coordinates													
Type User	Target	Azimuth 180.00	Origin Slot	Type	N/S 0.0	E/W 0.0	From	TVD 0.0					



SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0		
3	3713.6	24.27	270.00	3677.6	0.0	-253.2	2.00	270.00	0.0		
4	7196.6	24.27	270.00	6852.7	0.0	-1685.0	0.00	0.00	0.0		
5	7643.2	60.00	270.00	7178.5	0.0	-1979.8	8.00	0.00	0.0		
6	7793.2	60.00	270.00	7253.5	0.0	-2109.7	0.00	0.00	0.0		
7	8692.9	90.00	180.03	7539.9	-572.7	-2606.0	10.00	-89.99	572.7	Castle 5	
8	18949.4	90.00	180.03	7539.9	-10829.2	-2611.2	0.00	0.00	10829.2	Castle 5	