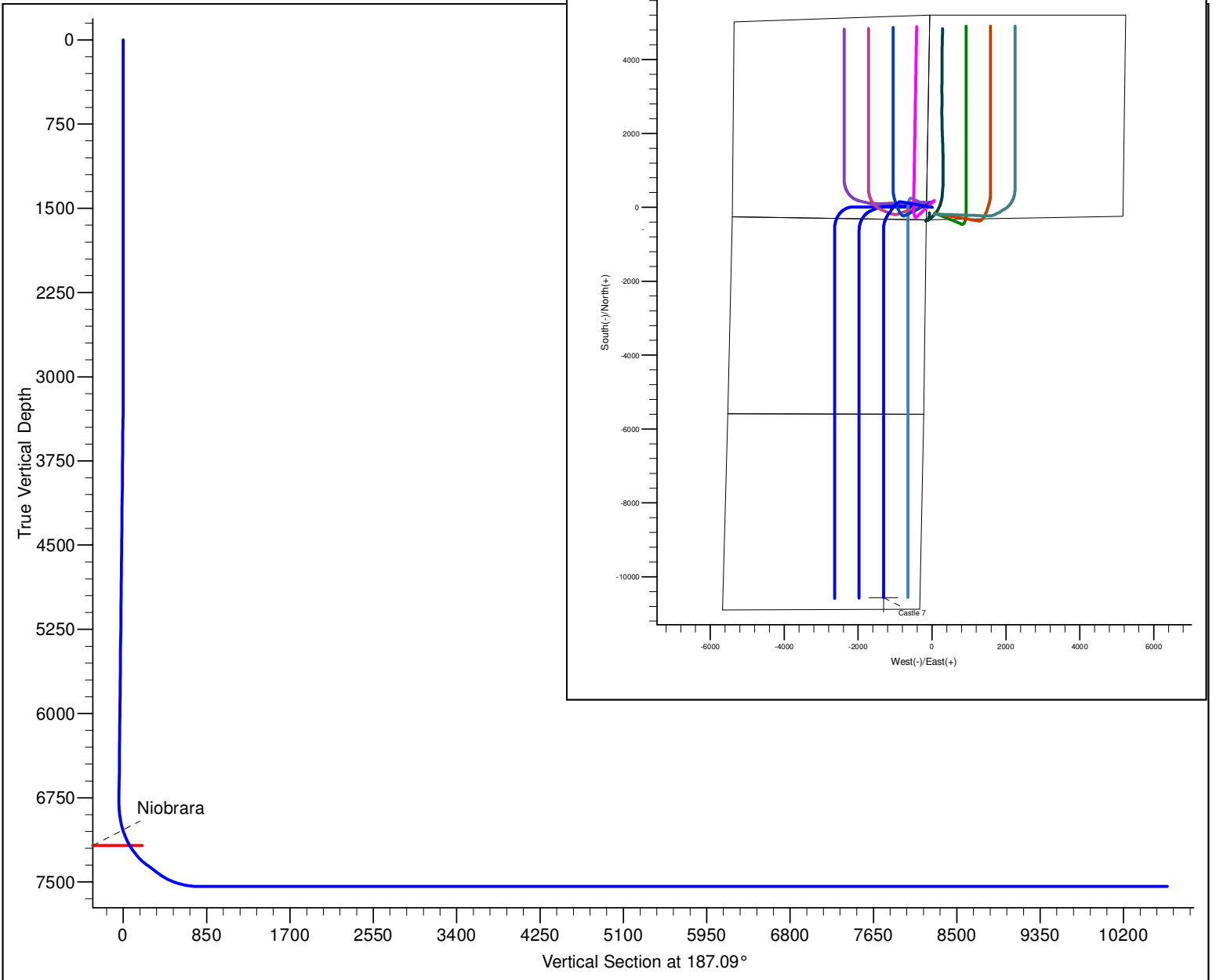


PROJECT DETAILS: North Park Basin										<div><div><div><div></div><div>G</div></div><div><div></div><div>T</div></div><div><div></div><div>M</div></div></div><div><div></div></div></div> <div><div>Azimuths to Grid North</div><div>True North: 0.57°</div><div>Magnetic North: 10.46°</div><div>Magnetic Field</div><div>Strength: 53191.9snT</div><div>Dip Angle: 66.98°</div><div>Date: 12/31/2009</div><div>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	
TVDPATH 7175.0		MDPATH 7315.3		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 7-17H20 Wellbore: Wellbore #1 Design: Design #1	
0' Vertical Section coordinates											
Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD			
TD		187.09	Slot		0.0	0.0		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	2800.0	0.00	0.00	2800.0	0.0	0.0	0.00	0.00	0.0		
3	3463.1	13.26	280.01	3457.2	13.3	-75.2	2.00	280.01	-3.9		
4	6892.6	13.26	280.01	6795.2	150.0	-850.0	0.00	0.00	-44.0		
5	7582.4	60.00	215.10	7346.7	-100.3	-1121.0	8.00	-72.80	237.8		
6	7732.4	60.00	215.10	7421.7	-206.6	-1195.6	0.00	0.00	352.5		
7	8181.2	90.00	180.00	7540.0	-610.9	-1313.5	10.00	-54.57	768.3	Castle 7	
8	18136.0	90.00	180.00	7540.0	-10565.7	-1313.4	0.00	0.00	10647.0	Castle 7	