

PROJECT DETAILS: North Park Basin

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Northern Zone

System Datum: Mean Sea Level



Azimuths to Grid North  
 True North: 0.57°  
 Magnetic North: 10.46°

Magnetic Field  
 Strength: 53192.1snT  
 Dip Angle: 66.98°  
 Date: 12/31/2009  
 Model: IGRF200510

FORMATION TOP DETAILS

TVDP	MDP	Path	Formation	Dip	Angle	Dip	Dir
7528.0	7849.0		Niobrara	0.00			

CASING DETAILS

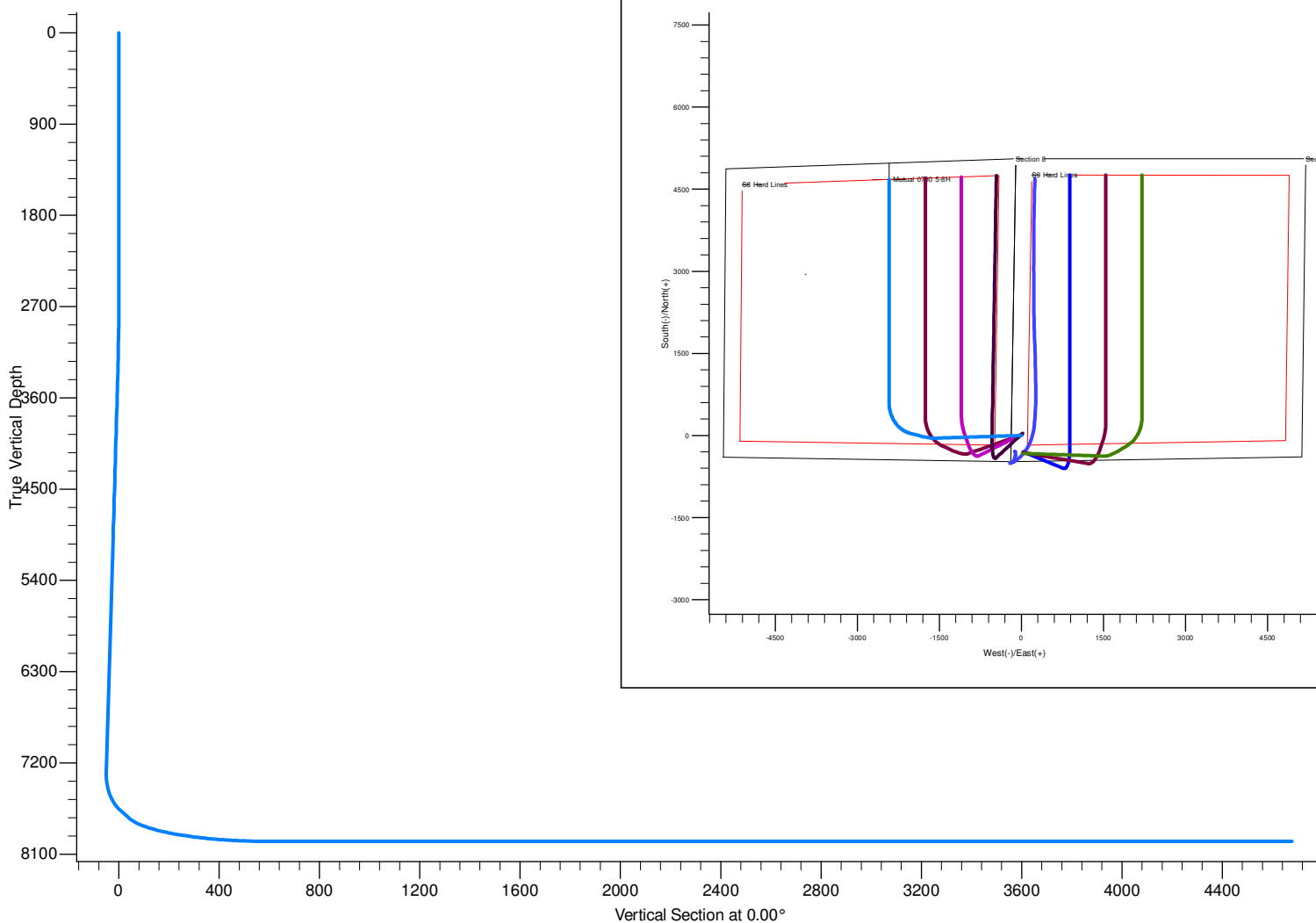
No casing data is available

DESIGN DETAILS: Design #1

0° Vertical Section coordinates

Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
Target	0.00		Slot	0.0	0.0	0.0	0.0	0.0

Project: North Park Basin  
 Site: T7N-R80W-S9  
 Well: Mutual 0780 5-8H  
 Wellbore: Wellbore #1  
 Design: Design #1



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	3527.4	20.55	268.21	3505.5	-5.7	-182.2	2.00	268.21	-5.7	
4	7568.8	20.55	268.21	7289.8	-50.0	-1600.0	0.00	0.00	-50.0	
5	8076.8	60.00	285.25	7670.7	7.5	-1914.6	8.00	22.93	7.5	
6	8226.8	60.00	285.25	7745.7	41.7	-2040.0	0.00	0.00	41.7	
7	8995.2	90.00	0.00	7973.0	599.6	-2419.6	10.00	82.24	599.6	Mutual 5-8H
8	13073.5	90.00	0.00	7973.0	4677.9	-2419.3	0.00	0.00	4677.9	Mutual 5-8H