



Project: Weld County, CO  
Site: Sec 7-T10N-R57W  
Well: Horsetail Fed #07G-0611  
Wellbore: Hz  
Design: Design #1

PROJECT DETAILS: Weld County, CO  
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 True North  
Magnetic North: 7.88°  
Magnetic Field  
Strength: 53087.8nT  
Dip Angle: 67.44°  
Date: 1/6/2015  
Model: IGRF2010

WELL DETAILS: Horsetail Fed #07G-0611

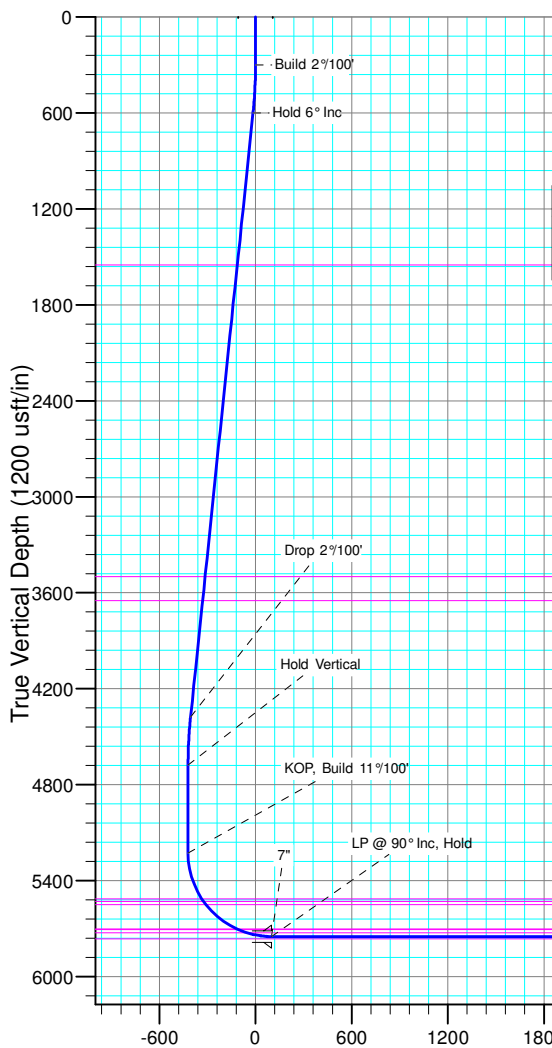
+N/-S	+E/-W	Northing	Ground Level:	4896.00	Longitude	Slot
0.00	0.00	1558330.90	Easting	3472664.73	40° 51' 12.580 N	103° 47' 28.850 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	600.00	6.00	190.00	599.45	-15.46	-2.73	2.00	190.00	-15.40	
4	4400.00	6.00	190.00	4378.63	-406.63	-71.70	0.00	0.00	-405.24	
5	4700.00	0.00	0.00	4678.09	-422.08	-74.42	2.00	180.00	-420.64	
6	5251.04	0.00	0.00	5229.13	-422.08	-74.42	0.00	0.00	-420.64	
7	6069.22	90.00	359.55	5750.00	98.77	-78.54	11.00	359.55	100.20	PBHL 0611A
8	13347.68	90.00	359.55	5750.00	7377.00	-135.98	0.00	0.00	7378.25	PBHL 0611A

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1555.78	Upper Pierre
3500.00	3516.53	Hygiene
3650.00	3667.35	Lower Pierre
5515.00	5553.65	P200 Marker
5530.00	5571.81	P300 Marker
5550.00	5596.74	P350 Marker
5702.00	5843.86	Sharon Springs
5707.00	5856.10	Niobrara
5727.00	5913.87	Top A Chalk



ANNOTATIONS										
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation		
300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'		
599.45	600.00	6.00	190.00	-15.46	-2.73	-15.40	15.69	Hold 6° Inc		
4378.63	4400.00	6.00	190.00	-406.63	-71.70	-405.24	412.90	Drop 2°/100'		
4678.09	4700.00	0.00	0.00	-422.08	-74.42	-420.64	428.60	Hold Vertical		
5229.13	5251.04	0.00	0.00	-422.08	-74.42	-420.64	428.60	KOP, Build 11°/100'		
5750.00	6069.22	90.00	359.55	98.77	-78.54	100.20	949.47	LP @ 90° Inc, Hold		
5750.00	13347.68	90.00	359.55	7377.00	-135.98	7378.25	8227.92	TD at 13347.68' MD		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 0611A	5750.00	7377.00	-135.98	1565703.90	3472386.64	40° 52' 25.470 N	103° 47' 30.620 W

SHL:  
2648' FNL, 1678' FEL  
Sec7-T10N-R57W  
BHL:  
600' FNL, 1796' FEL  
Sec6-T10N-R57W  
7":  
2549' FNL, 1756' FEL  
Sec7-T10N-R57W

