



Project: Weld County, CO  
Site: Sec 7-T10N-R57W  
Well: Horsetail #07G-0609  
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: 53087.7nT  
Dip Angle: 67.44°  
Date: 1/6/2015  
Model: IGRF2010

WELL DETAILS: Horsetail #07G-0609

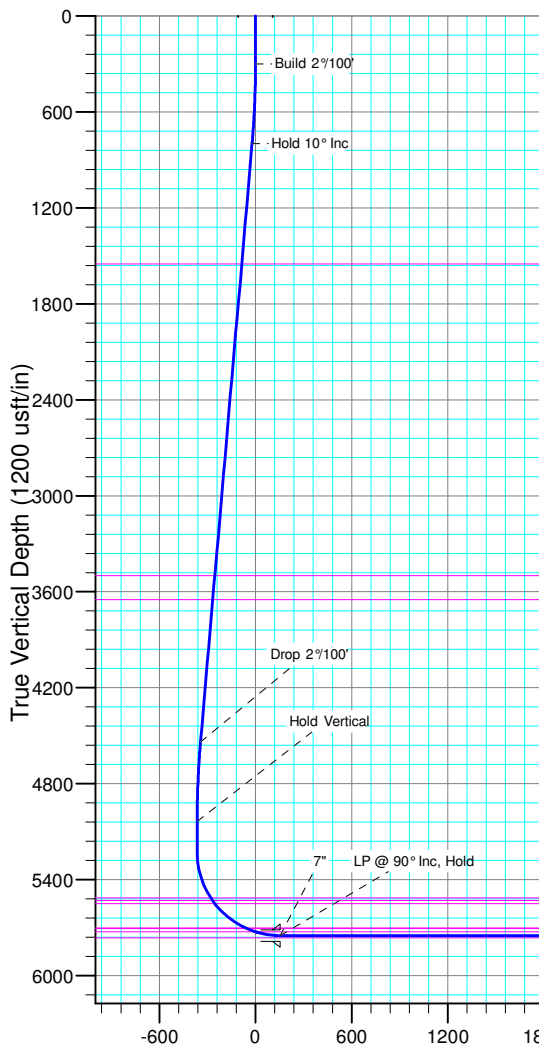
+N/-S	+E/-W	Northing	Ground Level: 4896.00	Eastings	Latitude	Longitude	Slot
0.00	0.00	1558332.62	3472544.02	40° 51' 12.620 N	103° 47' 30.420 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	800.00	10.00	235.00	797.46	-24.96	-35.65	2.00	235.00	-21.23	
4	4600.00	10.00	235.00	4539.73	-403.45	-576.18	0.00	0.00	-343.13	
5	5100.00	0.00	0.00	5037.20	-428.41	-611.83	2.00	180.00	-364.36	
6	5291.93	0.00	0.00	5229.13	-428.41	-611.83	0.00	0.00	-364.36	
7	6110.11	90.00	359.50	5750.00	92.44	-616.40	11.00	359.50	154.29	PBHL 0609A
8	12648.02	90.00	359.50	5750.00	6630.10	-673.76	0.00	0.00	6664.24	PBHL 0609A

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1564.14	Upper Pierre
3500.00	3544.23	Hygiene
3650.00	3696.54	Lower Pierre
5515.00	5594.54	P200 Marker
5530.00	5612.69	P300 Marker
5550.00	5637.63	P350 Marker
5702.00	5884.74	Sharon Springs
5707.00	5896.98	Niobrara
5727.00	5954.75	Top A Chalk



ANNOTATIONS								
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'
797.46	800.00	10.00	235.00	-24.96	-35.65	-21.23	43.52	Hold 10° Inc
4539.73	4600.00	10.00	235.00	-403.45	-576.18	-343.13	703.39	Drop 2°/100'
5037.20	5100.00	0.00	0.00	-428.41	-611.83	-364.36	746.91	Hold Vertical
5229.13	5291.93	0.00	0.00	-428.41	-611.83	-364.36	746.91	KOP, Build 11°/100'
5750.00	6110.11	90.00	359.50	92.44	-616.40	154.29	1267.78	LP @ 90° Inc, Hold
5750.00	12648.02	90.00	359.50	6630.10	-673.76	6664.24	7805.69	TD at 12648.02' MD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude
PBHL 0609A	5750.00	6630.10	-673.76	1564948.51	3471742.67	40° 52' 18.130 N	103° 47' 39.190 W

SHL:  
2643' FNL, 1798' FEL  
Sec7-T10N-R57W  
BHL:  
1337' FNL, 2450' FEL  
Sec6-T10N-R57W  
7":  
2551' FNL, 2414' FEL  
Sec7-T10N-R57W

