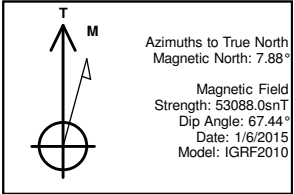




Project: Weld County, CO  
Site: Sec 7-T10N-R57W  
Well: Horsetail #07H-0614  
Wellbore: Hz  
Design: Design #1

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



WELL DETAILS: Horsetail #07H-0614

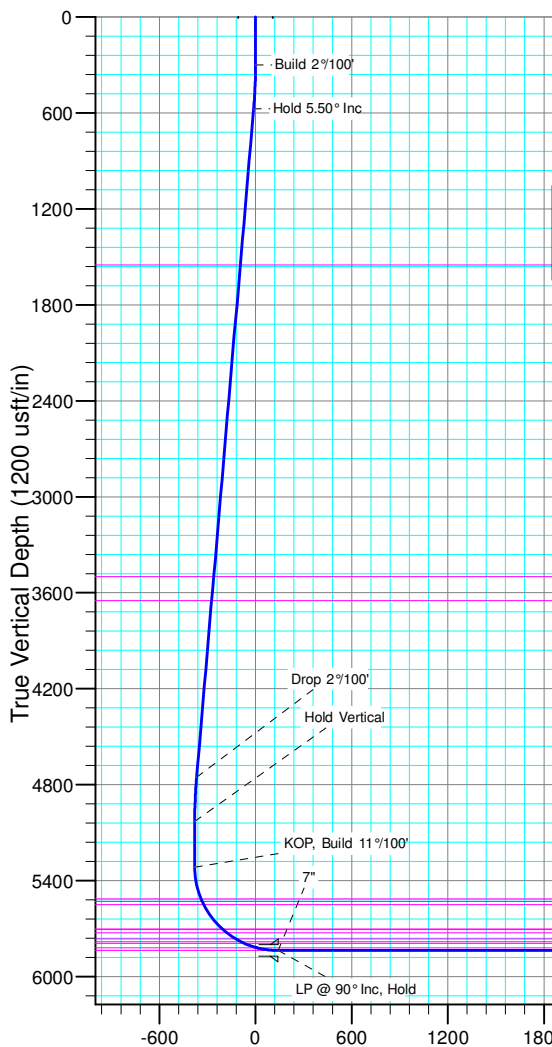
	+N/-S	+E/-W	Northing	Ground Level:	4908.90	Eastings	3473743.25	40° 51'	12.290 N	103° 47'	14.820 W	Slot
	0.00	0.00	1558322.34									

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	575.00	5.50	206.00	574.58	-11.85	-5.78	2.00	206.00	-11.67	
4	4775.00	5.50	206.00	4755.24	-373.67	-182.25	0.00	0.00	-367.76	
5	5050.00	0.00	0.00	5029.82	-385.52	-188.03	2.00	180.00	-379.43	
6	5336.31	0.00	0.00	5316.13	-385.52	-188.03	0.00	0.00	-379.43	
7	6154.49	90.00	359.67	5837.00	135.34	-191.02	11.00	359.67	141.27	PBHL 0614B
8	13435.75	90.00	359.67	5837.00	7416.48	-232.77	0.00	0.00	7420.13	PBHL 0614B

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1554.93	Upper Pierre
3500.00	3513.95	Hygiene
3650.00	3664.65	Lower Pierre
5515.00	5540.36	P200 Marker
5530.00	5556.70	P300 Marker
5550.00	5578.85	P350 Marker
5702.00	5770.87	Sharon Springs
5707.00	5778.37	Niobrara
5727.00	5809.72	Top A Chalk
5764.00	5875.40	Top A Marl
5783.00	5915.21	A Marl
5792.00	5926.39	Top Upper B



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'		
574.58	575.00	5.50	206.00	-11.85	-5.78	-11.67	13.19	Hold 5.50° Inc		
4755.24	4775.00	5.50	206.00	-373.67	-182.25	-367.76	415.74	Drop 2°/100'		
5029.82	5050.00	0.00	0.00	-385.52	-188.03	-379.43	428.93	Hold Vertical		
5316.13	5336.31	0.00	0.00	-385.52	-188.03	-379.43	428.93	KOP, Build 11°/100'		
5837.00	6154.49	90.00	359.67	135.34	-191.02	141.27	949.80	LP @ 90° Inc, Hold		
5837.00	13435.75	90.00	359.67	7416.48	-232.77	7420.13	8231.06	TD at 13435.75' MD		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude
PBHL 0614B	5837.00	7416.48	-232.77	1565732.94	3473367.30	40° 52' 25.570 N	103° 47' 17.850 W

SHL:  
2632' FSL, 600' FEL  
Sec7-T10N-R57W  
  
BHL:  
600' FNL, 815' FEL  
Sec6-T10N-R57W  
  
7":  
2553' FNL, 772' FEL  
Sec7-T10N-R57W

