



Project: Weld County, CO
Site: Sec 8-T10N-R57W
Well: Horsetail #08D-1735
Wellbore: Hz
Design: APD

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1552.10	1555.16	Upper Pierre
3502.10	3510.54	Hygiene
3652.10	3660.95	Lower Pierre
5517.10	5530.95	P200 Marker
5532.10	5546.42	P300 Marker
5552.10	5567.25	P350 Marker
5704.10	5738.17	Sharon Springs
5709.10	5744.39	Niobrara
5729.10	5769.84	Top A Chalk
5766.10	5819.92	Top A Marl
5785.10	5847.59	A Marl
5794.10	5861.28	Top Upper B
5822.10	5906.94	Base Upper B
5839.10	5937.64	Top Lower B
5859.10	5977.98	Base Lower B
5866.10	5993.58	Top B Marl
5916.10	6183.62	Top C Chalk

WELL DETAILS: Horsetail #08D-1735

+N/-S	+E/-W	Northing	Ground Level:	4958.00	Easting	Latitude	Longitude	Slot
0.00	0.00	1560706.80	3474820.79	40° 51' 35.640 N	103° 47' 0.200 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	512.50	4.25	45.00	512.30	5.57	5.57	2.00	45.00	-5.43	
4	5012.50	4.25	45.00	4999.93	241.38	241.38	0.00	0.00	-235.47	
5	5225.00	0.00	0.00	5212.24	246.95	246.95	2.00	180.00	-240.91	
6	5409.89	0.00	0.00	5397.13	246.95	246.95	0.00	0.00	-240.91	
7	6228.07	90.00	180.00	5918.00	-273.92	246.94	11.00	180.00	279.81	PBHL 1735
8	16155.76	90.00	180.00	5918.00	-10201.61	246.76	0.00	0.00	10204.59	PBHL 1735

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'
512.30	512.50	4.25	45.00	5.57	5.57	-5.43	7.88	Hold 4.25° Inc
4999.93	5012.50	4.25	45.00	241.38	241.38	-235.47	341.37	Drop 2°/100'
5212.24	5225.00	0.00	0.00	246.95	246.95	-240.91	349.24	Hold Vertical
5397.13	5409.89	0.00	0.00	246.95	246.95	-240.91	349.24	KOP, Build 11°/100'
5918.00	6228.07	90.00	180.00	-273.92	246.94	279.81	870.11	LP @ 90° Inc, Hold
5918.00	16155.76	90.00	180.00	-10201.61	246.76	10204.59	10797.80	TD at 16155.76' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 1735	5918.00	-10201.61	246.76	1550511.89	3475264.98	40° 49' 54.840 N	103° 46' 56.990 W



Azimuths to True North
Magnetic North: 7.86°

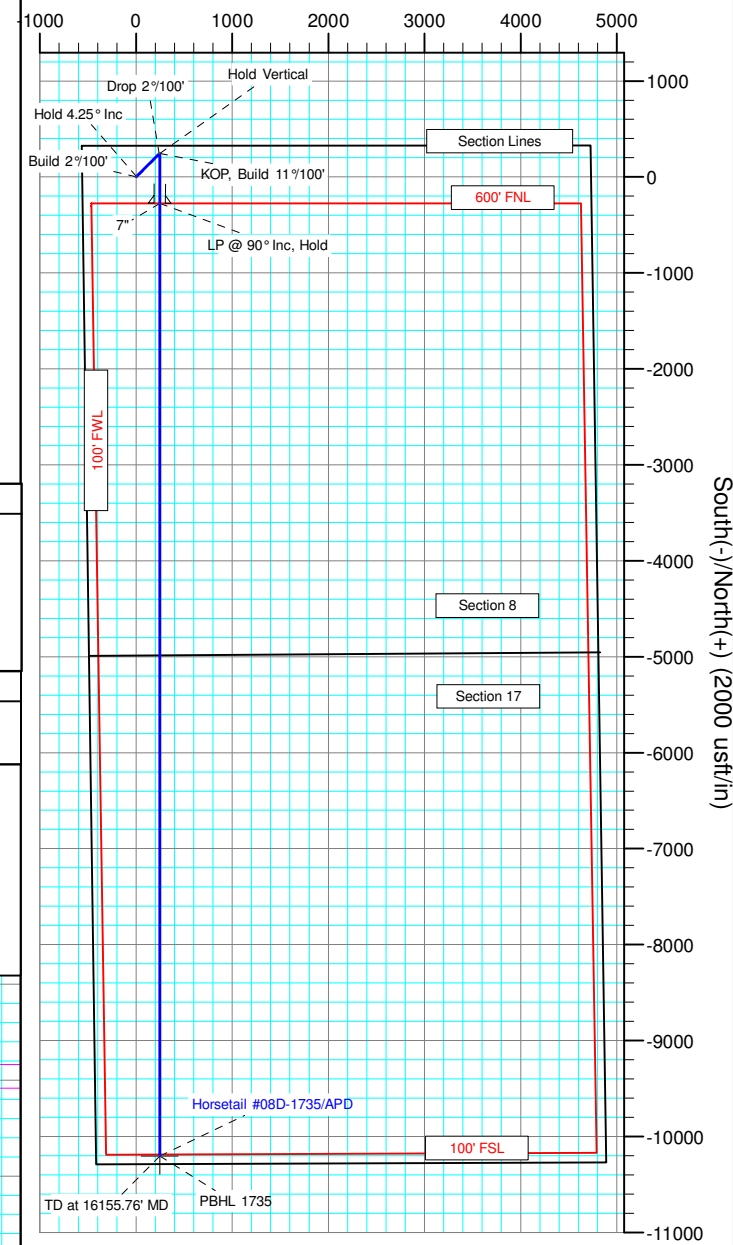
Magnetic Field
Strength: 53082.2nT
Dip Angle: 67.44°
Date: 2/6/2015
Model: IGRF2010

SHL:
330' FNL, 561' FWL
Sec8-T10N-R57W

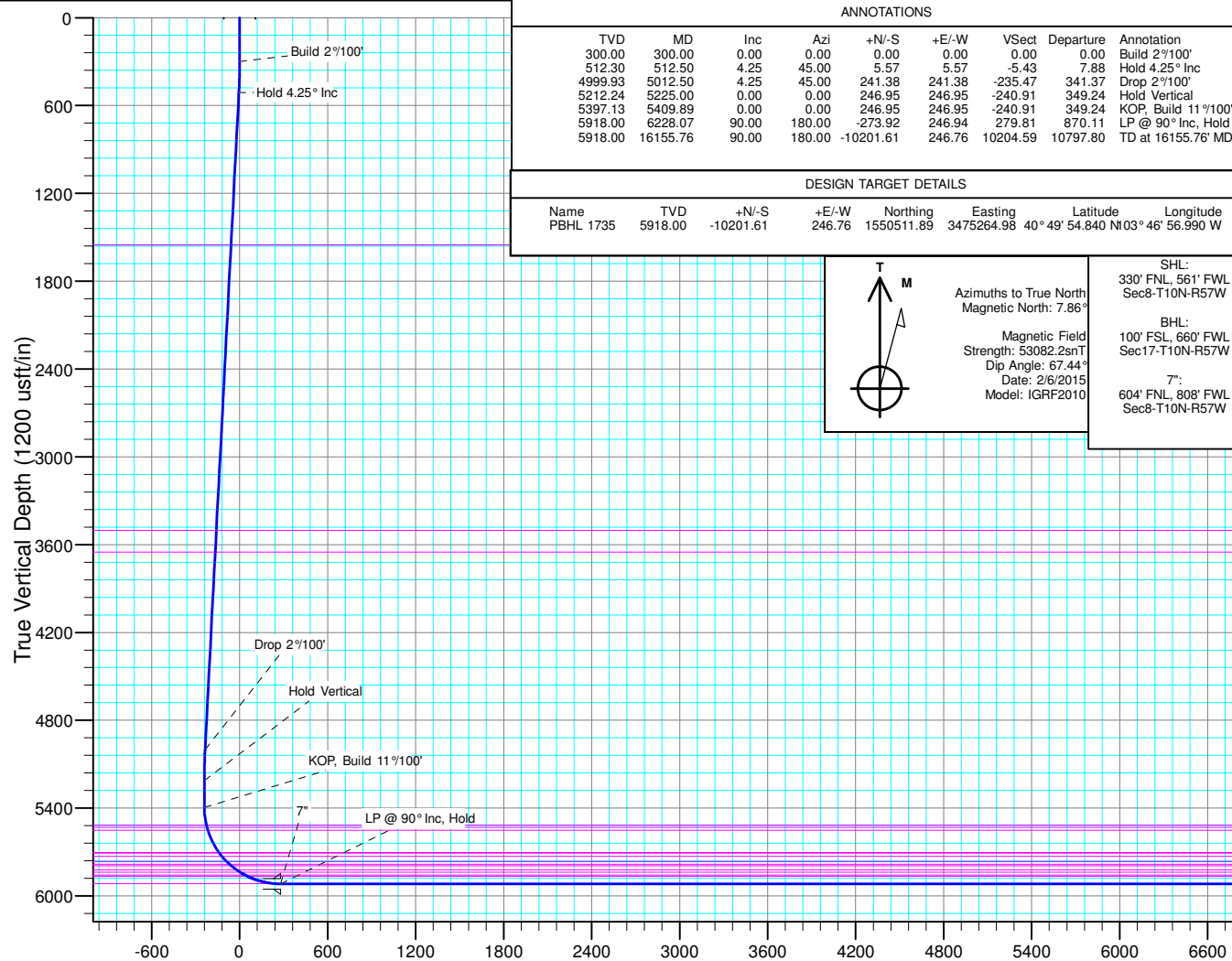
BHL:
100' FSL, 660' FWL
Sec17-T10N-R57W

7":
604' FNL, 808' FWL
Sec8-T10N-R57W

West(-)/East(+) (2000 usft/in)



South(-)/North(+) (2000 usft/in)



Vertical Section at 178.61° (1200 usft/in)