Project: Weld County, CO
Site: Sec 7-T10N-R57W
Well: Horsetail #07E-0636
Wellbore: Hz
Design: Plan #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 #07E-0636

Ground Level: 4925.70

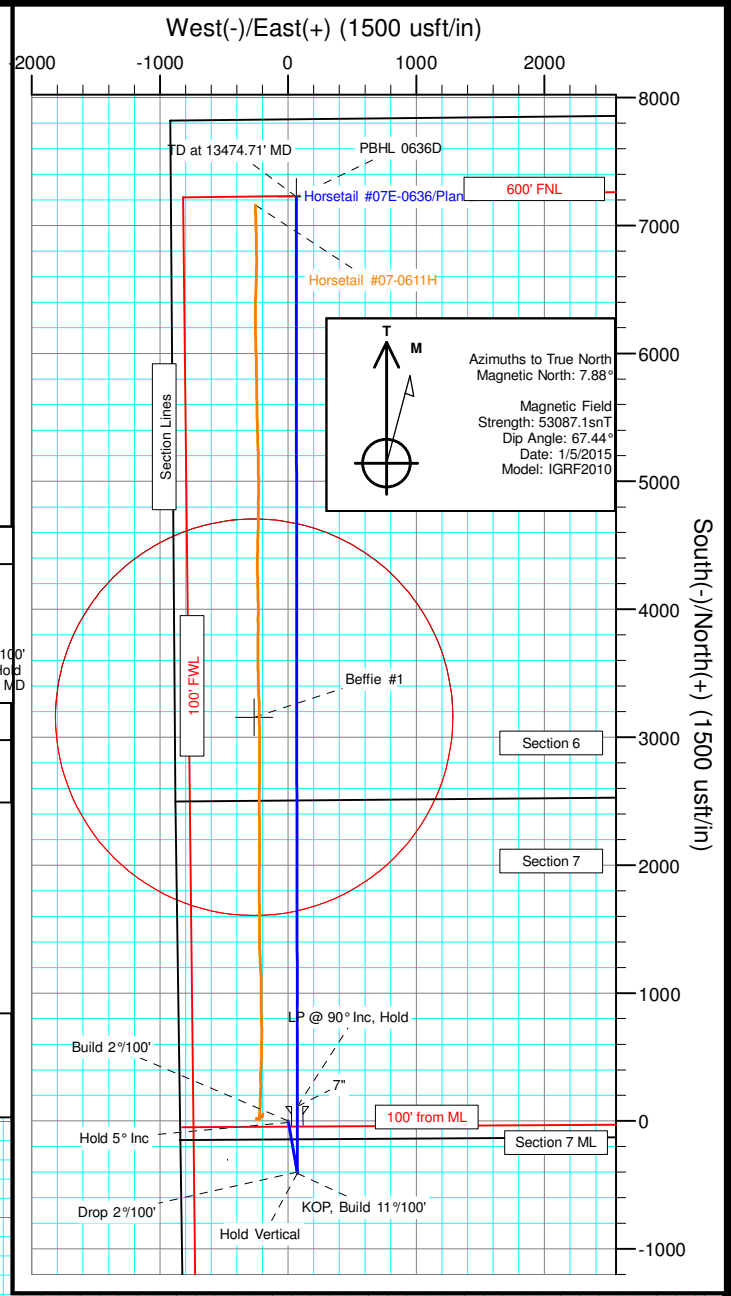
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1558399.32	3470009.51	40° 51' 13.760 N	103° 48' 3.379 W	

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	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	650.00	5.00	170.00	649.68	-10.74	1.89	2.00	170.00	-10.72	
4	5157.00	5.00	170.00	5139.53	-397.58	70.10	0.00	0.00	-396.95	
5	5407.00	0.00	0.00	5389.21	-408.31	72.00	2.00	180.00	-407.67	
6	5545.92	0.00	0.00	5528.14	-408.31	72.00	0.00	0.00	-407.67	
7	6364.10	90.00	359.93	6049.00	112.55	71.38	11.00	359.93	113.17	PBHL 0636D
8	13474.72	90.00	359.93	6049.00	7223.16	63.00	0.00	0.00	7223.44	PBHL 0636D

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1553.76	Upper Pierre
3500.00	3511.20	Hygiene
3650.00	3661.78	Lower Pierre
5515.00	5532.78	P200 Marker
5530.00	5547.78	P300 Marker
5550.00	5567.79	P350 Marker
5702.00	5723.19	Sharon Springs
5707.00	5728.50	Niobrara
5727.00	5749.96	Top A Chalk
5764.00	5790.70	Top A Marl
5783.00	5812.24	A Marl
5792.00	5822.62	Top Upper B
5820.00	5855.73	Base Upper B
5837.00	5876.54	Top Lower B
5857.00	5901.84	Base Lower B
5864.00	5910.94	Top B Marl
5914.00	5980.47	Top C Chalk
5922.00	5992.53	Middle C Chalk
5936.00	6014.47	Middle C Marl
5955.00	6046.26	Lower C Chalk
5973.00	6079.18	Lower C Marl
6004.00	6145.98	Lower C Marker
6009.00	6158.63	Top Ft. Hays
6029.00	6219.27	Ft. Hays Marker
6049.00	6361.86	Top Codell



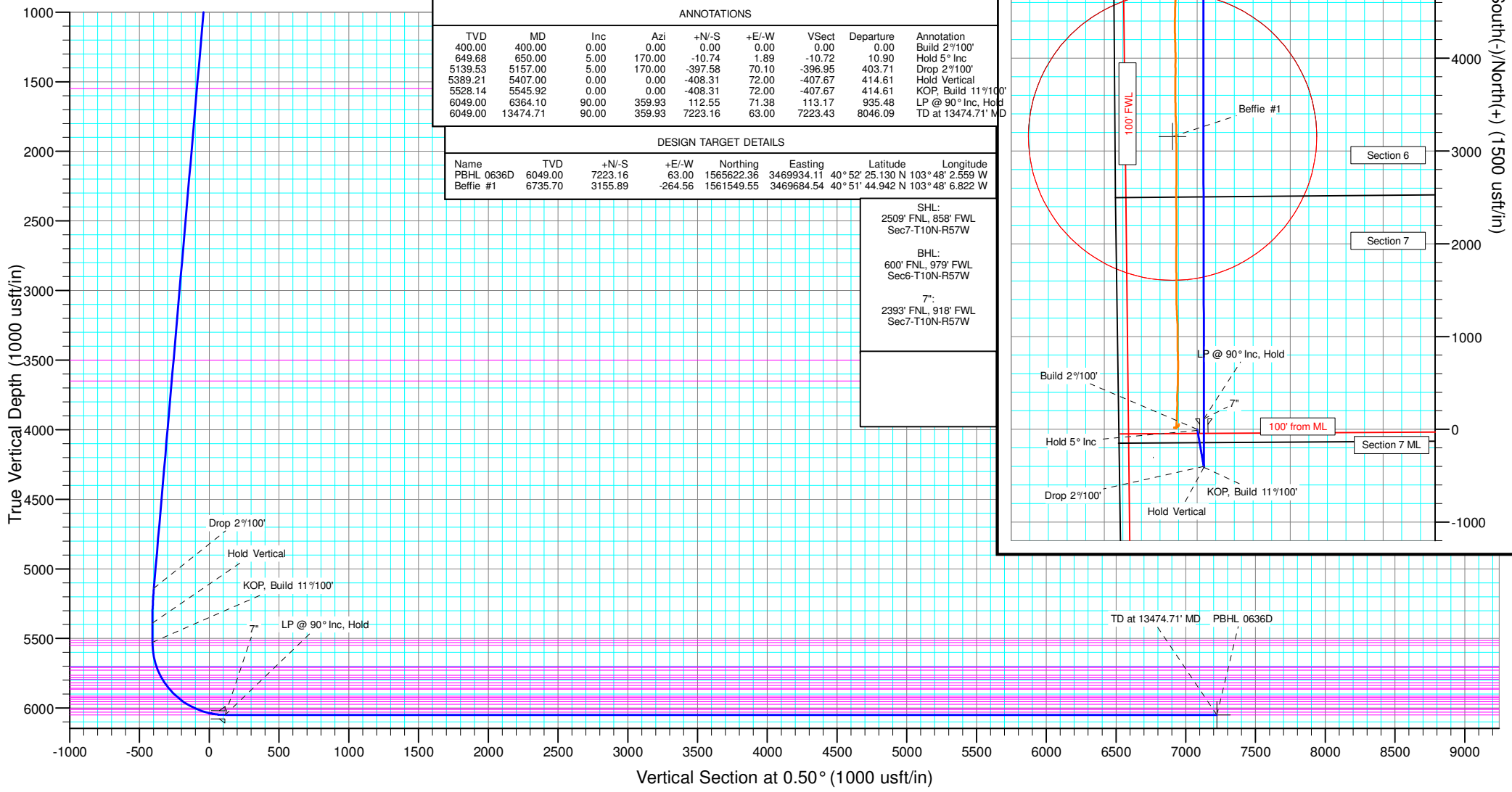
ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
400.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'
649.68	650.00	5.00	170.00	-10.74	1.89	-10.72	10.90	Hold 5° Inc
5139.53	5157.00	5.00	170.00	-397.58	70.10	-396.95	403.71	Drop 2°/100'
5389.21	5407.00	0.00	0.00	-408.31	72.00	-407.67	414.61	Hold Vertical
5528.14	5545.92	0.00	0.00	-408.31	72.00	-407.67	414.61	KOP, Build 11°/100'
6049.00	6364.10	90.00	359.93	112.55	71.38	113.17	935.48	LP @ 90° Inc, Hold
6049.00	13474.71	90.00	359.93	7223.16	63.00	7223.43	8046.09	TD at 13474.71' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 0636D	6049.00	7223.16	63.00	1565622.36	3469934.11	40° 52' 25.130 N	103° 48' 2.559 W
Beffie #1	6735.70	3155.89	-264.56	1561549.55	3469684.54	40° 51' 44.942 N	103° 48' 6.822 W

SHL:
2509' FNL, 858' FWL
Sec7-T10N-R57W

BHL:
600' FNL, 979' FWL
Sec6-T10N-R57W

7":
2393' FNL, 918' FWL
Sec7-T10N-R57W