Project: Weld County, CO
Site: Sec 7-T10N-R57W
Well: Horsetail #07E-0603
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

Azimuths to True North
Magnetic North: 7.88°

Magnetic Field
Strength: 53087.0snT
Dip Angle: 67.44°
Date: 1/5/2015
Model: IGRF2010

WELL DETAILS: Horsetail #07E-0603

Ground Level: 4925.70

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1558398.74	3469979.52	40° 51' 13.760 N	103° 48' 3.769 W	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1560.60	Upper Pierre
3500.00	3534.90	Hygiene
3650.00	3686.77	Lower Pierre
5515.00	5573.69	P200 Marker
5530.00	5591.85	P300 Marker
5550.00	5616.79	P350 Marker
5702.00	5864.08	Sharon Springs
5707.00	5876.34	Niobrara
5727.00	5934.24	Top A Chalk

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	850.00	9.00	188.00	848.15	-34.93	-4.91	2.00	188.00	-34.88	
4	3955.00	9.00	188.00	3914.92	-515.93	-72.51	0.00	0.00	-515.19	
5	4405.00	0.00	0.00	4363.07	-550.86	-77.42	2.00	180.00	-550.07	
6	5270.90	0.00	0.00	5228.98	-550.86	-77.42	0.00	0.00	-550.07	
7	6089.08	90.00	0.00	5749.85	-29.99	-77.42	11.00	0.00	-29.22	
8	6685.28	90.00	0.05	5749.85	566.22	-77.14	0.01	91.38	566.95	
9	13342.25	90.00	0.05	5750.00	7223.18	-71.00	0.00	0.00	7223.53	PBHL 0603A

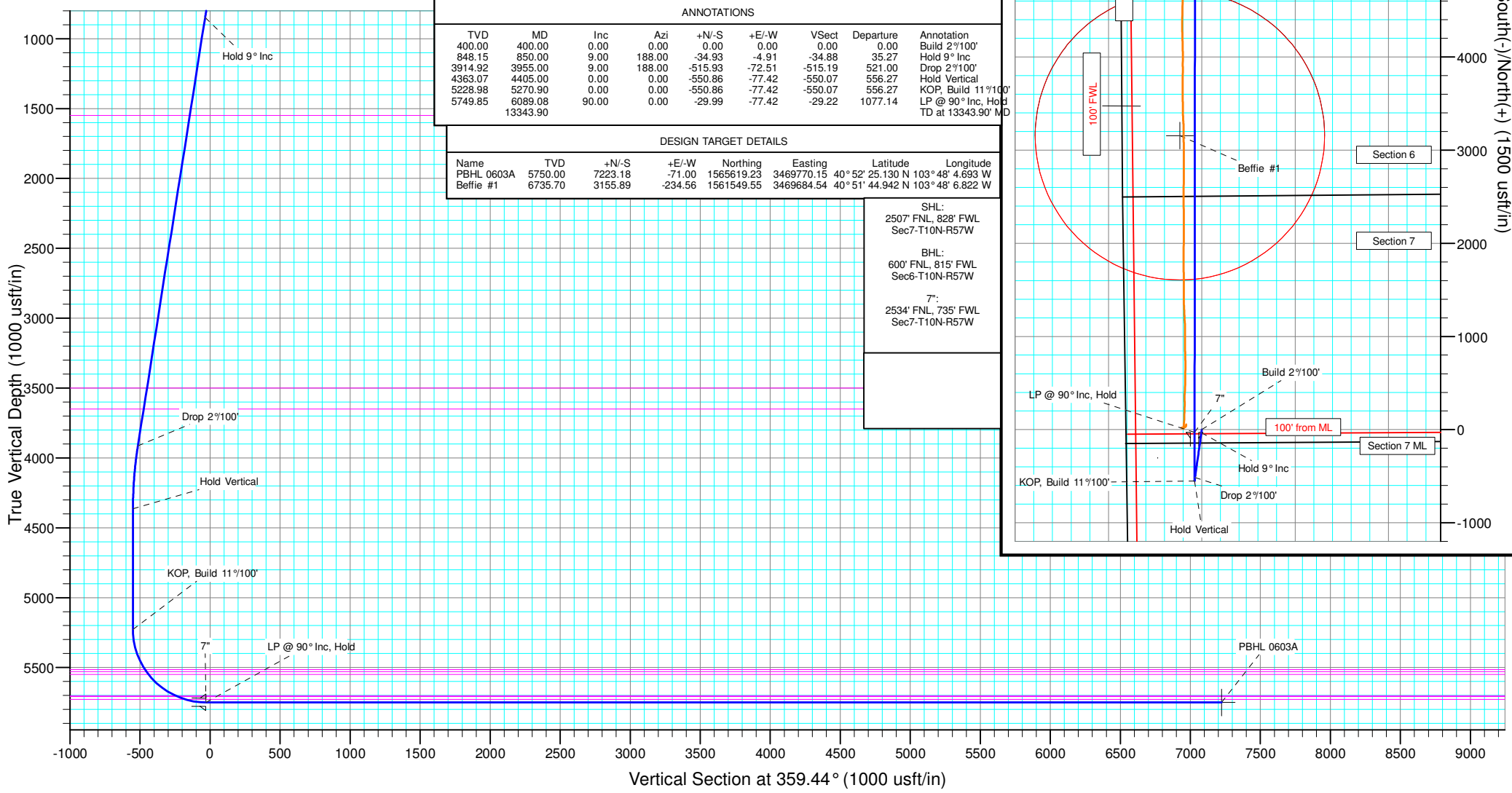
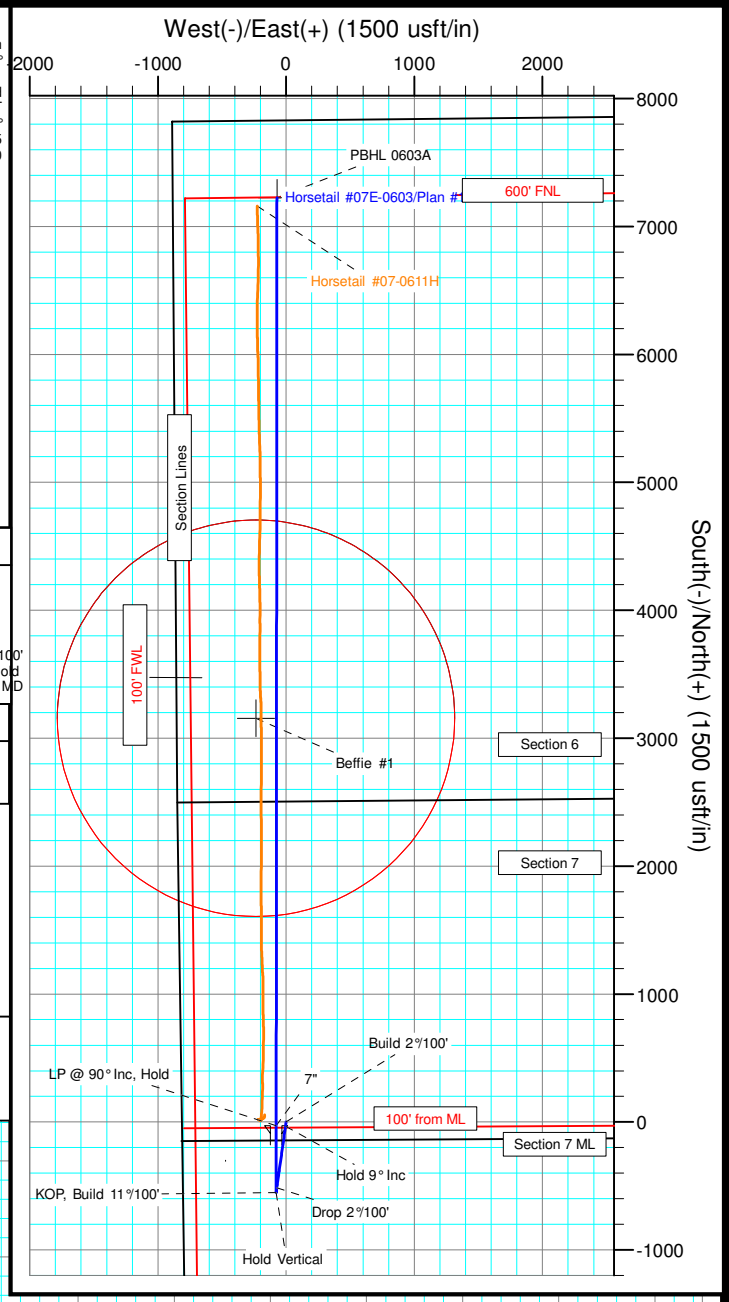
ANNOTATIONS

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'
848.15	850.00	9.00	188.00	-34.93	-4.91	-34.88	35.27	Hold 9° Inc
3914.92	3955.00	9.00	188.00	-515.93	-72.51	-515.19	521.00	Drop 2°/100'
4363.07	4405.00	0.00	0.00	-550.86	-77.42	-550.07	556.27	Hold Vertical
5228.98	5270.90	0.00	0.00	-550.86	-77.42	-550.07	556.27	KOP, Build 11°/100'
5749.85	6089.08	90.00	0.00	-29.99	-77.42	-29.22	1077.14	LP @ 90° Inc, Hold
	13343.90							TD at 13343.90' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 0603A	5750.00	7223.18	-71.00	1565619.23	3469770.15	40° 52' 25.130 N	103° 48' 4.693 W
Beffie #1	6735.70	3155.89	-234.56	1561549.55	3469684.54	40° 51' 44.942 N	103° 48' 6.822 W

SHL:
2507' FNL, 828' FWL
Sec7-T10N-R57W

BHL:
600' FNL, 815' FWL
Sec6-T10N-R57W

7":
2534' FNL, 735' FWL
Sec7-T10N-R57W