



Project: Weld County, CO
Site: Sec 7-T10N-R57W
Well: Horsetail #07H-0647
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

FORMATION TOP DETAILS

MDPath	Formation
1550.00	Upper Pierre
1553.40	Hygiene
3500.00	Lower Pierre
3509.43	P200 Marker
3650.00	P300 Marker
3659.90	P350 Marker
5515.00	Sharon Springs
5529.97	Niobrara
5530.00	Top A Chalk
5545.19	Top A Marl
5550.00	Top Upper B
5565.62	Base Upper B
5702.00	Top Lower B
5730.13	Base Lower B
5735.98	Top B Marl
5727.00	Top C Chalk
5759.80	Top C Chalk
5764.00	Middle C Chalk
5831.05	Middle C Marl
5843.30	Lower C Chalk
5820.00	
5837.00	
5857.00	
5864.00	
5914.00	
5922.00	
5936.00	
5955.00	

WELL DETAILS: Horsetail #07H-0647

+N/-S	+E/-W	Northing	Ground Level: 4908.90	Easting	Latitude	Longitude	Slot
0.00	0.00	1558321.91		3473773.23	40° 51' 12.280 N	103° 47' 14.430 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	525.00	4.50	188.00	524.77	-8.75	-1.23	2.00	188.00	-8.73	
4	5125.00	4.50	188.00	5110.59	-366.14	-51.46	0.00	0.00	-365.42	
5	5350.00	0.00	0.00	5335.36	-374.89	-52.69	2.00	180.00	-374.15	
6	5448.77	0.00	0.00	5434.13	-374.89	-52.69	0.00	0.00	-374.15	
7	6266.95	90.00	359.65	5955.00	145.97	-55.84	11.00	359.65	146.71	PBHL 0647C
8	13539.61	90.00	359.65	5955.00	7418.50	-99.87	0.00	0.00	7419.17	PBHL 0647C

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'
524.77	525.00	4.50	188.00	-8.75	-1.23	-8.73	8.83	Hold 4.50° Inc
5110.59	5125.00	4.50	188.00	-366.14	-51.46	-365.42	369.74	Drop 2°/100'
5335.36	5350.00	0.00	0.00	-374.89	-52.69	-374.15	378.57	Hold Vertical
5434.13	5448.77	0.00	0.00	-374.89	-52.69	-374.15	378.57	KOP, Build 11°/100'
5955.00	6266.95	90.00	359.65	145.97	-55.84	146.71	899.44	LP @ 90° Inc, Hold
5955.00	13539.61	90.00	359.65	7418.50	-99.87	7419.17	8172.10	TD at 13539.61' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL 0647C	5955.00	7418.50	-99.87	1565737.10	3473530.11	40° 52' 25.580 N	103° 47' 15.730 W

SHL:

2631' FSL, 570' FEL
Sec7-T10N-R57W

BHL:

600' FNL, 652' FEL
Sec6-T10N-R57W

7":

2544' FNL, 626' FEL
Sec7-T10N-R57W

West(-)/East(+) (1500 usft/in)

