

Project: Wells Ranch
 Site: A Section 21
 Well: Harper A21-674
 Wellbore: Original Drilling
 Design: APD - Rev 1

Northern Region - DJ Basin

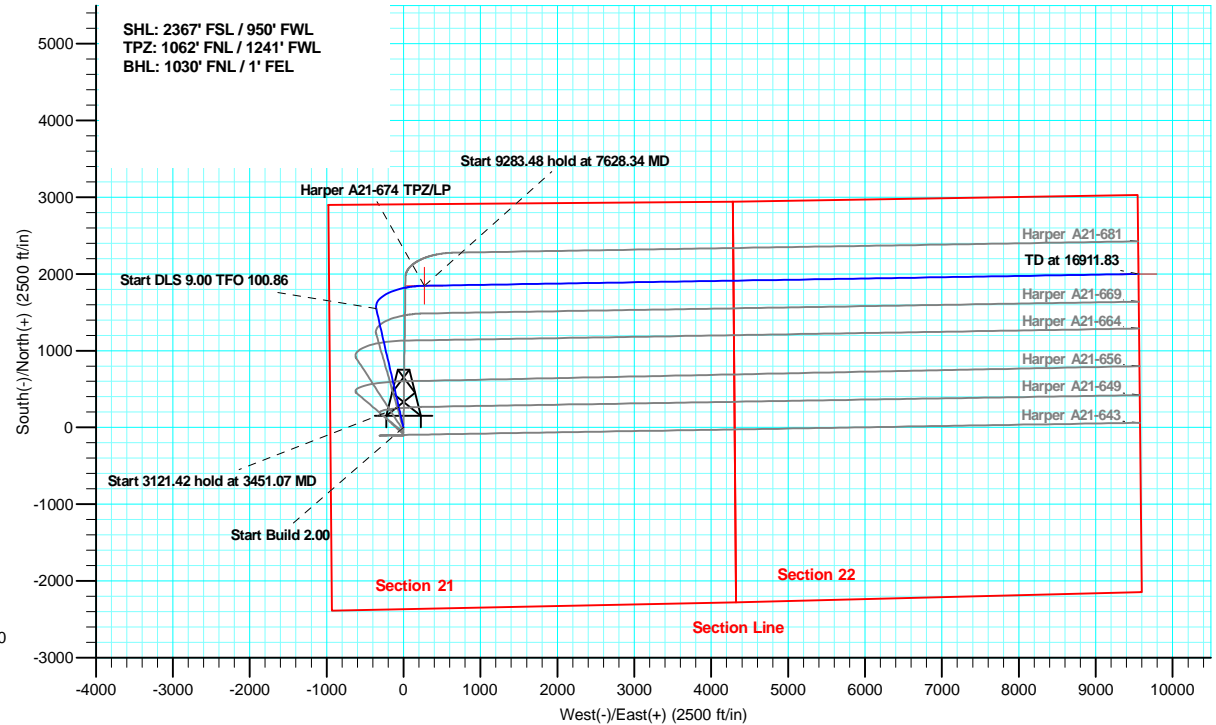
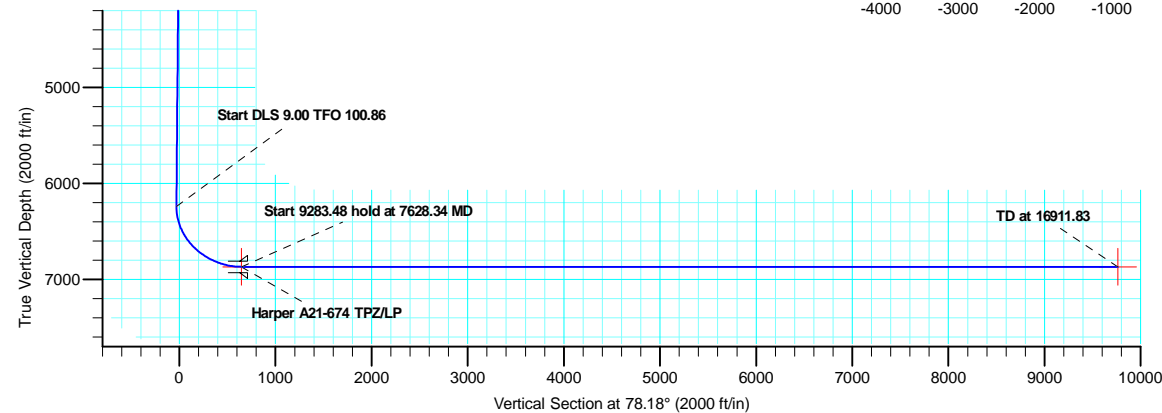
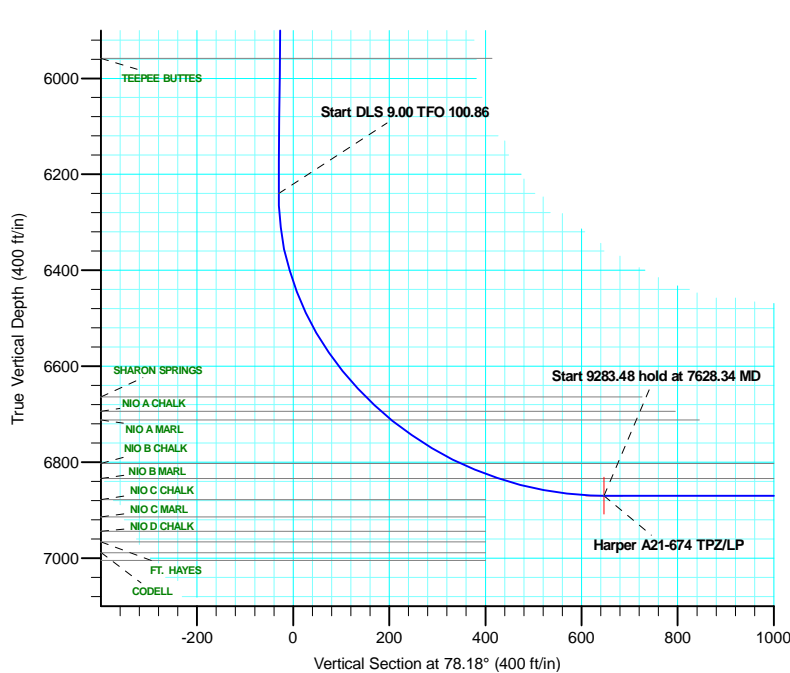
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

SECTION DETAILS

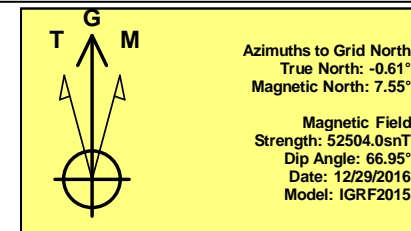
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	
3	3451.07	25.02	347.10	3411.68	262.07	-60.04	2.00	347.10	-5.08	
4	6572.49	25.02	347.10	6240.15	1548.96	-354.84	0.00	0.00	-30.00	
5	7628.34	90.00	89.05	6870.00		274.49	9.00	100.86	647.05	Harper A21-674 TPZ/LP
6	16911.83	90.00	89.05	6870.00		9556.71	0.00	0.00	9763.79	Harper A21-674 BHL 1030'FNL, 1'FEL

WELL DETAILS: Harper A21-674

Northing		Ground Level:		4743.00	Longitude
0.00	0.00	Easting	Lat itude		
1415716.29	3261183.48	40.4707476	-104.5612155		



OK to submit with 2A as per Noble Drilling 1/17/2018



Plan: APD - Rev 1 (Harper A21-674/Original Drilling)

Created By: Shelly C. Peterkin Date: 10:24, January 17 2018