

Project: Wells Ranch
 Site: A Section 21
 Well: Harper A21-681
 Wellbore: Original Drilling
 Design: APD - Rev 1

Northern Region - DJ Basin

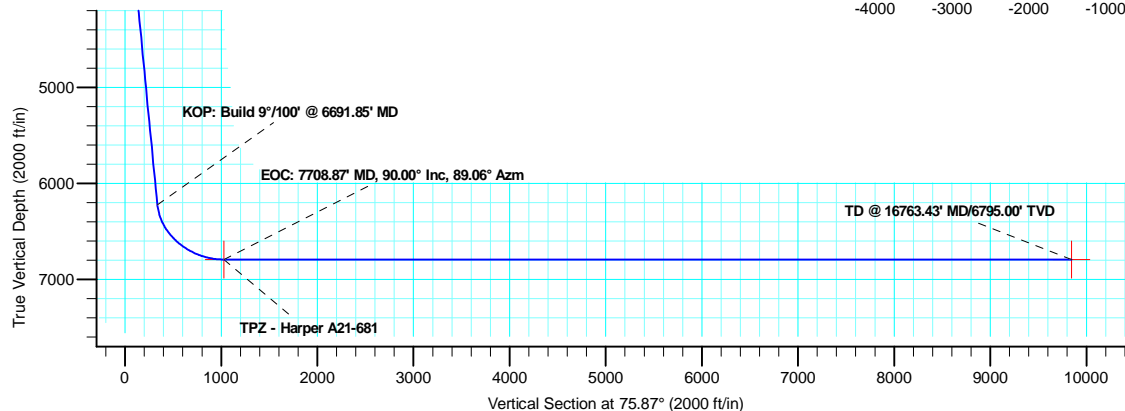
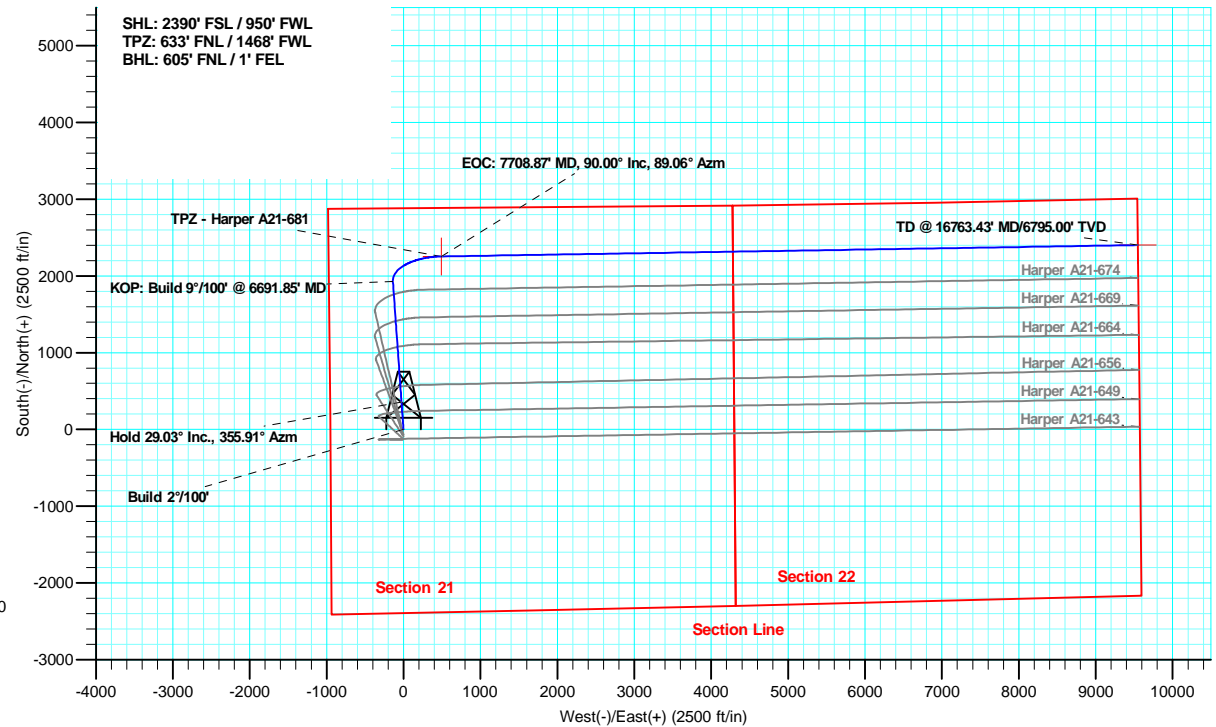
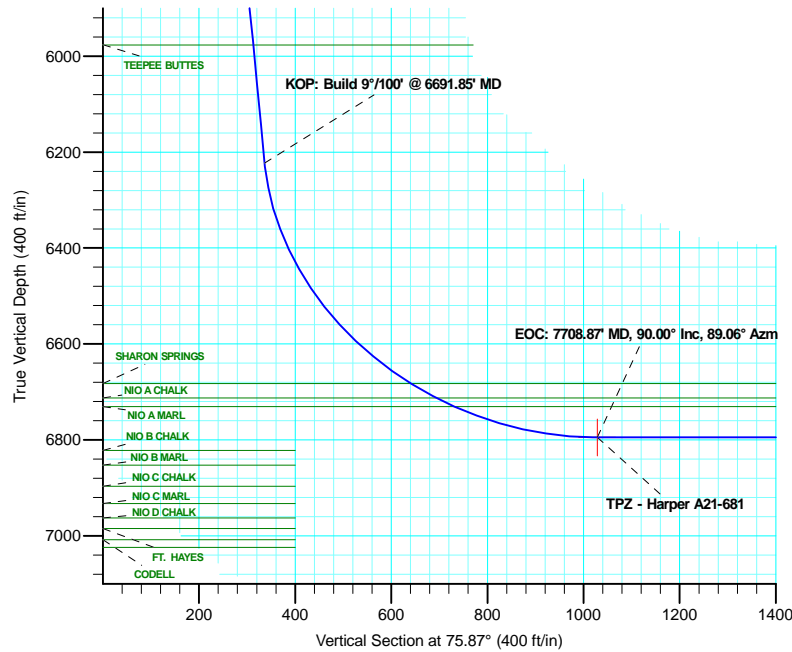
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

SECTION DETAILS

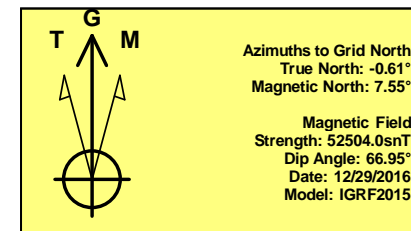
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	3451.75	29.03	355.91	3390.41	359.12	-25.71	2.00	355.91	62.73	
4	6691.85	29.03	355.91	6223.30	1927.66	-137.99	0.00	0.00	336.70	
5	7708.87	90.00	89.06	6795.00	2254.89	493.14	9.00	92.76	1028.61	TPZ - Harper A21-681
6	16763.43	90.00	89.06	6795.00	2402.82	9546.49	0.00	0.00	9844.24	BHL - Harper A21-681

WELL DETAILS: Harper A21-681

+N/-S	+E/-W	Northing	Ground Level: 4744.00	Easting	Latitude	Longitude	Slot
0.00	0.00	1415741.52		3261196.12	40.4708165	-104.5611691	



OK to submit with 2A as per Noble Drilling 1/29/2018



Plan: APD - Rev 1 (Harper A21-681/Original Drilling)

Created By: Shelly C. Peterkin Date: 20:36, January 30 2018