

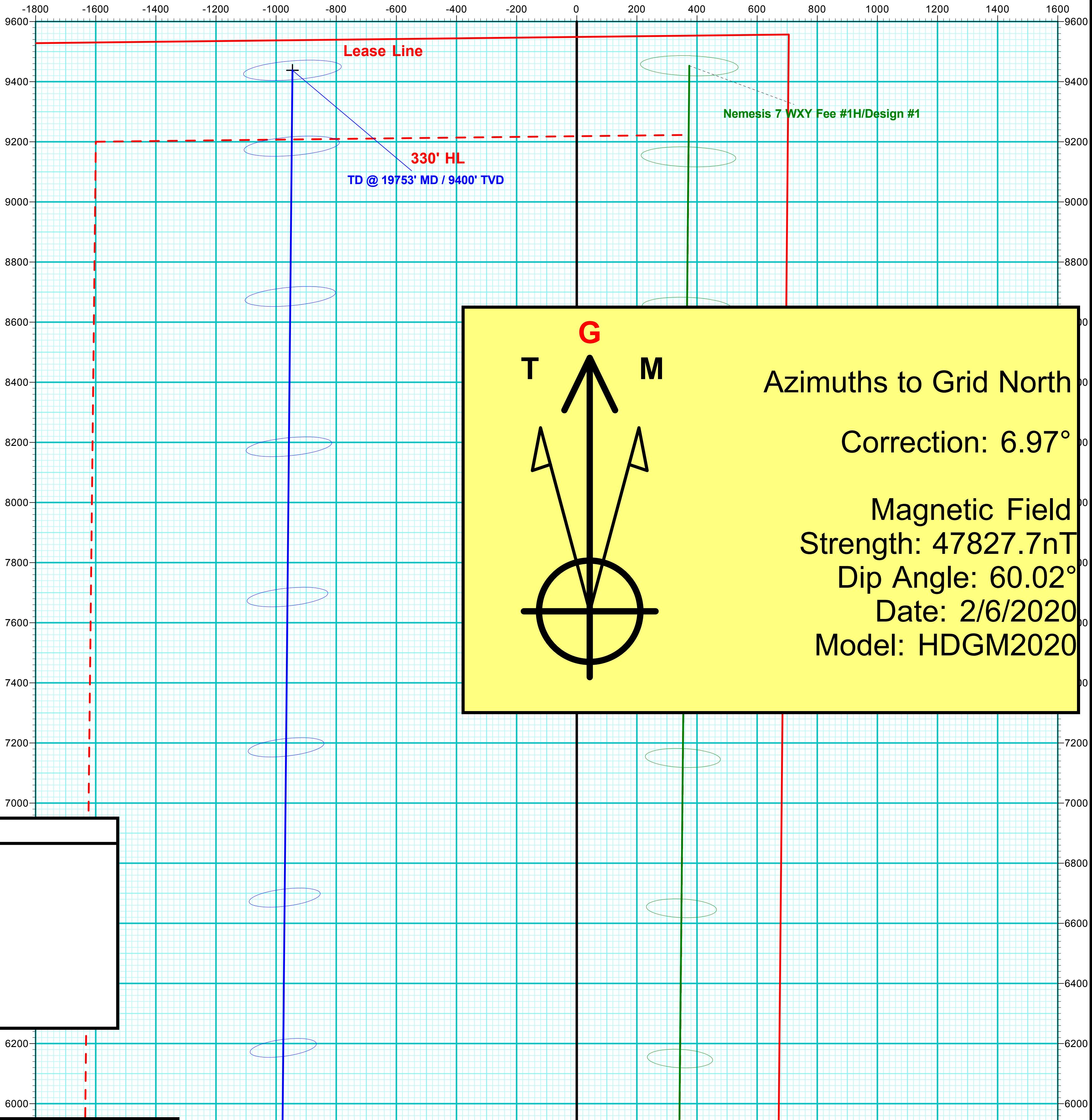
Company Name: Marathon Oil Permian LLC
Nemesis 7 WXY Fee #3H
Eddy County, New Mexico (NAD 27)
Rig: PD #101
Created By: Shane Robbins
Date: 2/7/2020

PROJECT DETAILS: Eddy County, New Mexico (NAD 27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Nemesis 7 WXY Fee #3H
Eddy County, New Mexico (NAD 27)
Q20*** & WT-20***
Design #1

WELL DETAILS: Nemesis 7 WXY Fee #3H					
			3056.0		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	473257.71	565950.25	32° 18' 3.317 N 104° 7' 11.594 W	



T

G

M

Azimuths to Grid North

Correction: 6.97°

Magnetic Field

Strength: 47827.7nT

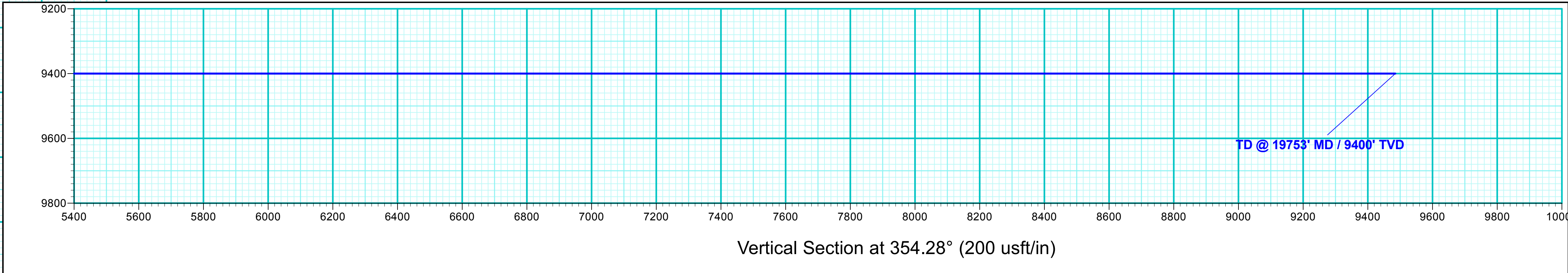
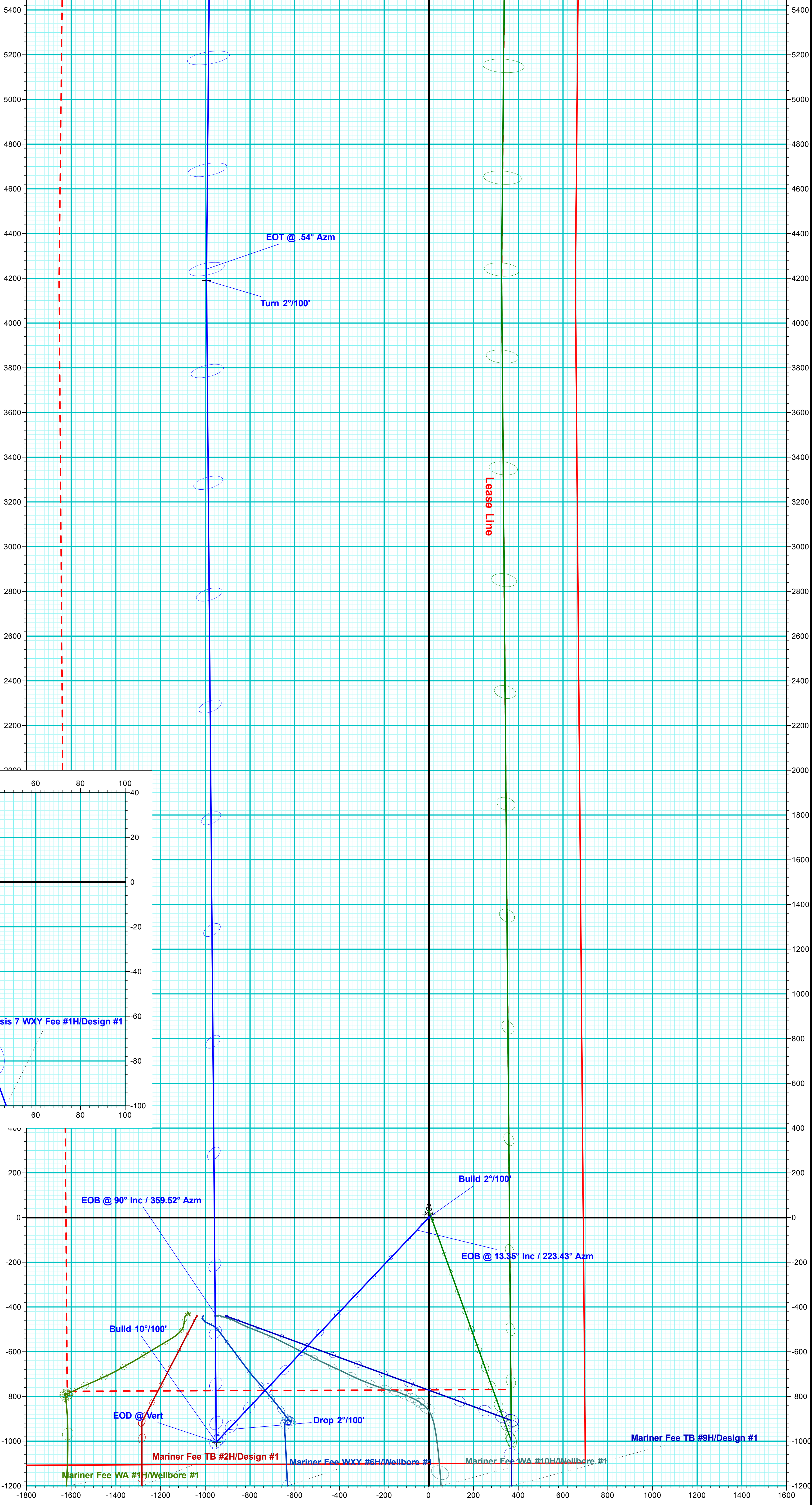
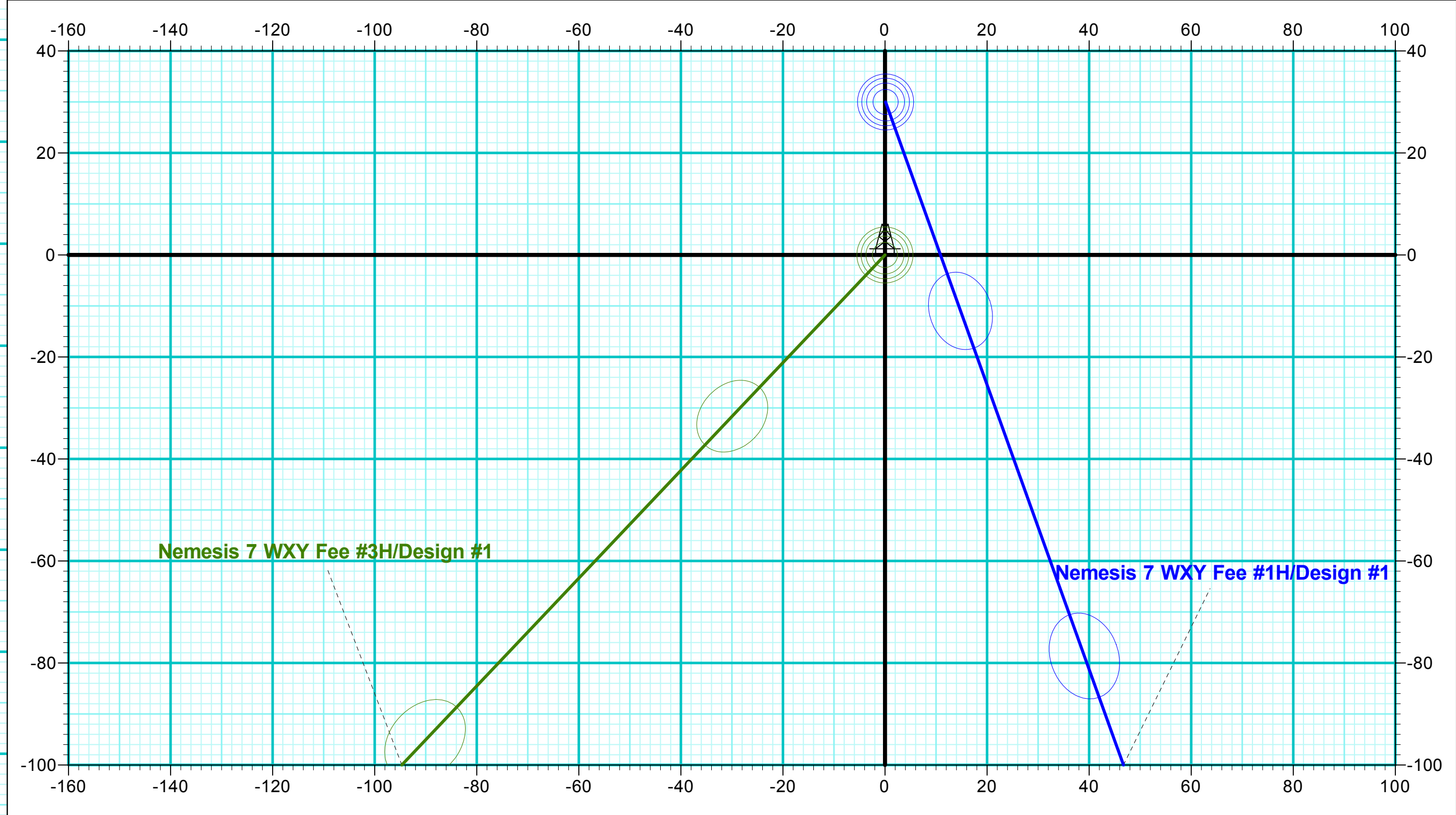
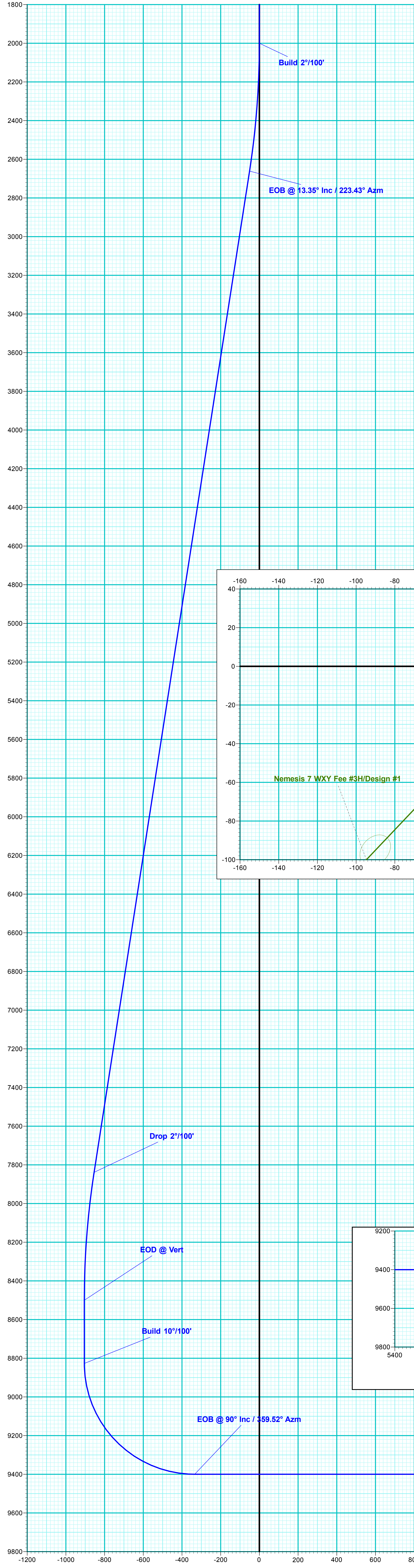
Dip Angle: 60.02°

Date: 2/6/2020

Model: HDGM2020

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	Build 2°/100'	
2667.3	13.35	223.43	2661.3	-56.2	-53.2	-50.6	77.4	EOB @ 13.35° Inc / 223.43° Azm	
7988.4	13.35	223.43	7838.7	-948.2	-897.6	-854.0	1305.7	Drop 2°/100'	
8655.8	0.00	0.00	8500.0	-1004.4	-950.8	-904.6	1383.1	EOD @ Vert	
8982.8	0.00	0.00	8827.0	-1004.4	-950.8	-904.6	1383.1	Build 10°/100'	
9882.7	90.00	359.52	9400.0	-431.5	-955.6	-334.0	1956.0	EOB @ 90° Inc / 359.52° Azm	
14504.9	90.00	359.52	9400.0	4190.5	-994.4	4268.8	6578.1	Turn 2°/100'	
14555.8	90.00	0.54	9400.0	4241.4	-994.4	4319.4	6629.1	EOT @ .54° Azm	
19752.5	90.00	0.54	9400.0	9437.9	-945.6	9485.2	11825.8	TD @ 19753' MD / 9400' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP Nemesis 7 WXY Fee #3H	8500.0	-1004.4	-950.8	472253.32	564999.42	32° 17' 53.396 N 104° 7' 22.695 W	
- plan hits target center							
PBHL Nemesis 7 WXY Fee #3H	9400.0	9437.9	-945.6	482695.61	565004.66	32° 19' 36.735 N 104° 7' 22.395 W	
- plan hits target center							
PI Nemesis 7 WXY Fee #3H	9400.0	4190.5	-994.4	477448.21	564955.85	32° 18' 44.807 N 104° 7' 23.084 W	
- plan hits target center							



Target Line: 9400'TVD @ 0°VS 90°

Vertical Section at 354.28° (200 usft/in)