

Sec 20, T6S, R96W
GM 443-19
Q201070 & RM-200852
Plan 4

Company Name: Terra Energy Partners, LLP
GM 443-19
Garfield County, CO
Rig: KB=24" @ 5771.70usft (H&P #318)
Created by: Chase Chambers
Date: 13:12, January 24 2021

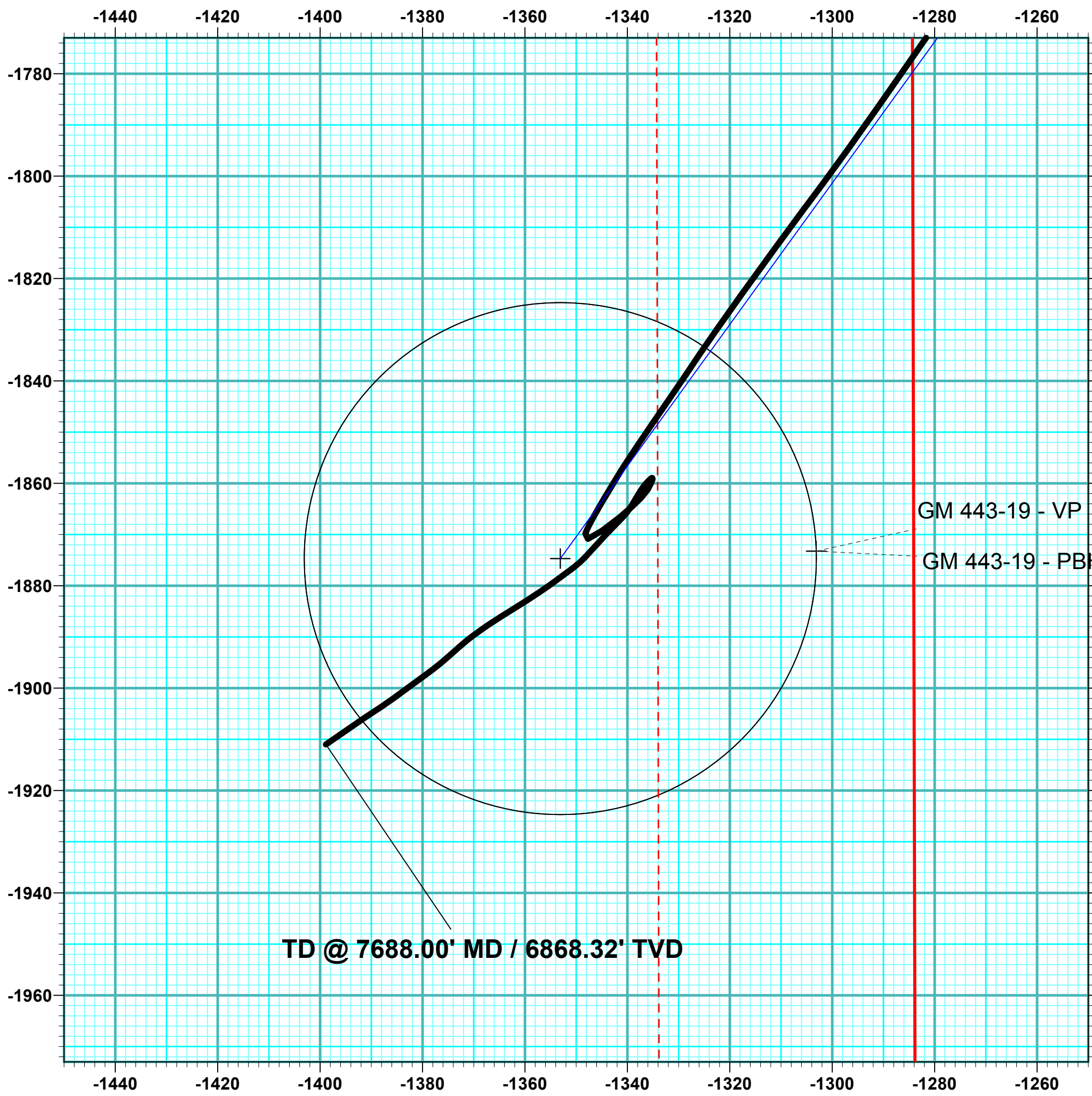
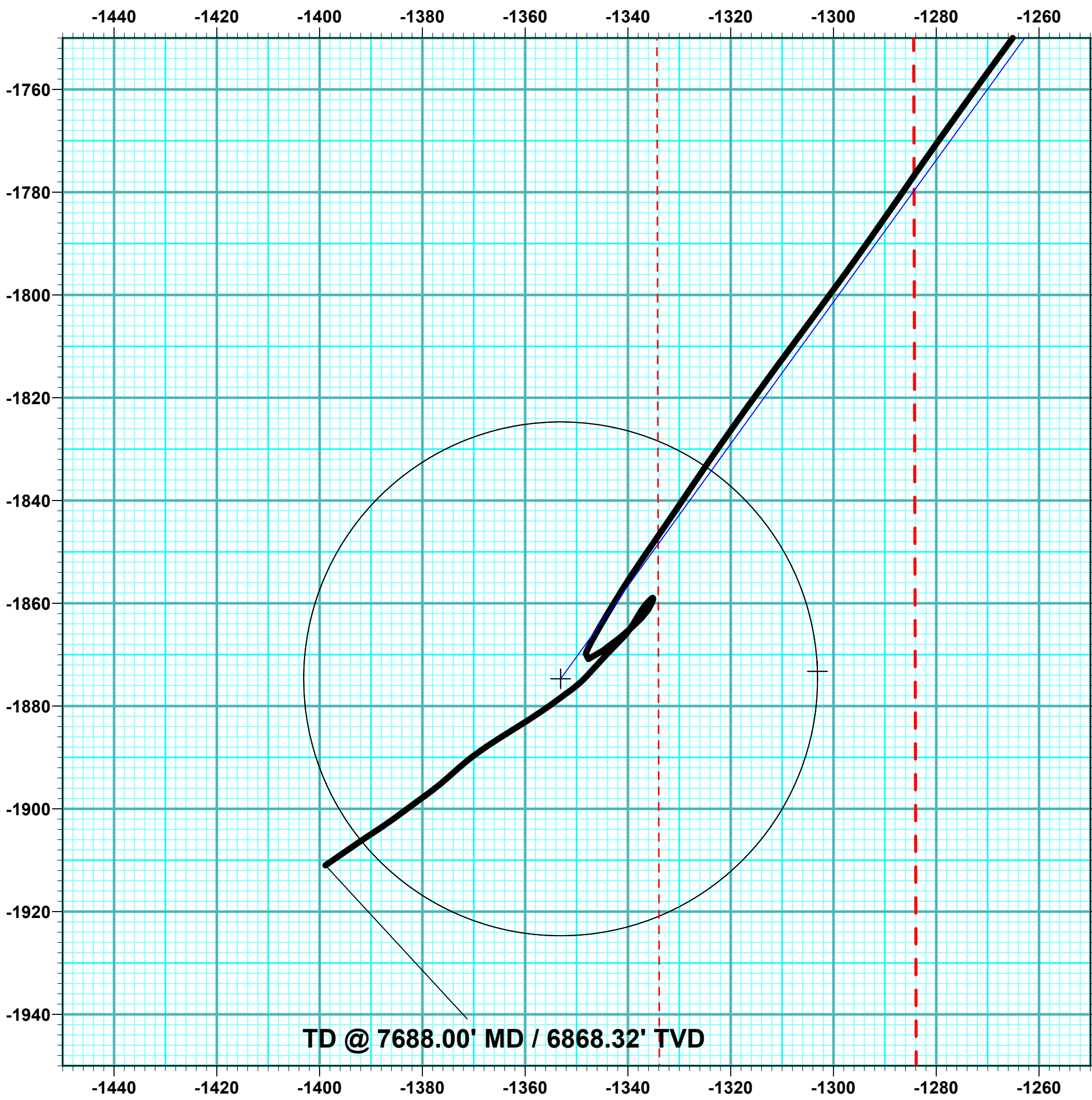
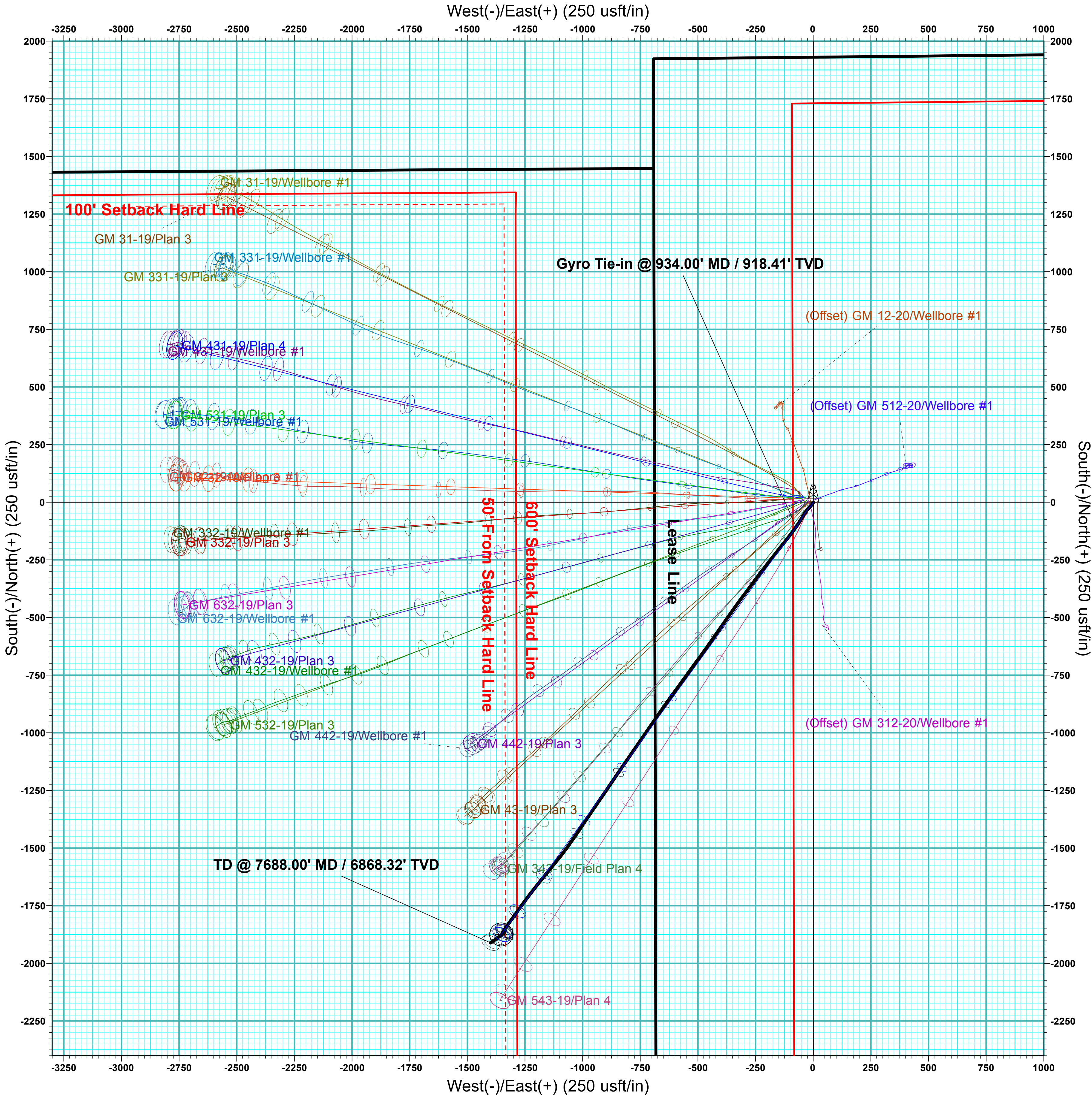
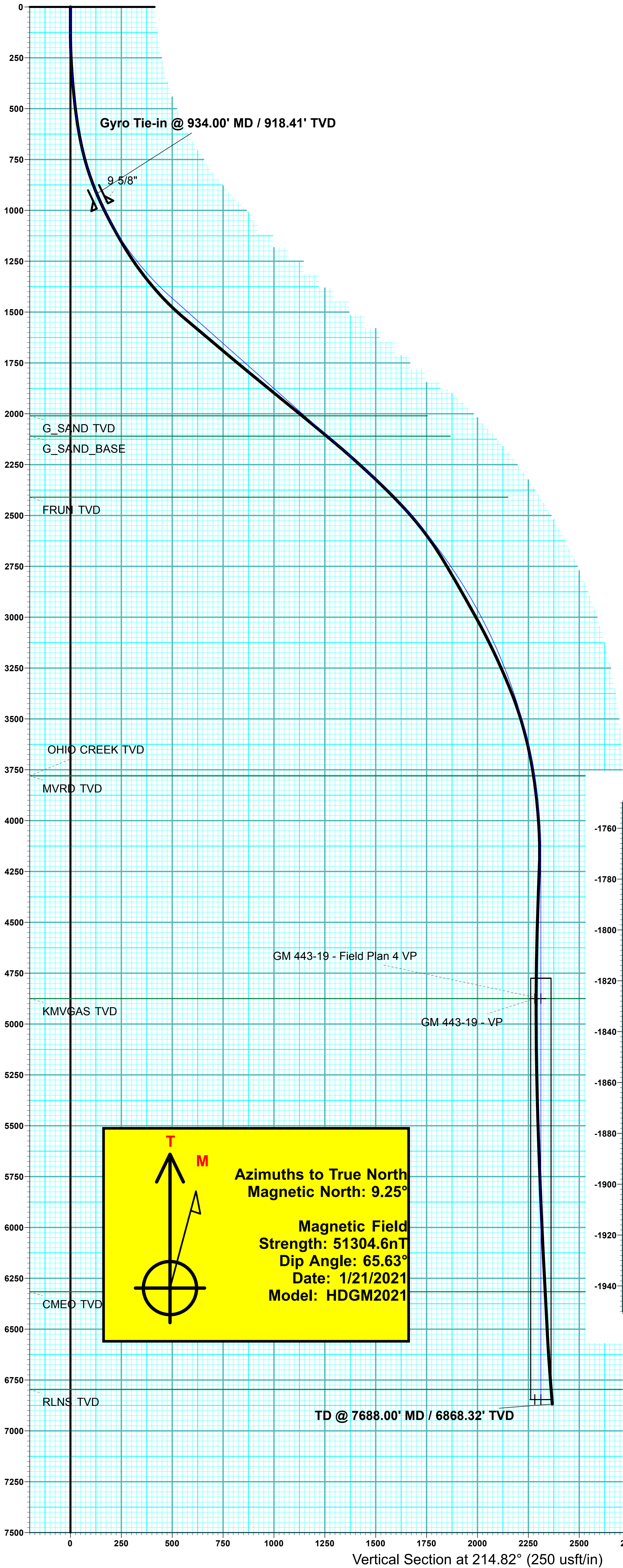
PROJECT DETAILS: Garfield County, CO

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



WELL DETAILS: GM 443-19						
Ground Elevation:		5747.70				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1622103.70	2255423.57	39.511758	-108.139428	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
GM 443-19 - Field Plan 4 VP	4875.00	-1874.70	-1353.08	1620269.10	2254016.60	39.506611	-108.144224
GM 443-19 - VP	4875.00	-1873.25	-1303.10	1620269.10	2254066.60	39.506615	-108.144047
GM 443-19 - Field Plan 4 PBHL	6846.00	-1874.70	-1353.08	1620269.10	2254016.60	39.506611	-108.144224
GM 443-19 - PBHL	6846.00	-1873.25	-1303.10	1620269.10	2254066.60	39.506615	-108.144047



ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation
934.00	23.02	215.70	918.41	-106.56	-73.71	129.56	Gyro Tie-in @ 934.00' MD / 918.41' TVD
7688.00	4.66	235.32	6868.32	-1911.00	-1398.84	2367.58	TD @ 7688.00' MD / 6868.32' TVD

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSecDeparture	Annotation		
934.00	23.02	215.70	918.41	-106.56	-73.71	129.56	0.00	Build 4"/100'	
1568.84	48.41	215.90	1429.63	-404.57	-288.89	497.08	367.58	EOB @ 48.41° Inc / 215.90° Azm	
2850.52	48.41	215.90	2280.36	-1181.10	-851.00	1455.55	1326.22	Drop 2.25"/100'	
4595.49	9.15	215.90	3780.00	-1848.44	-1334.08	2279.24	2149.96	MSVRD Crossing @ 9.15° Inc / 215.90° Azm / 4595.49' MD / 3780.00' TVD	
5002.22	0.00	0.00	4185.00	-1874.70	-1353.08	2311.65	2182.46	EOD @ Vertical	
7663.22	0.00	0.00	6846.00	-1874.70	-1353.08	2311.65	2182.46	TD @ 7663.22' MD / 6846.00' TVD	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2010.00	2443.21	G SAND TVD
2110.00	2593.86	G SAND BASE
2410.00	3038.22	FRUN TVD
3780.00	4595.49	MVRD TVD
3780.00	4595.49	OHIO CREEK TVD
4875.00	5692.22	KMGAS TVD
6316.00	7133.22	CMEQ TVD
6796.00	7613.22	RLNS TVD