

Sec 3, T6S, R94W
NR 544-36
Q220618 & RM-220566
Plan 4

Company Name: Terra Energy Partners, LLP
NR 544-36
Garfield County, CO (Nad 83)
Rig: KB=30' @ 6760.00usft (H&P #329)
Created by: Chase Chambers
Date: 4:00, June 30 2022

PROJECT DETAILS: Garfield County, CO (Nad 83)

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



T **M**

Azimuths to True North
Magnetic North: 9.10°

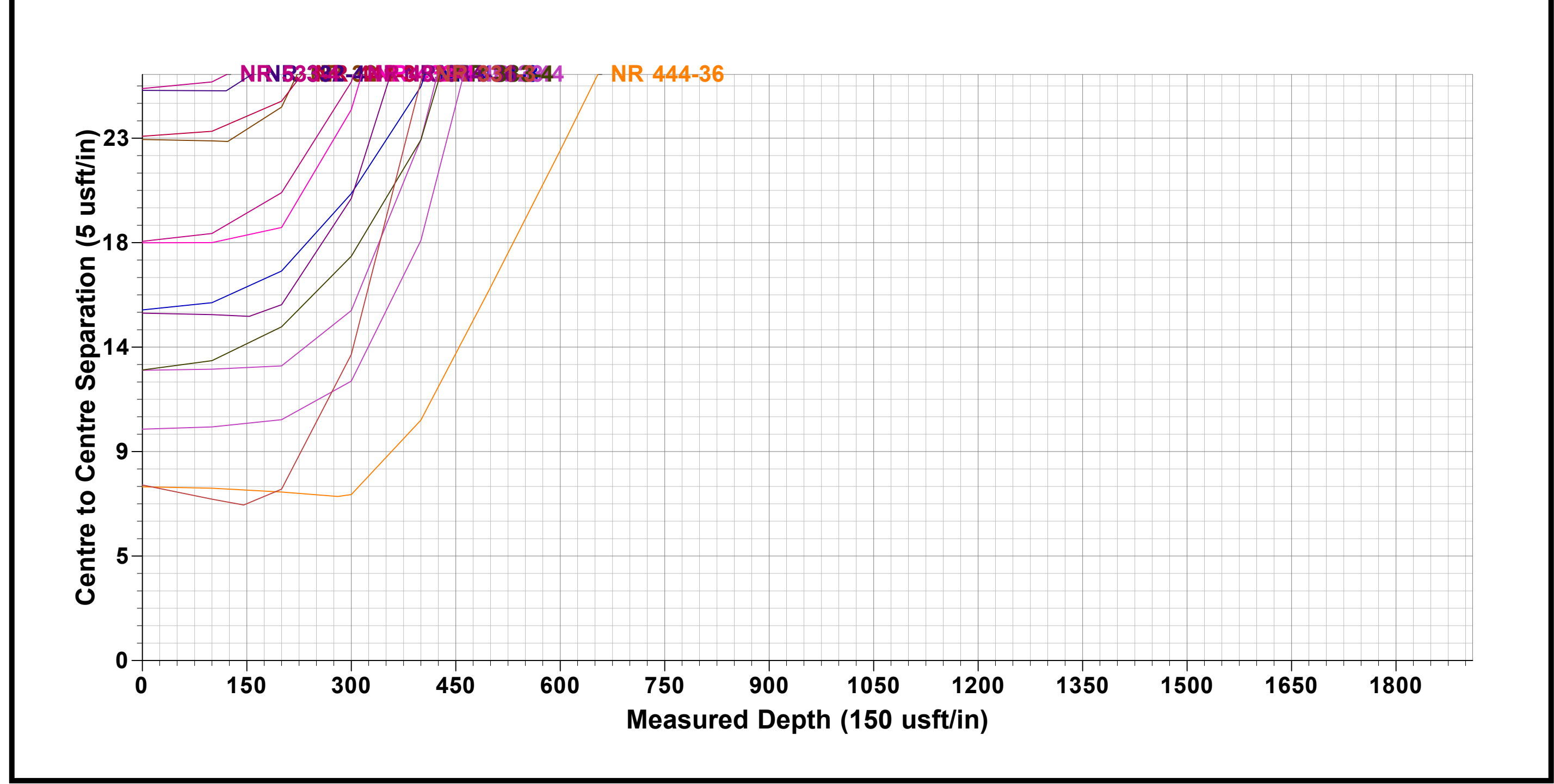
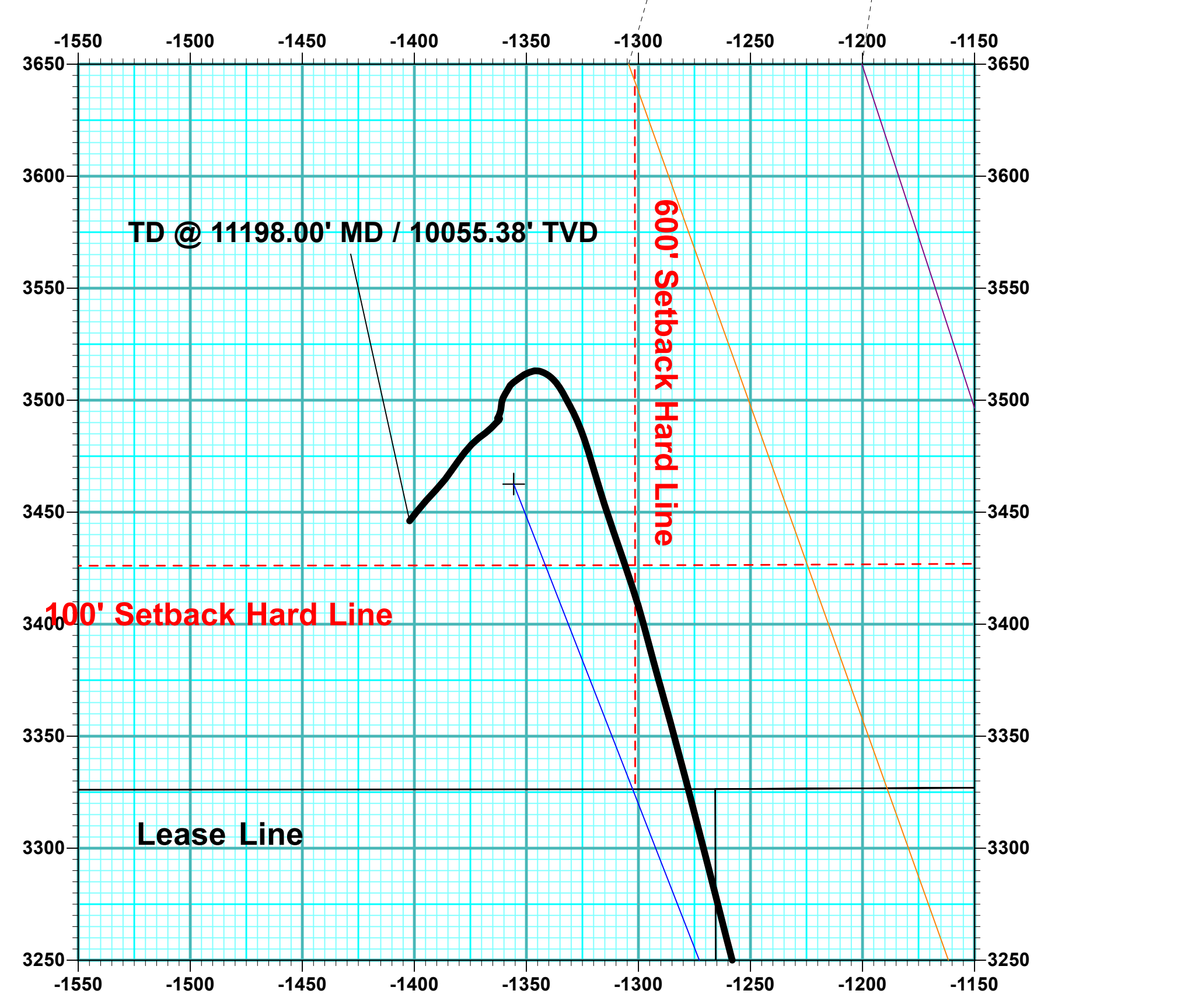
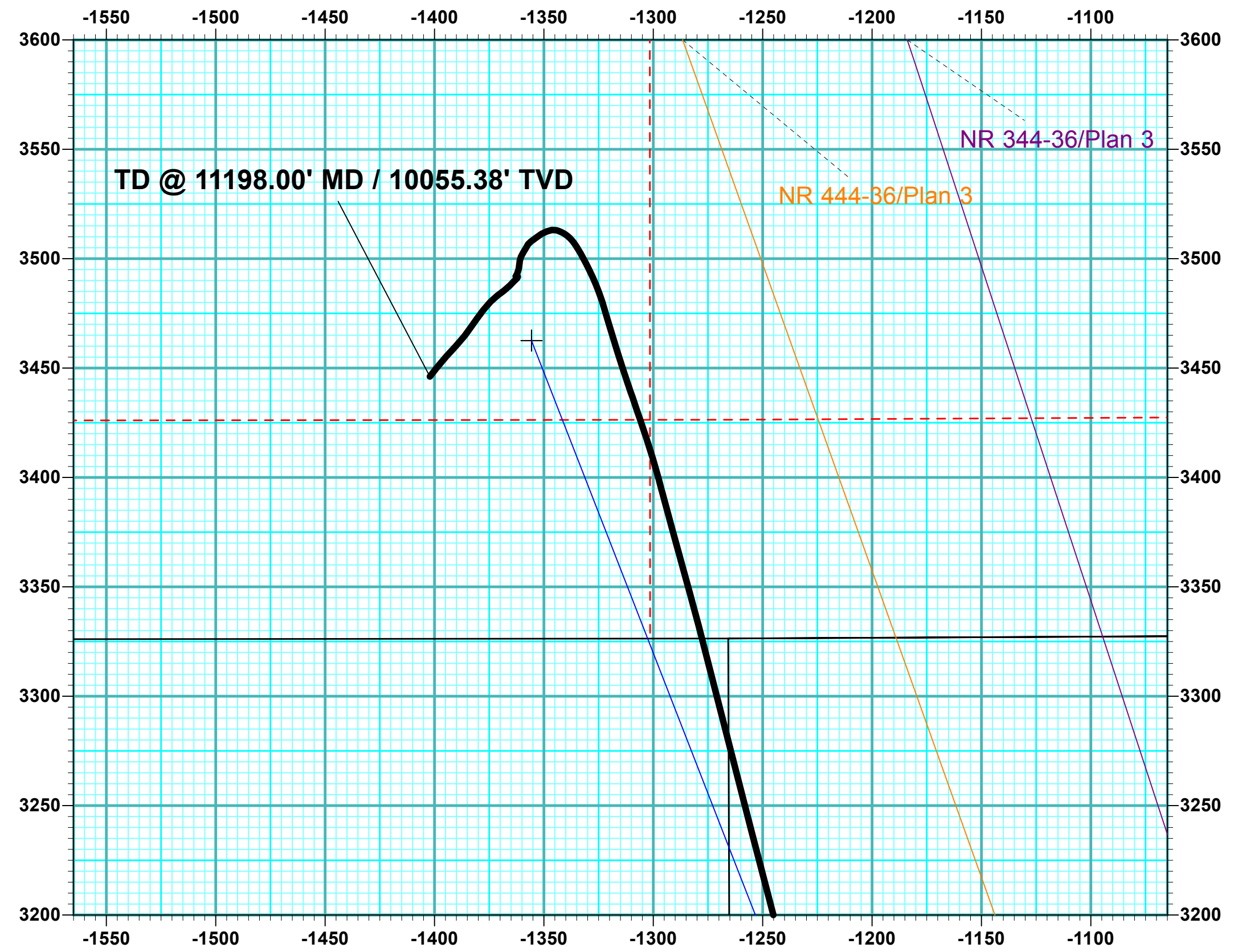
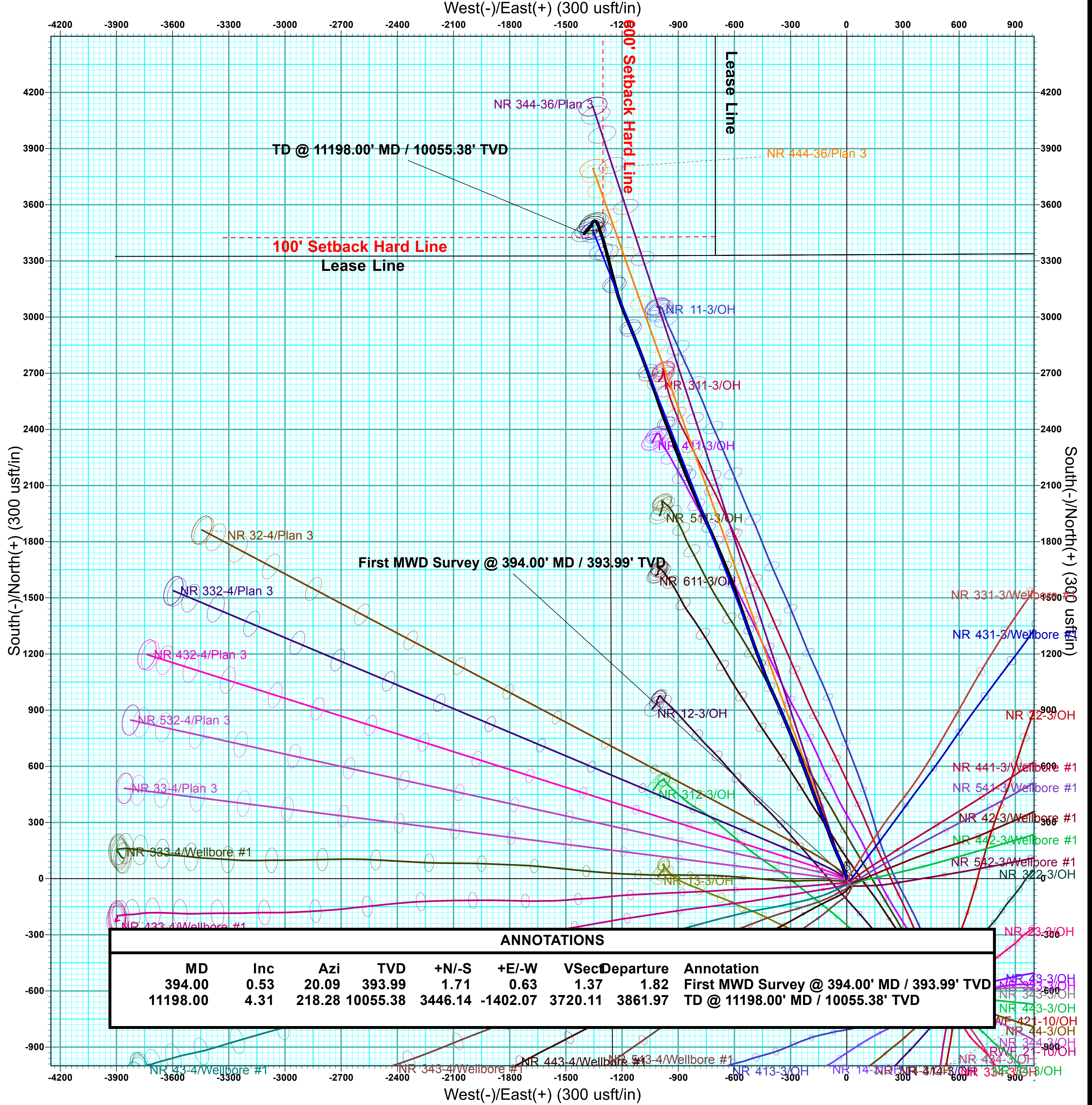
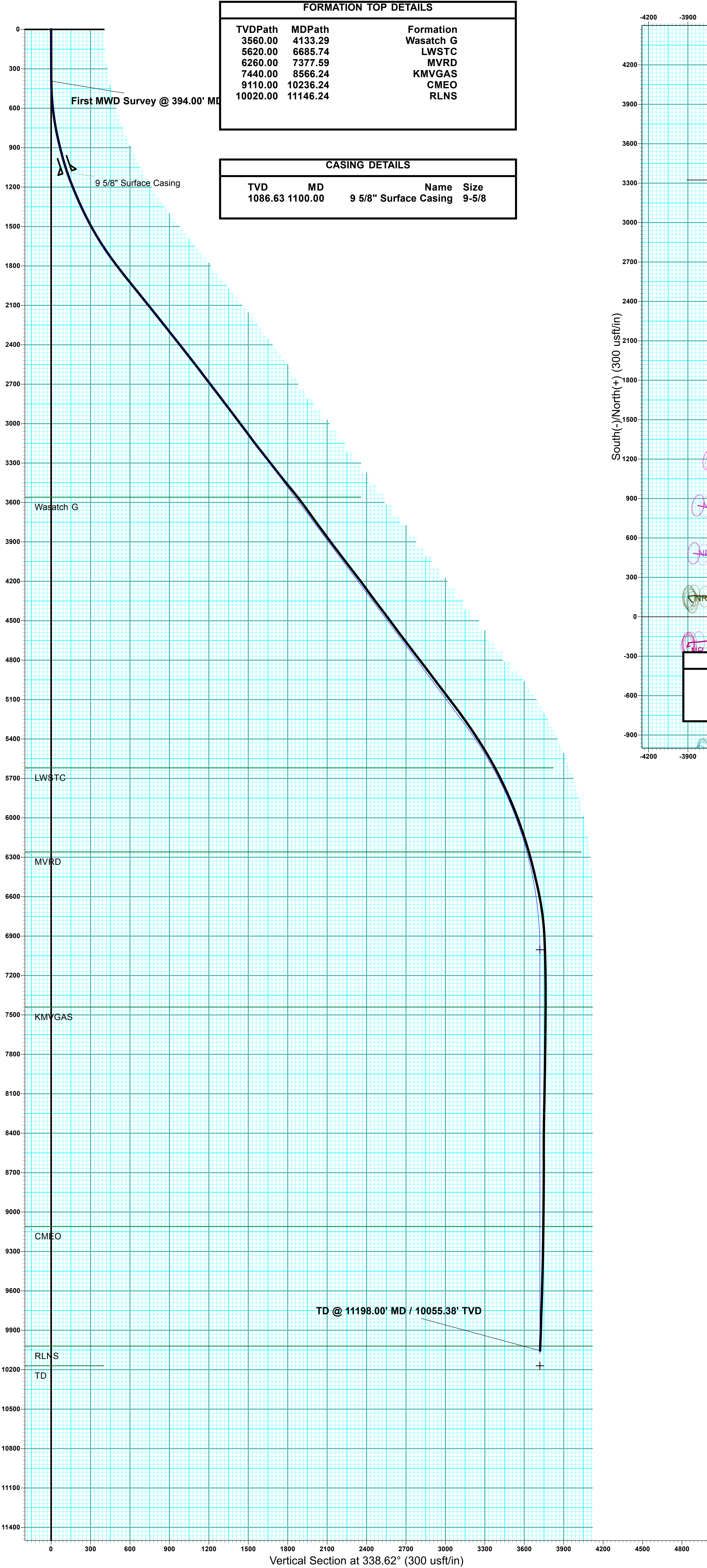
Magnetic Field
Strength: 51142.0nT
Dip Angle: 65.57°
Date: 6/22/2022
Model: HDGM2022

WELL DETAILS: NR 544-36							
Ground Elevation:		6730.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	NR 544-36	
0.00	0.00	1635542.20	2329250.90	39.554236	-107.879093		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP NR 544-36 PLAN 4	7004.50	3462.59	-1355.63	1639039.10	2327986.40	39.563742	-107.883902
NR 544-36 - PBHL	10170.00	3462.59	-1355.63	1639039.10	2327986.40	39.563742	-107.883902

DESIGN ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
3375.00	36.30	339.83	2952.41	1304.83	-514.99	1402.78	0.00
3415.55	36.76	338.71	2984.99	1327.41	-523.54	1426.92	24.14
6292.70	36.76	338.71	5290.00	2931.78	-1148.78	3148.82	1746.04
7657.48	9.47	338.71	6533.39	3426.25	-1341.47	3679.50	2276.30
8130.74	0.00	0.00	7004.50	3462.59	-1355.63	3718.50	2315.73
11206.24	0.00	0.00	10080.00	3462.59	-1355.63	3718.50	2315.73
				EOB @ 36.76° Inc / 338.71° Azm			
				Drop 2"/100'			
				Cross 100' Hard Line @ 7657' MD / 9.47° Inc / 6533' TVD			
				EOD @ Vert			
				TD @ 11206' MD / 10080' TVD			

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	17.33	-14.26	1635559.90	2329237.10
NR 331-3	-5.68	4.76	1635536.20	2329255.50
NR 332-4	10.93	-21.99	1635553.70	2329229.20
NR 333-4	-12.18	-2.88	1635530.10	2329247.70
NR 33-4	-6.40	-7.63	1635536.00	2329243.10
NR 343-4	-35.39	16.13	1635506.40	2329266.10
NR 344-36	11.56	-9.51	1635554.00	2329241.70
NR 42-3	-28.98	23.87	1635512.60	2329274.00
NR 431-3	-11.65	9.61	1635530.30	2329260.20
NR 432-4	5.15	-17.24	1635547.80	2329233.80
NR 433-4	-17.96	1.87	1635524.20	2329252.30
NR 43-4	-29.51	11.38	1635512.40	2329261.50
NR 441-3	-17.43	14.36	1635524.40	2329264.80
NR 442-3	-34.76	28.62	1635506.70	2329278.60
NR 443-4	-41.17	20.89	1635500.50	2329270.70
NR 444-36	5.78	-4.75	1635548.10	2329246.30
NR 532-4	-0.63	-12.49	1635541.90	2329238.40
NR 533-4	-23.73	6.62	1635518.30	2329256.90
NR 541-3	-23.21	19.11	1635518.50	2329269.40
NR 542-3	-40.54	33.37	1635500.80	2329283.20
NR 543-4	-46.94	25.74	1635494.60	2329275.40
NR 544-36	0.00	0.00	1635542.20	2329250.90





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Sec 3, T6S, R94W

NR 544-36 - Slot NR 544-36

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

30 June, 2022



KLX Directional Drilling, INC.

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678

**Survey Certification Sheet**

Company	Job Number	Date
TEP Rocky Mountain LLC	RM-220566	06/30/2022

Lease	Well Name	County & State
NWSW 3 6S94W 6	Federal #NR 544-36	Garfield County, CO

API No.	Survey Depth Range	Survey Type
05-045-24463	394 feet to 11198 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Robert Cuevas

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by KLX Directional Drilling. This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Kristopher Ray
Regulatory Compliance Manager
KLX Directional Drilling, Inc.

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well NR 544-36 - Slot NR 544-36
Project:	Garfield County, CO (Nad 83)	TVD Reference:	KB=30' @ 6760.00usft (H&P #329)
Site:	Sec 3, T6S, R94W	MD Reference:	KB=30' @ 6760.00usft (H&P #329)
Well:	NR 544-36	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Garfield County, CO (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Sec 3, T6S, R94W			
Site Position:		Northing:	1,635,500.80 usft	Latitude:	39.554125
From:	Map	Easting:	2,329,283.20 usft	Longitude:	-107.878975
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.50 °

Well	NR 544-36 - Slot NR 544-36					
Well Position	+N/-S	0.00 usft	Northing:	1,635,542.20 usft	Latitude:	39.554236
	+E/-W	0.00 usft	Easting:	2,329,250.90 usft	Longitude:	-107.879093
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,730.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	6/22/2022	9.10	65.57	51,142.00000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	338.62	

Survey Program	Date	6/30/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
394.00	11,198.00	KLX MWD (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
394.00	0.53	20.09	393.99	1.71	0.63	1.82	20.09	
First MWD Survey @ 394.00' MD / 393.99' TVD								
488.00	3.12	355.21	487.94	4.67	0.56	4.70	6.86	
581.00	5.54	335.61	580.67	11.28	-1.50	11.38	352.41	
674.00	8.31	339.22	672.98	21.66	-5.74	22.40	345.15	
768.00	10.81	341.59	765.67	36.37	-10.94	37.98	343.26	
862.00	13.58	340.71	857.54	55.16	-17.37	57.83	342.52	
956.00	14.46	336.14	948.74	76.31	-25.76	80.54	341.34	
1,051.00	17.45	335.00	1,040.07	100.07	-36.58	106.55	339.92	
1,174.00	21.09	336.23	1,156.16	137.05	-53.30	147.05	338.75	
1,268.00	22.90	337.37	1,243.32	169.41	-67.16	182.23	338.38	

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Well:	NR 544-36	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,362.00	24.21	340.10	1,329.49	204.42	-80.75	219.79	338.44	
1,456.00	26.59	339.57	1,414.40	242.26	-94.66	260.10	338.66	
1,550.00	28.70	337.72	1,497.66	282.86	-110.56	303.70	338.65	
1,644.00	30.89	338.87	1,579.23	326.26	-127.82	350.41	338.61	
1,738.00	33.57	338.34	1,658.74	372.93	-146.12	400.53	338.60	
1,832.00	35.51	338.78	1,736.17	422.54	-165.59	453.83	338.60	
1,926.00	37.57	340.36	1,811.69	474.98	-185.11	509.78	338.71	
2,016.00	38.41	339.92	1,882.62	527.08	-203.93	565.16	338.85	
2,107.00	39.29	339.31	1,953.49	580.59	-223.81	622.24	338.92	
2,197.00	38.67	338.87	2,023.45	633.48	-244.02	678.85	338.93	
2,287.00	38.98	338.07	2,093.57	685.96	-264.73	735.27	338.90	
2,377.00	38.19	337.64	2,163.92	737.95	-285.88	791.39	338.82	
2,467.00	38.67	337.64	2,234.42	789.69	-307.16	847.32	338.75	
2,557.00	38.28	337.02	2,304.88	841.36	-328.74	903.30	338.66	
2,649.00	38.67	336.58	2,376.90	893.97	-351.29	960.51	338.55	
2,739.00	37.70	335.79	2,447.65	944.87	-373.76	1,016.10	338.42	
2,830.00	38.41	335.00	2,519.30	995.87	-397.11	1,072.12	338.26	
2,921.00	37.09	337.46	2,591.26	1,046.83	-419.58	1,127.79	338.16	
3,011.00	37.31	340.36	2,662.95	1,097.59	-439.15	1,182.19	338.19	
3,102.00	37.70	339.83	2,735.14	1,149.69	-458.02	1,237.56	338.28	
3,194.00	37.09	338.69	2,808.23	1,201.94	-477.80	1,293.42	338.32	
3,285.00	37.70	340.98	2,880.53	1,253.81	-496.84	1,348.66	338.38	
3,375.00	36.30	339.83	2,952.41	1,304.83	-514.99	1,402.79	338.46	
3,466.00	37.31	340.54	3,025.27	1,356.12	-533.47	1,457.28	338.53	
3,556.00	36.30	341.24	3,097.33	1,407.07	-551.13	1,511.15	338.61	
3,648.00	37.88	340.80	3,170.71	1,459.53	-569.17	1,566.58	338.70	
3,738.00	38.50	340.36	3,241.45	1,512.01	-587.68	1,622.20	338.76	
3,829.00	37.40	339.92	3,313.21	1,564.64	-606.68	1,678.15	338.81	
3,921.00	38.50	338.43	3,385.75	1,617.52	-626.81	1,734.72	338.82	
4,012.00	39.59	338.43	3,456.43	1,670.82	-647.88	1,792.04	338.81	
4,104.00	38.80	336.93	3,527.73	1,724.61	-669.95	1,850.16	338.77	
4,196.00	36.87	336.76	3,600.39	1,776.49	-692.14	1,906.56	338.71	
4,288.00	35.51	336.32	3,674.63	1,826.32	-713.76	1,960.85	338.65	
4,379.00	36.08	335.61	3,748.45	1,874.93	-735.44	2,014.01	338.58	
4,471.00	37.00	336.32	3,822.36	1,924.96	-757.75	2,068.73	338.51	
4,563.00	36.30	335.53	3,896.17	1,975.10	-780.15	2,123.59	338.45	
4,654.00	37.57	337.28	3,968.91	2,025.21	-802.02	2,178.24	338.40	
4,746.00	37.18	335.88	4,042.02	2,076.45	-824.21	2,234.05	338.35	
4,837.00	37.57	338.34	4,114.34	2,127.34	-845.69	2,289.27	338.32	
4,929.00	37.57	337.90	4,187.26	2,179.39	-866.60	2,345.36	338.32	
5,021.00	35.68	336.76	4,261.10	2,230.04	-887.74	2,400.24	338.29	
5,112.00	36.69	339.48	4,334.55	2,279.89	-907.74	2,453.95	338.29	
5,204.00	37.57	340.54	4,407.90	2,332.07	-926.72	2,509.46	338.33	
5,295.00	36.78	339.04	4,480.41	2,383.67	-945.71	2,564.42	338.36	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well NR 544-36 - Slot NR 544-36
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Site:	Sec 3, T6S, R94W	MD Reference:	KB=30' @ 6760.00usft (H&P #329)
Well:	NR 544-36	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,387.00	36.08	337.99	4,554.43	2,434.51	-965.71	2,619.05	338.36	
5,477.00	37.57	340.62	4,626.47	2,484.97	-984.75	2,672.98	338.38	
5,569.00	36.78	340.80	4,699.78	2,537.44	-1,003.12	2,728.52	338.43	
5,660.00	37.70	340.80	4,772.22	2,589.44	-1,021.23	2,783.54	338.48	
5,752.00	37.49	340.27	4,845.12	2,642.36	-1,039.93	2,839.64	338.52	
5,843.00	36.39	339.83	4,917.85	2,693.77	-1,058.59	2,894.30	338.55	
5,935.00	37.79	340.18	4,991.24	2,745.91	-1,077.55	2,949.77	338.57	
6,026.00	37.00	338.69	5,063.53	2,797.65	-1,096.96	3,005.02	338.59	
6,117.00	37.18	338.78	5,136.12	2,848.79	-1,116.86	3,059.90	338.59	
6,208.00	36.39	337.72	5,209.00	2,899.40	-1,137.05	3,114.39	338.59	
6,298.00	34.41	338.07	5,282.36	2,947.70	-1,156.67	3,166.52	338.58	
6,389.00	34.19	336.93	5,357.54	2,995.08	-1,176.29	3,217.79	338.56	
6,481.00	32.21	338.78	5,434.52	3,041.72	-1,195.30	3,268.15	338.55	
6,571.00	30.59	340.98	5,511.34	3,085.74	-1,211.45	3,315.02	338.57	
6,663.00	29.40	343.17	5,591.02	3,129.49	-1,225.62	3,360.92	338.61	
6,753.00	26.89	345.11	5,670.37	3,170.31	-1,237.24	3,403.18	338.68	
6,845.00	25.88	345.46	5,752.78	3,209.85	-1,247.63	3,443.79	338.76	
6,935.00	23.51	345.28	5,834.55	3,246.23	-1,257.12	3,481.14	338.83	
7,027.00	22.81	345.81	5,919.13	3,281.27	-1,266.16	3,517.08	338.90	
7,116.00	20.30	345.63	6,001.90	3,312.95	-1,274.22	3,549.55	338.96	
7,207.00	18.98	344.84	6,087.61	3,342.53	-1,282.01	3,579.95	339.02	
7,299.00	17.80	344.49	6,174.91	3,370.52	-1,289.68	3,608.83	339.06	
7,390.00	16.22	345.11	6,261.92	3,396.21	-1,296.67	3,635.32	339.10	
7,480.00	14.11	341.50	6,348.79	3,418.76	-1,303.38	3,658.79	339.13	
7,571.00	13.40	340.80	6,437.18	3,439.24	-1,310.37	3,680.41	339.14	
7,663.00	12.70	342.91	6,526.80	3,458.97	-1,316.84	3,701.16	339.16	
7,754.00	10.68	343.52	6,615.91	3,476.62	-1,322.18	3,719.55	339.18	
7,845.00	8.00	335.61	6,705.70	3,490.48	-1,327.18	3,734.28	339.18	
7,936.00	6.02	331.31	6,796.01	3,500.43	-1,332.09	3,745.33	339.17	
8,027.00	3.12	324.89	6,886.71	3,506.64	-1,335.81	3,752.46	339.15	
8,119.00	2.20	311.80	6,978.62	3,509.87	-1,338.56	3,756.45	339.12	
8,210.00	1.89	297.47	7,069.56	3,511.73	-1,341.20	3,759.13	339.10	
8,301.00	1.80	288.77	7,160.51	3,512.88	-1,343.88	3,761.16	339.07	
8,392.00	1.41	258.09	7,251.48	3,513.11	-1,346.33	3,762.25	339.03	
8,484.00	1.49	251.50	7,343.45	3,512.49	-1,348.57	3,762.48	339.00	
8,575.00	1.89	239.99	7,434.41	3,511.37	-1,350.99	3,762.30	338.96	
8,665.00	2.11	231.29	7,524.35	3,509.59	-1,353.57	3,761.57	338.91	
8,756.00	1.49	234.89	7,615.31	3,507.86	-1,355.85	3,760.77	338.87	
8,848.00	0.79	211.60	7,707.29	3,506.63	-1,357.16	3,760.10	338.84	
8,940.00	1.58	208.96	7,799.27	3,504.98	-1,358.10	3,758.90	338.82	
9,032.00	1.49	212.74	7,891.24	3,502.87	-1,359.37	3,757.39	338.79	
9,123.00	1.32	205.01	7,982.21	3,500.92	-1,360.45	3,755.97	338.76	
9,215.00	1.01	186.81	8,074.19	3,499.16	-1,360.99	3,754.52	338.75	
9,306.00	1.10	184.44	8,165.17	3,497.49	-1,361.15	3,753.02	338.73	
9,397.00	1.41	190.24	8,256.15	3,495.52	-1,361.42	3,751.28	338.72	

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Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,489.00	1.41	202.64	8,348.12	3,493.36	-1,362.06	3,749.50	338.70	
9,580.00	0.48	211.60	8,439.11	3,492.00	-1,362.69	3,748.46	338.68	
9,670.00	0.22	0.40	8,529.11	3,491.85	-1,362.89	3,748.40	338.68	
9,760.00	0.40	54.89	8,619.11	3,492.21	-1,362.63	3,748.63	338.68	
9,852.00	0.31	136.63	8,711.11	3,492.21	-1,362.19	3,748.48	338.69	
9,943.00	0.40	153.06	8,802.11	3,491.75	-1,361.88	3,747.93	338.69	
10,035.00	0.79	233.57	8,894.10	3,491.08	-1,362.25	3,747.45	338.68	
10,127.00	1.58	221.27	8,986.08	3,489.75	-1,363.59	3,746.70	338.66	
10,218.00	2.11	225.14	9,077.03	3,487.63	-1,365.61	3,745.46	338.62	
10,308.00	2.29	232.17	9,166.97	3,485.36	-1,368.20	3,744.29	338.57	
10,400.00	2.42	235.07	9,258.89	3,483.12	-1,371.25	3,743.32	338.51	
10,491.00	2.99	223.29	9,349.79	3,480.29	-1,374.45	3,741.86	338.45	
10,582.00	3.21	217.93	9,440.66	3,476.55	-1,377.64	3,739.56	338.38	
10,674.00	2.59	215.64	9,532.54	3,472.83	-1,380.44	3,737.13	338.32	
10,766.00	2.90	214.59	9,624.43	3,469.23	-1,382.97	3,734.72	338.27	
10,857.00	4.00	216.79	9,715.27	3,464.79	-1,386.18	3,731.79	338.19	
10,949.00	4.09	223.90	9,807.04	3,459.86	-1,390.37	3,728.77	338.11	
11,040.00	3.99	221.62	9,897.81	3,455.15	-1,394.73	3,726.03	338.02	
11,129.00	4.31	218.28	9,986.58	3,450.21	-1,398.86	3,723.00	337.93	
11,198.00	4.31	218.28	10,055.38	3,446.14	-1,402.07	3,720.44	337.86	
TD @ 11198.00' MD / 10055.38' TVD								

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
394.00	393.99	1.71	0.63	First MWD Survey @ 394.00' MD / 393.99' TVD
11,198.00	10,055.38	3,446.14	-1,402.07	TD @ 11198.00' MD / 10055.38' TVD

Checked By: _____ Approved By: _____ Date: _____