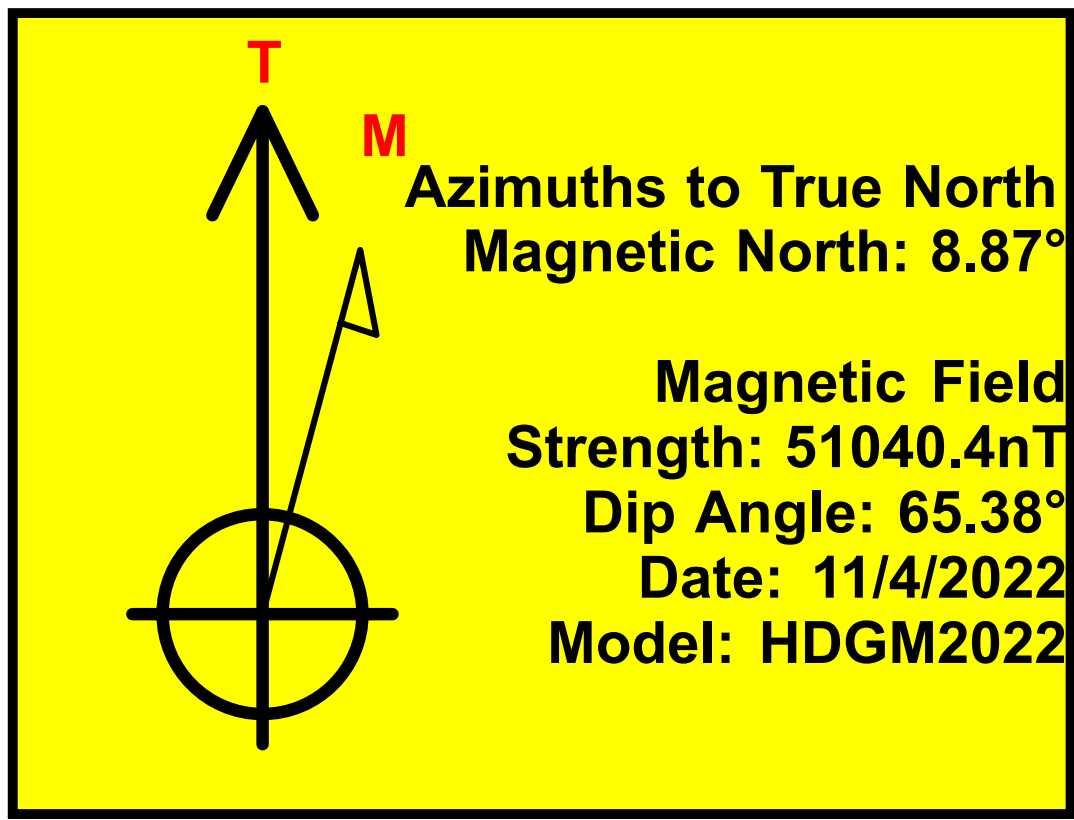


WMC 24-17 Pad
WMC 532-20
Q221130 & RM-221011
Plan 2

Company Name: Terra Energy Partners, LLP
WMC 532-20
Garfield County, CO (Nad 83)
Rig: KB=30' @ 8898.00usft (H&P #329)
Created by: Chase Chambers
Date: 3:20, November 11 2022

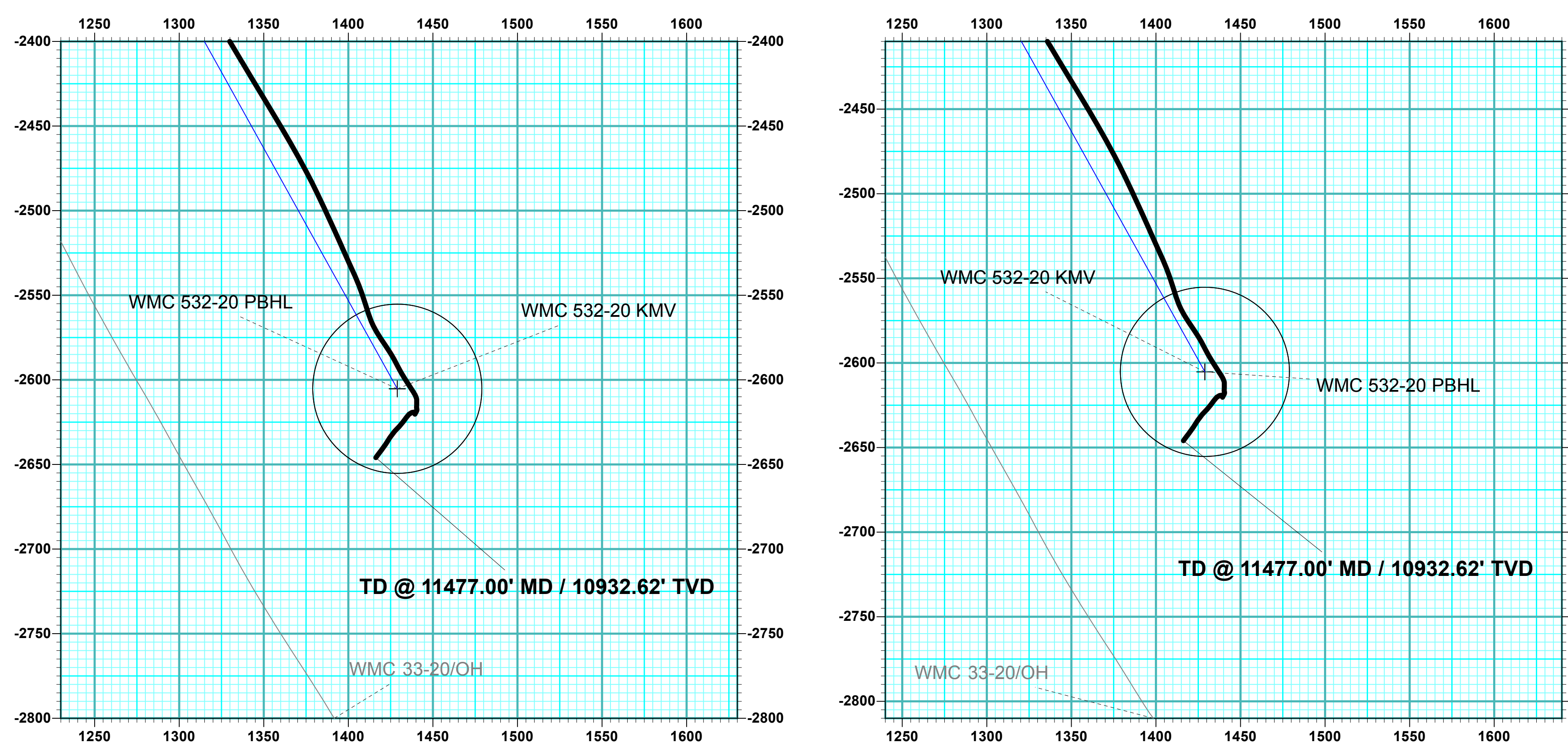
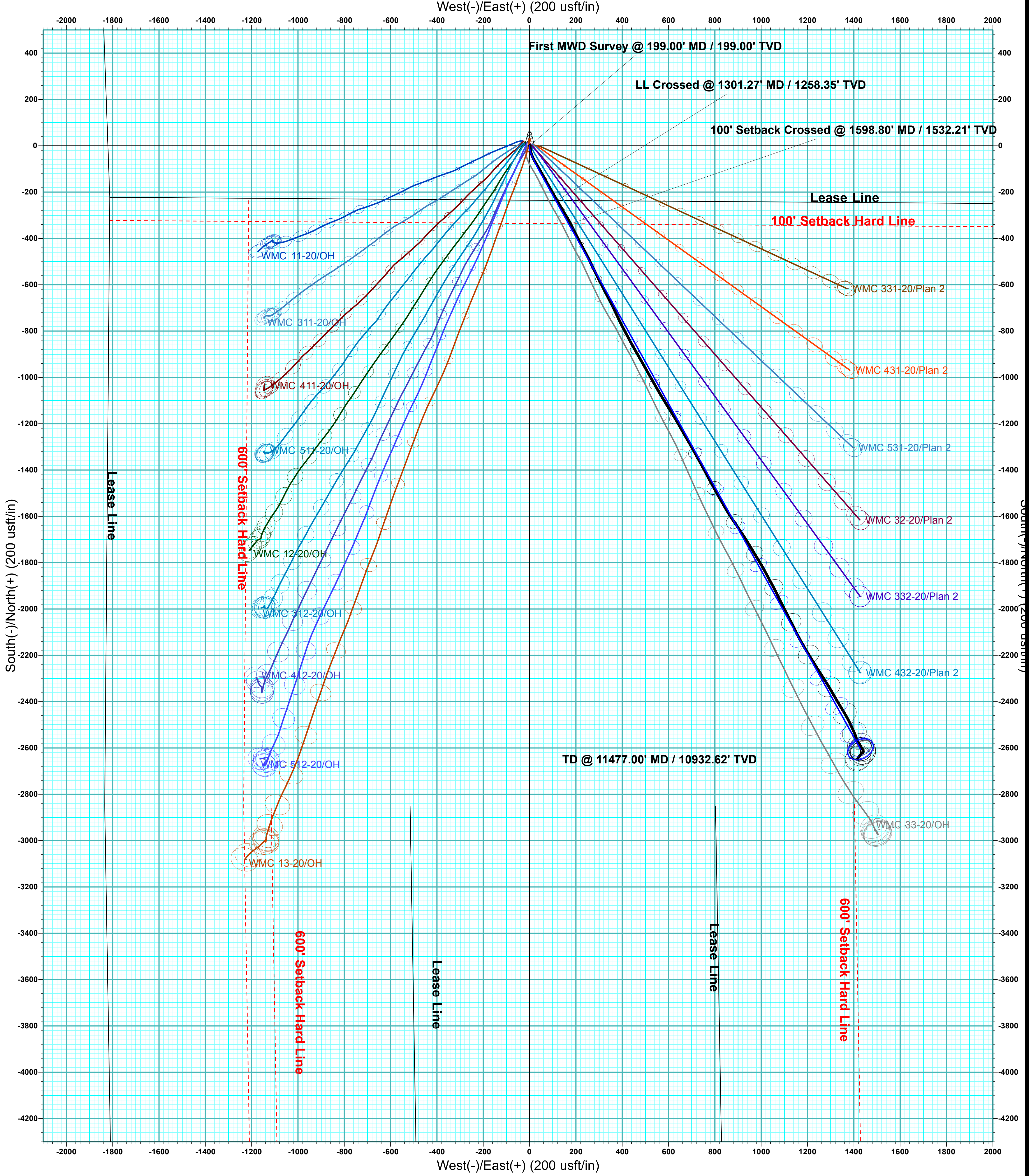
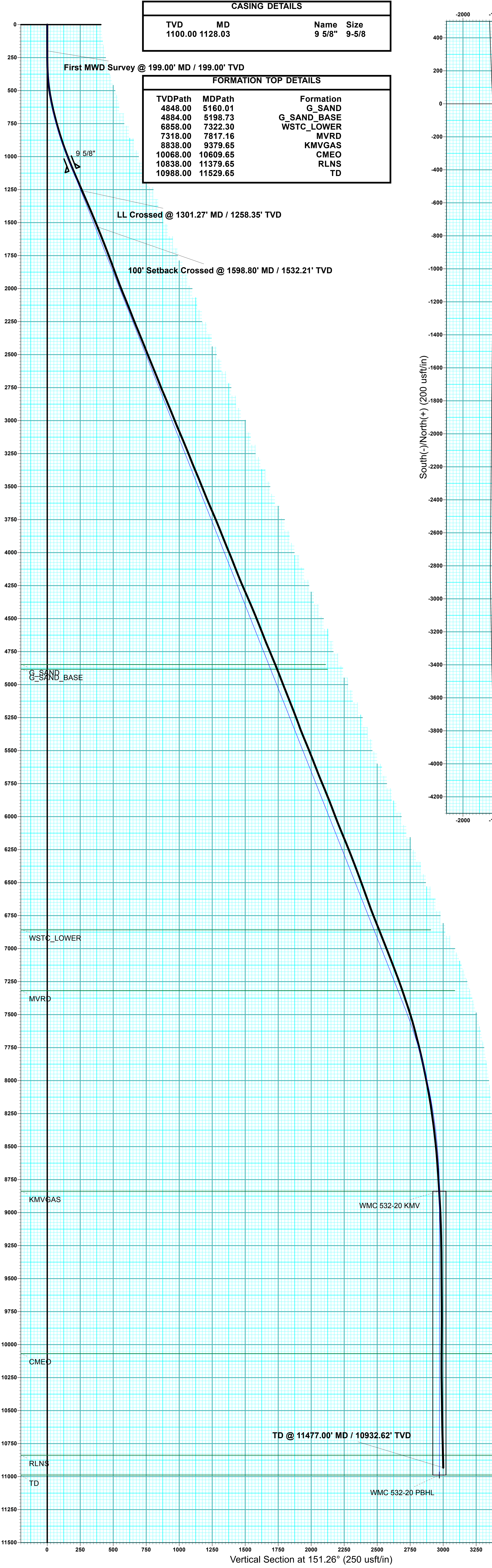
PROJECT DETAILS: Garfield County, CO (Nad 83)

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

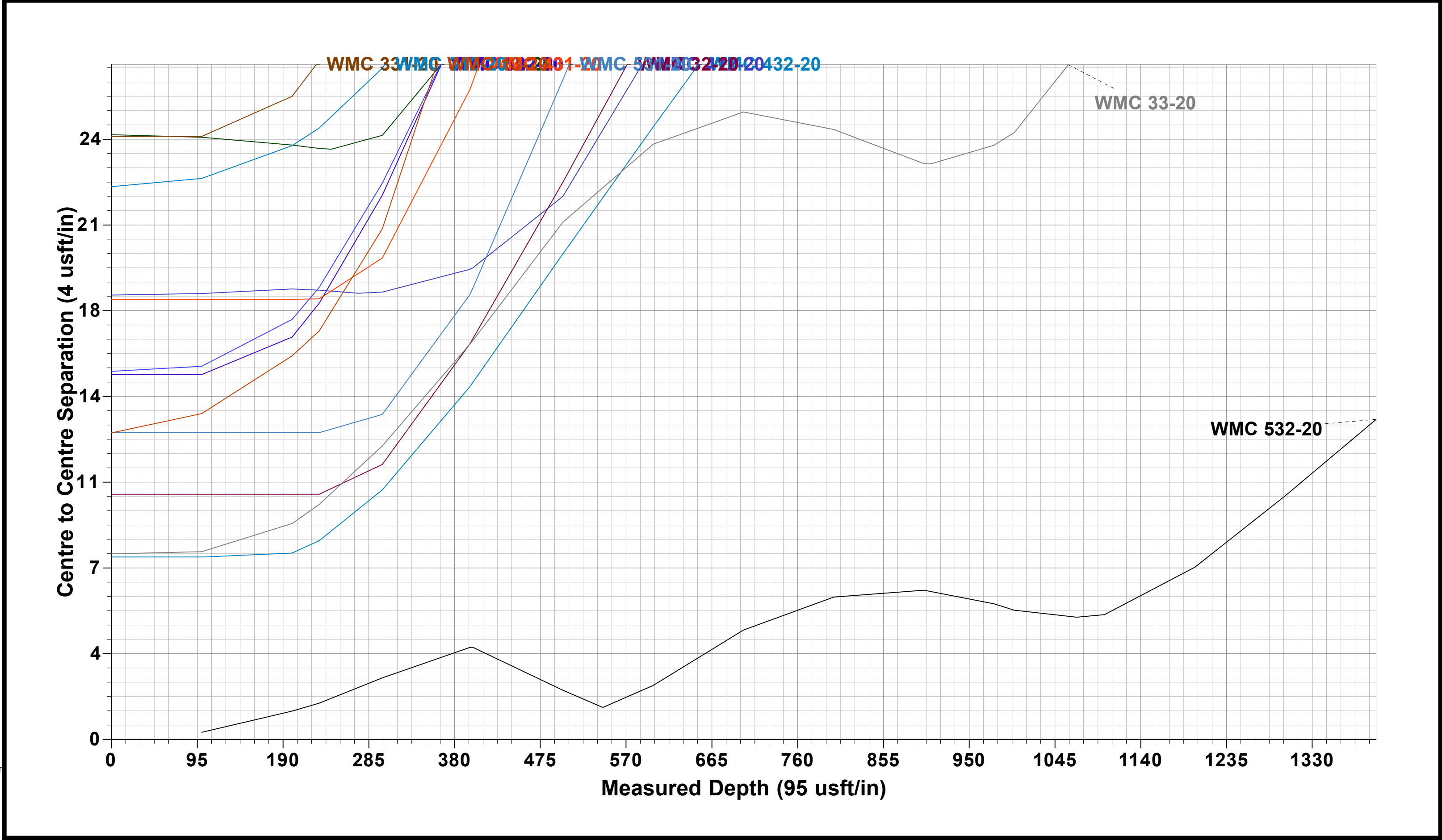


WELL DETAILS: WMC 532-20							
Ground Elevation:				8868.00			
+N/-S 0.00	+E/-W 0.00	Northing 1593018.50	Easting 2350628.00	Latitude 39.439039	Longitude -107.799487	WMC 532-20	
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
WMC 532-20 KMV	8838.00	-2605.27	1428.99	1590377.90	2351990.60	39.431886	-107.794427
WMC 532-20 PBHL	10988.00	-2605.27	1428.99	1590377.90	2351990.60	39.431886	-107.794427
DESIGN ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
230.00	0.00	0.00	230.00	0.00	0.00	0.00	0.00
396.67	5.00	180.00	396.46	-7.27	0.00	6.37	7.27
977.45	21.63	150.95	960.03	-127.09	52.39	136.62	138.82
7937.49	21.63	150.95	7429.86	-2370.09	1298.35	2702.41	2704.65
9379.65	0.00	0.00	8838.00	-2605.27	1428.99	2971.44	2973.68
11529.65	0.00	0.00	10988.00	-2605.27	1428.99	2971.44	2973.68
							TD at 11529.65

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
WMC 11-20	22.71	-31.58	1593042.00	2350597.00
WMC 12-20	17.36	-17.55	1593036.30	2350610.90
WMC 13-20	12.02	-3.51	1593030.60	2350624.80
WMC 311-20	13.31	-35.15	1593032.70	2350593.20
WMC 312-20	7.97	-21.11	1593027.00	2350607.10
WMC 32-20	9.39	3.46	1593027.80	2350631.70
WMC 331-20	1.42	24.57	1593019.30	2350652.60
WMC 33-20	2.72	-7.07	1593021.40	2350621.00
WMC 332-20	-5.25	13.94	1593012.90	2350641.80
WMC 411-20	19.99	-24.51	1593039.10	2350604.00
WMC 412-20	14.74	-10.58	1593033.50	2350617.80
WMC 431-20	4.04	17.50	1593022.10	2350645.60
WMC 432-20	-2.62	6.97	1593015.70	2350634.90
WMC 511-20	10.69	-28.08	1593029.90	2350600.20
WMC 512-20	5.35	-14.04	1593024.20	2350614.10
WMC 531-20	6.77	10.53	1593025.00	2350638.70
WMC 532-20	0.00	0.00	1593018.50	2350628.00



ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure
199.00	0.66	67.59	199.00	0.44	1.06	0.13	1.15
1301.27	23.53	150.20	1258.35	-236.33	118.68	264.28	268.45
1598.80	22.01	153.16	1532.21	-336.74	177.26	380.49	384.71
11477.00	3.21	217.36	10932.62	-2645.93	1416.27	3000.97	3036.10
							First MWD Survey @ 199.00' MD / 199.00' TVD
							LL Crossed @ 1301.27' MD / 1258.35' TVD
							100' Setback Crossed @ 1598.80' MD / 1532.21' TVD
							TD @ 11477.00' MD / 10932.62' TVD





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

WMC 24-17 Pad

WMC 532-20 - Slot WMC 532-20

OH

Design: OH

KLX Survey Certification Report

11 November, 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-221011	11/11/2022

Lease	Well Name	County & State
SESW 17 7S93W 6	Federal #WMC 532-20	Garfield County, CO

API No.	Survey Depth Range	Survey Type
05-045-24489	199 feet to 11477 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 WMC 532-20 - Slot WMC 532-20
Project:	Garfield County, CO (Nad 83)	TVD Reference:	KB=30' @ 8898.00usft (H&P #329)
Site:	WMC 24-17 Pad	MD Reference:	KB=30' @ 8898.00usft (H&P #329)
Well:	WMC 532-20	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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		WMC 24-17 Pad			
Site Position:		Northing:	1,593,032.70 usft	Latitude:	39.439076
From:	Map	Easting:	2,350,593.20 usft	Longitude:	-107.799611
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.45 °

Well		WMC 532-20 - Slot WMC 532-20				
Well Position	+N/-S	0.00 usft	Northing:	1,593,018.50 usft	Latitude:	39.439039
	+E/-W	0.00 usft	Easting:	2,350,628.00 usft	Longitude:	-107.799487
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	8,868.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	11/4/2022	8.87	65.38	51,040.40000000

Design	OH				
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	151.26	

Survey Program	Date	11/11/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.00	11,477.00	KLX MWD Surveys (OH)	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
199.00	0.66	67.59	199.00	0.44	1.06	1.15	67.59	
First MWD Survey @ 199.00' MD / 199.00' TVD								
295.00	1.01	138.26	294.99	0.02	2.13	2.13	89.56	
388.00	4.17	180.09	387.89	-3.98	2.67	4.79	146.08	
481.00	8.70	176.84	480.28	-14.39	3.06	14.71	168.00	
574.00	11.38	162.34	571.86	-30.16	6.23	30.80	168.33	
666.00	13.75	156.10	661.65	-48.81	13.41	50.62	164.63	
760.00	15.64	149.94	752.58	-69.99	24.29	74.08	160.86	
853.00	17.36	148.89	841.75	-92.72	37.74	100.11	157.85	
946.00	20.00	151.17	929.84	-118.54	52.58	129.67	156.08	
1,040.00	21.36	151.00	1,017.78	-147.59	68.63	162.77	155.06	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
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Site:	WMC 24-17 Pad	MD Reference:	KB=30' @ 8898.00usft (H&P #329)
Well:	WMC 532-20	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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 (°)
1,071.00	21.84	151.26		1,046.60	-157.59	74.14	174.16	154.80
1,160.00	23.20	149.77		1,128.82	-187.25	90.93	208.16	154.10
1,250.00	23.73	151.09		1,211.37	-218.42	108.61	243.93	153.56
1,340.00	23.38	149.51		1,293.88	-249.66	126.42	279.84	153.14
1,431.00	23.20	149.59		1,377.46	-280.68	144.66	315.76	152.73
1,521.00	22.85	148.45		1,460.29	-310.86	162.77	350.90	152.36
1,612.00	21.88	153.99		1,544.45	-341.16	179.46	385.48	152.25
1,702.00	21.84	153.28		1,627.98	-371.18	194.34	418.98	152.37
1,792.00	21.05	152.76		1,711.75	-400.51	209.26	451.88	152.41
1,883.00	20.52	152.32		1,796.83	-429.16	224.15	484.17	152.42
1,973.00	19.86	151.35		1,881.30	-456.55	238.81	515.23	152.39
2,064.00	21.27	153.55		1,966.50	-484.89	253.57	547.19	152.39
2,154.00	22.32	154.16		2,050.06	-514.89	268.29	580.60	152.48
2,245.00	21.75	153.64		2,134.42	-545.55	283.31	614.73	152.56
2,336.00	21.40	153.02		2,219.04	-575.45	298.33	648.19	152.60
2,426.00	22.54	153.11		2,302.50	-605.47	313.58	681.86	152.62
2,516.00	22.37	153.20		2,385.68	-636.14	329.11	716.23	152.65
2,607.00	21.27	151.79		2,470.16	-666.14	344.72	750.05	152.64
2,698.00	22.81	154.43		2,554.51	-696.60	360.13	784.19	152.66
2,788.00	22.02	154.34		2,637.71	-727.55	374.97	818.49	152.73
2,878.00	21.45	154.34		2,721.31	-757.59	389.40	851.81	152.80
2,969.00	23.20	152.32		2,805.49	-788.46	404.93	886.37	152.82
3,059.00	22.68	151.88		2,888.37	-819.47	421.35	921.44	152.79
3,150.00	21.40	151.61		2,972.72	-849.55	437.51	955.58	152.75
3,241.00	23.07	150.38		3,056.95	-879.65	454.22	990.00	152.69
3,331.00	22.98	149.94		3,139.78	-910.19	471.73	1,025.17	152.60
3,421.00	21.97	150.56		3,222.94	-940.05	488.81	1,059.55	152.53
3,512.00	21.62	150.65		3,307.44	-969.49	505.39	1,093.31	152.47
3,602.00	23.16	150.47		3,390.65	-999.34	522.24	1,127.58	152.41
3,693.00	22.02	150.30		3,474.67	-1,029.73	539.52	1,162.51	152.35
3,784.00	21.66	150.21		3,559.13	-1,059.13	556.31	1,196.34	152.29
3,874.00	23.64	148.19		3,642.19	-1,088.88	574.08	1,230.94	152.20
3,964.00	22.85	148.89		3,724.88	-1,119.18	592.62	1,266.39	152.10
4,055.00	22.41	147.92		3,808.88	-1,149.00	610.96	1,301.34	152.00
4,146.00	21.31	148.71		3,893.33	-1,177.83	628.76	1,335.15	151.91
4,236.00	22.85	150.56		3,976.73	-1,207.02	645.84	1,368.95	151.85
4,327.00	21.66	150.74		4,060.95	-1,237.06	662.74	1,403.41	151.82
4,418.00	21.18	149.15		4,145.67	-1,265.83	679.38	1,436.62	151.78
4,508.00	23.12	150.56		4,229.02	-1,295.18	696.40	1,470.53	151.73
4,598.00	23.82	151.09		4,311.57	-1,326.48	713.87	1,506.37	151.71
4,689.00	23.16	150.82		4,395.03	-1,358.19	731.48	1,542.64	151.69
4,779.00	22.41	151.26		4,478.01	-1,388.68	748.36	1,577.49	151.68
4,870.00	21.49	152.67		4,562.41	-1,418.70	764.35	1,611.50	151.69
4,960.00	21.14	151.61		4,646.26	-1,447.62	779.64	1,644.21	151.69

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
Project:	Garfield County, CO (Nad 83)	TVD Reference:	KB=30' @ 8898.00usft (H&P #329)
Site:	WMC 24-17 Pad	MD Reference:	KB=30' @ 8898.00usft (H&P #329)
Well:	WMC 532-20	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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 (°)	
5,050.00	23.33	150.91	4,729.56	-1,477.48	796.02	1,678.27	151.69	
5,141.00	22.41	150.74	4,813.40	-1,508.36	813.26	1,713.63	151.67	
5,232.00	21.62	149.94	4,897.77	-1,538.00	830.13	1,747.73	151.64	
5,322.00	21.01	150.21	4,981.61	-1,566.35	846.46	1,780.43	151.61	
5,412.00	22.06	146.87	5,065.33	-1,594.51	863.71	1,813.41	151.56	
5,503.00	21.71	145.46	5,149.77	-1,622.68	882.59	1,847.18	151.46	
5,594.00	20.61	146.43	5,234.64	-1,649.89	900.99	1,879.88	151.36	
5,684.00	20.39	146.25	5,318.94	-1,676.13	918.46	1,911.28	151.28	
5,774.00	22.90	147.31	5,402.59	-1,703.90	936.63	1,944.37	151.20	
5,865.00	22.10	149.15	5,486.66	-1,733.50	954.97	1,979.14	151.15	
5,955.00	21.49	149.68	5,570.23	-1,762.27	971.98	2,012.54	151.12	
6,046.00	21.14	147.75	5,655.00	-1,790.53	989.15	2,045.59	151.08	
6,137.00	22.90	150.74	5,739.36	-1,819.86	1,006.56	2,079.68	151.05	
6,227.00	22.10	151.79	5,822.51	-1,850.06	1,023.12	2,114.12	151.06	
6,318.00	21.36	151.61	5,907.04	-1,879.72	1,039.09	2,147.81	151.07	
6,408.00	20.35	151.79	5,991.15	-1,907.93	1,054.29	2,179.84	151.08	
6,499.00	22.32	154.08	6,075.91	-1,937.42	1,069.32	2,212.93	151.10	
6,589.00	22.59	154.25	6,159.08	-1,968.36	1,084.30	2,247.25	151.15	
6,680.00	22.02	152.41	6,243.28	-1,999.22	1,099.79	2,281.76	151.18	
6,770.00	21.23	152.84	6,326.94	-2,028.68	1,115.05	2,314.92	151.20	
6,861.00	20.21	152.76	6,412.05	-2,057.31	1,129.76	2,347.10	151.23	
6,951.00	20.48	154.08	6,496.44	-2,085.29	1,143.76	2,378.37	151.26	
7,042.00	19.78	152.49	6,581.88	-2,113.27	1,157.83	2,409.66	151.28	
7,132.00	19.64	151.61	6,666.61	-2,140.08	1,172.06	2,440.01	151.29	
7,223.00	21.75	149.24	6,751.73	-2,168.03	1,187.95	2,472.16	151.28	
7,313.00	21.75	148.45	6,835.33	-2,196.57	1,205.21	2,505.48	151.25	
7,404.00	21.49	148.54	6,919.92	-2,225.15	1,222.73	2,538.97	151.21	
7,494.00	21.75	147.40	7,003.59	-2,253.26	1,240.32	2,572.08	151.17	
7,585.00	21.13	148.01	7,088.29	-2,281.38	1,258.09	2,605.28	151.13	
7,675.00	21.01	146.96	7,172.28	-2,308.66	1,275.48	2,637.57	151.08	
7,766.00	20.08	149.15	7,257.49	-2,335.75	1,292.39	2,669.46	151.04	
7,857.00	18.46	150.21	7,343.39	-2,361.67	1,307.56	2,699.48	151.03	
7,947.00	18.63	149.42	7,428.72	-2,386.41	1,321.95	2,728.09	151.02	
8,038.00	17.18	149.42	7,515.31	-2,410.49	1,336.18	2,756.06	151.00	
8,128.00	14.72	148.36	7,601.84	-2,431.68	1,348.94	2,780.77	150.98	
8,218.00	14.37	149.68	7,688.95	-2,451.05	1,360.58	2,803.36	150.97	
8,309.00	13.40	150.91	7,777.29	-2,470.01	1,371.41	2,825.19	150.96	
8,400.00	12.30	154.16	7,866.01	-2,487.95	1,380.76	2,845.42	150.97	
8,490.00	11.43	155.31	7,954.09	-2,504.68	1,388.66	2,863.88	150.99	
8,581.00	10.50	156.01	8,043.43	-2,520.45	1,395.80	2,881.13	151.02	
8,672.00	9.93	155.39	8,132.98	-2,535.16	1,402.44	2,897.22	151.05	
8,762.00	8.13	160.76	8,221.87	-2,548.23	1,407.77	2,911.23	151.08	
8,853.00	7.82	162.69	8,311.99	-2,560.21	1,411.73	2,923.64	151.13	
8,943.00	6.20	150.21	8,401.31	-2,570.28	1,415.97	2,934.50	151.15	
9,034.00	6.33	145.37	8,491.77	-2,578.67	1,421.26	2,944.40	151.14	

Company:	Terra Energy Partners, LLP	Local Co-ordinate Reference:	Well WMC 532-20 - Slot WMC 532-20
Project:	Garfield County, CO (Nad 83)	TVD Reference:	KB=30' @ 8898.00usft (H&P #329)
Site:	WMC 24-17 Pad	MD Reference:	KB=30' @ 8898.00usft (H&P #329)
Well:	WMC 532-20	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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 (°)
9,124.00	4.26	149.33	8,581.38	-2,585.63	1,425.78	2,952.68	151.13
9,215.00	3.96	153.20	8,672.15	-2,591.34	1,428.93	2,959.20	151.13
9,306.00	3.60	149.33	8,762.95	-2,596.60	1,431.80	2,965.20	151.13
9,396.00	3.38	147.40	8,852.78	-2,601.27	1,434.67	2,970.67	151.12
9,486.00	3.30	146.69	8,942.63	-2,605.67	1,437.52	2,975.90	151.11
9,577.00	1.98	152.84	9,033.53	-2,609.25	1,439.68	2,980.08	151.11
9,668.00	1.71	176.02	9,124.49	-2,612.01	1,440.49	2,982.88	151.12
9,758.00	1.58	185.28	9,214.45	-2,614.58	1,440.47	2,985.13	151.15
9,849.00	0.66	176.05	9,305.43	-2,616.35	1,440.39	2,986.64	151.17
9,939.00	0.26	161.72	9,395.43	-2,617.07	1,440.49	2,987.31	151.17
10,029.00	0.53	173.41	9,485.43	-2,617.67	1,440.60	2,987.90	151.17
10,120.00	0.62	216.70	9,576.42	-2,618.49	1,440.36	2,988.49	151.19
10,210.00	0.92	203.03	9,666.41	-2,619.54	1,439.78	2,989.14	151.21
10,301.00	0.13	224.65	9,757.41	-2,620.29	1,439.42	2,989.62	151.22
10,391.00	0.22	0.53	9,847.41	-2,620.19	1,439.35	2,989.50	151.22
10,482.00	0.44	2.02	9,938.41	-2,619.66	1,439.37	2,989.05	151.21
10,572.00	0.57	301.91	10,028.41	-2,619.08	1,439.00	2,988.36	151.21
10,663.00	1.36	246.18	10,119.39	-2,619.28	1,437.63	2,987.87	151.24
10,753.00	1.23	230.01	10,209.37	-2,620.33	1,435.91	2,987.97	151.28
10,844.00	1.89	213.84	10,300.34	-2,622.20	1,434.33	2,988.85	151.32
10,934.00	2.24	216.65	10,390.28	-2,624.85	1,432.45	2,990.27	151.38
11,024.00	2.33	223.95	10,480.21	-2,627.58	1,430.13	2,991.56	151.44
11,115.00	2.68	224.30	10,571.12	-2,630.43	1,427.36	2,992.74	151.51
11,205.00	3.08	210.76	10,661.01	-2,634.01	1,424.65	2,994.61	151.59
11,296.00	2.90	213.05	10,751.88	-2,638.04	1,422.15	2,996.96	151.67
11,386.00	3.16	218.32	10,841.76	-2,641.90	1,419.37	2,999.04	151.75
11,420.00	3.21	217.36	10,875.70	-2,643.39	1,418.21	2,999.81	151.79
11,477.00	3.21	217.36	10,932.62	-2,645.93	1,416.27	3,001.13	151.84
TD @ 11477.00' MD / 10932.62' TVD							

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
199.00	199.00	0.44	1.06	First MWD Survey @ 199.00' MD / 199.00' TVD
11,477.00	10,932.62	-2,645.93	1,416.27	TD @ 11477.00' MD / 10932.62' TVD