

WMC 24-17 Pad  
WMC 33-20  
Q221095 & RM-220974  
Plan 3

Company Name: Terra Energy Partners, LLP  
WMC 33-20  
Garfield County, CO (Nad 83)  
Rig: KB=30' @ 8898.00usft (H&P #329)  
Created by: Chase Chambers  
Date: 16:31, November 04 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

TERRA  
ENERGY PARTNERS

KLX  
Directional Drilling

T

M

Azimuths to True North  
Magnetic North: 8.87°

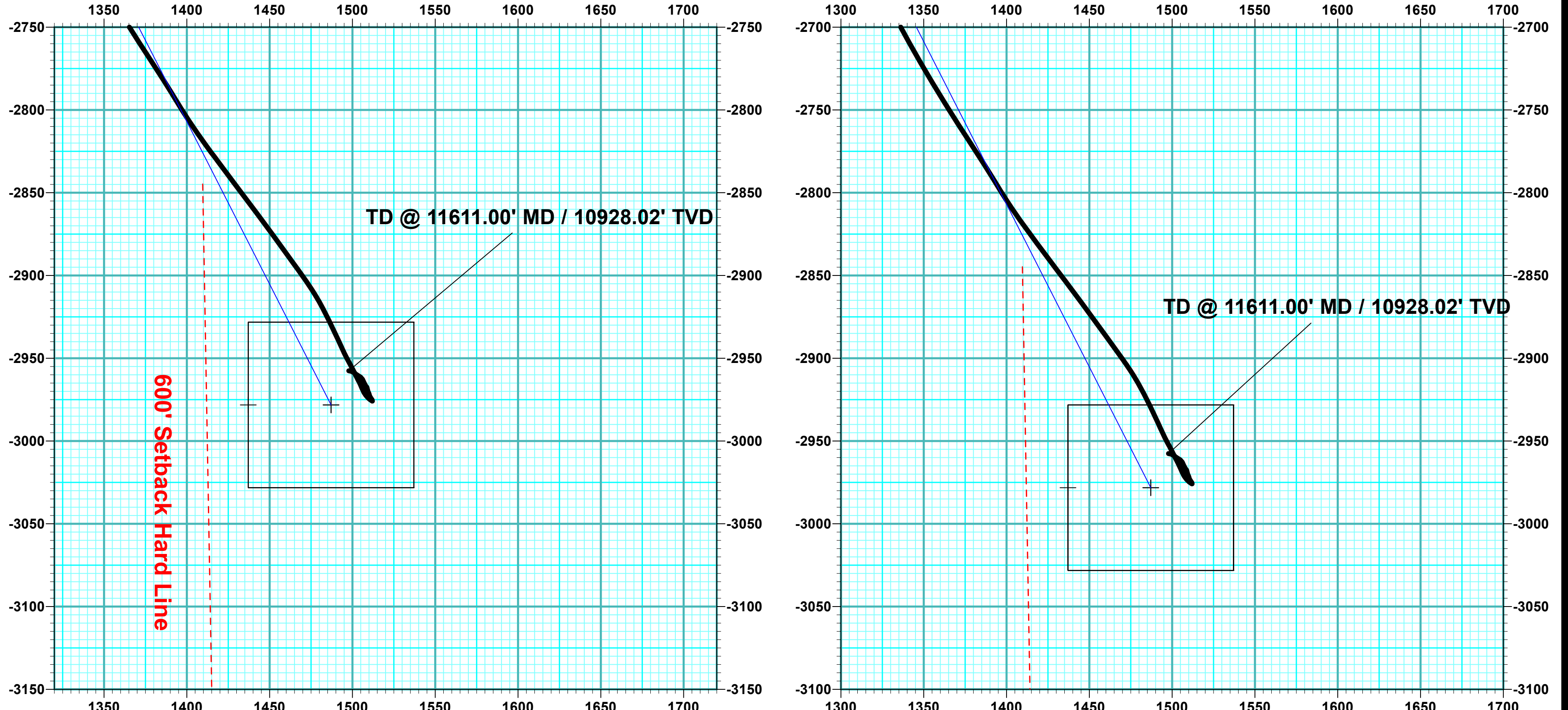
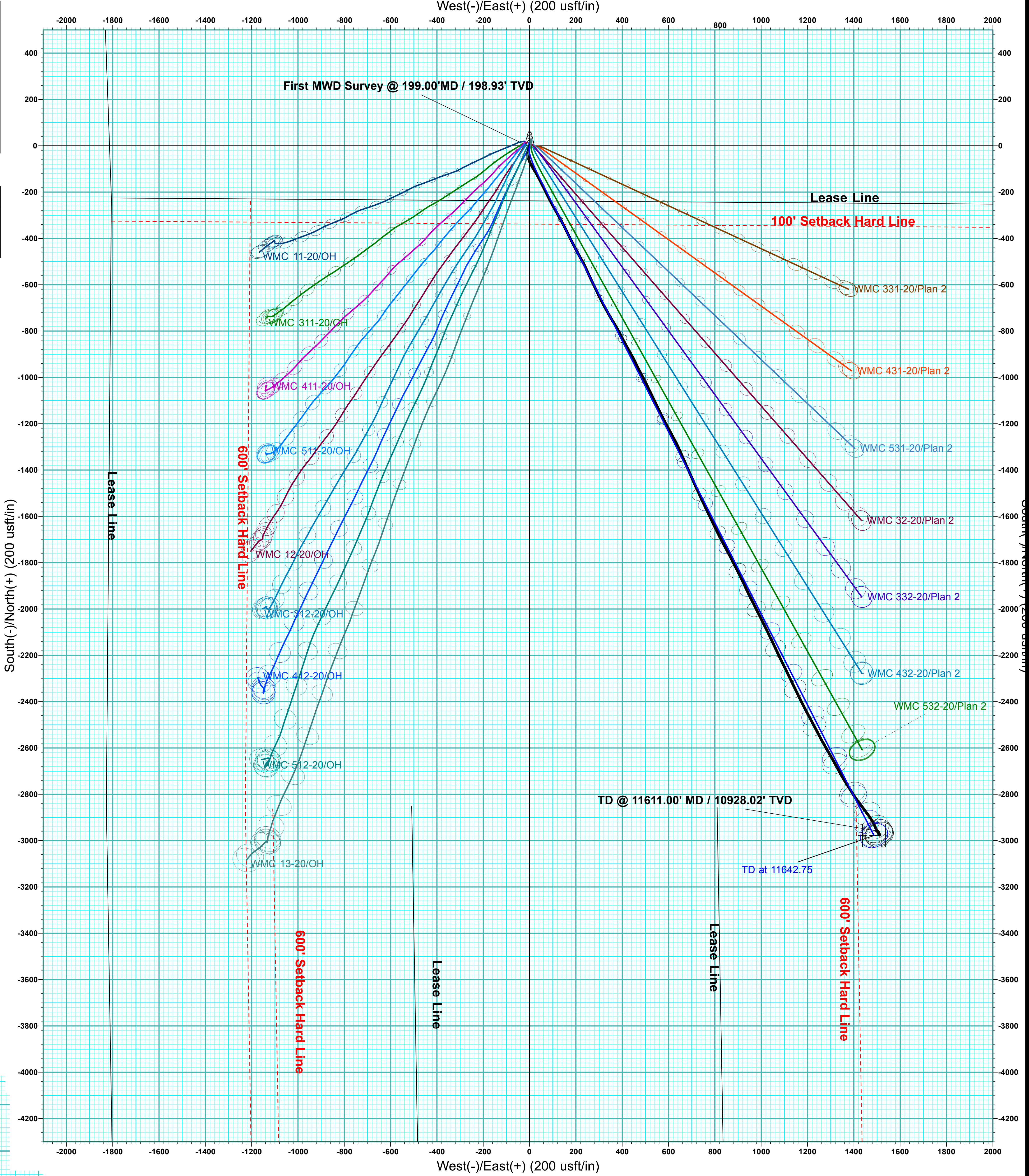
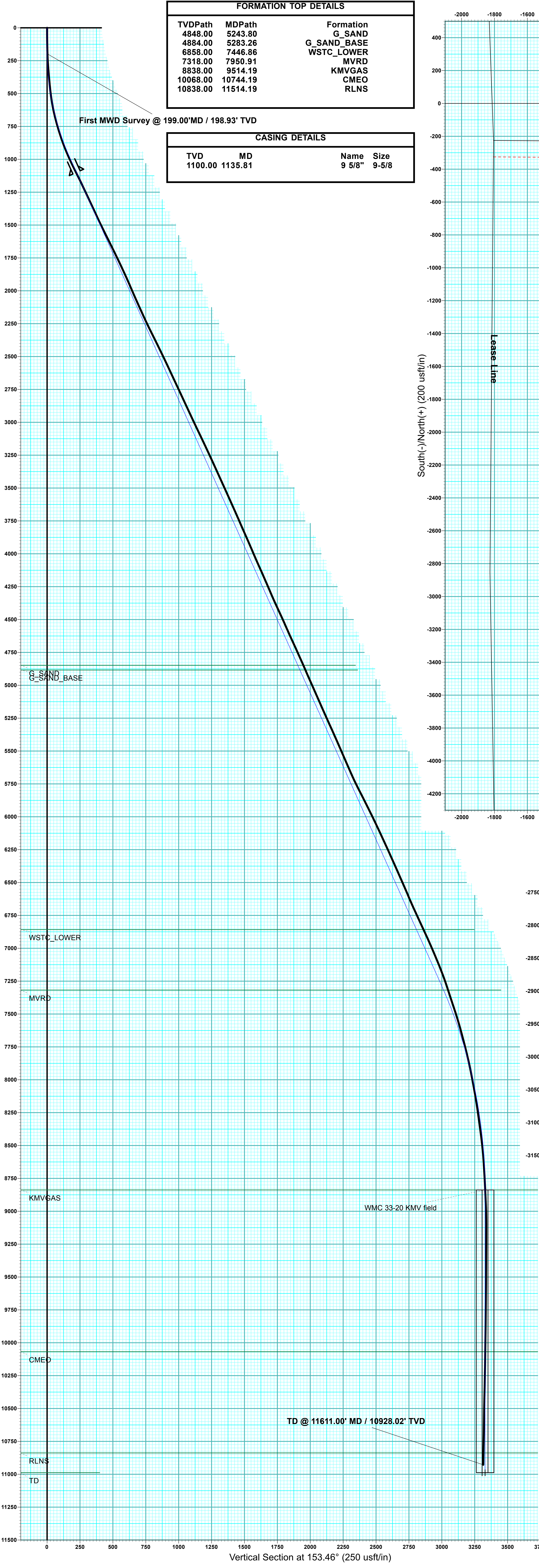
Magnetic Field  
Strength: 51042.6nT  
Dip Angle: 65.38°  
Date: 10/27/2022  
Model: HDGM2022

WELL DETAILS: WMC 33-20						
Ground Elevation:		8868.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	WMC 33-20
0.00	0.00	1593021.40	2350621.00	39.439047	-107.799512	

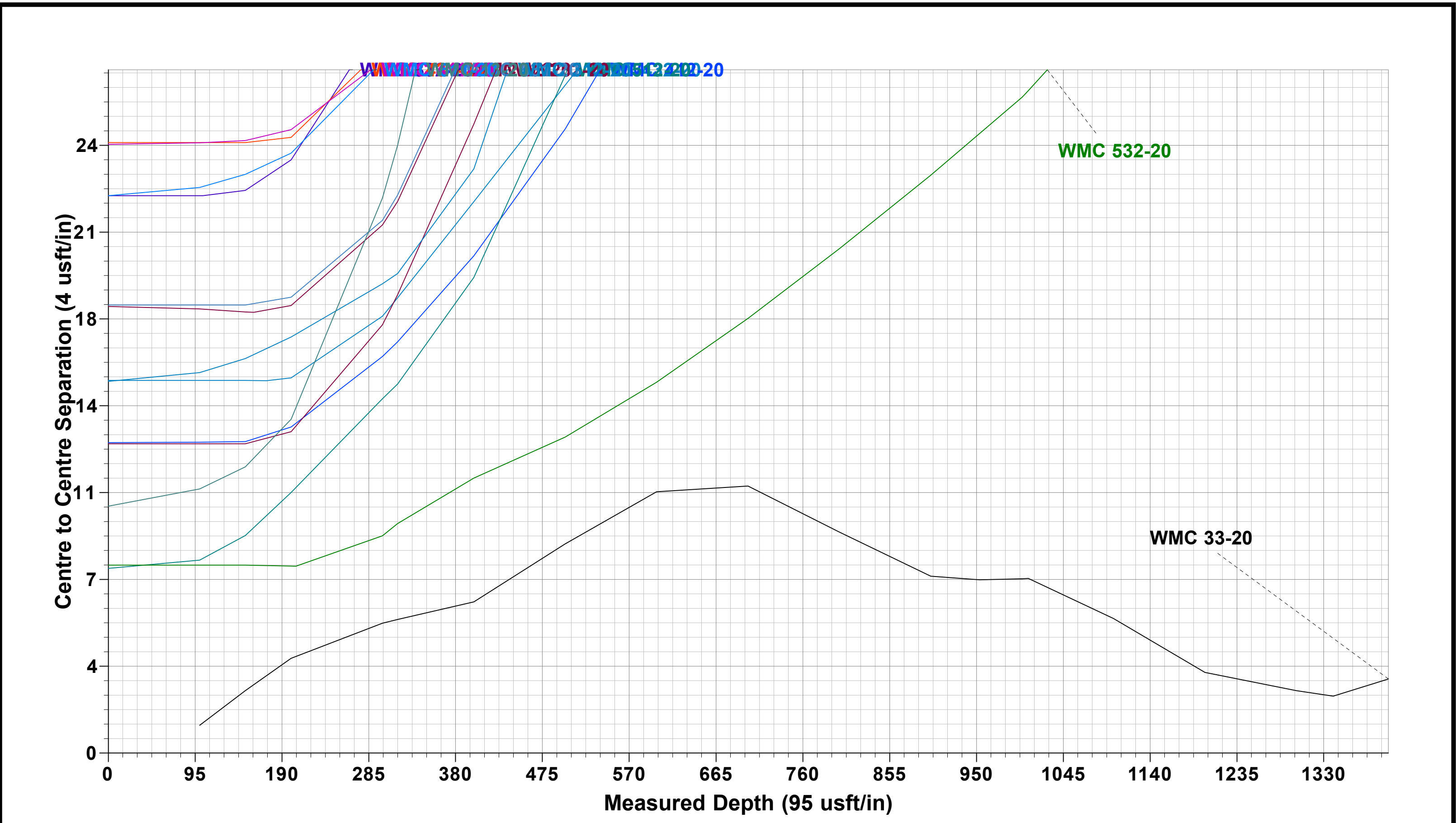
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
WMC 33-20 KMV field	8838.00	-2978.18	1487.14	1590006.53	2352032.29	39.430870	-107.794247
WMC 33-20 PBHL	10988.00	-2978.18	1437.14	1590007.80	2351982.30	39.430870	-107.794424
WMC 33-20 PBHL field	10988.00	-2978.18	1487.14	1590006.53	2352032.29	39.430870	-107.794247

DESIGN ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00
316.67	5.00	195.00	316.46	-7.02	-1.88	5.44	7.27
1006.78	24.17	153.03	982.27	-163.67	55.02	171.01	175.75
7903.16	24.17	153.03	7274.31	-2679.85	1335.34	2994.11	2998.93
8514.19	0.00	0.00	8838.00	-2978.18	1487.14	3328.84	3333.66
11642.75	0.00	0.00	10966.56	-2978.18	1487.14	3328.84	3333.66
							Annotation
							Start Build 3.00
							Start DLS 3.00 TFO -50.75
							Start 6896.39 hold at 1006.78 MD
							Start Drop -1.50
							Start 2128.56 hold at 9514.19 MD
							TD at 11642.75

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
WMC 11-20	19.99	-24.51	1593042.00	2350597.00
WMC 12-20	14.64	-10.47	1593036.30	2350610.80
WMC 13-20	9.29	3.57	1593030.60	2350624.80
WMC 311-20	10.59	-28.08	1593032.70	2350593.20
WMC 312-20	5.25	-14.04	1593027.00	2350607.10
WMC 32-20	6.67	10.53	1593027.80	2350631.70
WMC 331-20	-1.30	31.64	1593019.30	2350652.60
WMC 33-20	0.00	0.00	1593021.40	2350621.00
WMC 332-20	-7.97	21.01	1593012.90	2350641.80
WMC 411-20	17.26	-17.44	1593039.10	2350604.00
WMC 412-20	12.02	-3.51	1593033.50	2350617.80
WMC 431-20	1.32	24.57	1593022.10	2350645.60
WMC 432-20	-5.35	14.04	1593015.70	2350634.90
WMC 511-20	7.97	-21.01	1593029.90	2350600.20
WMC 512-20	2.62	-6.97	1593024.20	2350614.10
WMC 531-20	4.05	17.60	1593025.00	2350638.70
WMC 532-20	-2.72	7.07	1593018.50	2350628.00



ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure
199.00	2.55	201.27	198.93	-4.13	-1.61	2.96	4.43
11611.00	1.32	282.92	10928.02	-2957.57	1497.82	3315.22	3377.64
							Annotation
							First MWD Survey @ 199.00' MD / 198.93' TVD
							TD @ 11611.00' MD / 10928.02' TVD







## **Terra Energy Partners, LLP**

**Garfield County, CO (Nad 83)**

**WMC 24-17 Pad**

**WMC 33-20 - Slot WMC 33-20**

**OH**

**Design: OH**

## **KLX Survey Certification Report**

**04 November, 2022**



**KLX Directional Drilling, Inc.**

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

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**Survey Certification Sheet**

Company	Job Number	Date
TEP Rocky Mountain LLC	RM-220974	11/4/2022

Lease	Well Name	County & State
SESW 17 7S93W 6	Federal #WMC 33-20	Garfield, CO

API No.	Survey Depth Range	Survey Type
05-045-24488	199 feet to 11611 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
<a href="#">Click here to enter text.</a>	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 Energy Services. 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.

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well WMC 33-20 - Slot WMC 33-20
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Site:</b>	WMC 24-17 Pad	<b>MD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Well:</b>	WMC 33-20	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Garfield County, CO (Nad 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 33-20 - Slot WMC 33-20				
Well Position	+N/-S	0.00 usft	Northing:	1,593,021.40 usft	Latitude:	39.439047
	+E/-W	0.00 usft	Easting:	2,350,621.00 usft	Longitude:	-107.799512
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	8,868.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2022	10/27/2022	8.87	65.38	51,042.60000000

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	153.14	

<b>Survey Program</b>	<b>Date</b>	11/4/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
199.00	11,611.00	KLX MWD Surveys (OH)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

<b>Survey</b>								
<b>MD (usft)</b>	<b>Inc (°)</b>	<b>Azi (azimuth) (°)</b>	<b>TVD (usft)</b>	<b>N/S (usft)</b>	<b>E/W (usft)</b>	<b>Closure Distance (usft)</b>	<b>Closure Azimuth (°)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199.00	2.55	201.27	198.93	-4.13	-1.61	4.43	201.27	
<b>First MWD Survey @ 199.00' MD / 198.93' TVD</b>								
295.00	5.05	185.36	294.72	-10.32	-2.78	10.69	195.05	
388.00	6.86	195.91	387.22	-19.74	-4.68	20.29	193.34	
481.00	8.09	191.69	479.42	-31.49	-7.53	32.38	193.45	
574.00	10.11	168.49	571.28	-45.90	-7.23	46.47	188.95	
666.00	13.32	159.17	661.36	-63.73	-1.84	63.76	181.66	
760.00	16.30	151.17	752.24	-85.41	8.37	85.82	174.40	
853.00	18.98	148.10	840.86	-109.69	22.66	112.01	168.33	
946.00	22.06	152.05	927.95	-137.97	38.84	143.33	164.28	
1,040.00	25.05	153.28	1,014.11	-171.34	56.07	180.28	161.88	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well WMC 33-20 - Slot WMC 33-20
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<b>Site:</b>	WMC 24-17 Pad	<b>MD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Well:</b>	WMC 33-20	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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	25.97	153.81	1,042.09	-183.29	62.01	193.50	161.31	
1,153.00	26.54	153.55	1,115.63	-215.81	78.10	229.50	160.11	
1,243.00	25.40	152.05	1,196.54	-250.86	96.10	268.64	159.04	
1,334.00	25.05	149.51	1,278.86	-284.70	115.02	307.06	158.00	
1,424.00	25.36	151.97	1,360.29	-318.14	133.75	345.11	157.20	
1,515.00	24.39	152.93	1,442.85	-352.07	151.46	383.27	156.72	
1,606.00	26.85	153.54	1,524.90	-387.20	169.17	422.55	156.40	
1,696.00	26.10	153.02	1,605.46	-423.04	187.21	462.61	156.13	
1,786.00	26.10	152.05	1,686.28	-458.17	205.47	502.13	155.85	
1,877.00	25.93	149.77	1,768.06	-493.05	224.87	541.90	155.48	
1,968.00	24.61	155.57	1,850.37	-527.50	242.72	580.66	155.29	
2,058.00	24.04	155.66	1,932.38	-561.26	258.03	617.73	155.31	
2,149.00	22.94	153.64	2,015.84	-594.04	273.54	654.00	155.27	
2,239.00	24.79	154.43	2,098.14	-626.78	289.48	690.40	155.21	
2,330.00	23.99	153.81	2,181.02	-660.59	305.88	727.97	155.15	
2,420.00	26.06	151.35	2,262.57	-694.36	323.43	765.99	155.02	
2,511.00	26.54	150.65	2,344.15	-729.62	342.98	806.22	154.82	
2,601.00	26.24	147.84	2,424.77	-763.99	363.43	846.03	154.56	
2,692.00	25.75	151.97	2,506.57	-798.48	383.43	885.76	154.35	
2,782.00	24.92	152.41	2,587.91	-832.54	401.39	924.25	154.26	
2,873.00	25.09	151.61	2,670.38	-866.50	419.45	962.69	154.17	
2,964.00	25.14	149.86	2,752.78	-900.19	438.33	1,001.24	154.04	
3,055.00	24.83	154.69	2,835.27	-934.19	456.20	1,039.63	153.97	
3,145.00	24.96	153.02	2,916.91	-968.19	472.90	1,077.51	153.97	
3,236.00	25.27	151.61	2,999.31	-1,002.39	490.84	1,116.11	153.91	
3,326.00	25.58	154.69	3,080.60	-1,036.86	508.28	1,154.74	153.89	
3,417.00	25.53	153.90	3,162.69	-1,072.23	525.31	1,193.99	153.90	
3,507.00	24.65	154.51	3,244.20	-1,106.58	541.92	1,232.16	153.91	
3,597.00	24.57	153.99	3,326.03	-1,140.34	558.20	1,269.63	153.92	
3,688.00	24.70	152.41	3,408.74	-1,174.20	575.30	1,307.56	153.90	
3,778.00	24.21	151.97	3,490.67	-1,207.15	592.69	1,344.80	153.85	
3,869.00	24.08	152.14	3,573.71	-1,240.03	610.13	1,382.01	153.80	
3,959.00	24.17	151.35	3,655.85	-1,272.44	627.54	1,418.77	153.75	
4,049.00	23.69	155.92	3,738.12	-1,305.11	643.76	1,455.25	153.74	
4,140.00	23.69	156.62	3,821.45	-1,338.59	658.47	1,491.78	153.81	
4,230.00	23.77	155.75	3,903.84	-1,371.72	673.09	1,527.96	153.86	
4,321.00	22.90	155.75	3,987.40	-1,404.58	687.90	1,563.99	153.91	
4,411.00	24.13	156.54	4,069.92	-1,437.43	702.42	1,599.87	153.96	
4,502.00	23.95	155.83	4,153.03	-1,471.34	717.38	1,636.91	154.01	
4,593.00	23.16	154.87	4,236.45	-1,504.39	732.55	1,673.27	154.04	
4,683.00	23.42	155.13	4,319.11	-1,536.64	747.58	1,708.85	154.06	
4,773.00	25.09	154.51	4,401.17	-1,570.10	763.32	1,745.81	154.07	
4,864.00	24.52	153.99	4,483.77	-1,604.49	779.90	1,783.99	154.08	
4,955.00	23.55	154.34	4,566.88	-1,637.84	796.06	1,821.05	154.08	

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<b>Site:</b>	WMC 24-17 Pad	<b>KD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Well:</b>	WMC 33-20	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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 (°)	
5,045.00	24.79	153.99	4,648.99	-1,671.01	812.12	1,857.90	154.08	
5,135.00	24.35	152.05	4,730.84	-1,704.36	829.09	1,895.31	154.06	
5,226.00	24.13	151.88	4,813.82	-1,737.33	846.65	1,932.65	154.02	
5,316.00	23.16	151.35	4,896.26	-1,769.09	863.80	1,968.72	153.97	
5,407.00	24.08	154.08	4,979.64	-1,801.49	880.50	2,005.16	153.95	
5,498.00	23.99	152.49	5,062.75	-1,834.60	897.16	2,042.22	153.94	
5,588.00	23.42	153.72	5,145.15	-1,866.86	913.53	2,078.39	153.93	
5,678.00	24.43	155.75	5,227.42	-1,899.87	929.09	2,114.88	153.94	
5,769.00	24.39	153.11	5,310.29	-1,933.79	945.32	2,152.48	153.95	
5,859.00	23.42	153.81	5,392.57	-1,966.41	961.62	2,188.95	153.94	
5,950.00	24.13	152.93	5,475.85	-1,999.20	978.07	2,225.63	153.93	
6,041.00	23.38	153.28	5,559.14	-2,031.89	994.65	2,262.28	153.92	
6,131.00	23.33	153.64	5,641.76	-2,063.81	1,010.59	2,297.96	153.91	
6,221.00	25.31	153.81	5,723.77	-2,097.05	1,027.00	2,335.02	153.91	
6,312.00	27.33	155.04	5,805.33	-2,133.44	1,044.40	2,375.36	153.92	
6,403.00	26.63	154.43	5,886.43	-2,170.78	1,062.02	2,416.64	153.93	
6,493.00	26.15	154.16	5,967.05	-2,206.83	1,079.37	2,456.65	153.94	
6,584.00	25.71	153.81	6,048.89	-2,242.59	1,096.82	2,496.44	153.94	
6,675.00	24.87	154.34	6,131.17	-2,277.55	1,113.82	2,535.31	153.94	
6,765.00	24.52	154.08	6,212.94	-2,311.40	1,130.18	2,572.91	153.94	
6,855.00	24.04	153.46	6,294.97	-2,344.60	1,146.53	2,609.92	153.94	
6,946.00	23.99	154.43	6,378.10	-2,377.87	1,162.80	2,646.95	153.94	
7,036.00	24.17	152.84	6,460.27	-2,410.77	1,179.11	2,683.67	153.94	
7,127.00	23.38	152.67	6,543.54	-2,443.38	1,195.90	2,720.35	153.92	
7,217.00	22.81	151.26	6,626.33	-2,474.54	1,212.49	2,755.63	153.90	
7,307.00	24.92	152.49	6,708.63	-2,506.66	1,229.64	2,792.02	153.87	
7,398.00	24.48	152.49	6,791.31	-2,540.39	1,247.20	2,830.03	153.85	
7,489.00	25.14	150.82	6,873.91	-2,573.99	1,265.33	2,868.18	153.82	
7,579.00	23.99	149.59	6,955.76	-2,606.46	1,283.92	2,905.52	153.78	
7,670.00	22.85	151.35	7,039.26	-2,637.92	1,301.75	2,941.63	153.73	
7,760.00	22.28	150.21	7,122.37	-2,668.06	1,318.61	2,976.12	153.70	
7,851.00	20.48	152.05	7,207.11	-2,697.10	1,334.64	3,009.25	153.67	
7,941.00	18.15	149.68	7,292.04	-2,723.11	1,349.10	3,038.98	153.65	
8,031.00	18.19	148.10	7,377.55	-2,747.14	1,363.60	3,066.95	153.60	
8,122.00	18.54	146.69	7,463.92	-2,771.29	1,379.05	3,095.45	153.54	
8,213.00	16.74	148.89	7,550.64	-2,794.60	1,393.77	3,122.88	153.49	
8,303.00	15.42	144.58	7,637.12	-2,815.45	1,407.40	3,147.62	153.44	
8,394.00	14.46	143.00	7,725.04	-2,834.38	1,421.25	3,170.75	153.37	
8,484.00	13.89	143.18	7,812.30	-2,852.01	1,434.49	3,192.44	153.30	
8,575.00	12.00	143.26	7,900.98	-2,868.33	1,446.69	3,212.51	153.24	
8,665.00	10.85	144.41	7,989.20	-2,882.72	1,457.22	3,230.10	153.18	
8,756.00	10.68	143.79	8,078.59	-2,896.49	1,467.18	3,246.88	153.14	
8,846.00	8.92	147.31	8,167.28	-2,909.09	1,475.88	3,262.06	153.10	
8,937.00	8.00	153.11	8,257.29	-2,920.67	1,482.55	3,275.41	153.09	
9,028.00	7.51	154.08	8,347.46	-2,931.67	1,488.02	3,287.69	153.09	

<b>Company:</b>	Terra Energy Partners, LLP	<b>Local Co-ordinate Reference:</b>	Well WMC 33-20 - Slot WMC 33-20
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>TVD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Site:</b>	WMC 24-17 Pad	<b>MD Reference:</b>	KB=30' @ 8898.00usft (H&P #329)
<b>Well:</b>	WMC 33-20	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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 (°)	
9,118.00	7.60	155.83	8,436.68	-2,942.39	1,493.03	3,299.51	153.10	
9,209.00	5.67	151.26	8,527.06	-2,951.82	1,497.65	3,310.02	153.10	
9,299.00	3.91	154.25	8,616.74	-2,958.49	1,501.12	3,317.53	153.10	
9,389.00	3.21	151.97	8,706.57	-2,963.47	1,503.64	3,323.12	153.10	
9,480.00	2.81	158.29	8,797.45	-2,967.79	1,505.66	3,327.89	153.10	
9,570.00	2.68	147.48	8,887.34	-2,971.62	1,507.61	3,332.18	153.10	
9,661.00	2.24	127.71	8,978.26	-2,974.50	1,510.16	3,335.90	153.08	
9,751.00	0.44	108.11	9,068.23	-2,975.68	1,511.88	3,337.74	153.07	
9,842.00	0.18	232.56	9,159.23	-2,975.88	1,512.10	3,338.01	153.06	
9,932.00	0.35	348.40	9,249.23	-2,975.70	1,511.93	3,337.77	153.07	
10,023.00	0.40	6.77	9,340.23	-2,975.11	1,511.91	3,337.24	153.06	
10,114.00	0.40	287.49	9,431.23	-2,974.70	1,511.65	3,336.75	153.06	
10,204.00	0.44	353.06	9,521.23	-2,974.26	1,511.31	3,336.21	153.06	
10,295.00	0.53	310.87	9,612.22	-2,973.64	1,510.95	3,335.49	153.06	
10,385.00	0.57	336.18	9,702.22	-2,972.96	1,510.45	3,334.66	153.07	
10,476.00	0.70	354.91	9,793.21	-2,971.99	1,510.22	3,333.69	153.06	
10,566.00	0.53	323.09	9,883.21	-2,971.11	1,509.92	3,332.77	153.06	
10,657.00	0.92	340.14	9,974.20	-2,970.08	1,509.42	3,331.63	153.06	
10,747.00	0.83	353.32	10,064.19	-2,968.76	1,509.10	3,330.30	153.05	
10,838.00	0.70	331.35	10,155.18	-2,967.61	1,508.75	3,329.13	153.05	
10,929.00	1.05	323.97	10,246.17	-2,966.45	1,508.00	3,327.75	153.05	
11,019.00	1.45	335.22	10,336.15	-2,964.75	1,507.03	3,325.79	153.05	
11,110.00	1.32	337.15	10,427.12	-2,962.74	1,506.15	3,323.60	153.05	
11,200.00	1.19	297.25	10,517.10	-2,961.36	1,504.91	3,321.81	153.06	
11,291.00	0.88	307.01	10,608.09	-2,960.50	1,503.51	3,320.41	153.08	
11,381.00	1.05	301.82	10,698.08	-2,959.65	1,502.26	3,319.09	153.09	
11,472.00	1.27	307.71	10,789.06	-2,958.60	1,500.75	3,317.46	153.10	
11,547.00	1.32	282.92	10,864.04	-2,957.89	1,499.26	3,316.16	153.12	
11,611.00	1.32	282.92	10,928.02	-2,957.57	1,497.82	3,315.22	153.14	
TD @ 11611.00' MD / 10928.02' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
199.00	198.93	-4.13	-1.61	First MWD Survey @ 199.00' MD / 198.93' TVD	
11,611.00	10,928.02	-2,957.57	1,497.82	TD @ 11611.00' MD / 10928.02' TVD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_