

Sec 3, T6S, R94W
NR 344-36
Q220704 & RM-220644
Plan 3

Company Name: Terra Energy Partners, LLP
NR 344-36
Garfield County, CO (Nad 83)
Rig: KB=30' @ 6760.00usft (H&P #329)
Created by: Chase Chambers
Date: 12:16, July 28 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: 9.10'

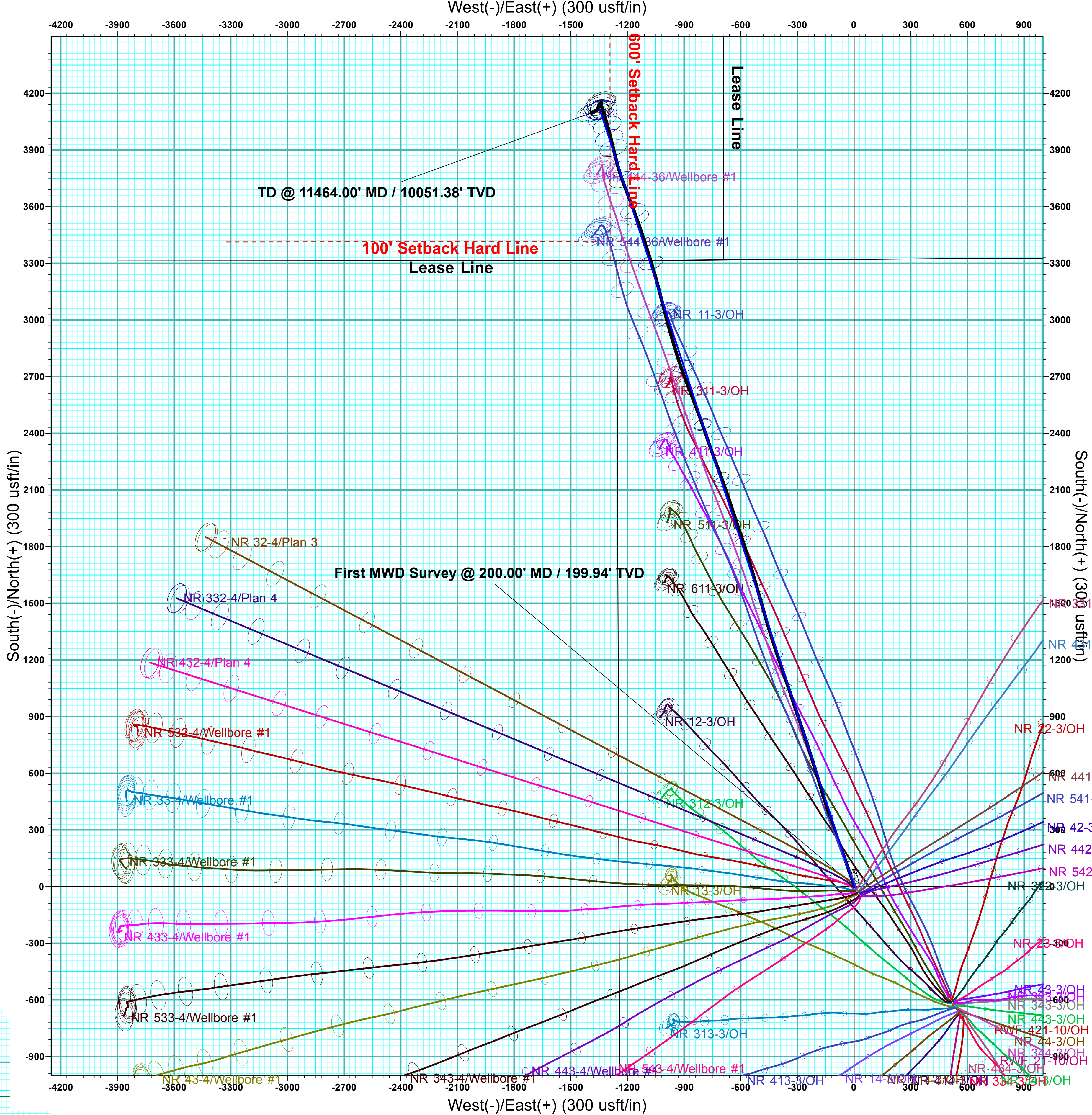
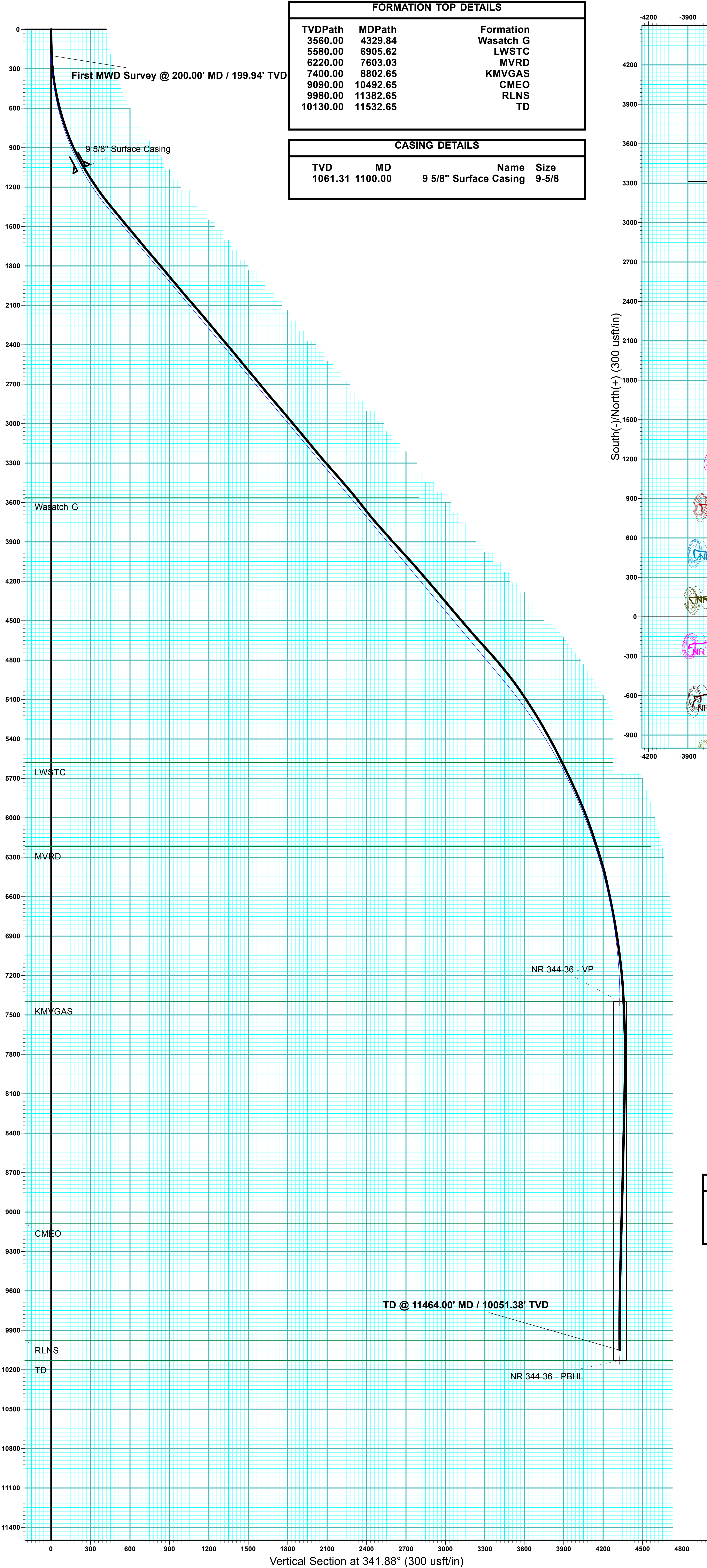
Magnetic Field
Strength: 51134.6nT
Dip Angle: 65.57'
Date: 7/20/2022
Model: HDGM2022

WELL DETAILS: NR 344-36							
Ground Elevation:		6730.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	NR 344-36	
0.00	0.00	1635554.00	2329241.70	39.554268	-107.879127		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
NR 344-36 - VP	7400.00	4112.97	-1345.96	1639700.80	2328003.90	39.565559	-107.883901
NR 344-36 - PBHL	10130.00	4112.97	-1345.96	1639700.80	2328003.90	39.565559	-107.883901

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	Start Build 3.00	
1481.44	39.94	341.88	1376.18	423.51	-138.59	445.61	445.61	Start 4658.32 hold at 1481.44 MD	
6139.77	39.94	341.88	4947.63	3265.95	-1068.78	3436.38	3436.38	Start Drop -1.50	
8802.65	0.00	0.00	7400.00	4112.97	-1345.96	4327.60	4327.60	Start 2730.00 hold at 8802.65 MD	
11532.65	0.00	0.00	10130.00	4112.97	-1345.96	4327.60	4327.60	TD at 11532.65	

SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	5.78	-4.75	1635559.90	2329237.10
NR 331-3	-17.43	14.26	1635556.20	2329255.50
NR 332-4	-0.63	-12.49	1635553.70	2329228.20
NR 333-4	-23.73	6.62	1635530.10	2329247.70
NR 33-4	-17.96	1.87	1635536.00	2329243.10
NR 343-4	-46.94	25.64	1635506.40	2329266.10
NR 344-36	0.00	0.00	1635554.00	2329241.70
NR 42-3	-40.54	33.37	1635512.60	2329274.00
NR 431-3	-23.21	19.11	1635530.30	2329260.20
NR 432-4	-6.40	-7.73	1635547.80	2329233.80
NR 433-4	-29.51	11.38	1635524.20	2329252.30
NR 43-4	-41.07	20.88	1635512.40	2329261.50
NR 441-3	-28.98	23.87	1635524.40	2329264.80
NR 442-3	-46.32	38.13	1635506.70	2329278.60
NR 443-4	-52.72	30.39	1635500.50	2329270.70
NR 444-36	-5.78	4.75	1635548.10	2329246.30
NR 532-4	-12.18	-2.98	1635541.90	2329238.40
NR 533-4	-35.29	16.13	1635518.30	2329256.90
NR 541-3	-34.76	28.62	1635518.50	2329269.40
NR 542-3	-52.10	42.88	1635500.80	2329283.20
NR 543-4	-58.50	35.24	1635494.60	2329275.40
NR 544-36	-11.56	9.51	1635542.20	2329250.90





Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Sec 3, T6S, R94W

NR 344-36 - Slot NR 344-36

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

28 July, 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-220644	07/28/2022

Lease	Well Name	County & State
NWSW 3 6S94W 6	Federal #NR 344-36	Garfield County, CO

API No.	Survey Depth Range	Survey Type
05-045-24482	200 feet to 11464 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Richie Moulton

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 344-36 - Slot NR 344-36
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 344-36	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 344-36 - Slot NR 344-36				
Well Position	+N/-S	0.00 usft	Northing:	1,635,554.00 usft	Latitude:	39.554268
	+E/-W	0.00 usft	Easting:	2,329,241.70 usft	Longitude:	-107.879127
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	7/20/2022	9.10	65.57	51,134.60000000

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	341.23	

Survey Program	Date	7/28/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	11,464.00	KLX MWD Surveys (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
200.00	2.37	359.43	199.94	4.14	-0.04	4.14	359.43	
First MWD Survey @ 200.00' MD / 199.94' TVD								
296.00	5.36	348.89	295.71	10.52	-0.93	10.56	354.98	
390.00	8.13	339.83	389.06	21.07	-4.06	21.46	349.08	
483.00	11.60	338.95	480.67	35.97	-9.69	37.26	344.92	
576.00	13.71	339.57	571.40	55.03	-16.90	57.57	342.93	
669.00	16.35	340.80	661.22	77.72	-25.05	81.66	342.14	
764.00	19.20	341.33	751.67	105.16	-34.45	110.66	341.86	
858.00	22.15	341.06	839.61	136.57	-45.15	143.84	341.70	
952.00	25.58	340.18	925.56	172.43	-57.79	181.86	341.47	
1,046.00	29.09	339.74	1,009.05	212.97	-72.59	225.00	341.18	

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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 (°)	
1,169.00	32.17	339.31	1,114.87	271.67	-94.52	287.64	340.82	
1,263.00	34.19	341.06	1,193.55	320.07	-111.93	339.07	340.72	
1,357.00	36.61	341.59	1,270.16	371.65	-129.36	393.52	340.81	
1,451.00	39.77	343.17	1,344.04	427.04	-146.92	451.61	341.01	
1,545.00	38.94	343.00	1,416.72	484.07	-164.26	511.18	341.26	
1,639.00	40.12	343.17	1,489.22	541.31	-181.67	570.98	341.45	
1,733.00	39.77	342.82	1,561.29	599.02	-199.32	631.31	341.60	
1,827.00	39.38	342.47	1,633.74	656.18	-217.18	691.19	341.69	
1,921.00	40.83	342.47	1,705.63	713.92	-235.42	751.74	341.75	
2,015.00	40.34	342.03	1,777.02	772.16	-254.06	812.89	341.79	
2,109.00	39.38	341.50	1,849.18	829.39	-272.91	873.13	341.79	
2,203.00	40.47	341.50	1,921.26	886.59	-292.05	933.46	341.77	
2,293.00	39.33	340.89	1,990.31	941.24	-310.66	991.18	341.73	
2,384.00	41.53	342.29	2,059.57	997.24	-329.28	1,050.19	341.73	
2,474.00	40.30	341.41	2,127.58	1,053.25	-347.63	1,109.13	341.73	
2,564.00	39.99	340.62	2,196.38	1,108.12	-366.51	1,167.15	341.70	
2,654.00	40.21	342.12	2,265.23	1,163.05	-385.03	1,225.12	341.68	
2,744.00	39.77	340.54	2,334.18	1,217.84	-403.54	1,282.96	341.67	
2,835.00	40.56	342.29	2,403.73	1,273.47	-422.23	1,341.64	341.66	
2,926.00	39.64	342.73	2,473.33	1,329.37	-439.85	1,400.25	341.69	
3,016.00	38.80	342.73	2,543.06	1,383.71	-456.75	1,457.15	341.73	
3,107.00	40.39	344.75	2,613.18	1,439.39	-472.97	1,515.11	341.81	
3,198.00	39.77	343.70	2,682.81	1,495.77	-488.89	1,573.64	341.90	
3,288.00	38.80	343.70	2,752.47	1,550.47	-504.89	1,630.60	341.96	
3,379.00	41.22	344.31	2,822.16	1,606.71	-521.00	1,689.07	342.03	
3,471.00	40.30	343.52	2,891.85	1,664.42	-537.64	1,749.10	342.10	
3,563.00	39.77	342.73	2,962.29	1,721.05	-554.81	1,808.27	342.13	
3,653.00	40.30	342.64	3,031.20	1,776.32	-572.04	1,866.16	342.15	
3,744.00	39.16	342.03	3,101.18	1,831.74	-589.69	1,924.32	342.16	
3,834.00	40.08	341.41	3,170.51	1,886.24	-607.69	1,981.71	342.14	
3,925.00	39.33	341.33	3,240.52	1,941.32	-626.26	2,039.84	342.12	
4,015.00	41.88	341.94	3,308.84	1,996.91	-644.71	2,098.41	342.11	
4,107.00	41.22	341.59	3,377.69	2,054.87	-663.80	2,159.43	342.10	
4,198.00	40.65	340.27	3,446.44	2,111.22	-683.28	2,219.04	342.07	
4,290.00	40.17	340.18	3,516.49	2,167.34	-703.46	2,278.64	342.02	
4,382.00	38.72	339.66	3,587.53	2,222.24	-723.52	2,337.06	341.97	
4,474.00	37.62	339.74	3,659.86	2,275.56	-743.25	2,393.87	341.91	
4,565.00	40.56	340.54	3,730.48	2,329.53	-762.72	2,451.21	341.87	
4,657.00	41.97	341.33	3,799.64	2,386.88	-782.54	2,511.88	341.85	
4,749.00	40.96	340.62	3,868.58	2,444.47	-802.39	2,572.79	341.83	
4,840.00	42.93	339.74	3,936.26	2,501.68	-823.02	2,633.59	341.79	
4,932.00	42.28	339.31	4,003.97	2,560.03	-844.81	2,695.82	341.74	
5,023.00	41.48	339.31	4,071.73	2,616.86	-866.27	2,756.51	341.68	
5,115.00	40.56	338.43	4,141.14	2,673.18	-888.03	2,816.82	341.62	

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Site:	Sec 3, T6S, R94W	MD Reference:	KB=30' @ 6760.00usft (H&P #329)
Well:	NR 344-36	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 (°)	
5,207.00	41.22	340.98	4,210.69	2,729.66	-908.91	2,877.00	341.58	
5,299.00	39.81	341.15	4,280.63	2,786.19	-928.30	2,936.77	341.57	
5,390.00	40.61	343.52	4,350.13	2,842.16	-946.12	2,995.50	341.59	
5,481.00	39.81	342.91	4,419.63	2,898.41	-963.08	3,054.22	341.62	
5,573.00	41.13	345.11	4,489.62	2,955.80	-979.51	3,113.88	341.67	
5,665.00	40.03	344.75	4,559.49	3,013.59	-995.07	3,173.63	341.73	
5,755.00	42.10	346.16	4,627.34	3,070.82	-1,009.90	3,232.62	341.80	
5,846.00	42.14	345.11	4,694.84	3,129.94	-1,025.04	3,293.51	341.87	
5,938.00	41.75	345.02	4,763.27	3,189.36	-1,040.89	3,354.91	341.93	
6,029.00	39.73	344.05	4,832.22	3,246.59	-1,056.72	3,414.24	341.97	
6,120.00	38.72	342.38	4,902.71	3,301.69	-1,073.32	3,471.77	341.99	
6,212.00	36.21	342.73	4,975.73	3,355.07	-1,090.10	3,527.72	342.00	
6,303.00	34.15	341.85	5,050.10	3,405.01	-1,106.04	3,580.14	342.00	
6,395.00	33.44	341.77	5,126.56	3,453.63	-1,122.02	3,631.32	342.00	
6,485.00	31.82	340.62	5,202.35	3,499.56	-1,137.65	3,679.84	341.99	
6,575.00	30.63	340.36	5,279.31	3,543.54	-1,153.23	3,726.48	341.97	
6,667.00	28.52	339.57	5,359.32	3,586.20	-1,168.77	3,771.85	341.95	
6,758.00	28.56	339.22	5,439.27	3,626.90	-1,184.07	3,815.29	341.92	
6,849.00	27.51	339.31	5,519.59	3,666.90	-1,199.22	3,858.01	341.89	
6,940.00	26.15	338.43	5,600.79	3,705.21	-1,214.02	3,899.03	341.86	
7,031.00	25.22	341.33	5,682.80	3,742.23	-1,227.60	3,938.43	341.84	
7,123.00	24.83	341.77	5,766.16	3,779.14	-1,239.91	3,977.35	341.84	
7,213.00	23.16	344.23	5,848.38	3,814.13	-1,250.64	4,013.93	341.85	
7,304.00	22.72	345.28	5,932.19	3,848.35	-1,259.96	4,049.35	341.87	
7,394.00	20.13	346.69	6,015.96	3,880.23	-1,267.95	4,082.14	341.90	
7,485.00	18.94	346.07	6,101.72	3,909.81	-1,275.11	4,112.48	341.94	
7,577.00	18.28	345.72	6,188.91	3,938.28	-1,282.26	4,141.77	341.97	
7,668.00	17.27	346.51	6,275.57	3,965.25	-1,288.93	4,169.48	341.99	
7,758.00	16.52	344.40	6,361.68	3,990.56	-1,295.49	4,195.58	342.01	
7,849.00	12.79	345.37	6,449.71	4,012.78	-1,301.52	4,218.57	342.03	
7,940.00	11.87	344.49	6,538.61	4,031.54	-1,306.56	4,237.98	342.04	
8,032.00	11.51	344.40	6,628.70	4,049.50	-1,311.56	4,256.60	342.05	
8,122.00	10.77	343.35	6,717.00	4,066.21	-1,316.39	4,273.98	342.06	
8,214.00	9.80	343.00	6,807.52	4,081.93	-1,321.14	4,290.40	342.07	
8,304.00	8.57	339.31	6,896.37	4,095.53	-1,325.75	4,304.76	342.06	
8,396.00	7.82	340.10	6,987.43	4,107.83	-1,330.30	4,317.86	342.06	
8,488.00	6.90	348.89	7,078.67	4,119.13	-1,333.49	4,329.60	342.06	
8,579.00	6.02	344.49	7,169.09	4,129.10	-1,335.82	4,339.80	342.07	
8,670.00	4.22	358.82	7,259.73	4,137.04	-1,337.17	4,347.77	342.09	
8,762.00	3.30	3.21	7,351.53	4,143.07	-1,337.09	4,353.49	342.11	
8,853.00	2.55	5.41	7,442.41	4,147.70	-1,336.75	4,357.79	342.14	
8,944.00	2.07	2.95	7,533.34	4,151.36	-1,336.48	4,361.19	342.15	
9,036.00	1.58	351.61	7,625.29	4,154.27	-1,336.58	4,363.99	342.17	
9,127.00	1.36	345.02	7,716.26	4,156.56	-1,337.04	4,366.31	342.17	
9,219.00	0.22	191.21	7,808.25	4,157.44	-1,337.36	4,367.24	342.17	

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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 (°)	
9,309.00	1.01	208.44	7,898.25	4,156.57	-1,337.77	4,366.54	342.16	
9,401.00	1.27	211.07	7,990.23	4,154.98	-1,338.68	4,365.31	342.14	
9,493.00	1.76	210.02	8,082.20	4,152.89	-1,339.91	4,363.70	342.12	
9,584.00	1.76	208.79	8,173.15	4,150.45	-1,341.28	4,361.80	342.09	
9,675.00	1.80	205.71	8,264.11	4,147.94	-1,342.58	4,359.81	342.06	
9,766.00	2.02	215.73	8,355.06	4,145.35	-1,344.13	4,357.82	342.03	
9,858.00	2.07	209.84	8,447.00	4,142.59	-1,345.91	4,355.75	342.00	
9,948.00	2.68	218.54	8,536.92	4,139.54	-1,348.03	4,353.50	341.96	
10,040.00	2.15	219.77	8,628.84	4,136.53	-1,350.47	4,351.40	341.92	
10,131.00	1.71	200.61	8,719.79	4,133.95	-1,352.04	4,349.43	341.89	
10,221.00	1.67	201.40	8,809.75	4,131.47	-1,352.99	4,347.37	341.87	
10,313.00	1.85	198.06	8,901.71	4,128.81	-1,353.94	4,345.14	341.84	
10,405.00	2.50	198.24	8,993.64	4,125.49	-1,355.03	4,342.32	341.82	
10,496.00	1.32	195.96	9,084.59	4,122.60	-1,355.94	4,339.86	341.79	
10,586.00	1.63	202.46	9,174.56	4,120.42	-1,356.71	4,338.03	341.78	
10,676.00	2.07	206.24	9,264.51	4,117.78	-1,357.92	4,335.90	341.75	
10,769.00	2.24	207.56	9,357.45	4,114.66	-1,359.51	4,333.44	341.72	
10,861.00	3.12	221.53	9,449.35	4,111.19	-1,362.00	4,330.93	341.67	
10,953.00	3.52	232.78	9,541.19	4,107.61	-1,365.91	4,328.76	341.61	
11,045.00	3.16	238.14	9,633.04	4,104.56	-1,370.31	4,327.26	341.54	
11,135.00	3.30	241.57	9,722.89	4,102.02	-1,374.69	4,326.24	341.47	
11,225.00	3.30	249.66	9,812.74	4,099.89	-1,379.40	4,325.71	341.40	
11,316.00	3.51	251.41	9,903.58	4,098.09	-1,384.50	4,325.64	341.33	
11,362.00	2.86	253.26	9,949.51	4,097.31	-1,386.93	4,325.68	341.30	
11,464.00	2.86	253.26	10,051.38	4,095.84	-1,391.80	4,325.86	341.23	
TD @ 11464.00' MD / 10051.38' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
200.00	199.94	4.14	-0.04	First MWD Survey @ 200.00' MD / 199.94' TVD	
11,464.00	10,051.38	4,095.84	-1,391.80	TD @ 11464.00' MD / 10051.38' TVD	

Checked By: _____ Approved By: _____ Date: _____