

Sec 3, T6S, R94W
NR 42-3
Q220340 & RM-220318
Plan 4

Company Name: Terra Energy Partners, LLP
NR 42-3
Garfield County, CO (Nad 83)
Rig: KB=30' @ 6760.00usft (H&P #329)
Created by: Chase Chambers
Date: 5:01, April 22 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: NR 42-3

Ground Elevation: 6730.00

+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1635512.60 2329274.00 39.554156 -107.879009 NR 42-3

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
NR 42-3 - VP	7490.00	1396.69	3319.27	1636821.90	2332628.70	39.557990	-107.867236
NR 42-3 - PBHL	10070.00	1396.69	3319.27	1636821.90	2332628.70	39.557990	-107.867236

DESIGN ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
170.00	0.00	0.00	170.00	0.00	0.00	0.00	0.00	Start Build 3.00
1253.88	32.52	67.18	1196.63	116.12	275.96	299.40	299.40	Start 5028.37 hold at 1253.88 MD
6282.26	32.52	67.18	5436.74	1164.45	2767.35	3002.36	3002.36	Start Drop -1.50
8450.02	0.00	0.00	7490.00	1396.69	3319.27	3601.15	3601.15	Start 2580.00 hold at 8450.02 MD
11030.02	0.00	0.00	10070.00	1396.69	3319.27	3601.15	3601.15	TD at 11030.02

SLOTS

Slot Name	+N/-S	+E/-W	Northing	Easting
NR 32-4	46.32	-38.13	1635559.90	2329237.10
NR 331-3	23.11	-19.11	1635556.20	2329255.20
NR 332-4	39.91	-45.86	1635553.70	2329229.20
NR 333-4	16.81	-26.75	1635530.10	2329247.70
NR 33-4	22.58	-31.50	1635536.00	2329243.10
NR 343-4	-6.40	-7.73	1635506.40	2329266.10
NR 344-36	40.54	-33.37	1635554.00	2329241.70
NR 42-3	0.00	0.00	1635512.60	2329274.00
NR 431-3	17.33	-14.26	1635530.30	2329260.20
NR 432-4	34.14	-41.11	1635547.80	2329233.80
NR 433-4	11.03	-22.00	1635524.20	2329252.30
NR 43-4	-0.53	-12.49	1635512.40	2329261.50
NR 441-3	11.56	-9.51	1635524.40	2329264.80
NR 442-3	-5.78	4.75	1635506.70	2329278.60
NR 443-4	-12.18	-2.98	1635500.50	2329270.70
NR 444-36	34.76	-28.62	1635548.10	2329246.30
NR 532-4	28.36	-36.35	1635541.90	2329238.40
NR 533-4	5.25	-17.24	1635518.30	2329256.90
NR 541-3	5.78	-4.75	1635518.50	2329269.40
NR 542-3	-11.56	9.51	1635500.80	2329283.20
NR 543-4	-17.96	1.87	1635494.60	2329275.40
NR 544-36	28.98	-23.87	1635542.20	2329250.90

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3560.00	4056.62	Wasatch G
5520.00	6380.21	LWSTC
6160.00	7091.57	MVRD
7490.00	8450.02	KMVGAS
9040.00	10000.02	CMEO
9920.00	10880.02	RLNS
10070.00	11030.02	TD

CASING DETAILS

TVD	MD	Name	Size
1063.68	1100.00	9 5/8" Surface Casing	9-5/8



Terra Energy Partners, LLP

Garfield County, CO (Nad 83)

Sec 3, T6S, R94W

NR 42-3 - Slot NR 42-3

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

22 April, 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-220318	4/22/2022

Lease	Well Name	County & State
NWSW 3 6S94W 6	Federal #NR 42-3	Garfield, CO

API No.	Survey Depth Range	Survey Type
05-045-24477	201 feet to 10990 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 42-3 - Slot NR 42-3
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 42-3	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 42-3 - Slot NR 42-3				
Well Position	+N/-S	0.00 usft	Northing:	1,635,512.60 usft	Latitude:	39.554156
	+E/-W	0.00 usft	Easting:	2,329,274.00 usft	Longitude:	-107.879009
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	4/14/2022	9.12	65.57	51,160.50000000

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	67.17	

Survey Program	Date	4/22/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
201.00	10,990.00	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
201.00	0.40	2.09	201.00	0.70	0.03	0.70	2.09	
First MWD Survey @ 201.00' MD / 201.00' TVD								
298.00	3.03	48.67	297.95	2.73	1.96	3.37	35.69	
392.00	6.46	66.34	391.62	6.50	8.67	10.84	53.17	
485.00	10.33	71.70	483.60	11.22	21.39	24.15	62.33	
579.00	13.84	68.36	575.51	18.01	39.85	43.73	65.68	
672.00	17.14	68.80	665.12	27.07	62.97	68.54	66.74	
766.00	19.73	67.48	754.29	38.16	90.54	98.26	67.15	
860.00	22.50	67.13	841.97	51.23	121.78	132.12	67.18	
955.00	24.79	66.69	928.99	66.18	156.82	170.21	67.12	
1,049.00	27.20	68.45	1,013.47	81.87	194.91	211.41	67.22	

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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 (°)	
1,173.00	27.55	68.53	1,123.58	102.77	247.96	268.41	67.49	
1,268.00	30.50	66.86	1,206.65	120.29	290.58	314.49	67.51	
1,362.00	32.96	70.03	1,286.60	138.40	336.56	363.91	67.65	
1,456.00	32.52	69.41	1,365.66	156.02	384.24	414.71	67.90	
1,550.00	34.45	70.47	1,444.06	173.80	432.96	466.54	68.13	
1,643.00	34.10	72.40	1,520.91	190.48	482.60	518.83	68.46	
1,738.00	33.84	73.19	1,599.70	206.18	533.31	571.77	68.86	
1,831.00	34.06	70.56	1,676.85	222.34	582.66	623.64	69.11	
1,926.00	33.44	71.35	1,755.84	239.56	632.54	676.39	69.26	
2,017.00	33.71	68.53	1,831.66	256.82	679.80	726.70	69.30	
2,109.00	33.93	66.42	1,908.09	276.44	727.10	777.87	69.18	
2,200.00	33.22	66.25	1,983.91	296.64	773.19	828.14	69.01	
2,290.00	32.52	66.51	2,059.50	316.21	817.94	876.94	68.86	
2,382.00	31.42	67.48	2,137.55	335.25	862.78	925.62	68.77	
2,473.00	32.65	64.84	2,214.69	354.77	906.91	973.83	68.64	
2,564.00	32.21	64.75	2,291.50	375.56	951.06	1,022.53	68.45	
2,655.00	31.37	64.93	2,368.85	395.94	994.45	1,070.38	68.29	
2,746.00	33.71	66.16	2,445.56	416.18	1,039.01	1,119.27	68.17	
2,835.00	33.53	66.51	2,519.67	435.96	1,084.15	1,168.52	68.09	
2,927.00	32.91	66.86	2,596.64	455.91	1,130.43	1,218.91	68.04	
3,017.00	32.26	67.04	2,672.47	474.89	1,175.03	1,267.37	67.99	
3,109.00	33.71	66.95	2,749.64	494.47	1,221.13	1,317.44	67.96	
3,200.00	32.96	67.30	2,825.67	513.91	1,267.21	1,367.45	67.93	
3,292.00	32.61	67.74	2,903.01	532.95	1,313.24	1,417.26	67.91	
3,384.00	32.34	68.01	2,980.62	551.56	1,359.00	1,466.66	67.91	
3,476.00	33.49	65.02	3,057.86	571.49	1,404.83	1,516.62	67.86	
3,567.00	33.31	64.93	3,133.83	592.69	1,450.22	1,566.65	67.77	
3,659.00	33.05	64.75	3,210.83	614.09	1,495.79	1,616.94	67.68	
3,751.00	32.74	65.02	3,288.08	635.30	1,541.03	1,666.85	67.60	
3,842.00	31.77	65.90	3,365.04	655.47	1,585.21	1,715.38	67.54	
3,934.00	33.79	66.78	3,442.38	675.45	1,630.83	1,765.17	67.50	
4,025.00	33.75	66.16	3,518.03	695.64	1,677.21	1,815.75	67.47	
4,117.00	33.27	65.55	3,594.74	716.42	1,723.55	1,866.52	67.43	
4,209.00	32.65	66.16	3,671.93	736.89	1,769.23	1,916.55	67.39	
4,301.00	35.02	65.72	3,748.34	757.78	1,816.00	1,967.76	67.35	
4,393.00	34.58	65.55	3,823.89	779.44	1,863.83	2,020.24	67.31	
4,484.00	33.97	65.90	3,899.09	800.51	1,910.54	2,071.47	67.27	
4,576.00	33.31	66.69	3,975.68	821.01	1,957.20	2,122.43	67.24	
4,667.00	32.08	66.95	4,052.26	840.36	2,002.39	2,171.58	67.23	
4,758.00	33.57	66.86	4,128.73	859.71	2,047.76	2,220.91	67.23	
4,849.00	33.31	66.78	4,204.66	879.44	2,093.86	2,271.05	67.22	
4,941.00	33.00	66.42	4,281.69	899.43	2,140.04	2,321.36	67.20	
5,032.00	31.82	66.95	4,358.51	918.73	2,184.83	2,370.14	67.19	
5,124.00	33.62	66.07	4,435.91	938.56	2,230.43	2,419.86	67.18	

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Site:	Sec 3, T6S, R94W	MD Reference:	KB=30' @ 6760.00usft (H&P #329)
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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 (°)	
5,215.00	33.40	65.11	4,511.78	959.32	2,276.18	2,470.08	67.15	
5,306.00	32.17	65.63	4,588.29	979.86	2,320.97	2,519.33	67.11	
5,397.00	34.15	65.19	4,664.46	1,000.58	2,366.22	2,569.08	67.08	
5,488.00	33.53	65.37	4,740.05	1,021.77	2,412.25	2,619.73	67.04	
5,578.00	32.65	65.72	4,815.45	1,042.11	2,456.98	2,668.85	67.02	
5,670.00	32.30	65.55	4,893.06	1,062.49	2,501.98	2,718.23	66.99	
5,761.00	32.08	66.16	4,970.08	1,082.32	2,546.22	2,766.70	66.97	
5,851.00	32.95	66.25	5,045.97	1,101.84	2,590.48	2,815.07	66.96	
5,943.00	32.70	66.07	5,123.28	1,121.99	2,636.10	2,864.94	66.94	
6,035.00	32.04	65.63	5,200.98	1,142.14	2,681.04	2,914.18	66.93	
6,127.00	31.73	65.28	5,279.10	1,162.33	2,725.24	2,962.76	66.90	
6,219.00	31.03	66.25	5,357.64	1,182.00	2,768.92	3,010.66	66.88	
6,311.00	30.98	65.81	5,436.50	1,201.25	2,812.23	3,058.04	66.87	
6,402.00	29.93	68.45	5,514.95	1,219.19	2,854.71	3,104.16	66.87	
6,493.00	29.44	67.74	5,594.00	1,236.00	2,896.52	3,149.21	66.89	
6,584.00	26.85	69.41	5,674.24	1,251.70	2,936.46	3,192.11	66.91	
6,676.00	26.32	69.41	5,756.51	1,266.18	2,975.01	3,233.25	66.95	
6,767.00	24.79	67.74	5,838.61	1,280.50	3,011.55	3,272.48	66.96	
6,858.00	22.37	70.20	5,922.00	1,293.60	3,045.51	3,308.85	66.99	
6,949.00	20.65	66.86	6,006.67	1,305.77	3,076.56	3,342.19	67.00	
7,040.00	19.60	66.95	6,092.11	1,318.05	3,105.36	3,373.50	67.00	
7,131.00	18.50	68.71	6,178.12	1,329.27	3,132.85	3,403.20	67.01	
7,223.00	18.11	67.13	6,265.47	1,340.13	3,159.63	3,432.08	67.02	
7,315.00	16.70	64.93	6,353.26	1,351.29	3,184.78	3,459.59	67.01	
7,404.00	15.03	64.05	6,438.86	1,361.75	3,206.74	3,483.90	66.99	
7,496.00	13.10	63.61	6,528.10	1,371.61	3,226.81	3,506.22	66.97	
7,587.00	12.57	63.44	6,616.83	1,380.62	3,244.90	3,526.40	66.95	
7,678.00	11.07	63.79	6,705.89	1,388.91	3,261.60	3,545.01	66.93	
7,770.00	8.92	65.46	6,796.49	1,395.77	3,276.01	3,560.96	66.92	
7,862.00	6.37	67.57	6,887.67	1,400.68	3,287.22	3,573.20	66.92	
7,953.00	5.67	63.88	6,978.17	1,404.59	3,295.92	3,582.73	66.92	
8,045.00	4.31	68.09	7,069.82	1,407.88	3,303.21	3,590.73	66.92	
8,134.00	3.96	61.85	7,158.58	1,410.58	3,309.02	3,597.13	66.91	
8,225.00	3.96	44.98	7,249.37	1,414.28	3,314.02	3,603.18	66.89	
8,317.00	3.03	50.96	7,341.20	1,418.06	3,318.15	3,608.47	66.86	
8,409.00	3.25	50.52	7,433.06	1,421.25	3,322.05	3,613.31	66.84	
8,499.00	2.77	55.79	7,522.94	1,424.09	3,325.82	3,617.89	66.82	
8,590.00	2.55	50.60	7,613.84	1,426.62	3,329.20	3,621.99	66.80	
8,681.00	2.15	53.68	7,704.76	1,428.91	3,332.14	3,625.60	66.79	
8,773.00	1.67	58.69	7,796.71	1,430.63	3,334.68	3,628.61	66.78	
8,864.00	1.32	59.83	7,887.68	1,431.85	3,336.72	3,630.96	66.77	
8,956.00	0.57	74.07	7,979.67	1,432.50	3,338.07	3,632.47	66.77	
9,047.00	0.92	99.12	8,070.66	1,432.51	3,339.23	3,633.53	66.78	
9,138.00	0.53	168.29	8,161.65	1,431.99	3,340.04	3,634.06	66.79	
9,230.00	0.83	192.46	8,253.65	1,430.92	3,339.98	3,633.59	66.81	

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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 (°)	
9,322.00	1.32	191.49	8,345.63	1,429.23	3,339.62	3,632.60	66.83	
9,413.00	1.49	204.06	8,436.60	1,427.12	3,338.93	3,631.14	66.86	
9,505.00	1.67	208.63	8,528.57	1,424.85	3,337.80	3,629.21	66.88	
9,596.00	0.70	227.26	8,619.55	1,423.31	3,336.76	3,627.64	66.90	
9,688.00	1.89	220.06	8,711.52	1,421.77	3,335.37	3,625.76	66.91	
9,779.00	1.71	218.48	8,802.48	1,419.56	3,333.56	3,623.23	66.93	
9,871.00	2.20	221.46	8,894.42	1,417.16	3,331.54	3,620.42	66.96	
9,961.00	2.68	221.20	8,984.34	1,414.28	3,329.01	3,616.97	66.98	
10,052.00	2.33	219.00	9,075.25	1,411.24	3,326.44	3,613.42	67.01	
10,143.00	2.33	231.48	9,166.18	1,408.65	3,323.83	3,610.01	67.03	
10,233.00	3.08	232.54	9,256.08	1,406.04	3,320.48	3,605.90	67.05	
10,324.00	4.26	237.46	9,346.89	1,402.74	3,315.69	3,600.20	67.07	
10,416.00	3.52	239.39	9,438.68	1,399.46	3,310.38	3,594.04	67.08	
10,506.00	2.55	240.98	9,528.55	1,397.08	3,306.25	3,589.31	67.09	
10,595.00	2.29	233.15	9,617.47	1,395.06	3,303.09	3,585.61	67.10	
10,686.00	2.42	240.01	9,708.39	1,393.01	3,299.98	3,581.94	67.11	
10,776.00	2.86	229.37	9,798.30	1,390.60	3,296.63	3,577.92	67.13	
10,869.00	2.81	229.20	9,891.19	1,387.59	3,293.14	3,573.54	67.15	
10,926.00	2.72	236.32	9,948.12	1,385.93	3,290.96	3,570.88	67.16	
10,990.00	2.72	236.32	10,012.05	1,384.25	3,288.43	3,567.90	67.17	
TD @ 10990.00' MD / 10012.05' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
201.00	201.00	0.70	0.03	First MWD Survey @ 201.00' MD / 201.00' TVD	
10,990.00	10,012.05	1,384.25	3,288.43	TD @ 10990.00' MD / 10012.05' TVD	

Checked By: _____ Approved By: _____ Date: _____