



Terra Energy Partners, LLP

Rio Blanco County, CO

RG 23-7-297 Pad

RG 411-18-297 - Slot RG 411-18-297

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

22 August, 2022



KLX Directional Drilling, INC.

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
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Survey Certification Sheet

Company	Job Number	Date
TEP Rocky Mountain LLC	RM-220738	8/22/2022

Lease	Well Name	County & State
Lot 15 7 2S97W 6	Federal #RG 411-18-297	Rio Blanco, CO

API No.	Survey Depth Range	Survey Type
05-103-12478	202 feet to 1388 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 RG 411-18-297 - Slot RG 411-18-297
Project:	Rio Blanco County, CO	TVD Reference:	KB=14.5' @ 6617.50usft (Cartel X-15)
Site:	RG 23-7-297 Pad	MD Reference:	KB=14.5' @ 6617.50usft (Cartel X-15)
Well:	RG 411-18-297	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Rio Blanco County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	RG 23-7-297 Pad				
Site Position:	Northing:	1,760,880.90 usft	Latitude:	39.888499	
From: Map	Easting:	2,206,203.50 usft	Longitude:	-108.329114	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.78 °

Well	RG 411-18-297 - Slot RG 411-18-297					
Well Position	+N/-S	0.00 usft	Northing:	1,760,873.80 usft	Latitude:	39.888482
	+E/-W	0.00 usft	Easting:	2,206,240.30 usft	Longitude:	-108.328982
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,603.00 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	8/12/2022	9.18	65.82	51,099.40000000

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	191.19	

Survey Program	Date	8/22/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
202.00	1,388.00	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
202.00	1.14	190.76	201.99	-1.97	-0.38	2.01	190.76	
First MWD Survey @ 202.00' MD / 201.99' TVD								
325.00	2.81	188.74	324.91	-6.16	-1.06	6.25	189.79	
412.00	4.31	188.30	411.74	-11.50	-1.86	11.65	189.18	
499.00	6.37	184.52	498.36	-19.55	-2.71	19.73	187.89	
587.00	7.87	185.66	585.68	-30.41	-3.69	30.63	186.92	
674.00	8.88	183.64	671.75	-43.04	-4.70	43.29	186.24	
761.00	10.77	192.61	757.47	-57.67	-6.90	58.09	186.83	
848.00	13.23	191.55	842.56	-75.36	-10.67	76.12	188.06	
936.00	16.39	190.76	927.63	-97.43	-15.01	98.58	188.76	
1,023.00	17.75	190.50	1,010.80	-122.53	-19.72	124.11	189.14	

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Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,110.00	19.16	190.41	1,093.32	-149.61	-24.71	151.64	189.38	
1,197.00	20.13	194.37	1,175.26	-178.16	-31.01	180.84	189.87	
1,285.00	20.79	194.81	1,257.71	-207.93	-38.76	211.51	190.56	
1,388.00	20.79	194.81	1,354.00	-243.27	-48.10	247.98	191.19	
TD @ 1388.00' MD / 1354.00' TVD								

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
202.00	201.99	-1.97	-0.38	First MWD Survey @ 202.00' MD / 201.99' TVD	
1,388.00	1,354.00	-243.27	-48.10	TD @ 1388.00' MD / 1354.00' TVD	