



Laramie Energy, LLC

Mesa County, CO

BCU 14L Pad

Laramie BCU Fed 0993-14-07W - Slot A-7

OH

Design: OH

KLX Survey Certification Report

07 March, 2025



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
Laramie Energy LLC	RM-250085	03/07/2025

Lease	Well Name	County & State
SWSW 14 9S93W 6	BCU FED #0993-14-07W	Mesa, CO

API No.	Survey Depth Range	Survey Type
05-077-10610	218 feet to 8,354 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Austin Clark

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.



KLX Energy

KLX Survey Certification Report



Company: Laramie Energy, LLC	Local Co-ordinate Reference: Well Laramie BCU Fed 0993-14-07W - Slot A-7
Project: Mesa County, CO	TVD Reference: RKB=30' @ 7424.0usft (H&P #542)
Site: BCU 14L Pad	MD Reference: RKB=30' @ 7424.0usft (H&P #542)
Well: Laramie BCU Fed 0993-14-07W	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: KLXDirectional-AD

Project Mesa 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 BCU 14L Pad				
Site Position:	Northing: 1,532,073.36 usft	Latitude: 39.272724		
From: Lat/Long	Easting: 2,364,612.88 usft	Longitude: -107.744654		
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16"	Grid Convergence: -1.42 °		

Well Laramie BCU Fed 0993-14-07W - Slot A-7				
Well Position	+N/-S 0.0 usft	Northing: 1,532,061.70 usft	Latitude: 39.272688	
	+E/-W 0.0 usft	Easting: 2,364,553.97 usft	Longitude: -107.744861	
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 7,394.0 usft	

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	2/15/2025	8.53	65.07	50,641.30000000

Design OH				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	14.10

Survey Program		Date 3/7/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
218.0	8,354.0	KLX MWD (OH)	OWSG (REV5)	MWD HDGM OWSG MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
218.0	3.03	18.11	217.9	5.5	1.8	5.8	18.11
First MWD Survey @ 218.0' MD / 217.9' TVD							
434.0	6.73	9.32	433.1	23.4	5.6	24.1	13.50
496.0	8.04	24.09	494.6	30.9	8.0	32.0	14.45
587.0	10.02	19.78	584.4	44.2	13.3	46.1	16.69
677.0	11.34	15.12	672.9	60.1	18.2	62.8	16.85
768.0	13.05	15.74	761.8	78.6	23.3	82.0	16.52
860.0	14.24	15.74	851.2	99.5	29.2	103.7	16.36
954.0	16.35	14.86	941.9	123.4	35.7	128.5	16.15
1,049.0	18.20	12.31	1,032.6	150.9	42.3	156.7	15.68
1,143.0	20.26	11.43	1,121.4	181.2	48.7	187.6	15.05



KLX Energy

KLX Survey Certification Report



Company: Laramie Energy, LLC	Local Co-ordinate Reference: Well Laramie BCU Fed 0993-14-07W - Slot A-7
Project: Mesa County, CO	TVD Reference: RKB=30' @ 7424.0usft (H&P #542)
Site: BCU 14L Pad	MD Reference: RKB=30' @ 7424.0usft (H&P #542)
Well: Laramie BCU Fed 0993-14-07W	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: KLXDirectional-AD

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
1,238.0	22.59	15.39	1,209.8	214.9	56.8	222.3	14.81
1,332.0	23.16	14.86	1,296.4	250.2	66.3	258.8	14.85
1,427.0	23.96	12.92	1,383.5	287.0	75.4	296.8	14.73
1,521.0	23.91	11.87	1,469.4	324.3	83.6	334.9	14.46
1,649.0	23.30	10.02	1,586.7	374.6	93.4	386.0	14.00
1,744.0	22.55	9.94	1,674.2	411.0	99.8	423.0	13.64
1,838.0	22.20	9.23	1,761.1	446.3	105.7	458.7	13.33
1,933.0	21.36	8.44	1,849.3	481.1	111.2	493.8	13.01
2,027.0	21.01	11.43	1,937.0	514.6	117.0	527.7	12.81
2,122.0	20.84	14.07	2,025.7	547.7	124.5	561.6	12.81
2,216.0	20.92	14.86	2,113.5	580.1	132.9	595.1	12.90
2,310.0	21.49	16.79	2,201.2	612.8	142.1	629.1	13.06
2,405.0	21.27	16.70	2,289.6	646.0	152.1	663.7	13.25
2,499.0	20.84	18.64	2,377.4	678.2	162.4	697.3	13.46
2,594.0	22.20	18.73	2,465.7	711.2	173.5	732.0	13.71
2,689.0	23.08	17.76	2,553.4	745.9	185.0	768.5	13.93
2,783.0	22.90	14.68	2,639.9	781.1	195.2	805.2	14.03
2,877.0	22.46	13.63	2,726.7	816.3	204.1	841.4	14.04
2,971.0	21.76	11.87	2,813.8	850.8	211.9	876.8	13.99
3,066.0	22.86	13.10	2,901.7	886.0	219.7	912.8	13.93
3,160.0	23.03	12.75	2,988.2	921.7	227.9	949.5	13.89
3,254.0	23.96	14.77	3,074.4	958.1	236.8	986.9	13.88
3,349.0	22.46	14.16	3,161.7	994.4	246.2	1,024.4	13.91
3,444.0	23.38	14.68	3,249.2	1,030.2	255.4	1,061.4	13.92
3,539.0	23.87	13.80	3,336.3	1,067.1	264.8	1,099.4	13.93
3,634.0	23.30	12.22	3,423.3	1,104.1	273.3	1,137.4	13.90
3,729.0	24.92	11.17	3,510.0	1,142.1	281.2	1,176.2	13.83
3,824.0	23.43	9.41	3,596.7	1,180.4	288.1	1,215.0	13.72
3,920.0	23.34	8.79	3,684.8	1,218.0	294.2	1,253.0	13.58
4,013.0	23.08	8.53	3,770.3	1,254.2	299.7	1,289.5	13.44
4,108.0	23.38	9.85	3,857.6	1,291.2	305.7	1,326.9	13.32
4,203.0	24.09	14.68	3,944.6	1,328.6	313.8	1,365.1	13.29
4,298.0	23.96	15.12	4,031.3	1,365.9	323.8	1,403.8	13.33
4,393.0	23.87	14.16	4,118.2	1,403.2	333.5	1,442.3	13.37
4,488.0	24.97	18.64	4,204.7	1,440.8	344.6	1,481.5	13.45
4,582.0	24.35	17.76	4,290.1	1,478.1	356.9	1,520.6	13.57
4,677.0	24.84	15.56	4,376.5	1,516.0	368.2	1,560.0	13.65
4,773.0	24.88	14.77	4,463.6	1,554.9	378.7	1,600.4	13.69
4,868.0	23.78	13.72	4,550.2	1,592.9	388.4	1,639.5	13.70
4,963.0	22.59	12.31	4,637.5	1,629.3	396.8	1,676.9	13.69
5,057.0	20.53	13.10	4,724.9	1,663.0	404.4	1,711.4	13.67
5,152.0	19.74	16.44	4,814.1	1,694.6	412.7	1,744.1	13.69
5,246.0	17.45	15.39	4,903.2	1,723.4	421.0	1,774.1	13.73
5,341.0	16.57	15.21	4,994.0	1,750.2	428.3	1,801.9	13.75



KLX Energy

KLX Survey Certification Report



Company: Laramie Energy, LLC	Local Co-ordinate Reference: Well Laramie BCU Fed 0993-14-07W - Slot A-7
Project: Mesa County, CO	TVD Reference: RKB=30' @ 7424.0usft (H&P #542)
Site: BCU 14L Pad	MD Reference: RKB=30' @ 7424.0usft (H&P #542)
Well: Laramie BCU Fed 0993-14-07W	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: KLXDirectional-AD

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,435.0	15.91	15.82	5,084.3	1,775.5	435.3	1,828.1	13.78
5,530.0	14.68	16.97	5,175.9	1,799.6	442.4	1,853.2	13.81
5,625.0	13.41	13.80	5,268.1	1,821.8	448.5	1,876.2	13.83
5,719.0	12.53	12.22	5,359.7	1,842.4	453.3	1,897.3	13.82
5,814.0	12.31	13.01	5,452.5	1,862.3	457.7	1,917.7	13.81
5,908.0	13.01	18.55	5,544.2	1,882.1	463.4	1,938.3	13.83
6,003.0	11.91	21.27	5,636.9	1,901.4	470.3	1,958.7	13.89
6,099.0	10.20	18.81	5,731.2	1,918.6	476.7	1,977.0	13.95
6,193.0	9.67	16.70	5,823.7	1,934.1	481.6	1,993.1	13.98
6,288.0	8.26	15.39	5,917.6	1,948.3	485.7	2,007.9	14.00
6,383.0	7.30	10.90	6,011.7	1,960.8	488.7	2,020.8	13.99
6,478.0	6.42	7.48	6,106.0	1,972.0	490.5	2,032.1	13.97
6,572.0	5.93	4.40	6,199.5	1,982.1	491.6	2,042.1	13.93
6,667.0	4.66	357.37	6,294.1	1,990.8	491.8	2,050.6	13.88
6,762.0	3.82	354.03	6,388.8	1,997.8	491.2	2,057.3	13.81
6,857.0	2.02	351.04	6,483.7	2,002.6	490.7	2,061.8	13.77
6,952.0	2.55	340.93	6,578.6	2,006.3	489.7	2,065.2	13.72
7,047.0	2.51	330.47	6,673.5	2,010.1	488.0	2,068.5	13.65
7,142.0	2.29	327.66	6,768.4	2,013.5	486.0	2,071.3	13.57
7,236.0	2.20	320.54	6,862.4	2,016.5	483.8	2,073.7	13.49
7,332.0	1.98	303.93	6,958.3	2,018.8	481.3	2,075.4	13.41
7,426.0	2.11	286.44	7,052.2	2,020.2	478.2	2,076.0	13.32
7,521.0	1.98	270.27	7,147.2	2,020.7	474.9	2,075.8	13.23
7,615.0	1.80	261.48	7,241.1	2,020.5	471.8	2,074.9	13.14
7,710.0	1.80	252.87	7,336.1	2,019.8	468.9	2,073.6	13.07
7,804.0	2.11	266.49	7,430.0	2,019.3	465.8	2,072.3	12.99
7,899.0	2.37	285.03	7,525.0	2,019.7	462.2	2,071.9	12.89
7,993.0	2.33	296.20	7,618.9	2,021.0	458.6	2,072.4	12.78
8,088.0	2.33	291.01	7,713.8	2,022.6	455.0	2,073.1	12.68
8,183.0	1.98	289.43	7,808.7	2,023.8	451.7	2,073.6	12.58
8,249.3	1.69	294.10	7,875.0	2,024.6	449.7	2,074.0	12.52
8,274.0	1.58	296.28	7,899.7	2,024.9	449.1	2,074.1	12.50
8,354.0	1.58	296.28	7,979.7	2,025.9	447.1	2,074.6	12.45

TD @ 8354.0' MD / 7979.7' TVD

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
218.0	217.9	5.5	1.8	First MWD Survey @ 218.0' MD / 217.9' TVD
8,354.0	7,979.7	2,025.9	447.1	TD @ 8354.0' MD / 7979.7' TVD

Checked By: _____ Approved By: _____ Date: _____