



Laramie Energy, LLC

Mesa County, CO

Laramie 0993-29-01

Laramie 29-01 Fed 0993-21-16W - Slot A7

OH

Plan: Design #2

KLX Well Planning Report

08 May, 2025





Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Laramie 29-01 Fed 0993-21-16W - Slot A7
Company:	Laramie Energy, LLC	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Project:	Mesa County, CO	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site:	Laramie 0993-29-01	North Reference:	True
Well:	Laramie 29-01 Fed 0993-21-16W	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #2		

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	Laramie 0993-29-01				
Site Position:		Northing:	1,525,818.99 usft	Latitude:	39.254781
From:	Map	Easting:	2,353,268.64 usft	Longitude:	-107.784158
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.44 °

Well	Laramie 29-01 Fed 0993-21-16W - Slot A7					
Well Position	+N/-S	-52.2 usft	Northing:	1,525,765.40 usft	Latitude:	39.254638
	+E/-W	55.5 usft	Easting:	2,353,322.76 usft	Longitude:	-107.783962
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	7,463.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	8/7/2023	8.67	65.10	50,830.00000000

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	62.82

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,282.1	24.55	62.82	1,252.4	94.7	184.4	2.50	2.50	0.00	62.82	
5,582.3	24.55	62.82	5,163.6	910.8	1,774.0	0.00	0.00	0.00	0.00	
6,564.4	0.00	0.00	6,116.0	1,005.4	1,958.4	2.50	-2.50	0.00	180.00	
8,339.4	0.00	0.00	7,891.0	1,005.4	1,958.4	0.00	0.00	0.00	0.00	PBHL - Laramie Fe



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Project:	Mesa County, CO	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site:	Laramie 0993-29-01	North Reference:	True
Well:	Laramie 29-01 Fed 0993-21-16W	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP (Build 2.5° / 100)									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.50	62.82	400.0	1.0	1.9	2.2	2.50	2.50	0.00
500.0	5.00	62.82	499.7	4.0	7.8	8.7	2.50	2.50	0.00
600.0	7.50	62.82	599.1	9.0	17.4	19.6	2.50	2.50	0.00
700.0	10.00	62.82	698.0	15.9	31.0	34.8	2.50	2.50	0.00
800.0	12.50	62.82	796.0	24.8	48.3	54.3	2.50	2.50	0.00
900.0	15.00	62.82	893.2	35.7	69.5	78.1	2.50	2.50	0.00
1,000.0	17.50	62.82	989.2	48.4	94.4	106.1	2.50	2.50	0.00
1,100.0	20.00	62.82	1,083.9	63.1	123.0	138.2	2.50	2.50	0.00
1,200.0	22.50	62.82	1,177.0	79.7	155.2	174.5	2.50	2.50	0.00
EOB @ 24.55° Inc. / 62.82° Azm									
1,282.1	24.55	62.82	1,252.4	94.7	184.4	207.2	2.50	2.50	0.00
1,300.0	24.55	62.82	1,268.6	98.0	191.0	214.7	0.00	0.00	0.00
1,400.0	24.55	62.82	1,359.6	117.0	227.9	256.2	0.00	0.00	0.00
8 5/8"									
1,500.0	24.55	62.82	1,450.5	136.0	264.9	297.8	0.00	0.00	0.00
1,600.0	24.55	62.82	1,541.5	155.0	301.9	339.3	0.00	0.00	0.00
1,700.0	24.55	62.82	1,632.4	174.0	338.8	380.9	0.00	0.00	0.00
1,800.0	24.55	62.82	1,723.4	192.9	375.8	422.4	0.00	0.00	0.00
1,900.0	24.55	62.82	1,814.3	211.9	412.8	464.0	0.00	0.00	0.00
2,000.0	24.55	62.82	1,905.3	230.9	449.7	505.5	0.00	0.00	0.00
2,100.0	24.55	62.82	1,996.3	249.9	486.7	547.1	0.00	0.00	0.00
2,200.0	24.55	62.82	2,087.2	268.9	523.7	588.7	0.00	0.00	0.00
2,300.0	24.55	62.82	2,178.2	287.8	560.6	630.2	0.00	0.00	0.00
2,400.0	24.55	62.82	2,269.1	306.8	597.6	671.8	0.00	0.00	0.00
2,500.0	24.55	62.82	2,360.1	325.8	634.6	713.3	0.00	0.00	0.00
2,600.0	24.55	62.82	2,451.0	344.8	671.5	754.9	0.00	0.00	0.00
2,700.0	24.55	62.82	2,542.0	363.8	708.5	796.4	0.00	0.00	0.00
2,800.0	24.55	62.82	2,633.0	382.7	745.5	838.0	0.00	0.00	0.00
2,900.0	24.55	62.82	2,723.9	401.7	782.4	879.5	0.00	0.00	0.00
Wasatch 'G' Sand									
2,917.7	24.55	62.82	2,740.0	405.1	789.0	886.9	0.00	0.00	0.00
3,000.0	24.55	62.82	2,814.9	420.7	819.4	921.1	0.00	0.00	0.00
3,100.0	24.55	62.82	2,905.8	439.7	856.4	962.6	0.00	0.00	0.00
3,200.0	24.55	62.82	2,996.8	458.7	893.3	1,004.2	0.00	0.00	0.00
3,300.0	24.55	62.82	3,087.7	477.6	930.3	1,045.8	0.00	0.00	0.00
3,400.0	24.55	62.82	3,178.7	496.6	967.3	1,087.3	0.00	0.00	0.00
Fort Union									
3,447.6	24.55	62.82	3,222.0	505.6	984.9	1,107.1	0.00	0.00	0.00
3,500.0	24.55	62.82	3,269.7	515.6	1,004.2	1,128.9	0.00	0.00	0.00
3,600.0	24.55	62.82	3,360.6	534.6	1,041.2	1,170.4	0.00	0.00	0.00
3,700.0	24.55	62.82	3,451.6	553.5	1,078.2	1,212.0	0.00	0.00	0.00
3,800.0	24.55	62.82	3,542.5	572.5	1,115.1	1,253.5	0.00	0.00	0.00
3,900.0	24.55	62.82	3,633.5	591.5	1,152.1	1,295.1	0.00	0.00	0.00
4,000.0	24.55	62.82	3,724.4	610.5	1,189.1	1,336.6	0.00	0.00	0.00
4,100.0	24.55	62.82	3,815.4	629.5	1,226.0	1,378.2	0.00	0.00	0.00
Lower Wasatch									
4,195.2	24.55	62.82	3,902.0	647.5	1,261.2	1,417.8	0.00	0.00	0.00



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Well:	Laramie 29-01 Fed 0993-21-16W	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,200.0	24.55	62.82	3,906.4	648.4	1,263.0	1,419.7	0.00	0.00	0.00
4,300.0	24.55	62.82	3,997.3	667.4	1,300.0	1,461.3	0.00	0.00	0.00
4,400.0	24.55	62.82	4,088.3	686.4	1,336.9	1,502.9	0.00	0.00	0.00
4,500.0	24.55	62.82	4,179.2	705.4	1,373.9	1,544.4	0.00	0.00	0.00
4,600.0	24.55	62.82	4,270.2	724.4	1,410.9	1,586.0	0.00	0.00	0.00
4,700.0	24.55	62.82	4,361.1	743.3	1,447.8	1,627.5	0.00	0.00	0.00
4,800.0	24.55	62.82	4,452.1	762.3	1,484.8	1,669.1	0.00	0.00	0.00
4,900.0	24.55	62.82	4,543.1	781.3	1,521.8	1,710.6	0.00	0.00	0.00
5,000.0	24.55	62.82	4,634.0	800.3	1,558.7	1,752.2	0.00	0.00	0.00
Ohio Creek									
5,056.1	24.55	62.82	4,685.0	810.9	1,579.5	1,775.5	0.00	0.00	0.00
5,100.0	24.55	62.82	4,725.0	819.3	1,595.7	1,793.7	0.00	0.00	0.00
5,200.0	24.55	62.82	4,815.9	838.2	1,632.7	1,835.3	0.00	0.00	0.00
5,300.0	24.55	62.82	4,906.9	857.2	1,669.7	1,876.8	0.00	0.00	0.00
5,400.0	24.55	62.82	4,997.8	876.2	1,706.6	1,918.4	0.00	0.00	0.00
5,500.0	24.55	62.82	5,088.8	895.2	1,743.6	1,960.0	0.00	0.00	0.00
Williams Fork									
5,504.6	24.55	62.82	5,093.0	896.1	1,745.3	1,961.9	0.00	0.00	0.00
Drop 2.5° /100'									
5,582.3	24.55	62.82	5,163.6	910.8	1,774.0	1,994.1	0.00	0.00	0.00
5,600.0	24.11	62.82	5,179.8	914.1	1,780.5	2,001.4	2.50	-2.50	0.00
5,700.0	21.61	62.82	5,271.9	931.9	1,815.1	2,040.3	2.50	-2.50	0.00
5,800.0	19.11	62.82	5,365.7	947.8	1,846.0	2,075.1	2.50	-2.50	0.00
5,900.0	16.61	62.82	5,460.8	961.8	1,873.3	2,105.8	2.50	-2.50	0.00
6,000.0	14.11	62.82	5,557.3	973.9	1,896.8	2,132.2	2.50	-2.50	0.00
6,100.0	11.61	62.82	5,654.7	984.0	1,916.6	2,154.5	2.50	-2.50	0.00
6,200.0	9.11	62.82	5,753.1	992.2	1,932.6	2,172.5	2.50	-2.50	0.00
6,300.0	6.61	62.82	5,852.2	998.5	1,944.8	2,186.2	2.50	-2.50	0.00
6,400.0	4.11	62.82	5,951.7	1,002.8	1,953.1	2,195.5	2.50	-2.50	0.00
6,500.0	1.61	62.82	6,051.6	1,005.0	1,957.6	2,200.5	2.50	-2.50	0.00
EOD @ Vertical - TOG									
6,564.4	0.00	0.00	6,116.0	1,005.4	1,958.4	2,201.4	2.50	-2.50	-97.51
6,600.0	0.00	0.00	6,151.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,251.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,351.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,451.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,551.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,651.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,751.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,300.0	0.00	0.00	6,851.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,400.0	0.00	0.00	6,951.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,051.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,151.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,251.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
Cameo									
7,763.4	0.00	0.00	7,315.0	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,351.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,451.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,551.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
Rollins									
8,089.4	0.00	0.00	7,641.0	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,651.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00



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Site:	Laramie 0993-29-01	North Reference:	True
Well:	Laramie 29-01 Fed 0993-21-16W	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	0.00	0.00	7,751.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
8,300.0	0.00	0.00	7,851.6	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00
TD @ 8339.4' MD / 7891.0' TVD									
8,339.4	0.00	0.00	7,891.0	1,005.4	1,958.4	2,201.4	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Laramie Fed 2 - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	7,891.0	1,005.4	1,958.4	1,526,721.30	2,355,305.79	39.257398	-107.777046

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,500.0	1,450.5	8 5/8"	8-5/8	11

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,917.7	2,740.0	Wasatch 'G' Sand			
3,447.6	3,222.0	Fort Union			
4,195.2	3,902.0	Lower Wasatch			
5,056.1	4,685.0	Ohio Creek			
5,504.6	5,093.0	Williams Fork			
6,564.4	6,116.0	TOG			
7,763.4	7,315.0	Cameo			
8,089.4	7,641.0	Rollins			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
300.0	300.0	0.0	0.0	KOP (Build 2.5° / 100)
1,282.1	1,252.4	94.7	184.4	EOB @ 24.55° Inc. / 62.82° Azm
5,582.3	5,163.6	910.8	1,774.0	Drop 2.5° /100'
6,564.4	6,116.0	1,005.4	1,958.4	EOD @ Vertical
8,339.4	7,891.0	1,005.4	1,958.4	TD @ 8339.4' MD / 7891.0' TVD