



# **Laramie Energy, LLC**

**Mesa County, CO**

**Laramie 0993-29-01**

**Laramie 29-01 Fed 0993-21-18W - Slot A9**

**OH**

**Plan: Design #2**

## **KLX Well Planning Report**

**08 May, 2025**





# Well Planning Report



<b>Database:</b>	KLXDirectional-AD	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-18W - Slot A9
<b>Company:</b>	Laramie Energy, LLC	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Project:</b>	Mesa County, CO	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site:</b>	Laramie 0993-29-01	<b>North Reference:</b>	True
<b>Well:</b>	Laramie 29-01 Fed 0993-21-18W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Design #2		

<b>Project</b>	Mesa County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

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

<b>Well</b>	Laramie 29-01 Fed 0993-21-18W - Slot A9					
<b>Well Position</b>	<b>+N/-S</b>	-65.9 usft	<b>Northing:</b>	1,525,751.33 usft	<b>Latitude:</b>	39.254600
	<b>+E/-W</b>	70.0 usft	<b>Easting:</b>	2,353,336.96 usft	<b>Longitude:</b>	-107.783911
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	7,463.0 usft

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

<b>Design</b>	Design #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	77.85

<b>Plan Sections</b>										
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	
275.0	0.00	0.00	275.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,146.6	21.79	77.85	1,125.8	34.5	160.1	2.50	2.50	0.00	77.85	
5,603.6	21.79	77.85	5,264.2	382.6	1,777.5	0.00	0.00	0.00	0.00	
6,475.2	0.00	0.00	6,115.0	417.1	1,937.6	2.50	-2.50	0.00	180.00	
8,250.2	0.00	0.00	7,890.0	417.1	1,937.6	0.00	0.00	0.00	0.00	PBHL - Laramie Fe



Well Planning Report



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<b>Project:</b>	Mesa County, CO	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site:</b>	Laramie 0993-29-01	<b>North Reference:</b>	True
<b>Well:</b>	Laramie 29-01 Fed 0993-21-18W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
<b>KOP (Build 2.5° / 100)</b>									
275.0	0.00	0.00	275.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.63	77.85	300.0	0.0	0.1	0.1	2.50	2.50	0.00
400.0	3.13	77.85	399.9	0.7	3.3	3.4	2.50	2.50	0.00
500.0	5.63	77.85	499.6	2.3	10.8	11.0	2.50	2.50	0.00
600.0	8.13	77.85	598.9	4.8	22.5	23.0	2.50	2.50	0.00
700.0	10.63	77.85	697.6	8.3	38.4	39.3	2.50	2.50	0.00
800.0	13.13	77.85	795.4	12.6	58.5	59.9	2.50	2.50	0.00
900.0	15.63	77.85	892.3	17.8	82.8	84.7	2.50	2.50	0.00
1,000.0	18.13	77.85	988.0	23.9	111.2	113.7	2.50	2.50	0.00
1,100.0	20.63	77.85	1,082.3	30.9	143.6	146.9	2.50	2.50	0.00
<b>EOB @ 21.79° Inc. / 77.85° Azm</b>									
1,146.6	21.79	77.85	1,125.8	34.5	160.1	163.8	2.50	2.50	0.00
1,200.0	21.79	77.85	1,175.3	38.6	179.5	183.6	0.00	0.00	0.00
1,300.0	21.79	77.85	1,268.2	46.4	215.8	220.7	0.00	0.00	0.00
1,400.0	21.79	77.85	1,361.0	54.3	252.0	257.8	0.00	0.00	0.00
<b>8 5/8"</b>									
1,500.0	21.79	77.85	1,453.9	62.1	288.3	294.9	0.00	0.00	0.00
1,600.0	21.79	77.85	1,546.7	69.9	324.6	332.1	0.00	0.00	0.00
1,700.0	21.79	77.85	1,639.6	77.7	360.9	369.2	0.00	0.00	0.00
1,800.0	21.79	77.85	1,732.5	85.5	397.2	406.3	0.00	0.00	0.00
1,900.0	21.79	77.85	1,825.3	93.3	433.5	443.4	0.00	0.00	0.00
2,000.0	21.79	77.85	1,918.2	101.1	469.8	480.5	0.00	0.00	0.00
2,100.0	21.79	77.85	2,011.0	108.9	506.1	517.7	0.00	0.00	0.00
2,200.0	21.79	77.85	2,103.9	116.8	542.4	554.8	0.00	0.00	0.00
2,300.0	21.79	77.85	2,196.7	124.6	578.7	591.9	0.00	0.00	0.00
2,400.0	21.79	77.85	2,289.6	132.4	614.9	629.0	0.00	0.00	0.00
2,500.0	21.79	77.85	2,382.4	140.2	651.2	666.2	0.00	0.00	0.00
2,600.0	21.79	77.85	2,475.3	148.0	687.5	703.3	0.00	0.00	0.00
2,700.0	21.79	77.85	2,568.1	155.8	723.8	740.4	0.00	0.00	0.00
2,800.0	21.79	77.85	2,661.0	163.6	760.1	777.5	0.00	0.00	0.00
<b>Wasatch 'G' Sand</b>									
2,884.0	21.79	77.85	2,739.0	170.2	790.6	808.7	0.00	0.00	0.00
2,900.0	21.79	77.85	2,753.9	171.4	796.4	814.6	0.00	0.00	0.00
3,000.0	21.79	77.85	2,846.7	179.2	832.7	851.8	0.00	0.00	0.00
3,100.0	21.79	77.85	2,939.6	187.1	869.0	888.9	0.00	0.00	0.00
3,200.0	21.79	77.85	3,032.4	194.9	905.3	926.0	0.00	0.00	0.00
3,300.0	21.79	77.85	3,125.3	202.7	941.6	963.1	0.00	0.00	0.00
3,400.0	21.79	77.85	3,218.1	210.5	977.9	1,000.3	0.00	0.00	0.00
<b>Fort Union</b>									
3,403.1	21.79	77.85	3,221.0	210.7	979.0	1,001.4	0.00	0.00	0.00
3,500.0	21.79	77.85	3,311.0	218.3	1,014.1	1,037.4	0.00	0.00	0.00
3,600.0	21.79	77.85	3,403.8	226.1	1,050.4	1,074.5	0.00	0.00	0.00
3,700.0	21.79	77.85	3,496.7	233.9	1,086.7	1,111.6	0.00	0.00	0.00
3,800.0	21.79	77.85	3,589.5	241.7	1,123.0	1,148.7	0.00	0.00	0.00
3,900.0	21.79	77.85	3,682.4	249.6	1,159.3	1,185.9	0.00	0.00	0.00
4,000.0	21.79	77.85	3,775.3	257.4	1,195.6	1,223.0	0.00	0.00	0.00
4,100.0	21.79	77.85	3,868.1	265.2	1,231.9	1,260.1	0.00	0.00	0.00
<b>Lower Wasatch</b>									



Well Planning Report



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<b>Project:</b>	Mesa County, CO	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site:</b>	Laramie 0993-29-01	<b>North Reference:</b>	True
<b>Well:</b>	Laramie 29-01 Fed 0993-21-18W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
4,135.4	21.79	77.85	3,901.0	267.9	1,244.7	1,273.3	0.00	0.00	0.00
4,200.0	21.79	77.85	3,961.0	273.0	1,268.2	1,297.2	0.00	0.00	0.00
4,300.0	21.79	77.85	4,053.8	280.8	1,304.5	1,334.4	0.00	0.00	0.00
4,400.0	21.79	77.85	4,146.7	288.6	1,340.8	1,371.5	0.00	0.00	0.00
4,500.0	21.79	77.85	4,239.5	296.4	1,377.1	1,408.6	0.00	0.00	0.00
4,600.0	21.79	77.85	4,332.4	304.2	1,413.3	1,445.7	0.00	0.00	0.00
4,700.0	21.79	77.85	4,425.2	312.1	1,449.6	1,482.8	0.00	0.00	0.00
4,800.0	21.79	77.85	4,518.1	319.9	1,485.9	1,520.0	0.00	0.00	0.00
4,900.0	21.79	77.85	4,610.9	327.7	1,522.2	1,557.1	0.00	0.00	0.00
<b>Ohio Creek</b>									
4,978.7	21.79	77.85	4,684.0	333.8	1,550.8	1,586.3	0.00	0.00	0.00
5,000.0	21.79	77.85	4,703.8	335.5	1,558.5	1,594.2	0.00	0.00	0.00
5,100.0	21.79	77.85	4,796.7	343.3	1,594.8	1,631.3	0.00	0.00	0.00
5,200.0	21.79	77.85	4,889.5	351.1	1,631.1	1,668.4	0.00	0.00	0.00
5,300.0	21.79	77.85	4,982.4	358.9	1,667.4	1,705.6	0.00	0.00	0.00
5,400.0	21.79	77.85	5,075.2	366.7	1,703.7	1,742.7	0.00	0.00	0.00
<b>Williams Fork</b>									
5,418.1	21.79	77.85	5,092.0	368.2	1,710.2	1,749.4	0.00	0.00	0.00
5,500.0	21.79	77.85	5,168.1	374.6	1,740.0	1,779.8	0.00	0.00	0.00
<b>Drop 2.5° /100'</b>									
5,603.6	21.79	77.85	5,264.2	382.6	1,777.5	1,818.3	0.00	0.00	0.00
5,700.0	19.38	77.85	5,354.5	389.8	1,810.7	1,852.2	2.50	-2.50	0.00
5,800.0	16.88	77.85	5,449.5	396.3	1,841.1	1,883.3	2.50	-2.50	0.00
5,900.0	14.38	77.85	5,545.8	402.0	1,867.4	1,910.2	2.50	-2.50	0.00
6,000.0	11.88	77.85	5,643.2	406.8	1,889.6	1,932.9	2.50	-2.50	0.00
6,100.0	9.38	77.85	5,741.5	410.7	1,907.7	1,951.4	2.50	-2.50	0.00
6,200.0	6.88	77.85	5,840.5	413.6	1,921.5	1,965.5	2.50	-2.50	0.00
6,300.0	4.38	77.85	5,940.0	415.7	1,931.1	1,975.3	2.50	-2.50	0.00
6,400.0	1.88	77.85	6,039.8	416.8	1,936.4	1,980.8	2.50	-2.50	0.00
<b>EOD @ Vertical - TOG</b>									
6,475.2	0.00	0.00	6,115.0	417.1	1,937.6	1,982.0	2.50	-2.50	0.00
6,500.0	0.00	0.00	6,139.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,239.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,339.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,439.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,539.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,639.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,739.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,200.0	0.00	0.00	6,839.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,300.0	0.00	0.00	6,939.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,039.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,139.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,239.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
<b>Cameo</b>									
7,674.2	0.00	0.00	7,314.0	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,339.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,439.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,539.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,639.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00
<b>Rollins</b>									
8,000.2	0.00	0.00	7,640.0	417.1	1,937.6	1,982.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,739.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00



# Well Planning Report



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<b>Wellbore:</b>	OH		
<b>Design:</b>	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	7,839.8	417.1	1,937.6	1,982.0	0.00	0.00	0.00	
<b>TD @ 8250.2' MD / 7890.0' TVD</b>										
8,250.2	0.00	0.00	7,890.0	417.1	1,937.6	1,982.0	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	7,890.0	417.1	1,937.6	1,526,119.60	2,355,284.47	39.255745	-107.777068	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,500.0	1,453.9	8 5/8"	8-5/8	11		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,884.0	2,739.0	Wasatch 'G' Sand				
3,403.1	3,221.0	Fort Union				
4,135.4	3,901.0	Lower Wasatch				
4,978.7	4,684.0	Ohio Creek				
5,418.1	5,092.0	Williams Fork				
6,475.2	6,115.0	TOG				
7,674.2	7,314.0	Cameo				
8,000.2	7,640.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
275.0	275.0	0.0	0.0	KOP (Build 2.5° / 100)	
1,146.6	1,125.8	34.5	160.1	EOB @ 21.79° Inc. / 77.85° Azm	
5,603.6	5,264.2	382.6	1,777.5	Drop 2.5° / 100'	
6,475.2	6,115.0	417.1	1,937.6	EOD @ Vertical	
8,250.2	7,890.0	417.1	1,937.6	TD @ 8250.2' MD / 7890.0' TVD	