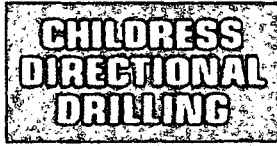


API #: 30-015-41721

Customer: Lime Rock Resources	Rig: UDI # 33	SHL X:
Lease, Well No.: Matthews 25 Federal #2	Job No.: CD-14027	SHL Y:
County or Parrish: Eddy County	Location or Area: New Mexico	Mag.Decl.: 7.59



Calculated f/ Targets	
KBTVD (@ 0' VS)	
Dip Angle (+Dn/-Up)	

Sensor			
TVD			
N/-S			
E/-W			

Tie-In Survey Co.:		Minimum Curvature Calculations								Rates / 100' M.D.			Dist f/ Target Line	
Surveying Company: Childress Directional		Proposed Azimuth: 165.96°								Build or	R or -L	Course	Above or	Right or
Survey No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	V. SECT.	DLS / 100'	-Drop	-Turn	Length	-Below	-Left	
Tie-In	0.00	0.00	0:00	0.00'	0.00'	0.00'	0.00'	0.00°						
1.	437.00	0.70	272.70	436.99'	0.13'	-2.67'	-0.77'	0.16°						
2.	496.00	0.70	270.70	495.98'	0.15'	-3.39'	-0.96'	0.04°						
3.	591.00	2.70	329.10	590.94'	2.07'	-5.12'	-3.25'	2.53°						
4.	687.00	6.00	326.80	686.65'	8.21'	-9.03'	-10.16'	3.44°						
5.	784.00	9.00	328.40	782.81'	18.92'	-15.78'	-22.18'	3.10°						
6.	880.00	11.60	323.80	877.26'	33.11'	-25.42'	-38.28'	2.84°						
7.	975.00	14.40	320.70	969.82'	49.96'	-38.54'	-57.82'	3.04°						
8.	1071.00	15.10	317.80	1,062.66'	68.46'	-54.50'	-79.64'	1.06°						
9.	1166.00	14.40	316.60	1,154.52'	86.21'	-70.93'	-100.84'	0.80°						
10.	1262.00	14.30	317.50	1,247.53'	103.63'	-87.14'	-121.67'	0.25°						
11.	1358.00	14.60	316.80	1,340.49'	121.19'	-103.43'	-142.66'	0.36°						
12.	1454.00	15.40	322.10	1,433.22'	140.07'	-119.55'	-164.88'	1.65°						
13.	1550.00	14.90	328.60	1,525.89'	160.66'	-133.81'	-188.32'	1.84°						
14.	1646.00	14.70	340.00	1,618.73'	182.65'	-144.41'	-212.22'	3.04°						
15.	1742.00	14.80	347.60	1,711.57'	206.07'	-151.21'	-236.60'	2.02°						
16.	1837.00	15.00	347.20	1,803.38'	229.91'	-156.54'	-261.02'	0.24°						
17.	1933.00	15.50	356.20	1,896.01'	254.83'	-160.14'	-286.06'	2.52°						
18.	2029.00	15.90	359.90	1,988.43'	280.78'	-161.01'	-311.45'	1.12°						
19.	2125.00	15.90	0.00	2,080.76'	307.08'	-161.04'	-336.97'	0.03°						
20.	2221.00	15.90	1.10	2,173.09'	333.37'	-160.78'	-362.42'	0.31°						
21.	2317.00	15.90	1.30	2,265.41'	359.67'	-160.23'	-387.80'	0.06°						
22.	2413.00	14.60	2.80	2,358.03'	384.90'	-159.34'	-412.06'	1.42°						
23.	2509.00	13.90	0.20	2,451.08'	408.52'	-158.71'	-434.82'	0.99°						
24.	2605.00	14.00	0.20	2,544.25'	431.66'	-158.63'	-457.25'	0.10°						
25.	2700.00	12.80	359.70	2,636.66'	453.68'	-158.65'	-478.61'	1.27°						
26.	2797.00	11.20	0.00	2,731.54'	473.84'	-158.70'	-498.19'	1.65°						
27.	2899.00	10.00	359.70	2,831.79'	492.61'	-158.75'	-516.40'	1.18°						
28.	2995.00	7.40	357.70	2,926.68'	507.12'	-159.04'	-530.55'	2.73°						
29.	3091.00	5.80	2.70	3,022.04'	518.14'	-159.06'	-541.25'	1.77°						
30.	3187.00	2.90	11.10	3,117.76'	525.37'	-158.36'	-548.10'	3.08°						
31.	3283.00	1.10	37.80	3,213.70'	528.48'	-157.33'	-550.87'	2.06°						
32.	3379.00	1.10	129.60	3,309.68'	528.63'	-156.06'	-550.69'	1.65°						
33.	3475.00	1.20	138.00	3,405.66'	527.29'	-154.67'	-549.06'	0.20°						
34.	3570.00	1.10	145.20	3,500.65'	525.80'	-153.49'	-547.33'	0.18°						
35.	3668.00	1.40	150.30	3,598.62'	523.99'	-152.36'	-545.30'	0.33°						
36.	3765.00	1.40	161.40	3,695.59'	521.84'	-151.39'	-542.98'	0.28°						
37.	3861.00	1.30	165.10	3,791.57'	519.67'	-150.74'	-540.72'	0.14°						

38.	3957.00	1.50	159.80	3,887.54'	517.44'	-150.03'	-538.38'	0.25°					
39.	4053.00	1.30	158.80	3,983.51'	515.25'	-149.20'	-536.05'	0.21°					
40.	4149.00	1.10	164.70	4,079.49'	513.34'	-148.56'	-534.05'	0.24°					
41.	4246.00	1.00	154.70	4,176.47'	511.68'	-147.95'	-532.29'	0.21°					
42.	4342.00	0.40	252.30	4,272.47'	510.82'	-147.91'	-531.45'	1.17°					
43.	4438.00	0.20	248.20	4,368.46'	510.66'	-148.39'	-531.40'	0.21°					
44.	4534.00	0.40	246.30	4,464.46'	510.46'	-148.85'	-531.32'	0.21°					
45.	4630.00	0.40	245.10	4,560.46'	510.18'	-149.46'	-531.20'	0.01°					
46.	4727.70	0.70	245.20	4,658.16'	509.79'	-150.31'	-531.03'	0.31°					
47.	4823.00	0.80	255.30	4,753.45'	509.38'	-151.49'	-530.91'	0.17°					
48.	4918.00	0.80	251.20	4,848.44'	509.00'	-152.76'	-530.85'	0.06°					
49.	4924.00	0.80	254.70	4,854.44'	508.97'	-152.84'	-530.84'	0.81°					
PTB	4969.00	0.80	254.70	4,899.43'	508.81'	-153.44'	-530.83'	0.00°					

The above survey data is true and correct, complete and within the limitations of the tool as set forth by Childress Directional Drilling, LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Lime Rock Resources; that I reviewed these MWD Surveys and find they conform to the principles and procedures as set forth by Childress Directional Drilling.

Regards,



Art Poffenroth
MWD Manager
Childress Directional Drilling, LLC