

1.	533.00	4.10	135.30	532.92'	-2.47'	2.44'	3.20'	4.23°
2.	627.00	7.00	129.90	626.47'	-8.53'	9.20'	11.78'	3.13°
3.	723.00	9.70	122.00	721.44'	-16.57'	20.55'	25.36'	3.05°
4.	819.00	11.80	112.80	815.76'	-24.66'	36.46'	43.16'	2.82°
5.	916.00	14.20	110.70	910.27'	-32.71'	56.73'	64.97'	2.52°
6.	1011.00	18.00	114.10	1,001.53'	-42.83'	81.04'	91.30'	4.12°
7.	1108.00	19.20	114.10	1,093.46'	-55.46'	109.28'	122.23'	1.24°
8.	1204.00	18.50	107.90	1,184.32'	-66.59'	138.19'	153.19'	2.21°
9.	1301.00	18.10	106.50	1,276.41'	-75.60'	167.28'	183.50'	0.61°
10.	1396.00	18.10	105.40	1,366.71'	-83.71'	195.66'	212.81'	0.36°
11.	1493.00	18.60	108.80	1,458.78'	-92.69'	224.83'	243.19'	1.22°
12.	1588.00	18.60	113.50	1,548.83'	-103.62'	253.07'	273.45'	1.58°
13.	1685.00	18.40	113.40	1,640.81'	-115.87'	281.31'	304.23'	0.21°
14.	1780.00	18.20	114.10	1,731.01'	-127.88'	308.61'	334.05'	0.31°
15.	1876.00	16.90	112.80	1,822.54'	-139.41'	335.16'	362.99'	1.41°
16.	1974.00	13.30	112.80	1,917.14'	-149.30'	358.69'	388.52'	3.67°
17.	2069.00	10.40	110.20	2,010.11'	-156.50'	376.81'	408.02'	3.10°
18.	2166.00	8.10	108.10	2,105.84'	-161.65'	391.53'	423.58'	2.40°
19.	2261.00	8.10	108.10	2,199.89'	-165.80'	404.25'	436.92'	0.00°
20.	2359.00	4.90	123.60	2,297.26'	-170.27'	414.30'	447.91'	3.70°
21.	2455.00	6.80	143.20	2,392.76'	-177.09'	421.12'	456.84'	2.84°
22.	2549.00	4.30	143.20	2,486.31'	-184.37'	426.57'	464.68'	2.66°
23.	2647.00	1.10	142.50	2,584.19'	-188.06'	429.34'	468.67'	3.27°
24.	2743.00	0.90	13.50	2,680.18'	-188.05'	430.08'	469.35'	1.88°
25.	2839.00	0.80	355.90	2,776.17'	-186.65'	430.21'	468.92'	0.29°
26.	2935.00	1.10	15.30	2,872.16'	-185.09'	430.40'	468.50'	0.45°
27.	3032.00	1.10	11.10	2,969.14'	-183.28'	430.83'	468.19'	0.08°
28.	3127.00	0.70	240.30	3,064.14'	-182.68'	430.50'	467.65'	1.73°
29.	3224.00	0.80	242.70	3,161.13'	-183.28'	429.38'	466.86'	0.11°
30.	3321.00	0.80	255.40	3,258.12'	-183.76'	428.13'	465.88'	0.18°
31.	3417.00	0.80	247.70	3,354.11'	-184.18'	426.86'	464.88'	0.11°
32.	3513.00	1.30	275.40	3,450.09'	-184.34'	425.15'	463.36'	0.73°
33.	3609.00	0.40	281.60	3,546.08'	-184.17'	423.74'	462.00'	0.94°
34.	3705.00	0.40	224.30	3,642.08'	-184.34'	423.18'	461.54'	0.40°
35.	3801.00	0.40	241.90	3,738.08'	-184.74'	422.65'	461.21'	0.13°
36.	3897.00	0.40	286.10	3,834.08'	-184.80'	422.03'	460.67'	0.31°
37.	3996.00	0.30	121.80	3,933.08'	-184.84'	421.92'	460.58'	0.70°
38.	4094.00	0.70	127.20	4,031.07'	-185.34'	422.62'	461.41'	0.41°

N/S E/W

39.	4191.00	0.60	125.80	4,128.07'	-185.99'	423.50'	462.48'	0.10°
40.	4287.00	0.70	109.00	4,224.06'	-186.48'	424.46'	463.55'	0.22°
41.	4383.00	0.50	109.50	4,320.05'	-186.81'	425.41'	464.56'	0.21°
42.	4433.00	0.80	105.10	4,370.05'	-186.97'	425.95'	465.12'	0.61°
PTB	4480.00	0.80	105.10	4,417.05'	-187.14'	426.59'	465.77'	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