API # 30-015-41697

Customer:	Lime Rock Resourses	Rig:	UDI #33	SHL X:	
Lease, Well No.:	Eagle 35 H Federal #25	Job No.:	CD-13114	SHL Y:	
County or Parrish:	Eddy County	Location or Area:	New Mexico	Mag.Decl.:	7.64

CHILDRESS DIRECTIONAL DRILLING

			Sensor	
Calculated f/ Targets			TVD	
KBTVD (@ 0' VS)			N/-S	
Dip Angle (+Dn/-Up)			E/-W	

Tie-In Survey Co.:

Surveying Company: Childress Directional

Minimum Curvature Calculations — Proposed Azimuth: 23.52°

Survey No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	V. SECT.	DLS / 100'	Rates / 100' M.D. Build or -Drop	R or -L -Turn	Course Length	Dist f/ Target Line Above or -Below	Right or -Left
Tie-In	0.00	0.00	0.00	0.00'	0.00'	0.00'	0.00'	0.00°					
1.	385.00	0.50	88.10	385.00'	0.06'	1.68'	0.72'	0.13°					
2.	416.00	0.60	96.80	415.99'	0.04'	1.98'	0.83'	0.42°					
3.	445.00	0.50	98.50	444.99'	0.00'	2.25'	0.90'	0.35°					
4.	505.00	0.70	38.20	504.99'	0.25'	2.74'	1.32'	1.05°					
5.	595.00	2.20	22.60	594.96'	2.28'	3.74'	3.58'	1.71°					
6.	691.00	4.00	17.30	690.81'	7.18'	5.44'	8.76'	1.90°					
7.	786.00	6.40	25.60	785.42'	15.12'	8.72'	17.34'	2.64°					
8.	887.00	9.50	28.60	885.44'	27.52'	15.14'	31.27'	3.10°					
9.	982.00	11.00	24.20	978.92'	42.67'	22.61'	48.15'	1.78°					
10.	1078.00	10.40	16.80	1,073.25'	59.32'	28.87'	65.91'	1.56°					
11.	1174.00	10.60	17.80	1,167.65'	76.02'	34.07'	83.30'	0.28°					
12.	1271.00	10.30	17.50	1,263.04'	92.78'	39.41'	100.80'	0.31°					
13.	1367.00	9.70	16.80	1,357.58'	108.71'	44.33'	117.37'	0.64°					
14.	1463.00	8.20	24.20	1,452.41'	122.70'	49.47'	132.25'	1.97°					
15.	1559.00	5.70	22.40	1,547.70'	133.35'	54.10'	143.86'	2.61°					
16.	1655.00	2.60	23.30	1,643.43'	139.76'	56.77'	150.81'	3.23°					
17.	1752.00	1.10	354.30	1,740.38'	142.71'	57.55'	153.82'	1.78°					
18.	1848.00	0.10	29.40	1,836.37'	143.70'	57.50'	154.71'	1.06°					
19.	1944.00	0.10	3.60	1,932.37'	143.86'	57.55'	154.87'	0.05°					
20.	2040.00	0.20	105.20	2,028.37'	143.90'	57.71'	154.97'	0.25°					
21.	2136.00	0.10	181.50	2,124.37'	143.77'	57.87'	154.92'	0.21°					
22.	2233.00	0.10	285.60	2,221.37'	143.71'	57.79'	154.83'	0.16°					
23.	2329.00	0.40	220.90	2,317.37'	143.48'	57.49'	154.50'	0.38°					
24.	2425.00	0.40	208.60	2,413.37'	142.93'	57.11'	153.85'	0.09°					
25.	2521.00	0.40	195.90	2,509.37'	142.31'	56.86'	153.18'	0.09°					
26.	2618.00	0.40	212.20	2,606.37'	141.70'	56.59'	152.51'	0.12°					
27.	2716.00	0.30	189.00	2,704.36'	141.16'	56.36'	151.92'	0.17°					
28.	2810.00	0.30	193.80	2,798.36'	140.68'	56.27'	151.44'	0.03°					
29.	2907.00	0.30	193.60	2,895.36'	140.18'	56.15'	150.94'	0.00°					
30.	3002.00	0.20	172.90	2,990.36'	139.78'	56.11'	150.55'	0.14°					
31.	3105.00	0.20	149.00	3,093.36'	139.44'	56.22'	150.30'	0.08°					
32.	3202.00	0.20	170.80	3,190.36'	139.13'	56.34'	150.05'	0.08°					
33.	3297.00	0.00	93.60	3,285.36'	138.97'	56.36'	149.92'	0.21°					
34.	3394.00	0.20	311.20	3,382.36'	139.08'	56.24'	149.97'	0.21°					
35.	3490.00	0.20	320.50	3,478.36'	139.32'	56.00'	150.09'	0.03°					
36.	3586.00	0.10	111.90	3,574.36'	139.42'	55.97'	150.17'	0.30°					
37.	3682.00	0.30	120.80	3,670.36'	139.26'	56.27'	150.14'	0.21°					

38.	3778.00	0.40	124.70	3,766.36'	138.94'	56.76'	150.05'	0.11°						
39.	3874.00	0.40	130.70	3,862.35'	138.53'	57.29'	149.88'	0.04°						
40.	3970.00	0.20	127.00	3,958.35'	138.21'	57.68'	149.74'	0.21°						
41.	4067.00	0.90	313.30	4,055.35'	138.63'	57.26'	149.96'	1.13°						
42.	4163.00	1.00	305.10	4,151.34'	139.63'	56.02'	150.39'	0.18°						
43.	4259.00	1.00	303.30	4,247.32'	140.57'	54.64'	150.70'	0.03°						
44.	4355.00	0.70	304.20	4,343.31'	141.36'	53.45'	150.95'	0.31°						
45.	4451.00	0.10	37.00	4,439.31'	141.76'	53.02'	151.14'	0.74°						
46.	4547.00	0.30	149.80	4,535.31'	141.61'	53.19'	151.07'	0.37°						
47.	4644.00	0.40	146.00	4,632.31'	141.11'	53.51'	150.74'	0.11°						
48.	4739.00	0.40	151.30	4,727.30'	140.54'	53.86'	150.36'	0.04°						
49.	4816.00	0.70	147.00	4,804.30'	139.91'	54.24'	149.93'	0.39°						
PTB	4861.00	0.70	147.00	4,849.30'	139.45'	54.54'	149.63'	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