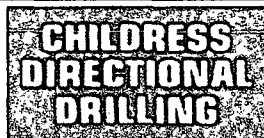


30 015 41434

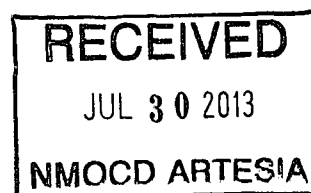
Customer: Limerock Resources	Rig: United Drilling Inc. #33	Latitude: 32.7878463
Lease, Well No.: Logan 35K Federal #15	Job No.: CD-13069	Longitude: -104.2434594
County or Parrish: Eddy, Co. NM	Location or Area: Cartesial	Mag. Decl.: 7.69°



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

Tie-In Survey Co.: Childress Directional Drilling						Minimum Curvature Calculations			Rates / 100' M.D.		Dist f/ Target Line	
Surveying Company: Childress Directional Drilling						Proposed Azimuth: 279.38°			Build or	R or -L	Above or	Right or
Survey No.	M.D.	INCL.	AZM.	TVD	N / -S	E / -W	V. SECT.	DLS / 100'	-Drop	Turn	-Below	-Left
Tie-In	0.00	0.00	0.00	0.00'	0.00'	0.00'	0.00'	0.00°				

1.	412.00	0.80	245.90	411.99'	-1.17'	-2.63'	2.40'	0.19°				
2.	502.00	0.50	226.20	501.98'	-1.70'	-3.48'	3.16'	0.41°				
3.	594.00	0.70	249.70	593.98'	-2.18'	-4.30'	3.89'	0.34°				
4.	690.00	0.70	82.40	689.97'	-2.30'	-4.27'	3.84'	1.45°				
5.	786.00	0.60	93.60	785.97'	-2.26'	-3.19'	2.77'	0.17°				
6.	882.00	0.50	82.90	881.96'	-2.24'	-2.27'	1.87'	0.15°				
7.	979.00	0.40	22.60	978.96'	-1.87'	-1.72'	1.39'	0.47°				
8.	1075.00	0.20	353.40	1,074.96'	-1.39'	-1.61'	1.36'	0.26°				
9.	1171.00	0.30	333.20	1,170.96'	-1.00'	-1.74'	1.55'	0.14°				
10.	1267.00	0.50	5.90	1,266.96'	-0.36'	-1.81'	1.73'	0.31°				
11.	1363.00	0.80	334.80	1,362.95'	0.66'	-2.05'	2.13'	0.47°				
12.	1459.00	1.00	351.70	1,458.94'	2.10'	-2.46'	2.77'	0.34°				
13.	1556.00	1.00	336.20	1,555.92'	3.71'	-2.92'	3.49'	0.28°				
14.	1652.00	0.80	235.50	1,651.92'	4.09'	-3.81'	4.43'	1.45°				
15.	1748.00	0.80	220.00	1,747.91'	3.20'	-4.80'	5.25'	0.22°				
16.	1844.00	0.60	198.20	1,843.90'	2.21'	-5.38'	5.67'	0.34°				
17.	1940.00	0.50	220.90	1,939.90'	1.42'	-5.82'	5.97'	0.25°				
18.	2037.00	2.60	288.60	2,036.86'	1.80'	-8.18'	8.36'	2.53°				
19.	2101.00	4.40	297.00	2,100.74'	3.38'	-11.74'	12.14'	2.92°				
20.	2165.00	4.40	292.80	2,164.55'	5.44'	-16.19'	16.86'	0.50°				
21.	2229.00	6.40	290.20	2,228.26'	7.63'	-21.80'	22.76'	3.15°				
22.	2293.00	8.40	285.20	2,291.73'	10.08'	-29.66'	30.91'	3.28°				
23.	2357.00	10.60	287.00	2,354.84'	13.03'	-39.81'	41.40'	3.47°				
24.	2421.00	13.40	286.30	2,417.44'	16.83'	-52.55'	54.60'	4.38°				
25.	2486.00	13.40	287.00	2,480.67'	21.15'	-66.99'	69.54'	0.25°				
26.	2550.00	13.40	278.70	2,542.93'	24.44'	-81.41'	84.31'	3.00°				
27.	2614.00	13.30	275.90	2,605.20'	26.32'	-96.06'	99.07'	1.02°				
28.	2678.00	13.30	276.10	2,667.49'	27.86'	-110.71'	113.77'	0.07°				
29.	2742.00	13.20	271.90	2,729.79'	28.88'	-125.33'	128.36'	1.51°				
30.	2806.00	12.00	269.80	2,792.24'	29.10'	-139.29'	142.17'	2.01°				
31.	2870.00	9.40	269.40	2,855.13'	29.02'	-151.17'	153.88'	4.06°				
32.	2941.00	7.90	269.40	2,925.32'	28.91'	-161.85'	164.39'	2.11°				
33.	3005.00	7.00	272.80	2,988.78'	29.06'	-170.14'	172.60'	1.57°				
34.	3069.00	4.30	271.70	3,052.46'	29.32'	-176.43'	178.85'	4.22°				
35.	3133.00	1.50	241.60	3,116.37'	28.99'	-179.57'	181.89'	4.84°				
36.	3198.00	1.00	241.80	3,181.36'	28.32'	-180.82'	183.02'	0.77°				
37.	3294.00	0.10	75.00	3,277.35'	27.94'	-181.48'	183.60'	1.14°				
38.	3390.00	0.20	93.10	3,373.35'	27.96'	-181.23'	183.36'	0.11°				
39.	3486.00	0.40	59.50	3,469.35'	28.12'	-180.77'	182.94'	0.27°				
40.	3582.00	0.20	59.90	3,565.35'	28.37'	-180.34'	182.55'	0.21°				



NS EW

41.	3679.00	0.40	91.50	3,662.35'	28.45'	-179.85'	182.08'	0.26°
42.	3775.00	0.40	137.60	3,758.35'	28.19'	-179.29'	181.49'	0.33°
43.	3868.00	0.50	114.40	3,851.34'	27.78'	-178.70'	180.84'	0.22°
PTB	3918.00	0.50	114.40	3,901.34'	27.60'	-178.31'	180.42'	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

