



NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 13 2016

RECEIVED

State of New Mexico
County of Eddy

I, Donald Leone, certify that; I am employed by Accel Directional; that I did on the day(s) of August 29, 2016 through September 1, 2016 conduct or supervise the taking of MWD survey(s) from a depth of 425' feet to a depth of 2913' feet; that the data is true, correct, complete and within the limitations of the tool set forth by Accel Directional; that I am authorized and qualified to make this report; that this report was conducted at the request of Lime Rock Resources for the Terry 14C, Well No. 2, API No. 30-015-40486 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Accel Directional.

Donnie Leone

Donnie Leone
MWD Technician



SURVEY CALCULATION PROGRAM

Minimum Curvature

File:

Lime Rock Resources'															Terry 14C Well No.2 OWB										Target Information										VS Referenced to Offset from Surface									
WELL: Terry 14C Well No.2 OWB															TARGET KBTD: 4550.00										NORTH/SOUTH: -22.79																			
LOCATION: Eddy County															TARGET INCL: 11.37										EAST/WEST: 29.74																			
RIG: United Rig 33															TARGET AZM: 127.47										(Enter 0° N and 0° E for Surface)																			
JOB NUMBER: TX-16002																																												
SURVEY COMPANY															DIRECTIONAL COMPANY										PROPOSED DIRECTION: 127.47										Dec / Total Corr.(+/-): 7.45									
Accel Directional															Accel Directional										COMMENTS: API# 30-015-40486																			
Directional Drillers															COORDINATORS																													
Brian Dennis															Chris Shipp										Bottom hole depth @ MD2913 top of fish @ MD2907																			
Lime Rock Resources'															Terry 14C Well No.2 OWB																													
SVY	MD	INC	AZM	TEMP °F	API Gamma	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE DIST	DIR	DLS/ 100'	BUR/ 100'	TVD AT 0°	ABOVE (+) BELOW (-)	RIGHT(+)	LEFT(-)																										
TIE IN	0	0.0	0.0			N/A	0.00	0.00	0.00	4.33	6.53	0.00	0.00	N/A	N/A																													
1	440	1.7	175.9			440	439.94	-6.51	0.47	4.33	6.53	175.90	0.39	0.39	418.40	4131.60	4.89																											
2	472	2.4	172.1			32	471.91	-7.65	0.59	5.12	7.67	175.57	2.23	2.19	446.44	4103.56	5.71																											
3	504	3.3	164.8			32	503.87	-9.20	0.93	6.33	9.25	174.25	3.03	2.81	472.39	4077.61	6.74																											
4	537	3.5	159.7			33	536.82	-11.06	1.52	7.94	11.17	172.15	1.10	0.61	497.34	4052.66	7.86																											
5	569	3.7	157.5			32	568.75	-12.93	2.26	9.66	13.13	170.09	0.76	0.63	520.72	4029.28	8.89																											
6	601	4.4	165.2			32	600.67	-15.07	2.97	11.52	15.36	168.86	2.77	2.19	543.37	4006.63	10.16																											
7	632	5.1	163.2			31	631.57	-17.54	3.67	13.58	17.92	168.18	2.32	2.26	564.02	3985.98	11.69																											
8	664	5.9	156.0			32	663.42	-20.41	4.75	16.18	20.95	166.90	3.30	2.50	582.94	3967.06	13.31																											
9	697	6.2	164.5			33	696.24	-23.67	5.92	19.10	24.40	165.97	2.86	0.91	601.28	3948.72	15.19																											
10	729	6.2	163.2			32	728.05	-26.99	6.88	21.88	27.85	165.71	0.44	0.00	619.25	3930.75	17.24																											
11	792	8.7	117.7			63	790.56	-32.47	12.08	29.34	34.64	159.59	9.83	3.97	644.65	3905.35	18.42																											
12	824	10.9	106.0			32	822.10	-34.43	17.14	34.54	38.46	153.54	9.24	6.88	650.31	3899.69	16.90																											
13	857	12.6	103.9			33	854.41	-36.15	23.63	40.75	43.19	146.83	5.31	5.15	651.77	3898.23	14.32																											
14	889	12.7	103.5			32	885.63	-37.81	30.44	47.16	48.54	141.17	0.42	0.31	651.10	3898.90	11.50																											
15	921	12.6	103.9			32	916.85	-39.47	37.25	53.57	54.27	136.66	0.42	-0.31	650.43	3899.57	8.67																											
16	953	12.4	103.3			32	948.09	-41.10	43.98	59.91	60.19	133.06	0.75	-0.62	650.18	3899.82	5.87																											
17	985	12.7	106.3			32	979.33	-42.88	50.70	66.32	66.40	130.22	2.24	0.94	649.52	3900.48	3.19																											
18	1,017	12.8	107.1			32	1010.54	-44.91	57.46	72.93	72.93	128.01	0.63	0.31	647.89	3902.11	0.69																											
19	1,049	12.4	116.1			32	1041.77	-47.46	63.94	79.62	79.63	126.59	6.25	-1.25	645.84	3904.16	-1.22																											
20	1,081	12.4	120.5			32	1073.03	-50.72	69.98	86.40	86.43	125.93	2.95	0.00	643.39	3906.61	-2.32																											
21	1,113	11.5	129.9			32	1104.34	-54.51	75.39	92.99	93.03	125.87	6.69	-2.81	641.88	3908.12	-2.60																											
22	1,145	11.4	135.2			32	1135.70	-58.80	80.07	99.32	99.34	126.29	3.30	-0.31	641.81	3908.19	-2.04																											
23	1,177	11.4	135.5			32	1167.07	-63.30	84.51	105.58	105.59	126.83	0.19	0.00	642.03	3907.97	-1.17																											
24	1,209	11.3	136.6			32	1198.44	-67.83	88.88	111.81	111.81	127.35	0.75	-0.31	642.43	3907.57	-0.23																											
25	1,241	12.4	133.4			32	1229.76	-72.47	93.53	118.32	118.32	127.77	4.00	3.44	641.36	3908.64	0.62																											
26	1,273	12.4	129.0			32	1261.02	-76.99	98.70	125.17	125.18	127.96	2.95	0.00	638.54	3911.46	1.07																											



SURVEY CALCULATION PROGRAM

Minimum Curvature

File:

OPERATOR: Lime Rock Resources¹		Target Information						VS Referenced to Offset from Surface											
WELL: Terry 14C Well No.2 OWB		TARGET KBTVD:		4550.00		NORTH/SOUTH:		-22.79											
LOCATION: Eddy County		TARGET INCL:		11.37		EAST/WEST:		29.74											
RIG: United Rig 33		TARGET AZM:		127.47		(Enter 0° N and 0° E for Surface)													
JOB NUMBER: TX-16002																			
SURVEY COMPANY		DIRECTIONAL COMPANY						PROPOSED DIRECTION:		127.47	Dec / Total Corr.(+/-)	7.45							
Accel Directional		Accel Directional						COORDINATORS		API# 30-015-40486									
Directional Drillers		Chris Shipp						Bottom hole depth @ MD2913 top of fish @ MD2907											
Lime Rock Resources¹		Terry 14C Well No.2 OWB						Target Calculations											
SVY	MD	INC	AZM	TEMP °F	API Gamma	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE DIST	DIR	DLS/ 100	BUR/ 100'	TVD AT 0°	ABOVE (+)	BELOW (-)	RIGHT(+)	LEFT(-)
27	1,305	12.3	128.7			32	1292.27	-81.29	104.03	132.02	132.02	128.00	0.37	-0.31	635.78	3914.22		1.23	
28	1,337	12.2	130.1			32	1323.55	-85.60	109.28	138.80	138.81	128.07	0.98	-0.31	633.31	3916.69		1.46	
29	1,369	12.3	130.5			32	1354.82	-89.99	114.45	145.58	145.59	128.18	0.41	0.31	630.85	3919.15		1.80	
30	1,401	12.3	130.7			32	1386.08	-94.42	119.63	152.39	152.40	128.28	0.13	0.00	628.27	3921.73		2.17	
31	1,433	12.3	130.2			32	1417.35	-98.85	124.82	159.20	159.22	128.38	0.33	0.00	625.68	3924.32		2.52	
32	1,465	12.4	129.9			32	1448.61	-103.25	130.06	166.03	166.06	128.45	0.37	0.31	622.94	3927.06		2.83	
33	1,497	12.4	129.4			32	1479.86	-107.63	135.35	172.90	172.93	128.49	0.34	0.00	620.05	3929.95		3.09	
34	1,529	12.5	129.0			32	1511.11	-111.99	140.69	179.80	179.83	128.52	0.41	0.31	617.00	3933.00		3.30	
35	1,561	12.5	129.2			32	1542.35	-116.36	146.07	186.72	186.75	128.54	0.14	0.00	613.82	3936.18		3.50	
36	1,593	12.6	129.4			32	1573.59	-120.77	151.45	193.67	193.70	128.57	0.34	0.31	610.49	3939.51		3.72	
37	1,625	11.7	133.3			32	1604.87	-125.21	156.51	200.39	200.43	128.66	3.81	-2.81	608.38	3941.62		4.17	
38	1,657	10.1	138.8			32	1636.29	-129.54	160.72	206.37	206.43	128.87	5.96	-5.00	610.06	3939.94		5.05	
39	1,689	7.8	141.3			32	1667.90	-133.35	163.92	211.23	211.31	129.13	7.29	-7.19	617.50	3932.50		6.12	
40	1,721	5.6	135.9			32	1699.68	-136.17	166.37	214.88	214.99	129.30	7.14	-6.88	631.11	3918.89		6.87	
41	1,752	5.0	115.1			31	1730.55	-137.83	168.64	217.69	217.80	129.26	6.45	-1.94	647.98	3902.02		6.80	
42	1,784	5.2	108.8			32	1762.42	-138.89	171.28	220.43	220.51	129.04	1.86	0.63	666.25	3883.75		6.04	
43	1,816	5.1	107.6			32	1794.29	-139.78	174.01	223.14	223.20	128.78	0.46	-0.31	684.63	3865.37		5.09	
44	1,848	5.1	107.5			32	1826.17	-140.64	176.72	225.82	225.85	128.51	0.03	0.00	703.21	3846.79		4.12	
45	1,879	5.2	107.2			31	1857.04	-141.47	179.38	228.43	228.45	128.26	0.33	0.32	721.09	3828.91		3.16	
46	1,911	5.2	108.1			32	1888.91	-142.35	182.14	231.16	231.17	128.01	0.25	0.00	739.39	3810.61		2.18	
47	1,948	4.4	107.2			37	1925.78	-143.29	185.09	234.07	234.07	127.75	2.17	-2.16	761.77	3788.23		1.13	
48	1,980	3.0	103.3			32	1957.71	-143.85	187.08	235.99	235.99	127.56	4.44	-4.38	784.18	3765.82		0.36	
49	2,012	1.6	103.5			32	1989.69	-144.14	188.33	237.16	237.16	127.43	4.38	-4.38	810.32	3739.68		-0.16	
50	2,044	0.8	91.6			32	2021.68	-144.25	188.99	237.75	237.75	127.35	2.61	-2.50	839.39	3710.61		-0.47	
51	2,076	0.4	10.0			32	2053.68	-144.15	189.23	237.88	237.88	127.30	2.63	-1.25	870.74	3679.26		-0.70	
-52	2,108	0.5	339.4			32	2085.68	-143.91	189.20	237.71	237.71	127.26	0.80	0.31	903.58	3646.42		-0.88	
53	2,139	0.5	337.0			31	2116.68	-143.66	189.10	237.48	237.48	127.22	0.07	0.00	935.74	3614.26		-1.02	



SURVEY CALCULATION PROGRAM

Minimum Curvature

File:

OPERATOR: Lime Rock Resources'										Target Information				VS Referenced to Offset from Surface							
WELL: Terry 14C Well No.2 OWB										TARGET KBTVD:		4550.00		NORTH/SOUTH:		-22.79					
LOCATION: Eddy County										TARGET INCL:		11.37		EAST/WEST:		29.74					
RIG: United Rig 33										TARGET AZM:		127.47		(Enter 0° N and 0° E for Surface)							
JOB NUMBER: TX-16002																					
SURVEY COMPANY										DIRECTIONAL COMPANY				PROPOSED DIRECTION:		127.47	Dec / Total Corr.(+/-)		7.45		
Accel Directional										Accel Directional				COMMENTS:				API# 30-015-40486			
Directional Drillers										COORDINATORS											
Brian Dennis										Chris Shipp				Bottom hole depth @ MD2913 top of fish @ MD2907							
Lime Rock Resources'										Terry 14C Well No.2 OWB											
										Surface		CLOSURE		DLS/		BUR/		TVD AT 0° ABOVE (+) RIGHT(+)			
										Vert Sect		DIST		DIR		100'		100'		V. SEC. BELOW (-) LEFT(-)	
SVY	MD	INC	TRUE	TEMP	API	Course	TVD	N-S	E-W												
			AZM	°F	Gamma	Length															
54	2,172	0.6	330.0			33	2149.67	-143.38	188.96	237.19	237.19	127.19	0.36	0.30	970.15	3579.85	-1.15				
55	2,204	0.5	343.0			32	2181.67	-143.10	188.83	236.92	236.93	127.16	0.50	-0.31	1003.49	3546.51	-1.30				
56	2,236	0.4	345.0			32	2213.67	-142.86	188.76	236.72	236.72	127.12	0.32	-0.31	1036.49	3513.51	-1.45				
57	2,268	0.6	342.6			32	2245.67	-142.59	188.68	236.49	236.50	127.08	0.63	0.63	1069.61	3480.39	-1.61				
58	2,300	0.7	348.9			32	2277.67	-142.24	188.59	236.21	236.22	127.02	0.38	0.31	1103.02	3446.98	-1.84				
59	2,332	0.7	350.3			32	2309.67	-141.85	188.52	235.92	235.93	126.96	0.05	0.00	1136.46	3413.54	-2.10				
60	2,364	0.8	357.3			32	2341.66	-141.44	188.48	235.63	235.65	126.88	0.42	0.31	1169.89	3380.11	-2.40				
61	2,396	0.7	359.7			32	2373.66	-141.02	188.47	235.37	235.39	126.80	0.33	-0.31	1203.20	3346.80	-2.73				
62	2,428	0.9	5.2			32	2405.66	-140.57	188.49	235.12	235.14	126.71	0.67	0.63	1236.46	3313.54	-3.10				
63	2,460	0.8	3.2			32	2437.65	-140.10	188.53	234.86	234.88	126.62	0.33	-0.31	1269.75	3280.25	-3.49				
64	2,492	0.9	0.1			32	2469.65	-139.62	188.54	234.58	234.61	126.52	0.34	0.31	1303.13	3246.87	-3.88				
65	2,524	0.8	0.7			32	2501.65	-139.15	188.54	234.29	234.33	126.43	0.31	-0.31	1336.55	3213.45	-4.26				
66	2,555	0.8	0.4			31	2532.64	-138.72	188.55	234.03	234.08	126.34	0.01	0.00	1368.84	3181.16	-4.60				
67	2,588	0.7	6.7			33	2565.64	-138.29	188.57	233.79	233.84	126.25	0.39	-0.30	1403.04	3146.96	-4.96				
68	2,619	1.0	152.6			31	2596.64	-138.34	188.72	233.94	233.99	126.24	5.25	0.97	1433.30	3116.70	-5.01				
69	2,651	1.7	155.4			32	2628.63	-139.02	189.04	234.61	234.66	126.33	2.20	2.19	1461.95	3088.05	-4.67				
70	2,683	1.6	150.7			32	2660.62	-139.84	189.46	235.44	235.48	126.43	0.53	-0.31	1489.81	3060.19	-4.27				
71	2,715	1.7	145.7			32	2692.60	-140.62	189.95	236.30	236.33	126.51	0.55	0.31	1517.51	3032.49	-3.94				
72	2,747	1.6	147.5			32	2724.59	-141.39	190.45	237.17	237.20	126.59	0.35	-0.31	1545.17	3004.83	-3.64				
73	2,779	1.6	148.7			32	2756.58	-142.15	190.93	238.01	238.03	126.67	0.10	0.00	1573.00	2977.00	-3.33				
74	2,811	1.6	147.8			32	2788.57	-142.91	191.40	238.84	238.86	126.75	0.08	0.00	1600.83	2949.17	-3.01				
75	2,843	1.5	146.1			32	2820.55	-143.63	191.87	239.66	239.67	126.82	0.34	-0.31	1628.76	2921.24	-2.72				
PTB	2,913	1.5	146.1			70	2890.53	-145.15	192.89	241.39	241.40	126.96	0.00	0.00	1690.10	2859.90	-2.13				



SURVEY CALCULATION PROGRAM

SIDETRACK

Minimum Curvature

File:

OPERATOR: Lime Rock Resources ¹										Target Information				VS Referenced to Offset from Surface					
WELL: Terry 14C Well No.2 SDTK1										TARGET KBTVD:		4550.00		NORTH/SOUTH:		-22.79			
LOCATION: Eddy County										TARGET INCL:		11.37		EAST/WEST:		29.74			
RIG: United Rig 33										TARGET AZM:		127.47		(Enter 0° N and 0° E for Surface)					
JOB NUMBER: TX-16002																			
SURVEY COMPANY										DIRECTIONAL COMPANY				PROPOSED DIRECTION:		127.47	Dec / Total Corr.(+/-):		7.45
Accel Directional										Accel Directional				COMMENTS:				API# 30-015-40486	
Directional Drillers										COORDINATORS									
Brian Dennis										Chris Shipp									
Lime Rock Resources ¹										Terry 14C Well No.2 SDTK1				Target Calculations					
SVY	MD	INC	TRUE	TEMP	API	Course	TVD	N-S	E-W	Surface	CLOSURE	DLS/	BUR/	TVD AT 0°	ABOVE (+)	RIGHT(+)			
			AZM	°F	Gamma	Length				Vert Sect	DIST	DIR	100	100'	BELOW (-)	LEFT(-)			
TIE IN	2,588	0.7	6.7			N/A	2565.64	-138.29	188.57	233.79	233.84	126.25	N/A	N/A	1403.02	3146.98	-4.95		
1	2,621	1.5	357.7			33	2598.63	-137.66	188.58	233.41	233.48	126.13	2.47	2.42	1437.91	3112.09	-5.46		
2	2,653	2.1	357.9			32	2630.62	-136.65	188.54	232.77	232.85	125.93	1.88	1.88	1473.08	3076.92	-6.23		
3	2,685	2.3	357.7			32	2662.59	-135.43	188.49	231.99	232.10	125.70	0.63	0.62	1508.96	3041.04	-7.18		
4	2,717	2.3	353.6			32	2694.57	-134.15	188.39	231.13	231.27	125.45	0.51	0.00	1545.19	3004.81	-8.14		
5	2,749	2.2	355.0			32	2726.54	-132.90	188.27	230.27	230.45	125.22	0.36	-0.31	1581.44	2968.56	-9.05		
6	2,782	2.2	353.7			33	2759.52	-131.64	188.14	229.40	229.62	124.98	0.15	0.00	1618.72	2931.28	-9.98		
7	2,813	1.4	343.3			31	2790.50	-130.68	187.97	228.69	228.93	124.81	2.78	-2.58	1653.28	2896.72	-10.63		
8	2,846	0.6	258.4			33	2823.50	-130.33	187.68	228.25	228.50	124.78	4.46	-2.42	1688.46	2861.54	-10.73		
9	2,878	1.0	228.8			32	2855.50	-130.55	187.31	228.08	228.32	124.88	1.76	1.25	1721.28	2828.72	-10.33		
10	2,909	1.0	223.4			31	2886.49	-130.92	186.92	228.00	228.21	125.01	0.30	0.00	1752.67	2797.33	-9.80		
11	2,941	1.6	213.0			32	2918.48	-131.50	186.49	228.01	228.19	125.19	2.01	1.88	1784.64	2765.36	-9.08		
12	2,973	3.0	203.7			32	2950.46	-132.64	185.91	228.24	228.37	125.51	4.51	4.38	1815.45	2734.55	-7.82		
13	3,005	3.6	201.2			32	2982.40	-134.35	185.21	228.72	228.80	125.96	1.93	1.88	1845.00	2705.00	-6.04		
14	3,037	3.6	199.8			32	3014.34	-136.23	184.50	229.31	229.34	126.44	0.27	0.00	1874.02	2675.98	-4.12		
15	3,069	3.5	199.7			32	3046.28	-138.09	183.83	229.91	229.92	126.91	0.31	-0.31	1902.96	2647.04	-2.23		
16	3,101	3.3	182.3			32	3078.22	-139.93	183.47	230.74	230.74	127.33	3.27	-0.63	1930.79	2619.21	-0.55		
17	3,133	3.8	157.0			32	3110.16	-141.83	183.84	232.19	232.19	127.65	5.09	1.56	1955.50	2594.50	0.73		
18	3,165	3.9	148.4			32	3142.09	-143.73	184.83	234.13	234.14	127.87	1.83	0.31	1977.78	2572.22	1.64		
19	3,197	2.7	142.1			32	3174.04	-145.25	185.86	235.88	235.89	128.01	3.91	-3.75	2001.05	2548.95	2.22		
20	3,229	1.4	106.3			32	3206.02	-145.96	186.70	236.97	236.98	128.02	5.52	-4.06	2027.59	2522.41	2.27		
21	3,261	1.1	79.4			32	3238.01	-146.01	187.38	237.54	237.55	127.93	2.03	-0.94	2056.75	2493.25	1.90		
22	3,293	0.4	5.7			32	3270.01	-145.84	187.69	237.69	237.69	127.85	3.31	-2.19	2088.02	2461.98	1.58		
23	3,325	0.6	310.3			32	3302.01	-145.62	187.57	237.46	237.47	127.82	1.55	0.63	2121.14	2428.86	1.47		
24	3,357	0.8	322.3			32	3334.01	-145.34	187.31	237.08	237.08	127.81	0.77	0.63	2155.05	2394.95	1.41		
25	3,389	0.7	310.0			32	3366.00	-145.04	187.02	236.67	236.67	127.79	0.59	-0.31	2189.09	2360.91	1.34		
26	3,421	0.5	314.2			32	3398.00	-144.81	186.77	236.33	236.34	127.79	0.64	-0.63	2222.75	2327.25	1.32		



SURVEY CALCULATION PROGRAM

Minimum Curvature

File:

OPERATOR: Lime Rock Resources ¹										Target Information				VS Referenced to Offset from Surface			
WELL: Terry 14C Well No.2 SDRK1										TARGET KBTVD:		4550.00		NORTH/SOUTH:		-22.79	
LOCATION: Eddy County										TARGET INCL:		11.37		EAST/WEST:		29.74	
RIG: United Rig 33										TARGET AZM:		127.47		(Enter 0° N and 0° E for Surface)			
JOB NUMBER: TX-16002																	
SURVEY COMPANY										DIRECTIONAL COMPANY				PROPOSED DIRECTION: 127.47			
Accel Directional										Accel Directional				COMMENTS:			
Directional Drillers										COORDINATORS							
Brian Dennis										Chris Shipp							
Lime Rock Resources										Terry 14C Well No.2 SDRK1							
SVY	MD	INC	AZM	TEMP °F	API Gamma	Course Length	TVD	N-S	E-W	Surface Vert Sect	CLOSURE DIST	DIR	DLS/ 100'	BUR/ 100'	TVD AT 0' V. SEC.	ABOVE (+) BELOW (-)	RIGHT(+) LEFT(-)
27	3,452	0.6	332.5			31	3429.00	-144.57	186.60	236.05	236.05	127.77	0.65	0.32	2255.14	2294.86	1.23
28	3,484	0.7	334.8			32	3461.00	-144.25	186.44	235.73	235.73	127.73	0.32	0.31	2288.76	2261.24	1.07
29	3,516	0.7	335.0			32	3493.00	-143.90	186.27	235.38	235.38	127.69	0.01	0.00	2322.48	2227.52	0.89
30	3,548	0.8	327.8			32	3524.99	-143.53	186.07	235.00	235.00	127.65	0.43	0.31	2356.38	2193.62	0.72
31	3,580	0.7	316.2			32	3556.99	-143.20	185.82	234.59	234.59	127.62	0.57	-0.31	2390.38	2159.62	0.62
32	3,612	0.8	325.6			32	3588.99	-142.87	185.56	234.19	234.19	127.60	0.49	0.31	2424.40	2125.60	0.52
33	3,644	0.8	321.1			32	3620.98	-142.52	185.29	233.76	233.76	127.57	0.20	0.00	2458.53	2091.47	0.39
34	3,676	0.7	331.1			32	3652.98	-142.17	185.06	233.36	233.36	127.53	0.51	-0.31	2492.50	2057.50	0.26
35	3,708	0.7	112.6			32	3684.98	-142.07	185.14	233.37	233.37	127.50	4.13	0.00	2524.45	2025.55	0.14
36	3,740	1.5	127.5			32	3716.97	-142.40	185.65	233.98	233.98	127.49	2.63	2.50	2553.42	1996.58	0.09
37	3,772	1.7	128.9			32	3748.96	-142.96	186.36	234.87	234.87	127.49	0.64	0.63	2580.96	1969.04	0.10
38	3,804	1.7	127.1			32	3780.95	-143.54	187.10	235.82	235.82	127.49	0.17	0.00	2608.23	1941.77	0.11
39	3,837	1.6	125.1			33	3813.93	-144.10	187.87	236.77	236.77	127.49	0.35	-0.30	2636.49	1913.51	0.08
40	3,869	1.6	124.3			32	3845.92	-144.61	188.61	237.66	237.66	127.48	0.07	0.00	2664.04	1885.96	0.04
41	3,901	1.4	124.0			32	3877.91	-145.08	189.30	238.50	238.50	127.47	0.63	-0.63	2691.87	1858.13	-0.01
42	3,933	0.7	108.0			32	3909.91	-145.36	189.81	239.08	239.08	127.45	2.35	-2.19	2721.01	1828.99	-0.10
43	3,964	0.4	85.1			31	3940.90	-145.41	190.10	239.33	239.33	127.41	1.18	-0.97	2750.72	1799.28	-0.23
44	3,997	0.4	81.3			33	3973.90	-145.38	190.33	239.50	239.50	127.37	0.08	0.00	2782.90	1767.10	-0.39
45	4,028	0.4	48.1			31	4004.90	-145.29	190.51	239.59	239.59	127.33	0.74	0.00	2813.43	1736.57	-0.58
46	4,060	0.3	51.4			32	4036.90	-145.17	190.66	239.63	239.64	127.29	0.32	-0.31	2845.23	1704.77	-0.77
47	4,092	0.3	67.2			32	4068.90	-145.08	190.80	239.70	239.70	127.25	0.26	0.00	2876.92	1673.08	-0.92
48	4,124	0.3	63.0			32	4100.90	-145.01	190.96	239.77	239.78	127.21	0.07	0.00	2908.53	1641.47	-1.07
49	4,156	0.3	54.3			32	4132.90	-144.92	191.10	239.83	239.84	127.18	0.14	0.00	2940.23	1609.77	-1.23
50	4,188	0.4	57.4			32	4164.90	-144.82	191.26	239.90	239.90	127.13	0.32	0.31	2971.92	1578.08	-1.41
51	4,220	0.4	86.8			32	4196.90	-144.75	191.47	240.02	240.02	127.09	0.63	0.00	3003.31	1546.69	-1.59
52	4,252	0.5	82.6			32	4228.90	-144.72	191.72	240.20	240.21	127.05	0.33	0.31	3034.40	1515.60	-1.76
53	4,284	0.5	74.4			32	4260.90	-144.67	191.99	240.39	240.39	127.00	0.22	0.00	3065.49	1484.51	-1.97



SURVEY CALCULATION PROGRAM

File:

Page 3

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

ARTESIA DISTRICT
Energy, Minerals and Natural Resources
SEP 13 2016
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-40486
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name TERRY 14 C
8. Well Number #2
9. OGRID Number 277558
10. Pool name or Wildcat Atoka, Glorieta-Yeso (3250)

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator LIME ROCK RESOURCES II-A, L.P.	
3. Address of Operator c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401	
4. Well Location Unit Letter <u>C</u> : <u>185</u> feet from the <u>North</u> line and <u>2110</u> feet from the <u>West</u> line Section <u>14</u> Township <u>18-S</u> Range <u>26-E</u> NMPM <u>Eddy</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3316' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☒
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Spud & Csgs ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spud well on 8/27/16. Drilled 17-1/2" hole to 425'. Landed 13-3/8" 54.5# J-55 csg @ 425'. Cmted w/440 sx (590 cf) "C" cmt w/1.88% Cacl2 & 0.25#/sx cello flake. Circ 245 sx cmt to surface. On 8/28/16, PT 13-3/8" csg to 600 psi for 30 min-OK.

Drilled 12-1/4" hole from 13-3/8" csg shoe to 743' on 8/29/16. Since 1st oil show was @ 681', changed intermediate csg depth to 630' & notified Molly w/NMOCD on 8/29/16. On 8/29/16, landed 8-5/8" 24# J-55 csg @ 630'. Cmted lead w/150 sx (362 cf) "C" cmt w/1.88% Cacl2 & 0.25#/sx cello flake. Tailed w/200 sx (268 cf) "C" cmt w/8.4% gel, 0.25# cello flake, 37#/sx fly ash, 2#/sx kol seal, 0.17% defoamer, & 5#/sx Nacl. Circ 86 sx cmt to pit. On 8/30/16, PT 8-5/8" csg to 1500 psi for 30 min-OK.

Drilled 7-7/8" hole from 8-5/8" csg shoe to 2915' where motor unscrewed leaving lower section & bit on bottom. Attempted to fish motor, but encountered tight hole. Reamed & tried to fish unsuccessfully. On 9/2/16, obtained verbal approval to sidetrack well from Maxey Brown w/NMOCD. On 9/3/16, spotted 204 sx cmt @ 2915'. Reamed tight sections @ 1643'-1710' & 1102'-1134'. Kicked off sidetrack @ 2612' & drilled 7-7/8" hole to TD4360' on 9/7/16. Ran open hole logs.

On 9/8/16, landed 5-1/2" 17# J-55 csg @ 4355'. Cmted lead w/200 sx (382 cf) "C" cmt w/5.22% gel, 0.25# cello flake, 25.9# fly ash, 5# kol seal, 0.17% retarder, & 4.04% Nacl. Tailed w/750 sx (998 cf) "C" cmt w/0.25# cello flake & 0.17% retarder. Circ 255 sx cmt to pit. Released drilling rig on 9/9/16. We plan to pressure test the 5-1/2" csg before completion operations.

Bottom hole @ 330' FNL & 2303' FWL
Spud Date: 8/27/16

Drilling Rig Release Date: 9/9/16

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Pippin TITLE Petroleum Engineer - Agent DATE 9/12/16

Type or print name Mike Pippin E-mail address: mike@pippinllc.com PHONE: 505-327-4573

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **NM OIL CONSERVATION**

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

AS DRILLED

ARTESIA DISTRICT

SEP 13 2016

RECEIVED

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-40486	3250	³ Pool Name Atoka, Glorieta-Yeso
⁴ Property Code 39343	⁵ Property Name TERRY 14 C	⁶ Well Number 2
⁷ OGRID No. 277558	⁸ Operator Name LIME ROCK RESOURCES II-A, L.P.	⁹ Elevation 3316' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	14	18-S	26-E		185	NORTH	2110	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	14	18-S	26-E		330	NORTH	2303	WEST	EDDY

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

2110'	185'	330'	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature <u>Mike Pippin</u> Date 9/9/16 Printed Name <u>Mike Pippin</u>
2303'			
		¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 5/26/15 Date of Survey Signature and Seal of Professional Surveyor: Filmon F. Jaramillo 12797 Certificat Number	