

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM0557370

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
LIME ROCK RESOURCES II A LP E-Mail: MIKE@PIPPINLLC.COM

8. Lease Name and Well No.
EAGLE 34 G FEDERAL 88

3. Address
1111 BAGBY STREET SUITE 4600
HOUSTON, TX 77002

3a. Phone No. (include area code)
Ph: 505-327-4573

9. API Well No.
30-015-44021-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SWNE 1495FNL 2275FEL

At top prod interval reported below SWNE 1671FNL 2219FEL

At total depth SWNE 1678FNL 2207FEL

10. Field and Pool, or Exploratory
RED LAKE-GLORIETA-YESO, NE

11. Sec., T., R., M., or Block and Survey
or Area Sec 34 T17S R27E Mer NMP

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
03/21/2017

15. Date T.D. Reached
03/27/2017

16. Date Completed
☐ D & A ☒ Ready to Prod.
04/16/2017

17. Elevations (DF, KB, RT, GL)*
3569 GL

18. Total Depth: MD 4920
TVD 4899

19. Plug Back T.D.: MD 4861
TVD 4840

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
INDUCTION&NEUTR DENSITY

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
11.000	8.625 J-55	24.0	0	438		350	84	0	0
7.875	5.500 J-55	17.0	0	4887		1000	283	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	3409							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO	3100	4806	3100 TO 3341	0.400	24	OPEN
B)			3518 TO 3841	0.400	33	OPEN
C)			4064 TO 4358	0.400	27	OPEN
D)			4440 TO 4806	0.400	31	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
3100 TO 3341	1500 GAL 15% HCL & FRACED W/31.047# 100 MESH & 225,780# 40/70 WW SAND IN SLICK WATER
3518 TO 3841	1500 GAL 15% HCL & FRACED W/29.620# 100 MESH & 262,979# 40/70 WW SAND IN SLICK WATER
4064 TO 4358	1500 GAL 15% HCL & FRACED W/31.881# 100 MESH & 230,855# 40/70 WW SAND IN SLICK WATER
4440 TO 4806	1500 GAL 15% HCL & FRACED W/30.100# 100 MESH & 276,248# 40/70 WW SAND IN SLICK WATER

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/16/2017	04/19/2017	24	→	175.0	50.0	693.0			ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→	175	50	693	286	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

ACCEPTED FOR RECORD

JUL 25 2017

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #373835 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

DAVID R. GLASS
PETROLEUM ENGINEER

RECLAMATION DUE:
OCT 16 2017

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
TANSILL	0	140	BARREN	QUEEN	859
YATES	140	337	WATER	GRAYBURG	1366
SEVEN RIVERS	337	859	OIL & GAS	SAN ANDRES	1594
GLORIETA	2952	3052	OIL & GAS	GLORIETA	2952
YESO	3051	4437	OIL & GAS	YESO	3051
GLORIETA YESO	3100	4806	OIL/GAS/WATER	TUBB	4437
TUBB	4437	4920	OIL & GAS		

32. Additional remarks (include plugging procedure):
THIS IS FOR A NEW YESO OIL WELL.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #373835 Verified by the BLM Well Information System.

For LIME ROCK RESOURCES II A LP, sent to the Carlsbad

Committed to AFMSS for processing by DUNCAN WHITLOCK on 05/03/2017 (17DW0063SE)

Name (please print) MIKE PIPPIN

Title PETROLEUM ENGINEER

Signature (Electronic Submission)

Date 04/25/2017

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****



State of New Mexico
County of Eddy

I, Matt Waldrop, certify that; I am employed by Accel Directional; that I did on the day(s) of March 21, 2017 through March 26, 2017 conduct or supervise the taking of MWD survey(s) from a depth of 450' feet to a depth of 4920' 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 Eagle 34G, Well No. Fed 88, API No. 30-015-44021 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.

Matt Waldrop

A handwritten signature of Matt Waldrop in black ink, written over a horizontal line.

Matt Waldrop
MWD Technician



SURVEY CALCULATION PROGRAM

107.02.01

Minimum Curvature

File:

OPERATOR: Lime Rock Resources										Target Information		VS Referenced to Offset from Surface				
WELL: Eagle 34G Federal Well #88										TARGET KBTVD:	5100.00	NORTH/SOUTH:	-169.94			
LOCATION: Eddy Co, NM										TARGET INCL:	0.00	EAST/WEST:	53.00			
RIG: United Drilling #33										TARGET AZM:	0.00	(Enter 0° N and 0° E for Surface)				
JOB NUMBER: TX-17-011										PROPOSED DIRECTION:		162.68	Dec / Total Corr.(+/-):		7.28	
SURVEY COMPANY					DIRECTIONAL COMPANY					COMMENTS:						
Accel Guidance					Accel Directional					API # 30-015-44021						
Directional Drillers					COORDINATORS											
Allen Hightower					C. Shipp											
Matt Waldrop																
Lime Rock Resources					Eagle 34G Federal Well #88											
		TRUE	TEMP	API	Course		Surface		CLOSURE		DLS/	BUR/	Target Calculations			
SVY	MD	INC	AZM	°F	Gamma	Length	TVD	N-S	E-W	Vert Sect	DIST	DIR	100'	100'		
													V. SEC.	BELOW (-)	RIGHT(+)	
0	0	0.0	0.0			N/A	0.00	0.00	0.00		0.00	0.00	N/A			
1	490	0.7	130.2			490	489.99	-1.93	2.29	2.53	2.99	130.20	0.14	0.14	#DIV/0!	
2	519	1.1	146.1			29	518.98	-2.28	2.58	2.94	3.44	131.47	1.61	1.38	#DIV/0!	
3	549	1.9	152.1			30	548.97	-2.96	2.97	3.71	4.19	134.86	2.71	2.67	#DIV/0!	
4	587	2.7	158.5			38	586.94	-4.35	3.59	5.22	5.64	140.42	2.21	2.11	#DIV/0!	
5	619	3.6	160.3			32	618.89	-5.99	4.21	6.97	7.32	144.92	2.83	2.81	#DIV/0!	
6	651	4.4	159.6			32	650.82	-8.09	4.97	9.20	9.50	148.41	2.50	2.50	#DIV/0!	
7	683	5.2	160.9			32	682.70	-10.61	5.88	11.88	12.13	151.02	2.52	2.50	#DIV/0!	
8	715	6.2	164.5			32	714.54	-13.65	6.81	15.05	15.25	153.47	3.32	3.13	#DIV/0!	
9	747	7.5	163.9			32	746.32	-17.32	7.85	18.87	19.01	155.60	4.07	4.06	#DIV/0!	
10	779	9.0	161.4			32	777.98	-21.70	9.23	23.46	23.58	156.95	4.82	4.69	#DIV/0!	
11	811	10.1	164.0			32	809.54	-26.77	10.80	28.77	28.86	158.02	3.69	3.44	#DIV/0!	
12	842	11.6	164.3			31	839.99	-32.38	12.40	34.60	34.67	159.05	4.84	4.84	#DIV/0!	
13	874	13.2	164.1			32	871.24	-38.99	14.27	41.47	41.52	159.90	5.00	5.00	#DIV/0!	
14	906	14.7	162.6			32	902.29	-46.38	16.48	49.18	49.22	160.44	4.82	4.69	#DIV/0!	
15	938	16.2	163.4			32	933.14	-54.53	18.97	57.71	57.74	160.82	4.73	4.69	#DIV/0!	
16	970	16.5	163.5			32	963.84	-63.17	21.54	66.71	66.74	161.17	0.94	0.94	#DIV/0!	
17	1,003	16.0	164.0			33	995.52	-72.03	24.12	75.95	75.96	161.48	1.57	-1.52	#DIV/0!	
18	1,035	16.1	163.7			32	1026.28	-80.53	26.58	84.79	84.80	161.73	0.41	0.31	#DIV/0!	
19	1,067	16.2	164.7			32	1057.01	-89.09	29.01	93.69	93.70	161.97	0.92	0.31	#DIV/0!	
20	1,099	16.6	165.4			32	1087.71	-97.82	31.34	102.72	102.72	162.24	1.39	1.25	#DIV/0!	
21	1,131	16.5	165.0			32	1118.39	-106.64	33.67	111.82	111.82	162.48	0.47	-0.31	#DIV/0!	
22	1,163	16.6	165.2			32	1149.06	-115.45	36.01	120.93	120.93	162.68	0.36	0.31	#DIV/0!	
23	1,195	17.2	166.4			32	1179.68	-124.46	38.29	130.22	130.22	162.90	2.17	1.87	#DIV/0!	
24	1,227	16.3	165.0			32	1210.32	-133.40	40.56	139.43	139.43	163.09	3.08	-2.81	#DIV/0!	
25	1,324	11.4	169.0			97	1304.47	-155.97	45.92	162.57	162.59	163.59	5.14	-5.05	#DIV/0!	
26	1,420	6.8	170.0			96	1399.24	-170.89	48.72	177.65	177.70	164.09	4.79	-4.79	#DIV/0!	
27	1,516	2.8	168.3			96	1494.88	-178.79	50.18	185.62	185.70	164.32	4.17	-4.17	#DIV/0!	
28	1,612	0.9	172.1			96	1590.83	-181.83	50.76	188.70	188.78	164.40	1.98	-1.98	#DIV/0!	
29	1,707	0.7	347.6			95	1685.83	-182.00	50.74	188.86	188.94	164.42	1.68	-0.21	#DIV/0!	
30	1,802	0.5	3.6			95	1780.82	-181.02	50.64	187.89	187.97	164.37	0.27	-0.21	#DIV/0!	
31	1,898	0.7	5.4			96	1876.82	-180.02	50.72	186.96	187.03	164.26	0.21	0.21	#DIV/0!	
32	1,998	0.5	3.2			100	1976.81	-178.98	50.80	185.99	186.05	164.15	0.20	-0.20	#DIV/0!	
33	2,095	0.7	347.4			97	2073.80	-177.98	50.70	185.00	185.06	164.10	0.27	0.21	#DIV/0!	
34	2,189	0.5	341.3			94	2167.80	-177.03	50.44	184.02	184.07	164.10	0.22	-0.21	#DIV/0!	
35	2,285	0.4	14.5			96	2263.80	-176.31	50.39	183.31	183.37	164.05	0.29	-0.10	#DIV/0!	
36	2,380	0.4	60.6			95	2358.79	-175.82	50.76	182.96	183.00	163.90	0.33	0.00	#DIV/0!	
37	2,476	0.5	64.9			96	2454.79	-175.48	51.43	182.84	182.86	163.66	0.11	0.10	#DIV/0!	
38	2,572	0.5	60.5			96	2550.79	-175.10	52.18	182.69	182.71	163.41	0.04	0.00	#DIV/0!	
39	2,668	0.3	63.5			96	2646.79	-174.78	52.77	182.56	182.57	163.20	0.21	-0.21	#DIV/0!	
40	2,764	0.2	68.5			96	2742.78	-174.60	53.15	182.51	182.51	163.07	0.11	-0.10	#DIV/0!	
41	2,860	0.4	36.6			96	2838.78	-174.27	53.50	182.30	182.30	162.93	0.26	0.21	#DIV/0!	
42	2,956	0.6	127.3			96	2934.78	-174.31	54.10	182.51	182.51	162.76	0.76	0.21	#DIV/0!	
43	3,051	0.7	119.6			95	3029.77	-174.90	55.00	183.34	183.34	162.54	0.14	0.11	#DIV/0!	
44	3,148	0.7	131.3			97	3126.77	-175.58	55.96	184.28	184.28	162.32	0.15	0.00	#DIV/0!	
45	3,244	0.7	136.7			96	3222.76	-176.39	56.81	185.31	185.32	162.15	0.07	0.00	#DIV/0!	
46	3,340	0.5	131.1			96	3318.75	-177.10	57.52	186.19	186.21	162.01	0.22	-0.21	#DIV/0!	
47	3,435	0.7	141.4			95	3413.75	-177.82	58.20	187.09	187.10	161.88	0.24	0.21	#DIV/0!	
48	3,531	0.7	123.7			96	3509.74	-178.61	59.05	188.09	188.12	161.70	0.22	0.00	#DIV/0!	
49	3,626	0.7	146.9			95	3604.74	-179.41	59.85	189.10	189.13	161.55	0.30	0.00	#DIV/0!	
50	3,723	0.4	144.6			97	3701.73	-180.19	60.37	189.99	190.03	161.48	0.31	-0.31	#DIV/0!	
51	3,818	0.7	137.5			95	3796.73	-180.89	60.96	190.83	190.88	161.38	0.32	0.32	#DIV/0!	
52	3,914	0.7	138.6			96	3892.72	-181.76	61.74	191.90	191.96	161.24	0.01	0.00	#DIV/0!	
53	4,010	0.5	128.0			96	3988.71	-182.46	62.46	192.78	192.85	161.10	0.24	-0.21	#DIV/0!	
54	4,106	0.7	122.5			96	4084.71	-183.03	63.28	193.57	193.66	160.93	0.22	0.21	#DIV/0!	
55	4,202	0.6	100.7			96	4180.70	-183.44	64.27	194.25	194.37	160.69	0.28	-0.10	#DIV/0!	
56	4,299	0.7	100.9			97	4277.70	-183.64	65.35	194.77	194.92	160.41	0.10	0.10	#DIV/0!	
57	4,395	0.4	108.3			96	4373.69	-183.86	66.25	195.24	195.43	160.19	0.32	-0.31	#DIV/0!	
58	4,491	0.3	109.3			96	4469.69	-184.05	66.80	195.59	195.80	160.05	0.10	-0.10	#DIV/0!	
59	4,587	0.2	109.7			96	4565.69	-184.19	67.20	195.84	196.06	159.96	0.10	-0.10	#DIV/0!	



07.02.01

Minimum Curvature

File:

OPERATOR: Lime Rock Resources										Target Information					VS Referenced to Offset from Surface																				
WELL: Eagle 34G Federal Well #88										TARGET KBTVD:		5100.00			NORTH/SOUTH:		-169.94																		
LOCATION: Eddy Co, NM										TARGET INCL:		0.00			EAST/WEST:		53.00																		
RIG: United Drilling #33										TARGET AZM:		0.00			(Enter 0° N and 0° E for Surface)																				
JOB NUMBER: TX-17-011																																			
SURVEY COMPANY							DIRECTIONAL COMPANY			PROPOSED DIRECTION:		162.68		Dec / Total Corr. (+/-): 7.28																					
Accel Guidance							Accel Directional			COMMENTS:																									
Directional Drillers							COORDINATORS			API # 30-015-44021																									
Allen Hightower							C. Shipp																												
Matt Waldrop																																			
Lime Rock Resources							Eagle 34G Federal Well #88																												
																Target Calculations																			
										TRUE		TEMP		API		Course		Surface		CLOSURE		DLS/		BUR/		TVD AT 0'		ABOVE (+)		RIGHT(+)					
SVY		MD		INC		AZM		°F		Gamma		Length		TVD		N-S		E-W		Vert Sect		DIST		DIR		100		100'		V. SEC.		BELOW (-)		LEFT(-)	
60		4,682		0.2		63.4						95		4660.69		-184.17		67.50		195.91		196.15		159.87		0.17		0.00		#DIV/0!		#DIV/0!		14.50	
61		4,779		0.2		17.3						97		4757.69		-183.93		67.70		195.75		196.00		159.79		0.16		0.00		#DIV/0!		#DIV/0!		14.70	
62		4,875		0.4		353.1						96		4853.69		-183.44		67.71		195.28		195.54		159.74		0.24		0.21		#DIV/0!		#DIV/0!		14.71	
63		4,920		0.4		353.1						45		4898.69		-183.13		67.67		194.97		195.23		159.72		0.00		0.00		#DIV/0!		#DIV/0!		14.67	