Submit 1 Copy To Appropriate District Office
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

NM OIL CONSERVATION ARTESIA DISTRICT
MAY 17 2016
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-43299	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
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.)	7. Lease Name or Unit Agreement Name **SIMPSON 15 B**
1. Type of Well: Oil Well ☒ Gas Well ☐ Other	8. Well Number #4
2. Name of Operator **LIME ROCK RESOURCES II-A, L.P.**	9. OGRID Number 277558
3. Address of Operator c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401	10. Pool name or Wildcat Atoka, Glorieta-Yeso (3250)
4. Well Location Unit Letter B : 230 feet from the North line and 1760 feet from the East line Section 15 Township 18-S Range 26-E NMPM Eddy County	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3336' GL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☒			
OTHER: Change Appr. APD to 3 Strings Csg & Move Loc. 100' ☒		OTHER: ☐	

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.

In order to comply with the anticipated new rules for wells in the Exhibit "A" area of E-42 and not release our contracted drilling rig, Lime Rock Resources II-A, L.P. recommends the following csg & cmt changes to our approved APD:

HOLE SIZE	CSG SIZE	DEPTH	CMT
26"	20"	80'	100
17-1/2"	13-3/8"	400'	400 sx
~~11"~~ 12¼	8-5/8"	895'	400 sx
7-7/8"	5-1/2"	4000'	200 sx lead & 625 sx tail

Our Geology dept. has estimated that the top oil show will be ~946' as per mud logs & the top of the San Andres. If the highest oil show is above 946', the csg will be raised accordingly so as to stay 50' above the highest oil show.
This well's location has been moved 100' west from the original APD.
See the attached details, new drilling plan, new C-102 & supporting data.

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 5/17/16

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

For State Use Only

APPROVED BY: _____ TITLE "Denied" DATE _____

Conditions of Approval (if any):

BY

ES
5/24/16

Lime Rock Resources II-A, L.P.
Drilling Plan

Simpson 15B #4
230' FNL 1760' FEL
(B) 15-18S-26E
Eddy County, NM

1. The elevation of the unprepared ground is 3335.7 feet above sea level.
2. The geologic name of the surface formation is Quaternary – Alluvium.
3. A rotary rig will be utilized to drill the well to 4000' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
4. Well will be drilled to a total proposed depth of 4000' MD.

5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	NA	NA
Queen	260	260
Grayburg	637	637
Premier	906	906
San Andres	946	946
Glorieta	2305	2305
Yeso	2395	2395
Tubb	3808	3808
TD	4000	4000

6. Estimated depths at which anticipated oil, gas, or other mineral bearing formations are expected to be encountered:

	MD	TVD
Yates	NA	NA
7 Rivers	NA	NA
Queen	260	260
Grayburg	637	637
Premier	906	906
San Andres	946	946
Glorieta	2305	2305
Yeso	2395	2395
Tubb	3808	3808
TD	4000	4000

7. Proposed Casing and Cement program is as follows:

Type	Hole	Casing	Wt.	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	B	Welded	80	100			Ready Mix
Surface	17-1/2"	13-3/8"	54.5	J-55	ST&C	400	400	14.8	1.35	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate	11"	8-5/8"	24	J-55	ST&C	895	400		1.4	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4000	200	12.8	1.903	(35:65) Poz/Cl C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0.2% R-3 + 6% Gel
							625	14.8	1.33	Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

8. Proposed Mud Program is as follows 400-895 FRESHWATER ZONE

Depth	0-400	400-3850	3850-4000
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.4-9.2	9.8-10.1	9.9-10.1
pH	9.0-10.5	10.0-12.0	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	28-29	32-34
MC	NC	NC	<2
Solids	NC	<2%	<3%
Pump Rate	300-500 gpm	375-425 gpm	400-425 gpm
Special		Use Poymers sticks and MF-55 Hi-Vis Sweeps as necessary	Hi Vis Sweeps, add acid and starch as req. Raise Vis to 35 for log.

9. **Pressure Control Equipment: See Attached Description and diagram of Pressure Control Equipment.**

10. **Testing, Logging and Coring Program**
Testing Program: No drill stem tests are anticipated
Electric Logging Program: SGR-DLL-CDL-CNL Quad Combo from 4000 to surf. Csg. SGR-CNL to Surf.
Coring Program: No full or sidewall cores are anticipated.

11. **Potential Hazards:**
No abnormal temperatures or pressures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 1760 psi based on 0.44 x TD. The estimated BHT is 125 degrees F.

12. **Duration of Operations:**
Anticipated spud date will be soon after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. An additional 14 days will be needed it complete the well and to construct surface facilities.

Well Name	Simpson 15B #4	**Operator:**	**Surface Location :**	230' FNL and 1760' FEL		**GL Elevation:**	3335.7			
S-T-R & Unit()	(B) 15-18S-26E	Lime Rock Resources II-A, L.P.	**BH Location :**	230' FNL and 1760' FEL		**RKB:**	3348.5			
Well Type	Vertical		**Productive Targets:**	Atoka; Glorieta-Yeso		**Frac:**				
	KOP	NA	**Target for Vertical**		**TVD:**	4000				

Geology

	7 Rivers	Queen	Grayburg	Premier	San Andres	Glorieta	Yeso	Tubb	Abo	TD
TVD	NA	260	637	906	946	2305	2395	3808	4455	4000
MD										

Casing Program

							Design Factors		
Type	**Hole Size**	**Casing Size**	**Weight**	**Grade**	**Thread**	**Depth**	**Collapse**	**Burst**	**Tension**
Conductor	26"	20"	91.5	B	Weld	80	NA	NA	NA
Surface	17-1/2"	13 -3/8"	54.5	J-55	ST&C	400	1.2	1.18	2
Intermediate	11"	8-5/8"	24	J-55	ST&C	895	1.2	1.18	2
Liner									
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4000	1.18	1.2	2

Cement Program

Casing	Depth	Slurry Vol, sx	Sacks	Density	Yield	System or Slurry Components
13 -3/8"	400	1 Slurry	400	14.80	1.35	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
8-5/8"	895	Lead	400	14.8	1.4	Cl C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
		Tail				
		Lead				
		Tail				
5-1/2"	4000	Lead	200	12.8	1.903	(35:65) Poz/Cl C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0.2% R-
		Tail	625	14.8	1.33	Cl H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

Mud Program

Depth		0-400	400-3850	3850-4000	
Mud Type		Fresh Water	Brine	Brine w/ Gel & Starch	
Properties					
	MW	8.5-9.2	9.9-10.2	9.9-10.2	
	pH	10	10-11.5	10-11.5	
	WL	NC	NC	15-20	
	Vis	28-34	30-32	32-35	
	MC	NC	NC	1	
	Solids	NC	<2%	<3%	
Pump Rate		300-350 gpm	350-400 gpm	400-450 GPM	
Special		LCM as Req	Salt Gel & MF as Req'd Pmp Hi Vis sweeps to control solids	Salt gel, Acid & MF as req. Pmp Hi Vis sweeps to control solids	

District I
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District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name

[4] Property Code	[5] Property Name	[6] Well Number
	SIMPSON 15B	4

[7] OGRID No.	[8] Operator Name	[9] Elevation
277558	LIME ROCK RESOURCES II-A, L.P.	3335.7

[10] Surface Location

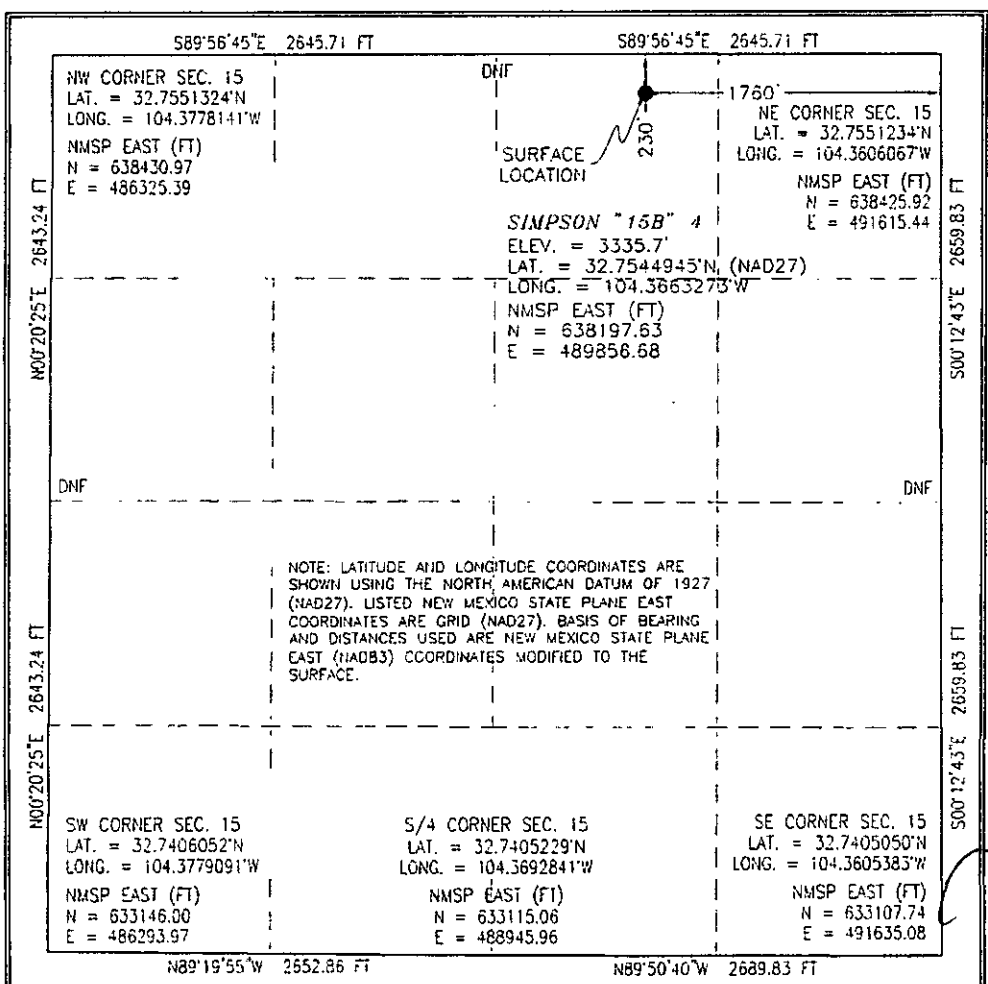
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	15	18 S	26 E		230	NORTH	1760	EAST	EDDY

[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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

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.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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.

APRIL 6, 2016

Date of Survey

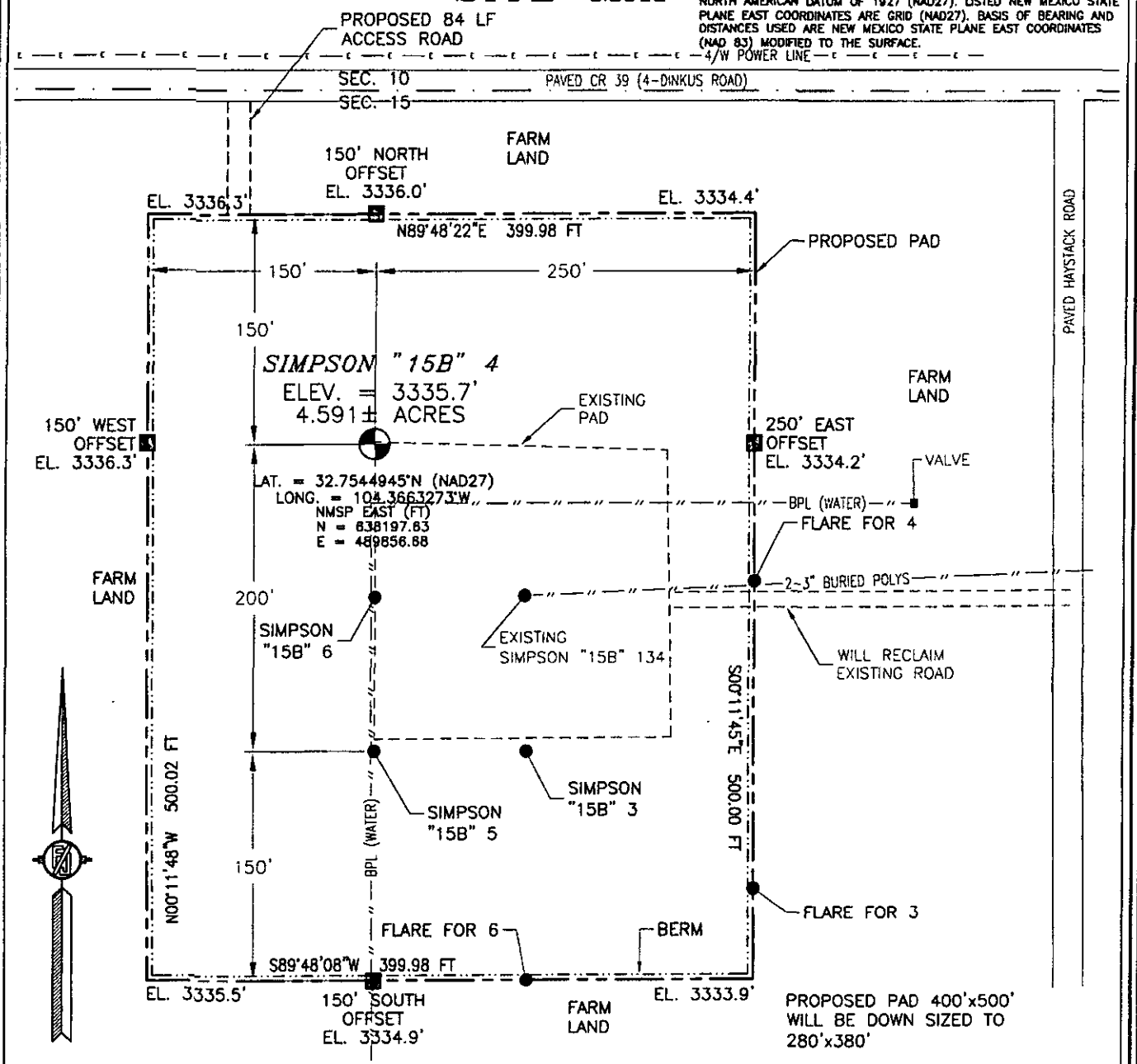
Signature and Seal of Professional Surveyor

Certificate Number: FILIMON F. JARAMILLO, PLS 12797

SURVEY NO. 31698

SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD27). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES (NAD 83) MODIFIED TO THE SURFACE.



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE ROAD 229 (HALDEMAN) AND CR 39 (FOUR DINKUS) GO WEST ON CR 39 0.3 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 84' TO THE PROPOSED NORTHWEST PAD CORNER FOR THIS LOCATION.

LIME ROCK RESOURCES II-A, L.P.

SIMPSON "15B" 4

LOCATED 230 FT. FROM THE NORTH LINE AND 1760 FT. FROM THE EAST LINE OF SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

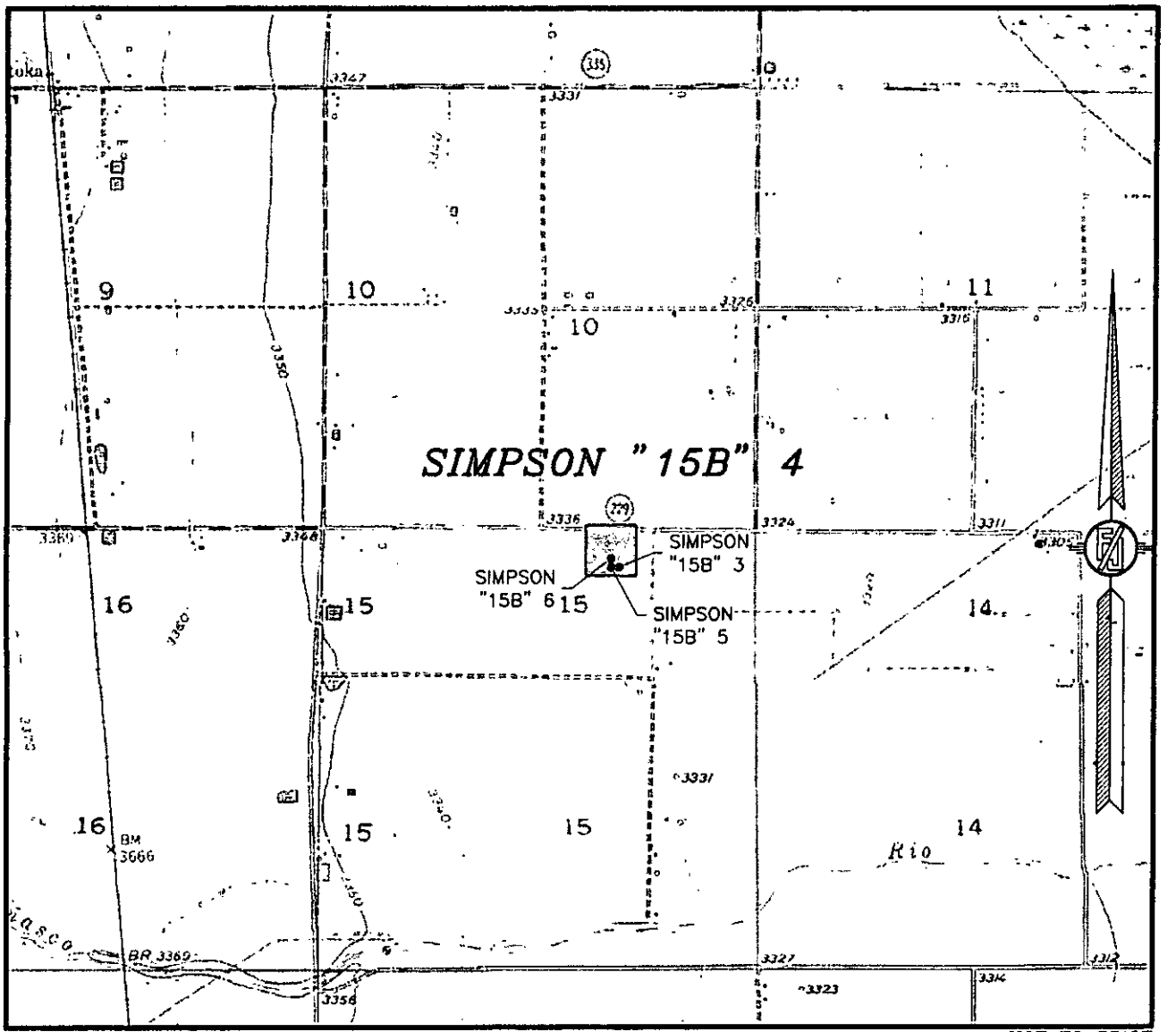
APRIL 6, 2016

SURVEY NO. 3169B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 *CARLSBAD, NEW MEXICO*

SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



USGS QUAD MAP:
SPRING LAKE

NOT TO SCALE

LIME ROCK RESOURCES II-A, L.P.

SIMPSON "15B" 4

LOCATED 230 FT. FROM THE NORTH LINE
AND 1760 FT. FROM THE EAST LINE OF
SECTION 15, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

APRIL 6, 2016

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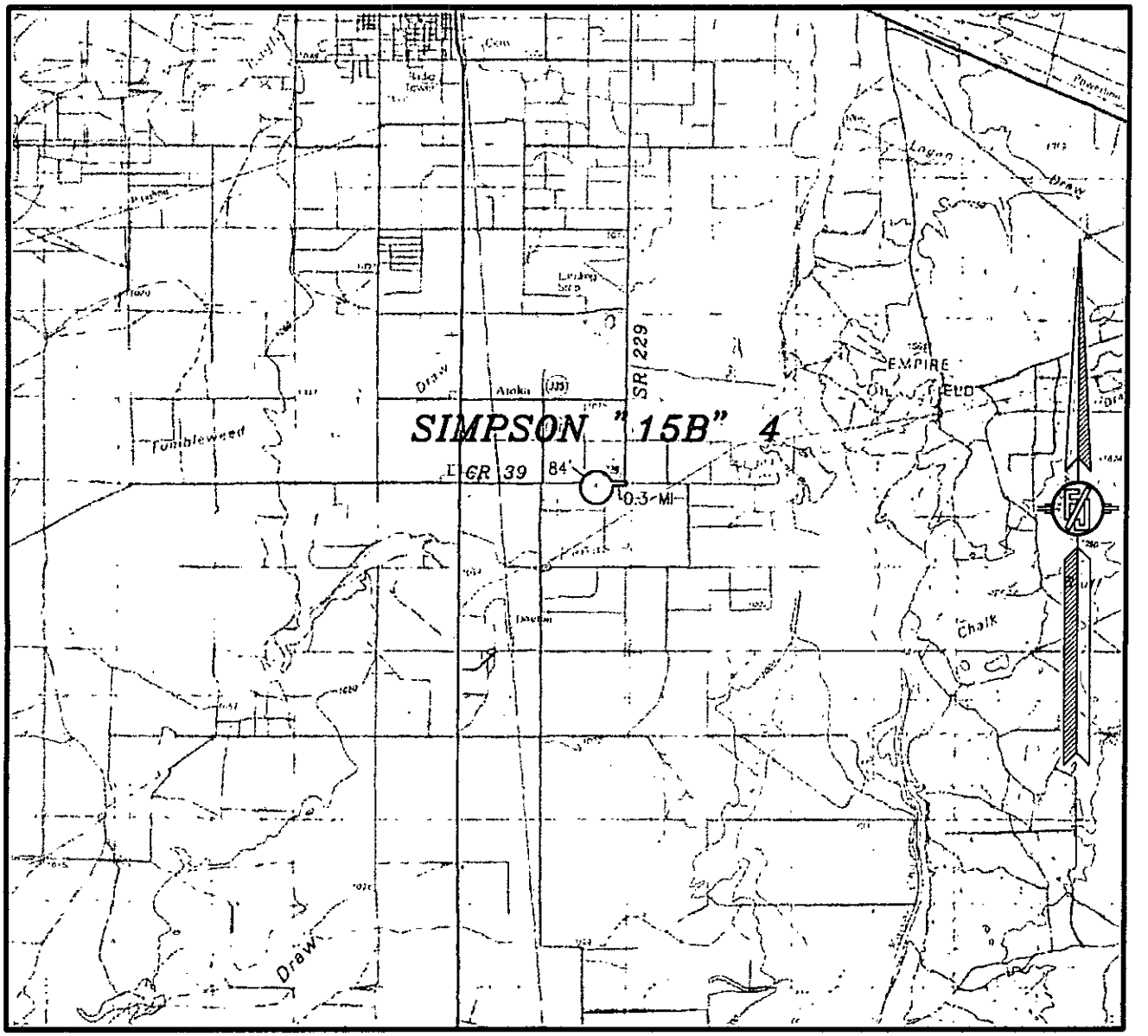
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION
FROM STATE ROAD 229 (HALDEMAN) AND CR 39 (FOUR DINKUS) GO WEST ON CR 39 0.3 OF A MILE TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS SOUTH 84' TO THE PROPOSED NORTHWEST PAD CORNER FOR THIS LOCATION.

LIME ROCK RESOURCES II-A, L.P.
SIMPSON "15B" 4
LOCATED 230 FT. FROM THE NORTH LINE AND 1760 FT. FROM THE EAST LINE OF SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

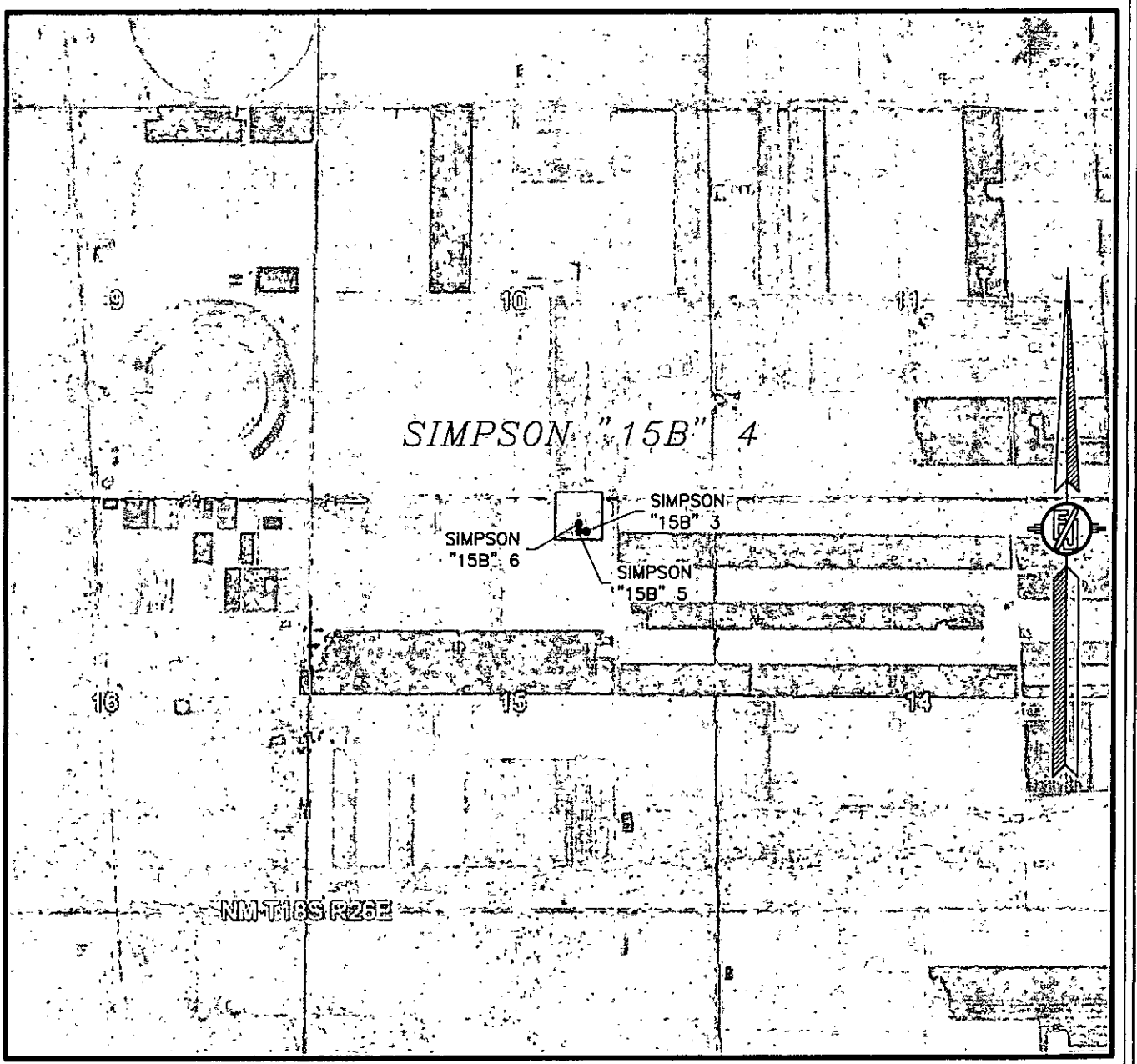
APRIL 6, 2016

SURVEY NO. 3169B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MAY 2014

LIME ROCK RESOURCES II-A, L.P.

SIMPSON "15B" 4

LOCATED 230 FT. FROM THE NORTH LINE
AND 1760 FT. FROM THE EAST LINE OF
SECTION 15, TOWNSHIP 18 SOUTH,
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EDDY COUNTY, STATE OF NEW MEXICO

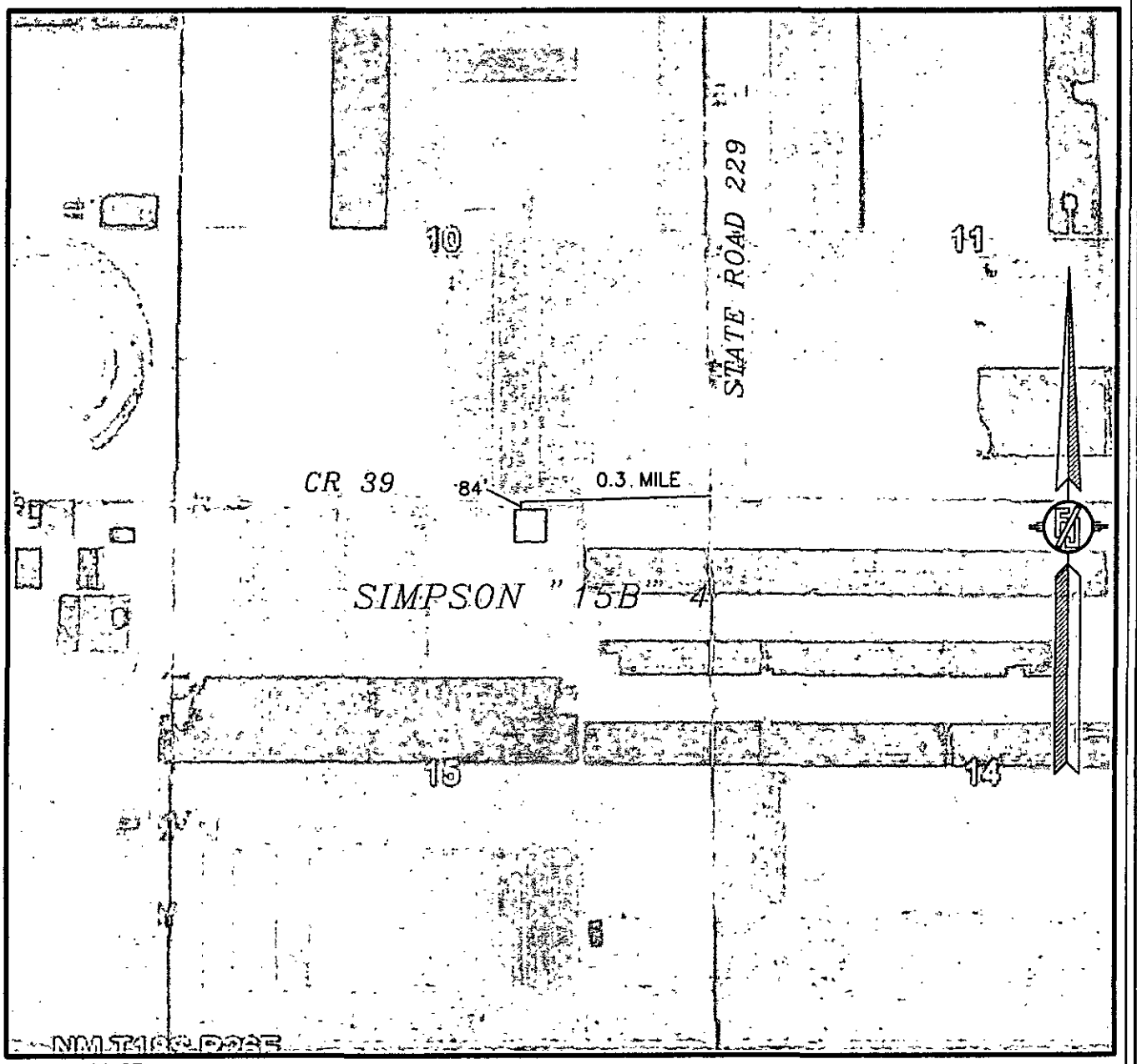
APRIL 6, 2016

SURVEY NO. 3169B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 15, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MAY 2014

LIME ROCK RESOURCES II-A, L.P.

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APRIL 6, 2016

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