

WF

LIME ROCK RESOURCES II-A, L.P.
Mike Pippin PE
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

February 6, 2019

Mike McMillan
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: REVISED C-108, SWD APPLICATION
CHOATE DAVIS 13 STATE #3- API#: 30-015-45444
Unit Letter "D" Section 13 T18S R27E
Eddy County, New Mexico

Dear Mr. McMillan,

LIME ROCK RESOURCES II-A, L.P. as operator of the above-referenced well, is submitting this revised application to permit the referenced well for produced water disposal in only the Wolfcamp-Cisco (97967).

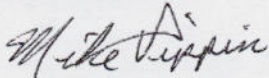
An APD (C-101) for this well was approved by the State on November 15, 2018.

On December 19, 2018, V-F Petroleum Inc. notified the NMOCD of their objection to the original SWD application. Since then, Lime Rock Resources II-A, L.P. and Jerry Gahr with V-F Petroleum Inc. have agreed that Lime Rock would not perforate above the top of the Wolfcamp at about 6500', and V-F Petroleum's objection would be withdrawn. This eliminates the Lower Abo from any injection water.

Attached is the Revised C-108 information and wellbore diagram for the application.

Should you have any questions, please contact me at 505-327-4573.

Very truly yours,



Mike Pippin

Petroleum Engineer

CHOATE DAVIS 13 STATE SWD #3

Proposed new SWD Well

Wolfcamp & Cisco

(D) Section 13, T-18-S, R-27-E, Eddy County, NM

Lat N 32.7528547 / Long W 104.2387836

Revised: 2/6/19
M. Pippin

Elevation: 3557' GL

20" 91.5# B Csg @ 40', Cmt with Ready Mix
(Circ. Cmt to surf.)

26" Hole
To 40'

4-1/2" 11.6# Duolined TBG @ 6400'

17-1/2" Hole
To 300'

13-3/8" 48# J-55 Csg @ 300'
Cmted w/350 sxs, Circ. Cmt

7 Rivers @ 405'
Queen @ 1000'
San Andres @ 1810'

12-1/4" Hole
To 2800'

9-5/8" 36# J-55 Csg @ 2800'
Cmt w/845 sxs, Circ. Cmt

Glorieta @ 3425'
Yeso @ 3620'

Abo @ 5055'

SWD NP IPC AS-A PKR @ 6400'

Wolfcamp @ 6500'

Wolfcamp Perfs
~6500'-7530'

8-3/4" Hole
To 7530'

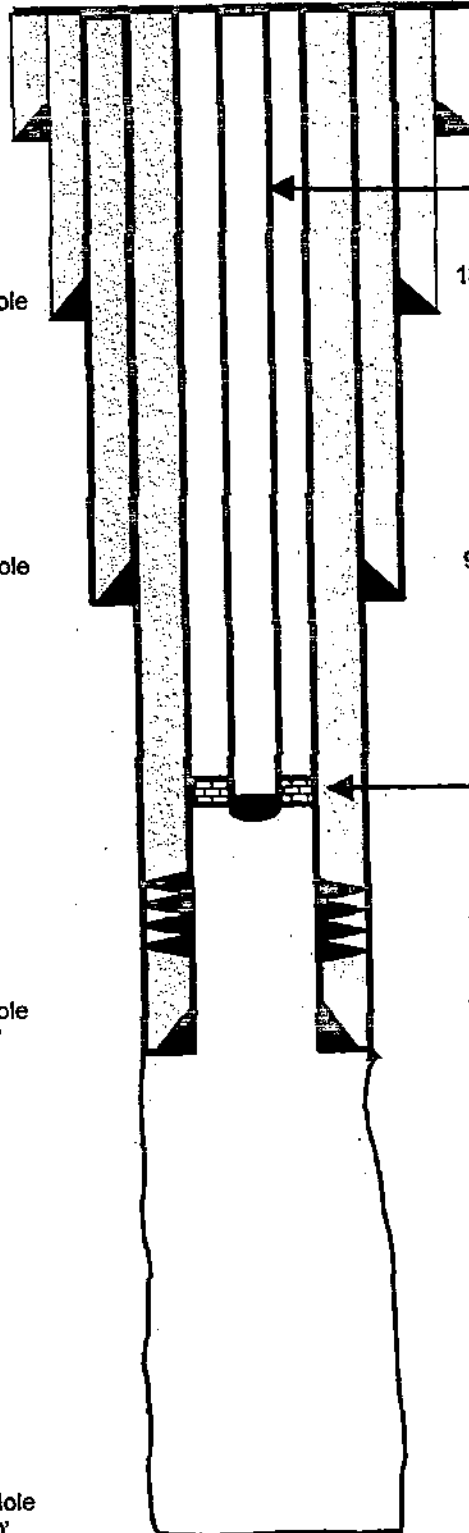
7" 26# L-80 Csg @ 7530', Cmt w/1250 sxs
Circ. Cmt

Cisco @ 7530'

Cisco OPEN HOLE

6-1/8" Hole
To 8700'

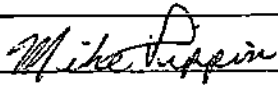
TD 8700'



APPLICATION FOR AUTHORIZATION TO INJECT REVISED

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: LIME ROCK RESOURCES II-A, L.P.
ADDRESS: 1111 Bagby Street, Houston, TX 77002
CONTACT PARTY: Mike Pippin PHONE: 505-327-4573
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. **SEE ATTACHED**
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. **There are no wells in the area of review that penetrate this well's proposed injection zones.**
- VII. Attach data on the proposed operation, including: **SEE ATTACHED**
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. **SEE ATTACHED**
- IX. Describe the proposed stimulation program, if any. **SEE ATTACHED**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. **SEE ATTACHED**
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. **SEE ATTACHED**
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Mike Pippin TITLE: Petroleum Engineer

SIGNATURE:  DATE: 6/2/19

E-MAIL ADDRESS: mike@pippinllc.com

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: LIME ROCK RESOURCES II-A, L.P.

WELL NAME & NUMBER: CHOATE DAVIS 13 STATE #3

WELL LOCATION: <u>660' FNL 600' FWL</u>	<u>D</u>	<u>13</u>	<u>T18S</u>	<u>R27E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC (SEE ATTACHED)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 350 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: Observation

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 845 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: Observation

Production Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 1250 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: Observation

Total Depth: 8700'

Injection Interval Perforations

6500' feet to 7530' Perfs
7530' feet to 8700' Open Hole

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2" 11.6# Lining Material: IPC duolined

Type of Packer: 7" IPC

Packer Setting Depth: 6400'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Wolfcamp-Cisco

3. Name of Field or Pool (if applicable): SWD; WOLFCAMP-CISCO

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Atoka-Morrow at 10,000
Grayburg at 2000'

CHOATE DAVIS 13 STATE #3
APPLICATION FOR INJECTION
Form C-108 Section III

III Well Data-On Injection Well

A. Injection Well Information

- (1) Lease CHOATE DAVIS 13 STATE
Well No #3
Location 660' FNL & 600' FWL
Sec. Twn. Rnge Sec 13, T18S-R27E, Unit Letter D
Cnty, State Eddy County, New Mexico
- (2) Casing 13-3/8", 48# J-55 @ 300' in 17-1/2" hole. Cmt w/ 350 sx
9-5/8", 36#, J-55 @ 2800'. Cmt w/ 845 sx.
7", 26#, L-80 @ 7530'. Cmt w/1250 sx
OPEN HOLE 7530'-8700'
- (3) Injection Tubing 4-1/2", 11.6#, Duolined coated tubing at 6400'.
- (4) Packer 7" IPC Packer set at 6400'

B. Other Well Information

- (1) Injection Formation: Wolfcamp and Cisco
Field Name: SWD WOLFCAMP-CISCO (97967)
- (2) Injection Interval: 6500' - 8700'
- (3) Original Purpose of Wellbore: SWD
- (4) Other Perforated intervals: NONE
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well if any.
The top of the Atoka-Morrow zone is noted at 10,000'.
The next lower oil zone top is the Grayburg at 2000'.
Atoka-Morrow 10,000'
Grayburg 2000'

CHOATE DAVIS 13 STATE #3
APPLICATION FOR PRODUCED WATER DISPOSAL
Form C-108 Section VII to XII

VII Attach data on the proposed operation, including:

- (1) Proposed average injection rate: 8,000 BWPD
Proposed maximum injection rate: 10,000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 1200 psi
Proposed max injection pressure: 1506 psi
- (4) The proposed injection fluid is produced water from the San Andres and Yeso that will be re-injected into the Wolfcamp and Cisco zones (6500'-8700'). Attached is a water analysis of San Andres and Yeso produced water that will go into this SWD well. No water compatibility issues have occurred in the other SWD wells injecting into the same zones.
- (5) We plan to submit an analysis of the disposal zone formation water during drilling operations.

VIII Geologic Injection Zone Data

The proposed injection zones are the Wolfcamp (6500'-7530') and Cisco (7530'-8700') formations. These zones are porous dolomitic carbonates interbedded with tight limestones & shales interspersed. The targeted disposal zones are basically all dolomitic porosity with porosities ranging from 4%-12% on a dolomite matrix scaling. The proposed injection interval is 2200' thick. See the attached wellbore diagram.

The proposed saltwater disposal zone, the non-productive Wolfcamp, & Cisco formations, are present between the vertical depths of 6500' and 8700' open hole TD in the subject well.

No sources of underground drinking water exist below the Cisco Formation and the deepest potential sources of underground drinking water above the Wolfcamp are less than 250' deep.

The top of the Wolfcamp Formation is approximately 6500' below the lowest possible source of underground drinking water and is separated from that potential underground source of drinking water by thousands of feet of interbedded shales, sandstones, anhydrites, salts, limestones, and dolomites.

The average depth of water report notes aquifers at an average depth of 90'. Surface casing will be set at 300' and cemented to surface.

IX Proposed Stimulation

20,000 gal 15% HCL

X Log Data

No logging program is scheduled for this well.

XI Fresh Water Analysis

Only one fresh water well was listed within one mile using the office of the State Engineer website. Stanley Jones drilled a fresh water well on 11/5/1947, but after an extensive field search, the well could not be found, and nearby current surface owners had never seen or heard of the well. We assume the well has been P&Aed.

XII Geologic / Engineering Statement

An examination of this area has determined there are no open faults or other hydrologic connection between the disposal zone and any underground drinking water. SEE ATTACHED SIGNED AFFIRMATION

XIII Proof of Notice

Proof of notice to surface owner, leasehold operators, and public legal notification is attached

LIME ROCK RESOURCES II-A, L.P.
Mike Pippin PE
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

February 6, 2019

Jerry Gahr
V-F Petroleum Inc.
500 W. Texas, Suite 350
Midland, Texas 79701

RE: REVISED C-108, SWD APPLICATION
CHOATE DAVIS 13 STATE #3_ - API#: 30-015-45444
Unit Letter "D" Section 13 T18S R27E
Eddy County, New Mexico

Dear Mr. Gahr,

As you requested, LIME ROCK RESOURCES II-A, L.P. as operator of the above-referenced well, is submitting this revised application to permit the referenced well for produced water disposal in only the Wolfcamp-Cisco (97967).

On December 19, 2018, the NMOCD was notified of your objection and protest to our original SWD application. Since then, a compromise was achieved between our two companies. We have agreed that Lime Rock will not perforate above the top of the Wolfcamp at about 6500', and your objection to the revised SWD application will be withdrawn. This eliminates the Lower Abo from any injection water. Attached is the Revised C-108 information and wellbore diagram for the application.

If you agree, please sign the attached, Notice of Objection Withdrawal, and send it to Mike McMillian with the NMOCD in Santa Fe.

Should you have any questions, please contact me at 505-327-4573.

Very truly yours,



Mike Pippin

Petroleum Engineer

**V-F Petroleum Inc.
500 W. Texas, Suite 350
Midland, Texas 79701**

Mike McMillan
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: REVISED C-108, SWD APPLICATION
Lime Rock Resources II-A, L.P.
CHOATE DAVIS 13 STATE #3_ - API#: 30-015-45444
Unit Letter "D" Section 13 T18S R27E
Eddy County, New Mexico

NOTICE OF OBJECTION WITHDRAWAL

Since Lime Rock has agreed not perforate above the top of the Wolfcamp at about 6500', V-F Petroleum hereby withdraws our objection to Lime Rock's revised SWD application. This eliminates the Lower Abo from any injection water.

Very truly yours,

Jerry Gahr

President V-F Petroleum Inc.

WF

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: LIME ROCK RESOURCES II-A, L.P. OGRID Number: 277558
 Well Name: CHOATE DAVIS 13 STATE #3 Pool: SWD: BASAL ABO- API: 30-015-45444
WOLFCAMP-CISCO Pool Code: 97967

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location - Spacing Unit - Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Mike Pippin
 Print or Type Name

Date 11/19/18

505-327-4573

Phone Number

Mike Pippin
 Signature

e-mail Address mike@pippinllc.com

LIME ROCK RESOURCES II-A, L.P.
Mike Pippin PE
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

November 19, 2018

Mike McMillan
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: C-108, SWD APPLICATION
CHOATE DAVIS 13 STATE #3 - API#: 30-015-45444
Unit Letter "D" Section 13 T18S R27E
Eddy County, New Mexico

Dear Mr. McMillan,

LIME ROCK RESOURCES II-A, L.P. as operator of the above-referenced well, is submitting this application to permit the referenced well for produced water disposal in the Lower Abo-Wolfcamp-Cisco (97967).

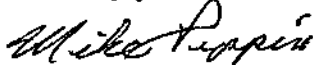
An APD (C-101) for this well has been submitted to the State for approval. There are no wells in the area of review that penetrated the proposed disposal interval.

The State of New Mexico as the surface owner and all offsetting operators have been notified.

Attached is the necessary C-108 information, data, maps, and proof of notices for the application.

Should you have any questions, please contact me at 505-327-4573.

Very truly yours, -



Mike Pippin

Petroleum Engineer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

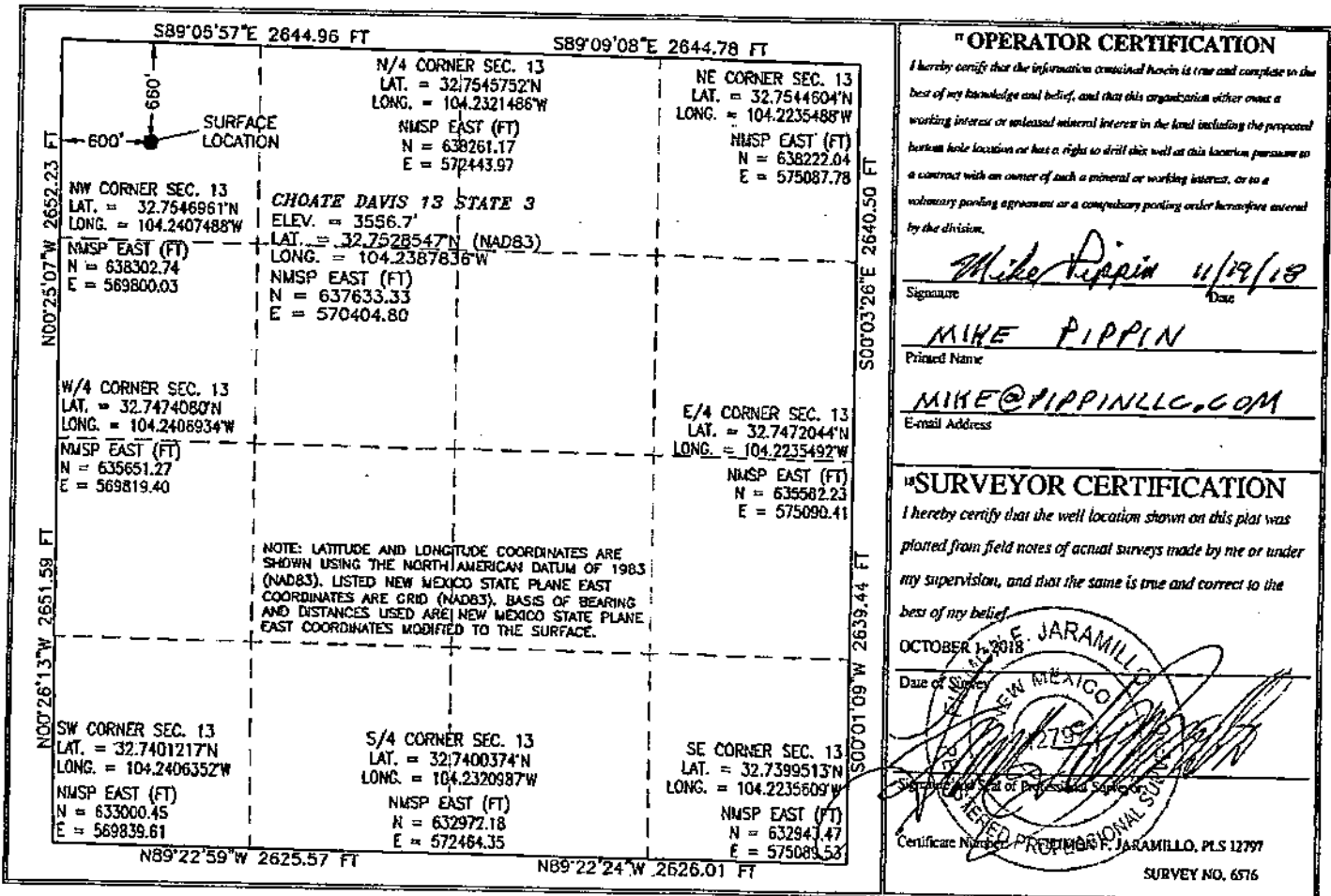
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 30-015-45444		2 Pool Code 97967		3 Pool Name SWD, BASAL ABO-WOLFCAMP-CISCO					
4 Property Code		5 Property Name CHOATE DAVIS 13 STATE			6 Well Number 3				
7 OGRID No. 277558		8 Operator Name LIME ROCK RESOURCES II-A, L.P.			9 Elevation 3556.7				
10 Surface Location									
UL or lot no. D	Section 13	Township 18 S	Range 27 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 600	East/West line WEST	County 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.



APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: LIME ROCK RESOURCES II-A, L.P.
ADDRESS: 1111 Bagby Street, Houston, TX 77002
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- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: *I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.*
- NAME: Mike Pippin TITLE: Petroleum Engineer
SIGNATURE: *Mike Pippin* DATE: 11/19/18
E-MAIL ADDRESS: mike@pippinllc.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: LIME ROCK RESOURCES II-A, L.P.WELL NAME & NUMBER: CHOATE DAVIS 13 STATE #3WELL LOCATION: 660' FNL 600' FWL D 13 T18S R27E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC (SEE ATTACHED)WELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8"
Cemented with: 350 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: ObservationIntermediate CasingHole Size: 12-1/4" Casing Size: 9-5/8"
Cemented with: 845 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: ObservationProduction CasingHole Size: 8-3/4" Casing Size: 7"
Cemented with: 1250 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: ObservationTotal Depth: 8700'Injection Interval Perforations6350' feet to 7530' Perfs
7530' feet to 8700' Open Hole

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2" 11.6# Lining Material: IPC duolined

Type of Packer: 7" IPC

Packer Setting Depth: 6300'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Lower Abo-Wolfcamp-Cisco

3. Name of Field or Pool (if applicable): SWD; BASAN ABO-WOLFCAMP-CISCO

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Atoka-Morrow at 10,000
Grayburg at 2000'

CHOATE DAVIS 13 STATE #3
APPLICATION FOR INJECTION
Form C-108 Section III

III Well Data-On Injection Well

A. Injection Well Information

- (1) Lease CHOATE DAVIS 13 STATE
Well No #3
Location 660' FNL & 600' FWL
Sec. Twn. Rndg Sec 13, T18S-R27E, Unit Letter D
Cnty, State Eddy County, New Mexico
- (2) Casing 13-3/8", 48# J-55 @ 300' in 17-1/2" hole. Cmt w/ 350 sx
9-5/8", 36#, J-55 @ 2800'. Cmt w/ 845 sx.
7", 26#, L-80 @ 7530'. Cmt w/1250 sx
OPEN HOLE 7530'-8700'
- (3) Injection Tubing 4-1/2", 11.6#, Duolined coated tubing at 6300'.
- (4) Packer 7" IPC Packer set at 6300'

B. Other Well Information

- (1) Injection Formation: Lower Abo, Wolfcamp and Cisco
Field Name: SWD Lower Abo-WOLFCAMP-CISCO (97967)
- (2) Injection Interval: 6350' - 8700'
- (3) Original Purpose of Wellbore: SWD
- (4) Other Perforated intervals: NONE
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well if any.
The top of the Atoka-Morrow zone is noted at 10,000'.
The next lower oil zone top is the Grayburg at 2000'.

Atoka-Morrow 10,000'
Grayburg 2000'

CHOATE DAVIS 13 STATE #3
APPLICATION FOR PRODUCED WATER DISPOSAL
Form C-108 Section VII to XII

VII Attach data on the proposed operation, including:

- (1) Proposed average injection rate: 8,000 BWPD
Proposed maximum injection rate: 10,000 BWPD
- (2) The system will be a closed system.
- (3) Proposed average injection pressure: 1200 psi
Proposed max injection pressure: 1506 psi
- (4) The proposed injection fluid is produced water from the San Andres and Yeso that will be re-injected into the Lower Abo, Wolfcamp and Cisco zones (6350'-8700'). Attached is a water analysis of San Andres and Yeso produced water that will go into this SWD well. No water compatibility issues have occurred in the other SWD wells injecting into the same zones.
- (5) We plan to submit an analysis of the disposal zone formation water during drilling operations.

VIII Geologic Injection Zone Data

The proposed injection zones are the Lower Abo (6350'-6700'), Wolfcamp (6700'-7750') and Cisco (7750'-8700') formations. These zones are porous dolomitic carbonates interbedded with tight limestones & shales interspersed. The targeted disposal zones are basically all dolomitic porosity with porosities ranging from 4%-12% on a dolomite matrix scaling. The proposed injection interval is 2350' thick. See the attached wellbore diagram. The proposed saltwater disposal zone, the non-productive Lower Abo, Wolfcamp, & Cisco formations, are present between the vertical depths of 6350' (Top Lower Abo) and 8700' open hole TD in the subject well. No sources of underground drinking water exist below the Cisco Formation and the deepest potential sources of underground drinking water above the Wolfcamp are less than 250' deep. The top of the Lower Abo Formation is approximately 6100' below the lowest possible source of underground drinking water and is separated from that potential underground source of drinking water by thousands of feet of interbedded shales, sandstones, anhydrites, salts, limestones, and dolomites. The average depth of water report notes aquifers at an average depth of 90'. Surface casing will be set at 300' and cemented to surface.

IX Proposed Stimulation

20,000 gal 15% HCL

X Log Data

No logging program is scheduled for this well.

XI Fresh Water Analysis

Only one fresh water well was listed within one mile using the office of the State Engineer website. Stanley Jones drilled a fresh water well on 11/5/1947, but after an extensive field search, the well could not be found, and nearby current surface owners had never seen or heard of the well. We assume the well has been P&Aed.

XII Geologic / Engineering Statement

An examination of this area has determined there are no open faults or other hydrologic connection between the disposal zone and any underground drinking water. SEE ATTACHED SIGNED AFFIRMATION

XIII Proof of Notice

Proof of notice to surface owner, leasehold operators, and public legal notification is attached

11

12

30015012010000 1500870000
HOWARD O'SCAR R
1825 @ 1270 AN ETZ MCPHERSON-FEDERAL

NAIJO REFINING 3371 JY L L C
DIAMOND-FEDERAL GAS

300152370000 300152370000
POOL FRED DRLG INC POOL FRED DRLG INC
1500 @ 1 CHUKMAEED @ COMSTOCK FE

30015008730000
MCKEE-JONES
154 @ 1 MAGRUDER

30015008730000
MCKEE ROBERT E
164 @ 1 MAGRUDER

30015013020000 3001500820000
HOWARD OSCAR R AN ST POLK B R INC
1827 @ 1734 VICKERS

300152340000 300152301000
POOL FRED DRLG INC COLLIER ENERGY INC
2008 @ 1 COMSTOCK FEDERAL @ COMSTOCK FEDERAL

300152340000 300152017000
POOL FRED DRLG INC POOL FRED DRLG INC
1530 @ 3 COMSTOCK FEDERAL @ COMSTOCK FEDERAL

300152010000
POOL FRED DRLG INC
11 @ 1 COMSTOCK FE

30015008730000
MCKEE ROBERT E
2510 @ 1 MAGRUDER

300152510000
COLLIER ENERGY INC
2400 @ 1 COMSTOCK FEDERAL

300152520000
COLLIER ENERGY INC
1625 @ 1 WHITE OAKS P

30015274370000
ECCY RESOURCES INC
1860 @ 1 BEAUREGARD AND

300152510000 300152534000 3001525110000
POOL FRED DRLG INC POOL FRED DRLG INC ARTESIA STATE
2000 @ 1 ARTESIA STATE @ ARTESIA STATE @ ANADARKO

LIME ROCK RESOURCES
CHOATE DAVIS 13 STATE

1/2 MILE RADIUS

30015008800000
WESTERN OIL FIELDS
1350 @ 2 STATE B 2047 @ 3 STATE

30015008500000
WESTERN OIL FIELDS
1872 @ 1 STATE B

30015008800000
RESLER DALE
2353 @ 1 JONES STATE

300152510000
DICK SCHMIDT INC
2310 @ 1 ANADARKO

14

13

3001540230000
LIME ROCK RESOURCES O-A LP
5000 @ 1 CHOATE-DAVIS 14 ST

30015008800000
RESLER DALE
2353 @ 1 JONES STATE

30015274370000
ANADARKO PROD CO
2000 @ 1 ARTESIA STATE

30015008800000
WESTERN OIL FIELDS
1527 @ 1 STATE B 1975 @ 1 BRAW-FEDERAL

30015008800000
CHOATE-DAVIS
1340 @ 1 STATE

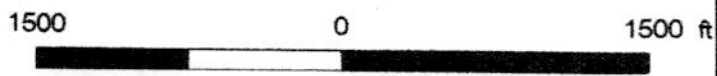
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WESTERN OIL FIELDS
1853 @ 1 STATE B

30015008800000
ANADARKO PROD CO
2125 @ 1 STATE B

30015214800000
V-P PETROLEUM INC
2100 @ 1 STATE

30015008700000
CHOATE-DAVIS
2100 @ 1 STATE

1 inch = 1000 feet



LIME ROCK RESOURCES

EAST ARTESIA AREA
CHOATE DAVIS 13 STATE 3

Author: <name>	Date: November, 2
Scale: <scale>	

CHOATE DAVIS 13 STATE SWD #3

Proposed new SWD Well

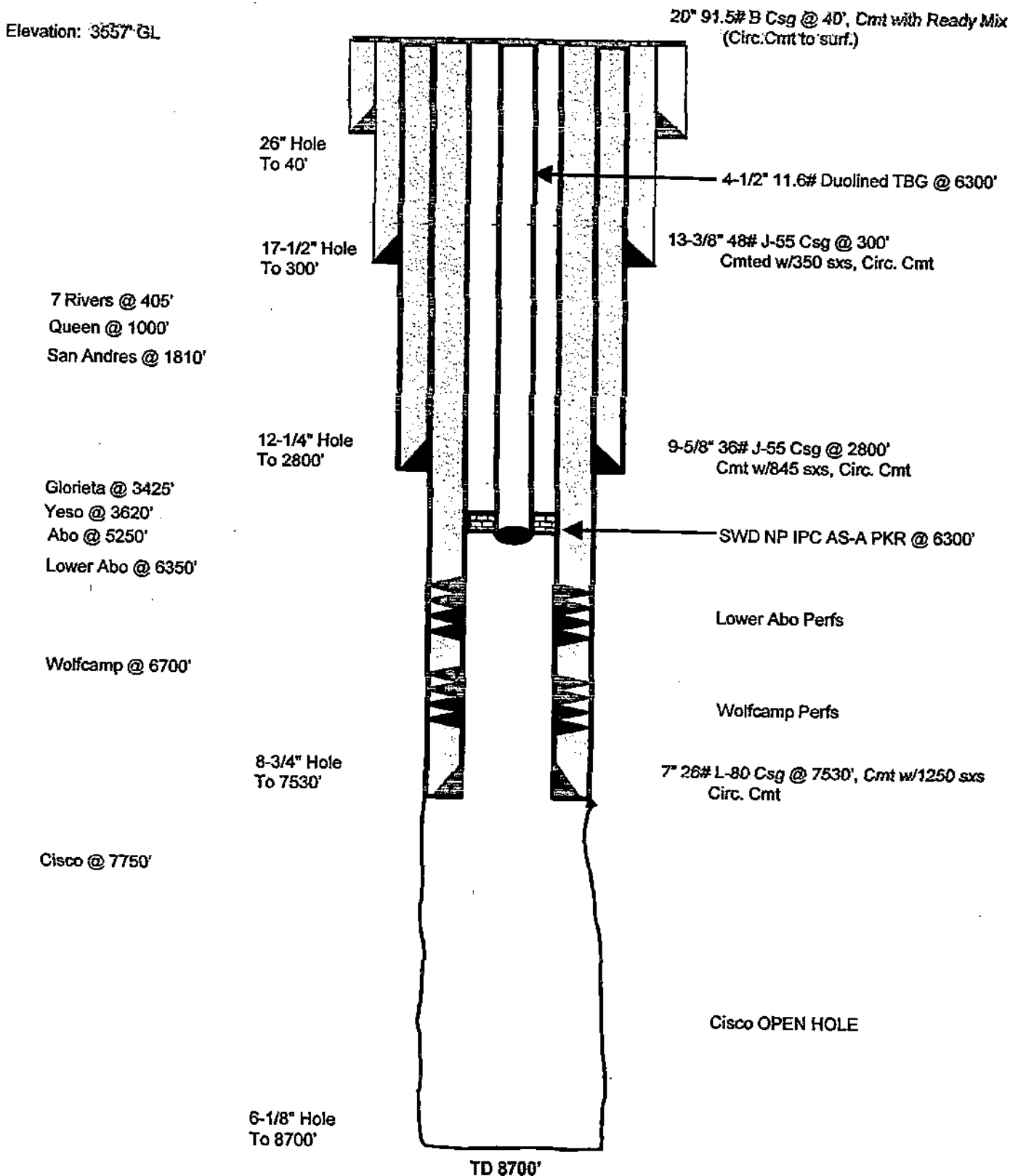
Lower Abo, Wolfcamp, & Cisco

(D) Section 13, T-18-S, R-27-E, Eddy County, NM

Today's Date: 11/19/18
M. Pippin

Lat N 32.7528547 / Long W 104.2387836

Elevation: 3657' GL





Permian Basin Area Laboratory
2101 Market Street
Midland, Texas 79703

Upstream Chemicals

REPORT DATE: 5/21/2018

COMPLETE WATER ANALYSIS REPORT ESP v. 2010

PRODUCED WATER TO BE INJECTED INTO SWD

CUSTOMER: LIMEROCK RESOURCES
DISTRICT: NEW MEXICO
AREA/LEASE: SENM
SAMPLE POINT NAME: OXY PESO 1
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: H PUMP DISCHARGE

ACCOUNT REP: GENE ROGERS
SAMPLE ID: 201801030226
SAMPLE DATE: 5/11/2018
ANALYSIS DATE: 5/21/2018
ANALYST: DG

LIMEROCK RESOURCES, SENM, OXY PESO 1

FIELD DATA		ANALYSIS OF SAMPLE									
Initial Temperature (°F):	250	Chloride (Cl ⁻):	112193.4	mg/L	3164.8	meq/L	Sodium (Na ⁺):	69216.4	mg/L	3012.2	meq/L
Final Temperature (°F):	60	Sulfate (SO ₄ ²⁻):	4922.2		102.6		Potassium (K ⁺):	625.3		16.0	
Initial Pressure (psi):	100	Borate (H ₂ BO ₃):	62.3		1.0		Magnesium (Mg ²⁺):	760.0		62.5	
Final Pressure (psi):	15	Fluoride (F ⁻):	ND				Calcium (Ca ²⁺):	3664.2		182.8	
		Bromide (Br ⁻):	ND				Strontium (Sr ²⁺):	71.0		1.6	
pH:		Nitrite (NO ₂ ⁻):	ND				Barium (Ba ²⁺):	0.0		0.0	
pH at time of sampling:	7.1	Nitrate (NO ₃ ⁻):	ND				Free Iron (Fe ²⁺):	3.3		0.1	
		Phosphate (PO ₄ ³⁻):	ND				Manganese (Mn ²⁺):	0.0		0.0	
		Silica (SiO ₂):	ND				Lead (Pb ²⁺):	0.0		0.0	
							Zinc (Zn ²⁺):	0.0		0.0	
ALKALINITY BY TITRATION:							Aluminum (Al ³⁺):	0.0		0.0	
Bicarbonate (HCO ₃ ⁻):	500.2	mg/L		meq/L	8.2		Chromium (Cr ³⁺):	ND		ND	
Carbonate (CO ₃ ²⁻):	ND						Cobalt (Co ²⁺):	ND		ND	
Hydroxide (OH ⁻):	ND						Copper (Cu ²⁺):	0.0		0.0	
							Molybdenum (Mo ²⁺):	0.0		0.0	
aqueous CO ₂ (ppm):		1.0 Formic Acid:	ND		mg/L	meq/L	Nickel (Ni ²⁺):	ND		ND	
aqueous H ₂ S (ppm):		68.0 Acetic Acid:	ND				Tin (Sn ²⁺):	ND		ND	
aqueous O ₂ (ppb):		ND Propionic Acid:	ND				Titanium (Ti ²⁺):	ND		ND	
		Duopyric Acid:	ND				Vanadium (V ²⁺):	ND		ND	
Calculated TDS (mg/L):	191965	Valeric Acid:	ND				Zirconium (Zr ²⁺):	ND		ND	
Density/Specific Gravity (g/cm ³):	1.1200						Lithium (Li):	ND		ND	
Measured Specific Gravity:	1.1258						Total Hardness:	12373		N/A	
Conductivity (mmhos):	ND										
Resistivity:	ND										
MC/F/D:	No Data										
BOPD:	No Data										
BIWPD:	No Data	Anion/Cation Ratio:	1.00								

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

Conditions		Rarite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amnt (ppb)	Index	Amnt (ppb)	Index	Amnt (ppb)	Index	Amnt (ppb)
80°F	15 psi		0.000	-1.61	108.195	0.22	893.228	-0.09	314.291
99°F	24 psi		0.000	1.64	108.414	0.24	930.418	0.18	587.676
118°F	34 psi		0.000	1.68	109.112	0.24	936.783	0.27	821.848
137°F	43 psi		0.000	1.73	109.881	0.24	928.540	0.36	1031.518
156°F	53 psi		0.000	1.79	110.664	0.23	913.204	0.44	1221.834
174°F	62 psi		0.000	1.84	111.477	0.23	894.158	0.53	1394.313
193°F	72 psi		0.000	1.89	112.345	0.22	872.320	0.63	1549.119
212°F	81 psi		0.000	1.94	113.381	0.21	846.884	0.72	1686.120
231°F	91 psi		0.000	2.00	114.574	0.20	815.697	0.81	1805.379
250°F	100 psi		0.000	2.05	115.831	0.19	775.441	0.91	1907.368

Conditions		Calcite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amnt (ppb)	Index	Amnt (ppb)	Index	Amnt (ppb)	Index	Amnt (ppb)
80°F	15 psi	0.25	22.927	-0.79	0.000	2.95	1.832	0.17	0.762
99°F	24 psi	0.26	23.437	-0.80	0.000	2.78	1.831	0.25	1.022
118°F	34 psi	0.26	23.547	-0.81	0.000	2.67	1.830	0.33	1.262
137°F	43 psi	0.26	23.497	-0.81	0.000	2.60	1.829	0.41	1.448
156°F	53 psi	0.26	23.458	-0.82	0.000	2.54	1.829	0.48	1.584
174°F	62 psi	0.26	23.546	-0.83	0.000	2.50	1.828	0.53	1.680
193°F	72 psi	0.27	23.829	-0.83	0.000	2.47	1.828	0.57	1.744
212°F	81 psi	0.28	24.327	-0.84	0.000	2.46	1.827	0.60	1.791
231°F	91 psi	0.29	25.021	-0.84	0.000	2.46	1.827	0.62	1.820
250°F	100 psi	0.30	25.862	-0.85	0.000	2.46	1.828	0.63	1.830

Note 1: When assessing the severity of the scale problem, both the Saturation Index (SI) and amount of scale must be considered.
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity; HCO₃ is not included in the calculations.

ScaleSoft Pitzer™
SNP2018

Comments:

Statement of Affirmation

I, *Stan Bishop*, affirm that Lime Rock Resources has examined available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between disposal zones and any underground sources of drinking water.

Signed: *Stan Bishop*
Date: 11/1/2018



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 04048	1	4	4	14	18S	27E	570841	3623030*

Driller License:		Driller Company:	
Driller Name:	STANLEY JONES		
Drill Start Date:	11/05/1947	Drill Finish Date:	01/03/1948
Log File Date:	06/02/1959	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Depth Well:	2096 feet
		Plug Date:	
		Source:	Artesian
		Estimated Yield:	
		Depth Water:	

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Affidavit of Publication

No. 24911

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that he is the **Publisher** of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks/day on the same

day as follows:

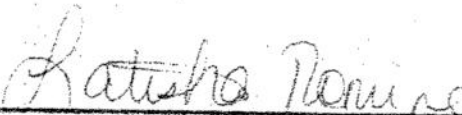
First Publication	November 16, 2018
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this 16th day of November 2018



OFFICIAL SEAL
Lillian Romine
NOTARY PUBLIC - STATE OF NEW MEXICO

My commission expires 5/12/2019



Lillian Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

CHOATE DAVIS 13 STATE SW #3, --
SWD Application - Form C-100

LIME ROCK RESOURCES II-A, L.P., 1111 Bagby St, Suite 4600, Houston, TX 77002, contact: Mike Pippin 505-327-4573 is seeking administrative approval from the NMOCD for produced water disposal: CHOATE DAVIS 13 STATE #3 is located in Sec 13, T18S, R27E, 660' FNL & 600' FWL, Eddy County, NM. Proposed injection interval is the Abo, Wolfcamp and Cisco formations with perforations from about 5055' through the open hole to a TD of 8700' with an estimated maximum daily injection volume of produced formation water of 10,000 bbls per day and a maximum injection pressure of 1506 psi. Any objections regarding this application must file their objections or request for hearing with the NMOCD, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., Nov. 16, 2018 Legal No. 24911.

LIME ROCK RESOURCES II-A, L.P.

c/o Mike Pippin LLC
505-327-4573 (phone)
Email: mike@pippinllc.com

LEGAL NOTICE

CHOATE DAVIS 13 STATE SWD #3 -- SWD Application -- Form C-108

LIME ROCK RESOURCES II-A, L.P., 1111 Bagby St, Suite 4600, Houston, TX 77002, contact: Mike Pippin 505-327-4573 is seeking administrative approval from the NMOCD for produced water disposal: CHOATE DAVIS 13 STATE #3 is located in Sec 13, T18S, R27E, 660' FNL & 600' FWL, Eddy County, NM. Proposed injection interval is the Abo, Wolfcamp and Cisco formations with perforations from about 5055' through the open hole to a TD of 8700' with an estimated maximum daily injection volume of produced formation water of 10,000 bbls per day and a maximum injection pressure of 1508 psi. Any objections regarding this application must file their objections or request for hearing with the NMOCD, 1220 South St. Frances Drive, Santa Fe, NM 87505 within 15 days.

LIME ROCK RESOURCES II-A, L.P.
Mike Pippin
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

November 19, 2018.

RE: C-108 Application for SWD Well
CHOATE DAVIS 13 STATE #3, 30-015-45444
Unit Letter D Section 13 T18S R27E
Eddy County, New Mexico

VIA CERTIFIED MAIL
To all Interest Owners:

In accordance with the New Mexico Oil Conservation Division Rule 19.15.26.8 governing water disposal wells, you are hereby notified that LIME ROCK RESOURCES II-A, L.P. as operator of the above-referenced well, has submitted an application to permit the referenced well for produced water disposal in the Lower Abo, Wolfcamp, and Cisco.

An APD (C-101) for this well has been submitted to the State for approval. There are no wells in the area of review that penetrated the proposed disposal interval.

Any objections or requests that a hearing be held regarding this application must be submitted within 15 days to the NMOCD at 1220 South St. Frances Drive, Santa Fe, NM 87505.

Should you have any questions or concerns, please contact me at 505-327-4573 and/or the NMOCD at 505-476-3467.

Sincerely,
LIME ROCK RESOURCES II-A, L.P.

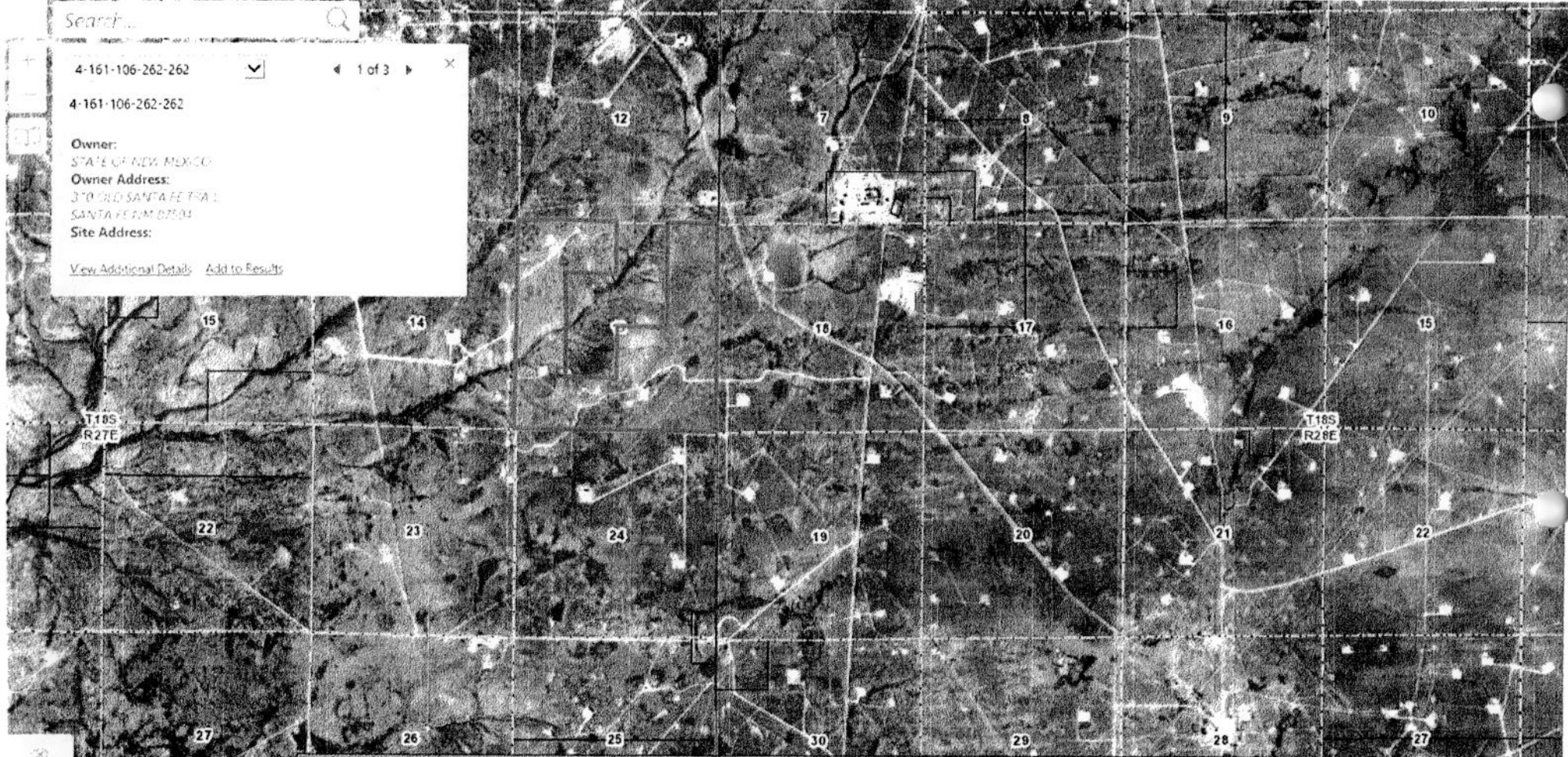
Mike Pippin

Mike Pippin PE
Petroleum Engineer

Enclosures

APPLICATION FOR SWD
OFFSET OPERATORS WITHIN 1/2 MILE OF
CHOATE DAVIS 13 STATE COM #3
LIME ROCK RESOURCES II-A, L.P.

OGRID	OPERATOR	ADDRESS
2336	BILL L MILLER	PO BOX 3396, EVERGREEN, CO 80437
3420	C O FULTON	PO BOX 1176, ARTESIA, NM 88211
24010	V-F PETROLEUM INC	PO BOX 1889, MIDLAND, TX 79702
246205	HARLOW ENTERPRISES LLC	26 CHALK BLUFF RD, ARTESIA, NM 88210
371484	ROVER OPERATING, LLC	55 OLD SANTA FE TRAIL, SANTA FE, NM 87501
372279	LLJ VENTURES, LLC DBA MARKER OIL & GAS	PO BOX 3188, ROSWELL, NM 88202



Search...

4-161-106-262-262 1 of 3

4-161-106-262-262

Owner:
STATE OF NEW MEXICO

Owner Address:
370 OLD SANTA FE TRAIL
SANTA FE, NM 87504

Site Address:

[View Additional Details](#) [Add to Results](#)

7016 0910 0001 2366 7478

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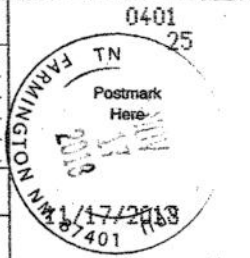
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ROSELLE, NM 88202

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\$2.75
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 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.71
Total Postage and Fees \$6.91



Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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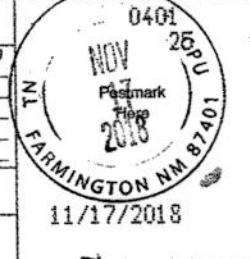
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ARTESIA, NM 88210

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\$2.75
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 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.71
Total Postage and Fees \$6.91



Sent To
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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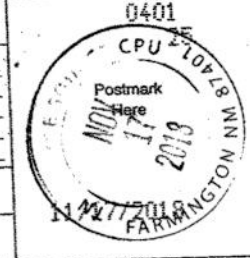
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CARLSBAD, NM 88220

OFFICIAL USE

Certified Mail Fee \$3.45
\$2.75
Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$0.00
 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.71
Total Postage and Fees \$6.91



Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0910 0001 2366 5978

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

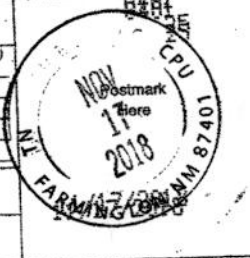
For delivery information, visit our website at www.usps.com®.

EVERGREEN, CO 80437

OFFICIAL USE

Certified Mail Fee \$3.45
\$2.75
Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$0.00
 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.71
Total Postage and Fees \$6.91



Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®
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9865 9962 1000 0160 9102

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ARTESIA NM 88211

OFFICIAL USE

Certified Mail Fee \$3.45

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$2.75

Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$0.71

Total Postage and Fees \$6.91

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NOV 17 2018
FARMINGTON NM 87401

Sent To *C.O. Fulton*

Street and Apt. No. or PO Box No. *PO Box 1176*

City, State, ZIP+4® *Artesia NM 88211*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

9009 9962 1000 0160 9102

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MIDLAND TX 79702

OFFICIAL USE

Certified Mail Fee \$3.45

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$2.75

Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$0.71

Total Postage and Fees \$6.91

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NOV 17 2018
FARMINGTON NM 87401

Sent To *V.F. Petroleum Inc*

Street and Apt. No. or PO Box No. *PO Box 1889*

City, State, ZIP+4® *Midland TX 79702*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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ARTESIA NM 88211

OFFICIAL USE

Certified Mail Fee \$3.45

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$2.75

Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$0.71

Total Postage and Fees \$6.91

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NOV 17 2018
FARMINGTON NM 87401

Sent To *Harlow Enterprises LLC*

Street and Apt. No. or PO Box No. *16 Chalk Bluff Rd*

City, State, ZIP+4® *Artesia NM 88210*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

9009 9962 1000 0160 9102

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

SANTA FE NM 87501

OFFICIAL USE

Certified Mail Fee \$3.45

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$2.75

Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$0.00

Postage \$0.71

Total Postage and Fees \$6.91

Postmark Here
NOV 17 2018
FARMINGTON NM 87401

Sent To *Rover Operating LLC*

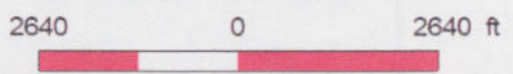
Street and Apt. No. or PO Box No. *55 Old Santa Fe Mail*

City, State, ZIP+4® *Santa Fe NM 87501*

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



1 inch = 2640 feet



**EAST ARTESIA AREA
CHOATE DAVIS 13 STATE 3**

Author: <name>	Date: 1 November, 2018
Scale: <scale>	