

DATE IN 5/6/15	SUSPENSE 5/22/15	ENGINEER WVJ	LOGGED IN 5/7/15	TYPE SWD	APP NO. NWJ 1512755477
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- 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

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] 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.

CRAIG SPARKMAN  
 Print or Type Name

*Craig Sparkman*  
 Signature

OPERATIONS ENG. 4/9/15  
 Title Date

csparkman@legacylp.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance ☒ Disposal Storage  
Application qualifies for administrative approval? ☒ Yes No
- II. OPERATOR: LEGACY RESERVES OPERATING LP  
ADDRESS: P.O. BOX 10848, MIDLAND, TX 79702  
CONTACT PARTY: CRAIG SPARKMAN PHONE: 432/689-5200
- 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.
- 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.
- VII. Attach data on the proposed operation, including:
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.
- IX. Describe the proposed stimulation program, if any.
- \*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.
- 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.
- 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: CRAIG SPARKMAN TITLE: OPERATIONS ENGINEER  
SIGNATURE: Craig Sparkman DATE: 4/9/15  
E-MAIL ADDRESS: csparkman@legacylp.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.

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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.



Legacy Reserves Operating LP, P.O. Box 10848, Midland, Texas 79702

RECEIVED

2015 MAY -4

April 27, 2015

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

RE: Application for Authorization to Inject  
Lea Unit #2  
Lea (Devonian) Field  
Lea County, New Mexico

Ladies and Gentlemen:

30-025-02428

Attached is the referenced application to convert Lea Unit #2 to water injection in the Devonian from 14,432'-14,501'. Attached are the following:

- 1) The "Application for Authorization to Inject" form C-108.
- 2) The "Injection Well Data Sheet".
- 3) Two maps showing the wells and leases within two miles of the proposed injection well and the half-mile radius around the proposed injection well, which defines the well's area of review. All wells within one-half mile of the proposed injection well are identified on the map.
- 4) A table of all wells within the half-mile radius area of review around the proposed injection well. Legacy Reserves Operating LP operates all wells within this half-mile radius. Two wells within this half-mile radius are plugged and abandoned, wells Lea Unit #1 and Lea Unit #1D; current wellbore diagrams of each of those wells are attached.
- 5) An affidavit of publication signed by the publisher that notice of the application was published in a newspaper of general circulation in Lea County, New Mexico. A copy of the newspaper notice is also included.
- 6) Current and proposed wellbore diagrams of the Lea Unit #2.
- 7) Geological data on the Lea Unit #2, including a log section.
- 8) Engineering data on the Lea Unit #2.

A notice of this application was published in the Hobbs News-Sun on April 14, 2015. A copy of this application was sent by certified mail to the surface owner, Kenneth Smith, Inc. on or before April 27, 2015. Legacy Reserves Operating LP operates all wells within the half-mile radius area of review; therefore, no offset operator to the Lea Unit was notified.

If there are any questions regarding this application or if any additional information is needed, please contact me at 432/689-5201 or by email at [csparkman@legacyp.com](mailto:csparkman@legacyp.com). Thank you.

Sincerely,

  
Craig Sparkman  
Operations Engineer

CAS

Attachments

cc: NMOCD District Office – Hobbs  
Kenneth Smith, Inc.

## INJECTION WELL DATA SHEET

OPERATOR: LEGACY RESERVES OPERATING LPWELL NAME & NUMBER: LEA UNIT #2WELL LOCATION: 1950' FNL, 1950' FWL  
FOOTAGE LOCATION

UNIT LETTER

12  
SECTION205  
TOWNSHIP34E  
RANGEWELLBORE SCHEMATICSEE THE ATTACHED  
CURRENT AND PROPOSED  
WELLBORE DIAGRAMSWELL CONSTRUCTION DATASurface CasingHole Size: 16" Casing Size: 13 3/8"Cemented with: 600 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: VISUALIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8"Cemented with: 3,000 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: 445' Method Determined: TEMP. SURVEYProduction CasingHole Size: INSIDE 7" CASING Casing Size: 5"Cemented with: 900 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: DESIGNED TO BE SURFACE Method Determined: \_\_\_\_\_Total Depth: 14,501'Injection Interval14,432' feet to 14,501'Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 7/8", 6.5 #, N-80 Lining Material: INTERNALLY PLASTIC COATINGType of Packer: ARROWSET IXPacker Setting Depth: 14,400'

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

Additional Data

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

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

2. Name of the Injection Formation: DEVONIAN

3. Name of Field or Pool (if applicable): LEA (DEVONIAN)

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. BONE SPRING 9590'-9620' CEMENTED WITH 250 SX, MORROW (PENN) 12,894' - 13,156' CEMENTED WITH 75 SX - BOTH OF THESE INTERVALS WILL BE ISOLATED BY A 5" CEMENTED LINER INSIDE 7" CASING.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: BONE SPRING +/- 9600', MORROW (PENNSYLVANIAN) +/- 12,900'



## Lea Unit #2

LOCATION: Sec 12, T20S, R34E

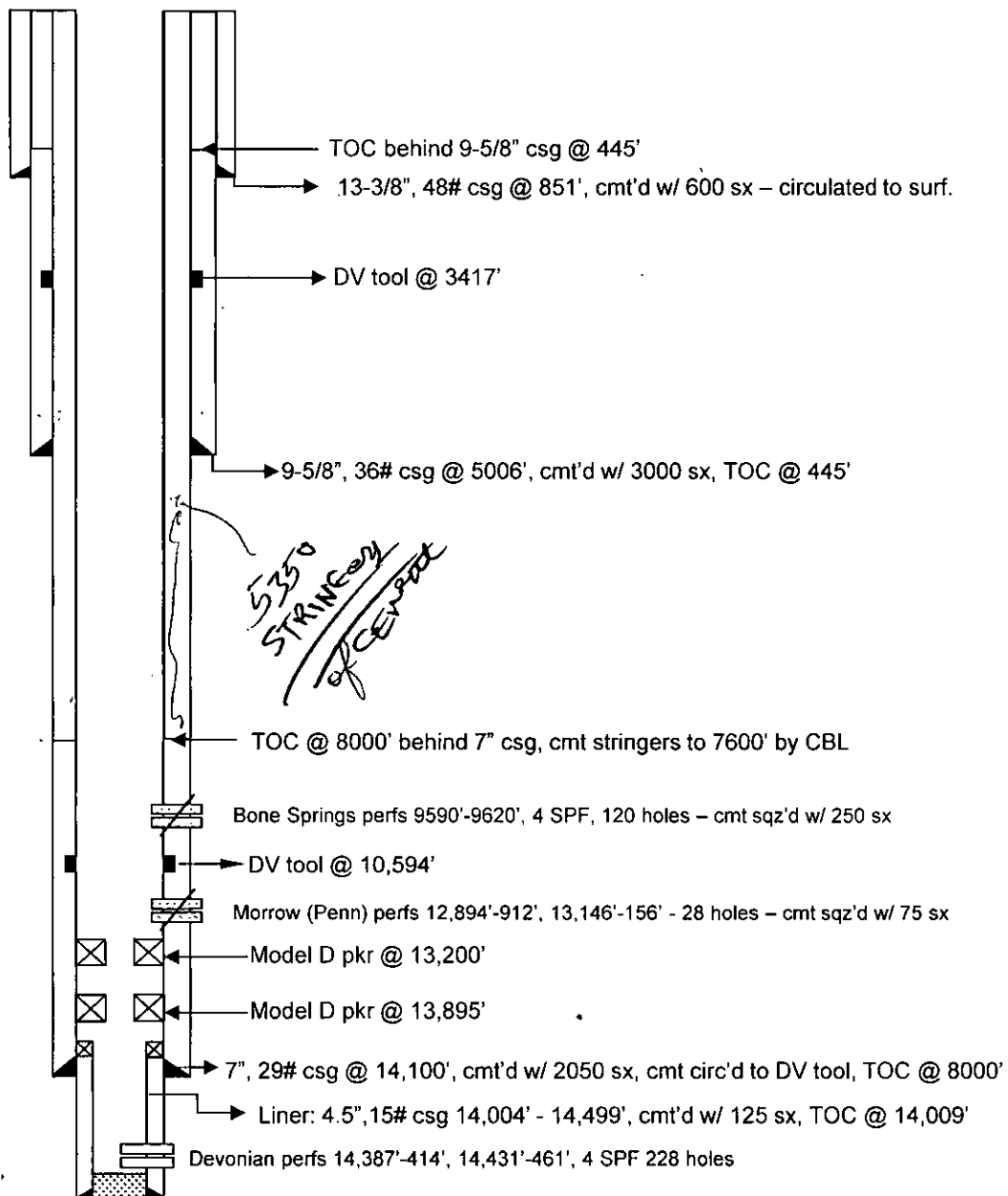
### Current Wellbore Diagram

FIELD: LEA  
LEASE: LEA UNIT  
COUNTY: LEA  
STATE: NEW MEXICO

GL: 3667'  
KB: 3688'  
SPUD DATE: 9/15/60  
API No: 30-025-02428

DATE: 4/24/2015  
BY: CAS

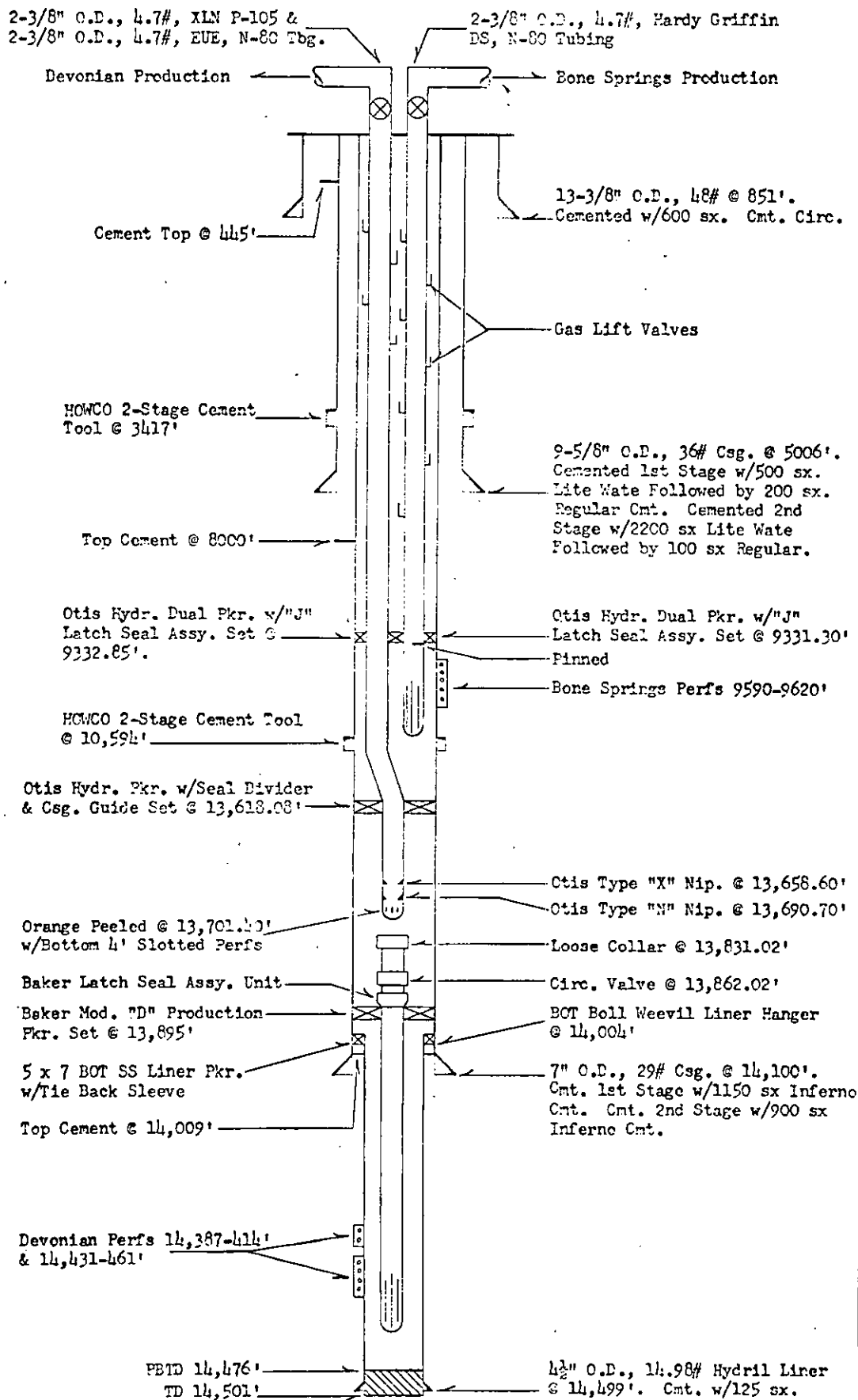
LOCATION: 1950' FNL & 1950' FWL, SEC. 12, T20S, R34E



PBTD: 14,476'

TD: 14,501'

MARATHON OIL COMPANY  
 "Diagrammatic Sketch of Mechanical Equipment Used in Dual Completion"  
 Lea Unit, Well No. 2  
 Unit F, Sec. 12, T-20-S, R-34-E  
 Lea County, New Mexico  
 Revised 6-15-64







## Lea Unit #2

LOCATION: Sec 12, T20S, R34E

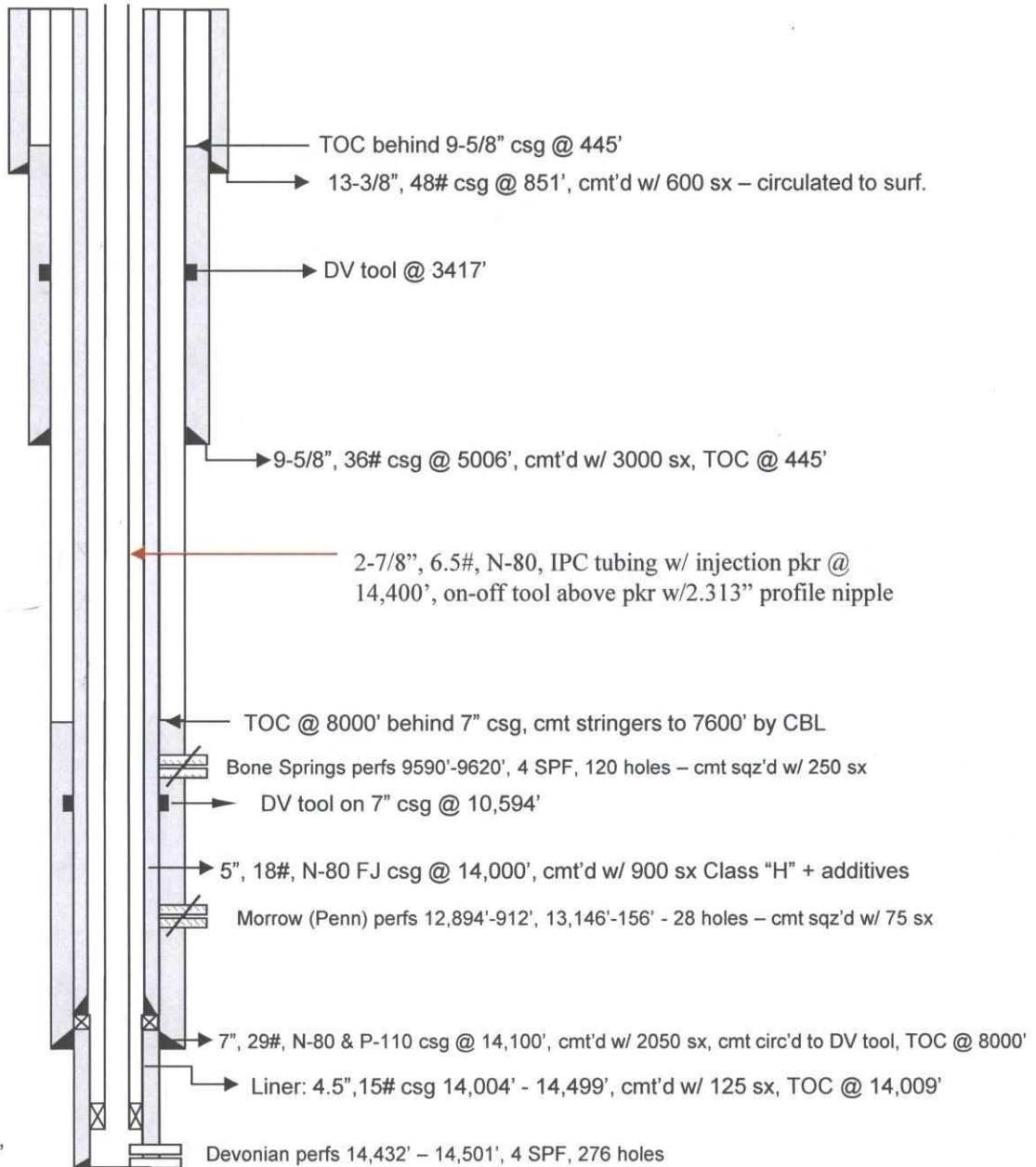
### Proposed Wellbore Diagram

FIELD: LEA  
LEASE: LEA UNIT  
COUNTY: LEA  
STATE: NEW MEXICO

GL: 3667'  
KB: 3688'  
SPUD DATE: 9/15/60  
API No: 30-025-02428

DATE: 4/24/2015  
BY: CAS

LOCATION: 1950' FNL & 1950' FWL, SEC. 12, T20S, R34E



PBTD: 14,501'

TD: 14,501'

## GEOLOGICAL DESCRIPTION

### DEVONIAN FORMATION

#### LEA UNIT #2

Rock type: Dolomite

Thickness: At least 69' in Lea Unit #2

Depth: 14,432'-14,501'

Porosity: 8 to 15%

Permeability: Highly variable from 1 to 500 md; higher in secondary porosity, vuggy or fractured intervals

Reservoir description: Anticline bounded by high-angle faults, secondary porosity development is common, rock can be vuggy and fractured, underlying water aquifer is common and usually actively recharging

Advantages for water injection:

- 1) Injection interval deep below the surface, allowing for generally low surface water injection pressures because of the great hydrostatic fluid column.
- 2) A water aquifer is present; therefore, water injection or water disposal will simply supplement the natural recharge of the underlying aquifer.
- 3) More than 9,000' below the Capitan Reef, the deepest potential source of brackish water that might be economically used as a source of drinking water or as a source of water for hydraulic fracturing. There are no faults that could potentially transmit injection water into any underground sources of drinking water.
- 4) Highly porous and permeable allowing for a high volume of water injection capacity without approaching or exceeding fracture pressure. An acid stimulation using up to 100 gallons per foot of perforated injection interval is planned prior to initiating water injection.
- 5) Lea Unit #2 was the last Devonian producer until July 2013, when it reached its economic producing limit of 5 BOPD, 10 MCFPD and 1,135 BWPD (99.6% water cut). (May 2014)
- 6) There are no known active fresh water wells within one mile of the Lea Unit #2.

Planned maximum injection rate: 10,000 barrels of water per day (BWPD)

Planned maximum injection pressure: 3,000 pounds per square inch (psi)

# WELEX



22

## RADIOACTIVITY LOG

COMPANY THE OHIO OIL  
COMPANY  
WELL LEA UNIT # 2  
FIELD UNDESIGNATED (LEA DEV.)  
County LEA  
State NEW MEXICO  
File

COMPANY THE OHIO OIL COMPANY

WELL LEA UNIT # 2

FIELD UNDESIGNATED (LEA DEVONIAN)

COUNTY LEA STATE NEW MEXICO

Location  
1980' FNL 1980' FWL  
SEC. 12 TWP. 20-S  
RGE. 34-E

Other Logs  
IND-ELEC  
CONT-CAL  
FORXO

Sec. Twp. Rge.

Elevation

Permanent Datum KB 19.3' ABOVE BRADENHEAD FLANGE Elev. 3666.85

KB 3686.5

Log Measured From KELLY BUSHING

DF 3685

Drilling Measured From KELLY BUSHING

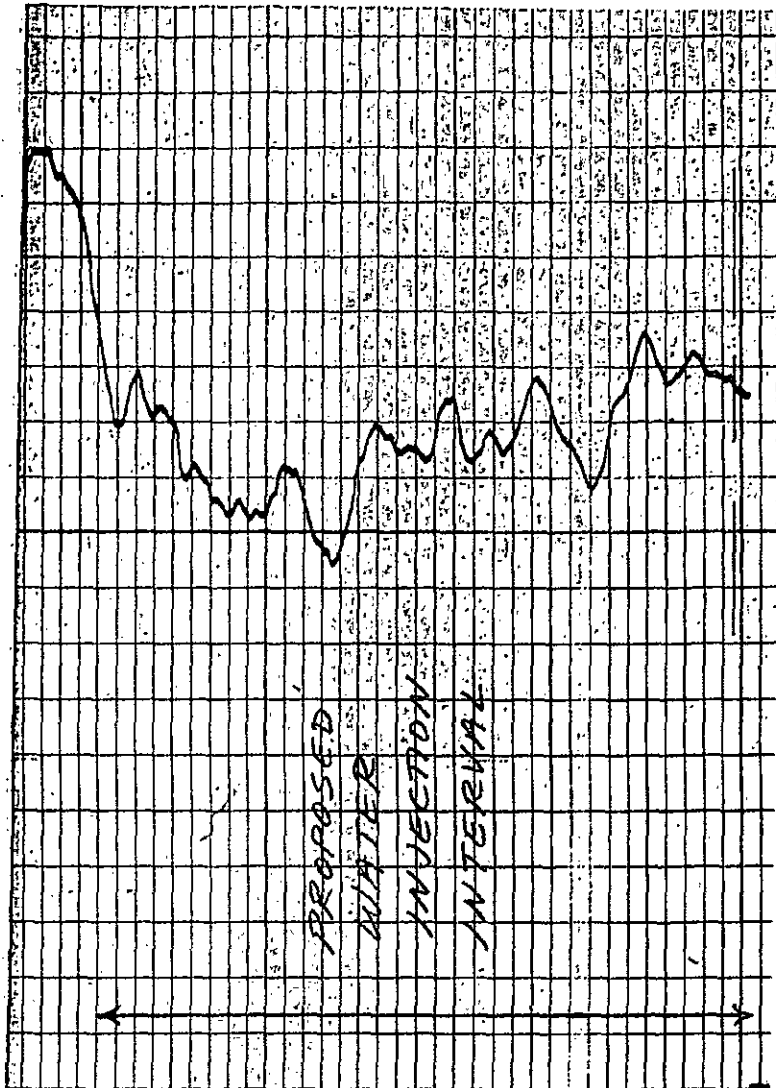
GL 3668

Type Log	GAMMA	N. GAMMA	1-TAG ✓
Run No.	- 1 -	- 1 -	2-LHS
Date	1-22-61	1-22-61	1-Roswell
Total Depth Driller	14,501	14,501	(Hobbs Prod. & Engr.
Present Depth Driller	14,501	14,501	retained their copies)
Total Depth Welex	14,499	14,499	
Survey Begins	14,499	14,499	
Survey Ends	0	14,000	
Mud Data	DRISCOSE, CAUSTIC GEL SPERSENE		
Type Fluid in Hole	MUD	MUD	
Salinity PPM Cl	2550	2550	
Weight lb./gal.	9.1	9.1	
Fluid Level	FULL	FULL	
Max. Hole Temp.	208	208	

Recorded By G. E. AYRES  
Witnessed By MR. McLEAN

BORE HOLE RECORD

CASING RECORD



14450

1450

## ENGINEERING DATA

### LEA UNIT #2

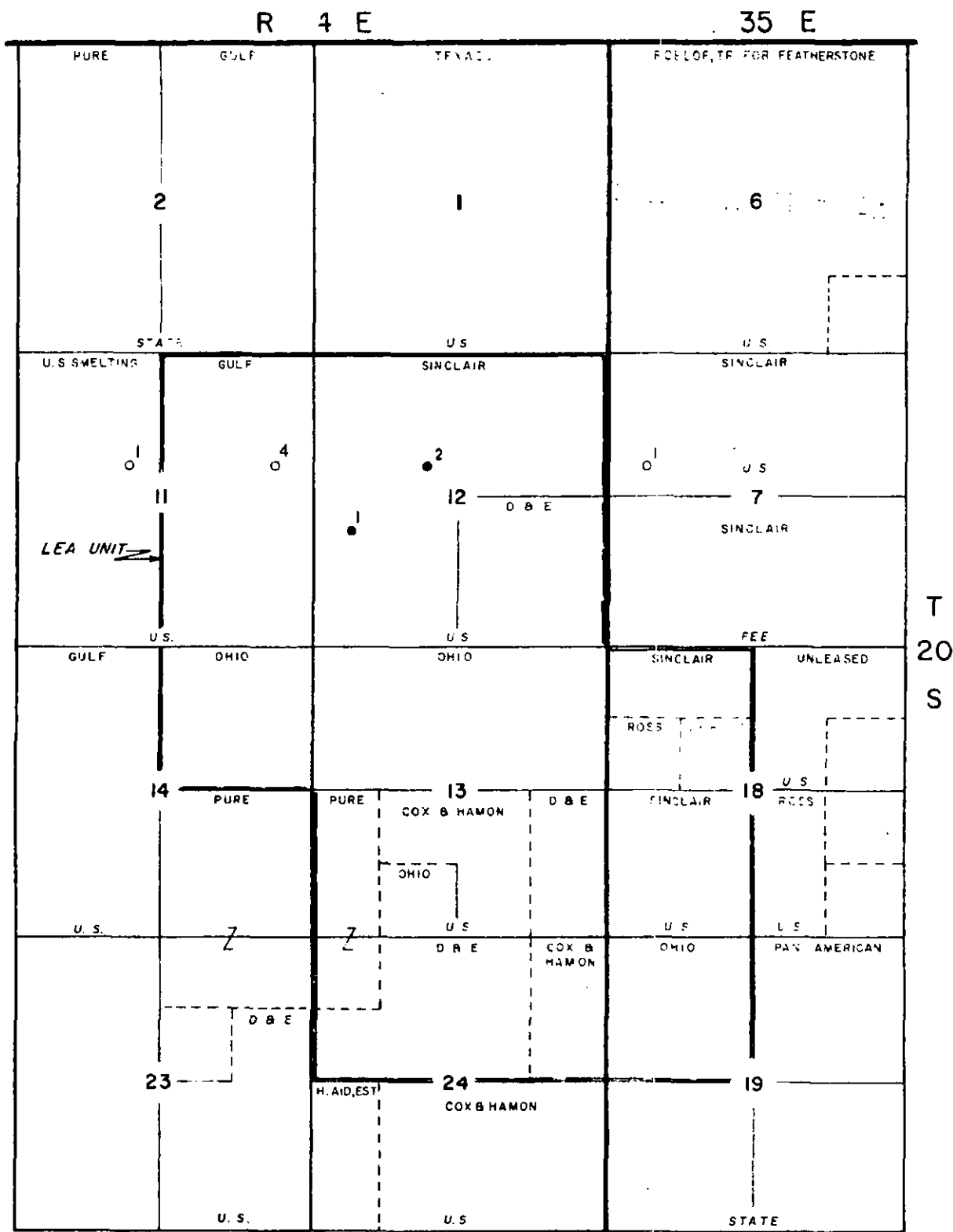
Planned maximum injection rate: 10,000 barrels of water per day (BWPD)

Planned average injection rate: 5,000 barrels of water per day (BWPD)

Planned maximum injection pressure: 3,000 pounds per square inch (psi)

Injection will be within an entirely closed system.

Produced water compatibility: The Bone Springs and Morrow (Pennsylvanian) produced waters are compatible with the waters of the Devonian; all of these waters are currently commingled at the surface without any compatibility issues.



THE OHIO OIL COMPANY  
 "Plat of Lea Unit Area"  
 Scale: 1" = 2500'      July 15, 1960  
 Lea County, New Mexico  
 Rev. 1-30-61

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs 335 OCD

JUL 29 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM-053434

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

LEGACY RESERVES OPERATING LP

3a. Address

PO BOX 10848  
MIDLAND, TX 79702

3b. Phone No. (include area code)

432-689-5200

7. If Unit of CA/Agreement, Name and/or No.  
NM70976A

8. Well Name and No.  
LEA UNIT #2

9. API Well No.  
30-025-02428

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FNL & 1980' FWL, UNIT LETTER F, SEC 12, T20S, R34E

10. Field and Pool or Exploratory Area  
LEA; DEVONIAN

11. County or Parish, State  
LEA CO., NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Lay down production
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	eqmt, Test casing & TA
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	well

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

WE PLAN TO LAY DOWN THE PRODUCTION EQUIPMENT, RUN VARIOUS LOGS TO EVALUATE THE WELL BORE, AND TEMPORARILY ABANDON THE WELL PENDING EVALUATION FOR SALT WATER DISPOSAL SERVICE. SEE THE ATTACHED PROCEDURE. AN APPLICATION TO CONVERT THE WELL TO SALT WATER DISPOSAL WILL BE SUBMITTED TO THE NMOC UNDERGROUND INJECTION CONTROL GROUP AFTER EVALUATION OF THE LOGS AND WELL BORE CONDITION.

*This Well is economic. It is producing in paying quantities despite water content.*

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

BLAIN LEWIS

Title SENIOR ENGINEER

Signature

*Blain Lewis*

Date 07/12/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*Samuel Shady*

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**DENIED**

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.

(Instructions on page 2)

JUL 30 2013

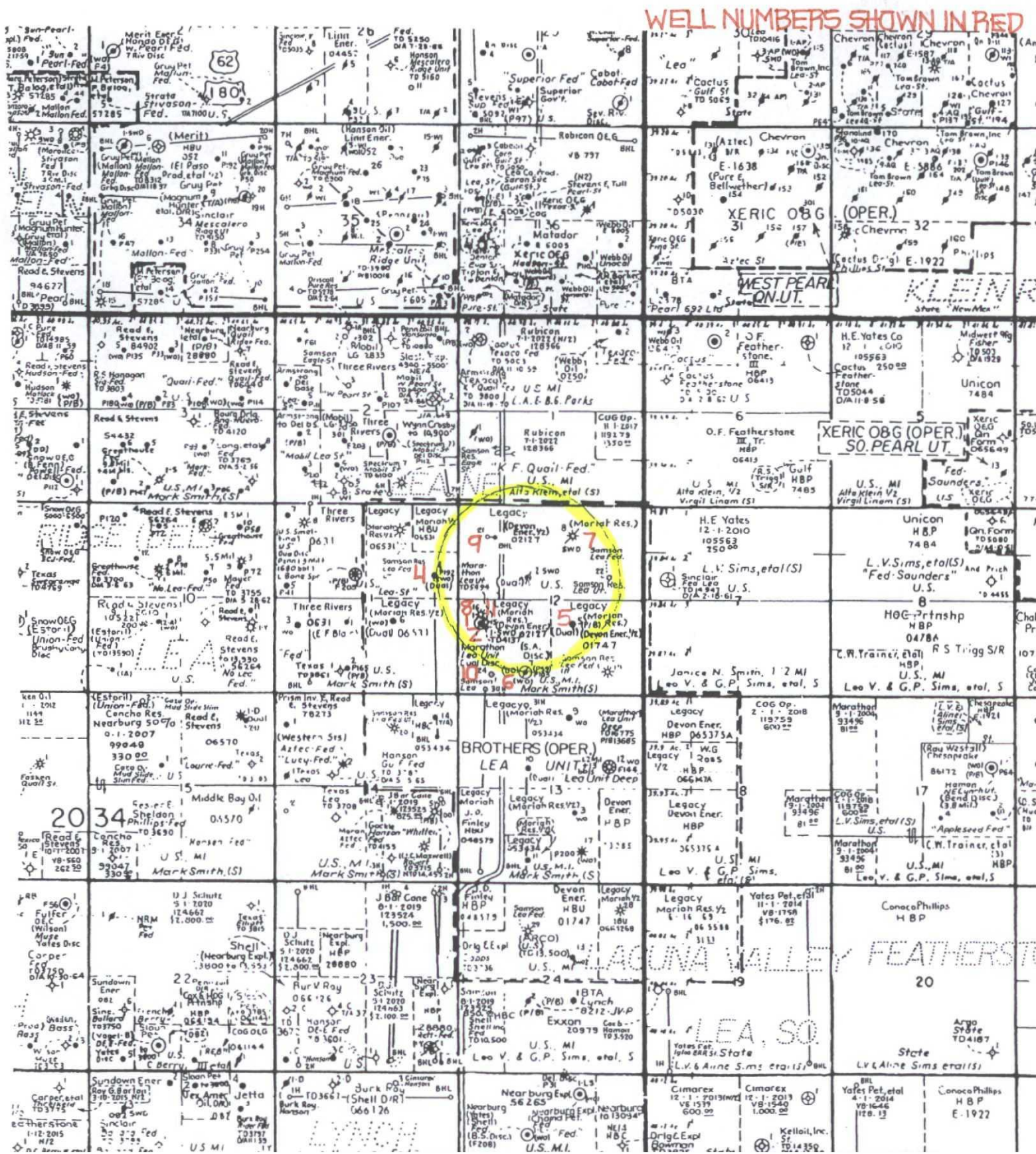


$$I'' = 3700'$$

1980' FNL, 1980' FWL, SEC. 12, TZOS, R34E

ALL WELLS WITHIN AREA OF REVIEW ARE ON THE

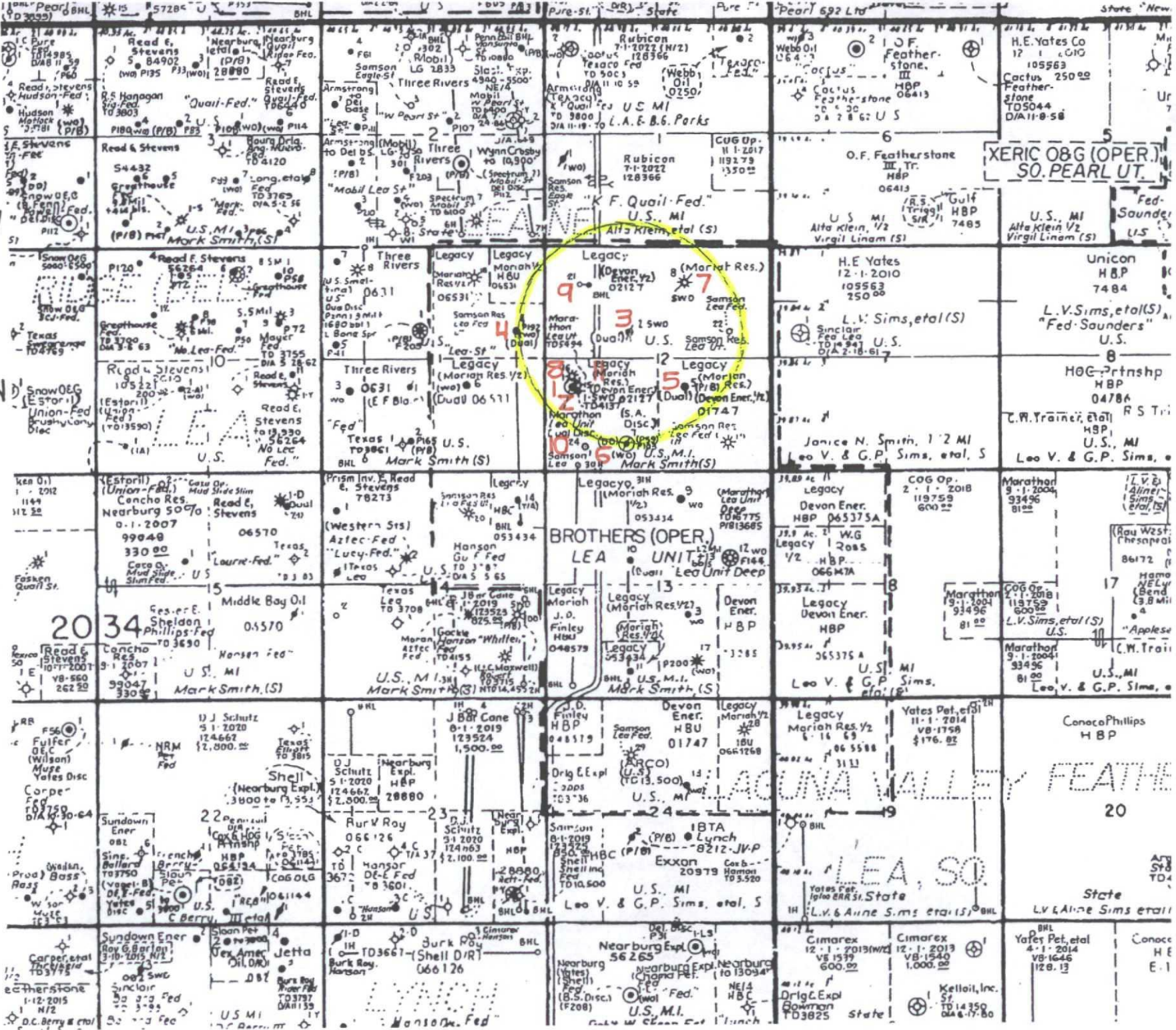
LEA UNIT AND OPERATED BY LEGACY RESERVES OPERATING LP





ENLARGED VIEW  
OF ONE-HALF  
MILE RADIUS  
AREA OF REVIEW

MAP NUMBERS  
OF WELLS WITHIN  
ONE-HALF MILE  
RADIUS ARE  
SHOWN IN RED



LACUNA VALLEY FEATHER

LEA, SO.

20

State

State

State



TABLE OF WELLS WITHIN A HALF-MILE RADIUS AREA OF REVIEW AROUND LEA UNIT #2  
LEA COUNTY, NEW MEXICO

Map No.	Operator	Lease	Well No.	Type Completion	API Number	Location (Sec., Twp, Range)	Spud Date	TD	Status
	Legacy Reserves Operating LP	Lea Unit	2	Oil	42-025-02428	12, 20S, 34E	Sep-60	14,501'	Shut in
1	Legacy Reserves Operating LP	Lea Unit	1	Oil	42-025-02427	✓ 12, 20S, 34E	Dec-59	14,735'	P&A 11/15/77
2	Legacy Reserves Operating LP	Lea Unit	1D	Injection	42-025-12789	✓ 12, 20S, 34E	Nov-63	4137'	P&A 11/18/77
3	Legacy Reserves Operating LP	Lea Unit	2	Oil	42-025-02428	✓ 12, 20S, 34E	Sep-60	14,501'	Shut in
4	Legacy Reserves Operating LP	Lea Unit	4H	Oil	42-025-02424	✓ 11, 20S, 34E	Dec-60	14,492'	Active producing
5	Legacy Reserves Operating LP	Lea Unit	5	Oil	42-025-02429	✓ 12, 20S, 34E	Feb-61	14,476'	Active producing
6	Legacy Reserves Operating LP	Lea Federal Unit	7	Oil	42-025-02430	✓ 12, 20S, 34E	Sep-61	13,569'	Active producing
7	Legacy Reserves Operating LP	Lea Unit	8D	Injection	42-025-02431	✓ 12, 20S, 34E	Dec-61	14,693'	Active injection
8	Legacy Reserves Operating LP	Lea Unit	16	Oil	42-025-32033	✓ 12, 20S, 34E	Aug-93	13,302'	Active producing
9	Legacy Reserves Operating LP	Lea Federal Unit	21	Oil	42-025-37525	✓ 12, 20S, 34E	Jan-07	11,153'	Active producing
10	Legacy Reserves Operating LP	Lea Federal Unit	24	Oil	42-025-38212	✓ 12, 20S, 34E	Feb-07	11,125'	Active producing
11	Legacy Reserves Operating LP	Lea Unit	2D	Injection	42-025-28528	✓ 12, 20S, 34E	Dec-83	4611'	Active injection

2 PA  
8 ACT.

Elevation: 3674' KB, 3656' GL

## Legacy Reserves Operating LP

### Lea Unit #1 current wellbore diagram

1980' FSL, 660' FWL, Sec. 12, T20S, R34EE

Lea Co, NM; NM-02127-B

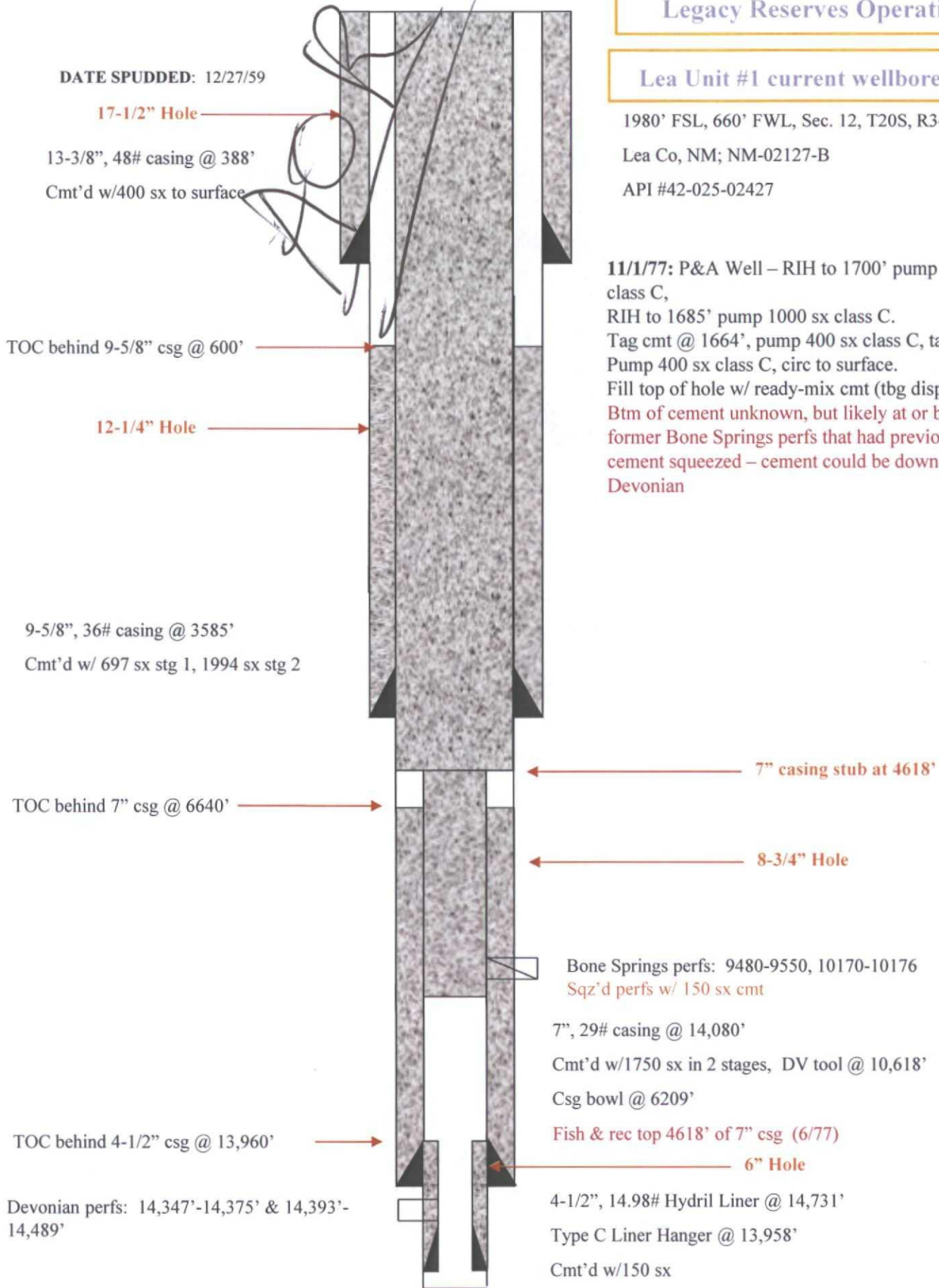
API #42-025-02427

11/1/77: P&A Well – RIH to 1700' pump 2800 sx class C,  
RIH to 1685' pump 1000 sx class C.

Tag cmt @ 1664', pump 400 sx class C, tag @ 1244'  
Pump 400 sx class C, circ to surface.

Fill top of hole w/ ready-mix cmt (tbg displacement)

Btm of cement unknown, but likely at or below  
former Bone Springs perfs that had previously been  
cement squeezed – cement could be down to  
Devonian



PBTD: 14,686'

TD: 14,735'

Elevation: 3666' KB, 3656' GL

DATE SPUDDED: 11/18/63

Legacy Reserves Operating LP

Lea Unit #1D current wellbore diagram

1905' FSL, 810' FWL, Sec. 12, T20S, R34E

Lea Co, NM; NM-02127-B

API #42-025-12789

7/18/77: P&A well – Cmt w/ 375 sx class H w/ .3% CFR-2;  
tag cmt @ 903'. Pump 150 sx class C w/ 3% CaCL<sub>2</sub>,  
circ to surface.

12-1/4" Hole

8-5/8", 24#, J-55 casing @ 1357'

Cmt'd w/600 sx, circ to surface

TUBING RECORD:

ROD STRING RECORD:

PUMP RECORD:

PUMPING UNIT:

7-7/8" Hole

5-1/2", 15.5# J-55 casing @ 3891'

Cmt'd w/800 sx, circ to surface

Seven Rivers OH Completion 3891'-4137'

TD: 4137'

WVJONES (DISTRICT IV SUPERVISOR FOR OCD) SIGN OUT HELP

Wells Operator Data OCD Review OCD Only Administration

**OCD Permitting**[Home](#) [Land Searches](#) [Land Details](#)**Section : 12-20S-34E**

Type: Normal

Total Acres: 640

County: Lea (25)

D (D) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	C (C) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	B (B) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	A (A) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40
E (E) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	F (F) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	G (G) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40	H (H) Federal <sup>1</sup> Federal <sup>2</sup> (25) 40
L (L) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	K (K) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	J (J) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	I (I) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40
M (M) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	N (N) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	O (O) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40	P (P) Fee <sup>1</sup> Federal <sup>2</sup> (25) 40

Note<sup>1</sup> = Surface Owner RightsNote<sup>2</sup> = Sub-Surface Mineral Rights**Land Restrictions**

No land restrictions found for this section.

[Return to Search](#)

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012  
 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

[EMNRD Home](#) [OCD Main Page](#) [OCD Rules](#) [Help](#)EXTRA  
NOTES

(2886 PSI)

See R-1826-A

7012 5648 1000 0090 E102

<b>U.S. Postal Service</b> <small>TM</small>	
<b>CERTIFIED MAIL</b> <small>TM</small> <b>RECEIPT</b>	
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For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ 1.61
Certified Fee	3.30
Return Receipt Fee <small>(Endorsement Required)</small>	2.70
Restricted Delivery Fee <small>(Endorsement Required)</small>	
Total Postage & Fees	\$ 7.61



Sent To	COG Operating LLC
Street, Apt. No., or PO Box No.	600 W. Illinois Ave
City, State, ZIP+4	Midland, TX 79701

PS Form 3800, August 2006 See Reverse for Instructions

7014 2120 0001 7481 6710

U.S. Postal Service® CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®	
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4/22/15	
NOTICE - Application to Inject	
Sent To	
KENNETH Smith Inc. (Wayne Smith)	
Street & Apt. No., or PO Box No.	
267 Smith Ranch Road	
City, State, ZIP+4	
Hobbs, NM 88240	
PS Form 3800, July 2014 See Reverse for Instructions	

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

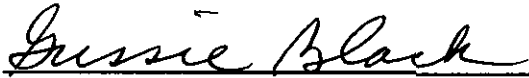
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
April 14, 2015  
and ending with the issue dated  
April 14, 2015.



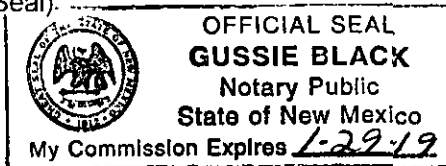
Publisher

Sworn and subscribed to before me this  
14th day of April 2015.



Business Manager

My commission expires  
January 29, 2019  
(Seal).



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
April 14, 2015

**NOTICE OF APPLICATION FOR FLUID INJECTION  
WELL PERMIT**

**APPLICANT:** Legacy Reserves Operating LP  
P.O. Box 10848  
Midland, Texas 79702

**CONTACT:** Craig Sparkman (432/689-5200)

Legacy Reserves Operating LP is applying to the New Mexico Oil Conservation Division for a permit to inject fluid into a formation which is productive of oil and gas. Injection will be into the underlying salt water aquifer in the lower section of the Devonian formation, a formation that previously produced in the area but is not currently on production.

The applicant proposes to inject fluid into the Devonian formation in the Lea Unit lease, well number 2. The proposed salt water disposal well is located 1980' FNL, 1980' FWL, Section 12, Township 20, South, Range 34 East, approximately 20 miles west of Hobbs, New Mexico in the Lea (Devonian) Field, Lea County. Fluid will be injected into strata in the subsurface depth interval from 14,432' to 14,501'. The proposed maximum permitted water injection rate is 10,000 barrels of water per day (BWPD) at a maximum pressure of 3,000 pounds per square inch (psi).

**LEGAL AUTHORITY:** Statewide Rules and Regulations of the New Mexico Oil conservation Division.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the New Mexico Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.  
#29942

67110811

00154802

LEGACY RESERVES OPERATING LP  
PO BOX 10848  
MIDLAND, TX 79702

**Jones, William V, EMNRD**

---

**From:** Jones, William V, EMNRD  
**Sent:** Wednesday, May 06, 2015 11:52 AM  
**To:** 'csparkman@legacylp.com'  
**Cc:** Goetze, Phillip, EMNRD; Kautz, Paul, EMNRD; 'Joe Galluzzi (jgalluzzi@blm.gov)'; Wade, Gabriel, EMNRD  
**Subject:** SWD Application from Legacy Reserves Operating, LP: Lea Unit Well No. 2 30-025-02428 F-12-20S-34E

Hello Craig,  
Thanks for the SWD application,  
We received it yesterday and I have done a quick look over, mainly just to ensure proper notice.  
We are not logging applications in until we check over and ensure that the "notice" has all been done.

Would you please send?

*No Toad 4/21/15*  
The certified mailer receipt (with date of mailing) for the package mailed to Kenneth Smith, Inc.  
(I am sure you notified him, but we are required to collect the mailers or the date/certified mailer number)

*Noted 5/6/15*  
COG Operating LLC has the Section 1 to the north and the AOR circle slightly reaches Section 1.  
To be thorough, would you send by certified mail, a copy of the application to COG, and send me a copy of it?

This area is all U.S.A lands, but should be all leased – and seems to be the last well that produced from the Devonian.

✓ Also, there is a form we like to see on the front of each "administrative" application.  
It is the first unnumbered form at this link: Would you please fill out, scan and email it back?  
<http://www.emnrd.state.nm.us/OCD/documents/admnapp.pdf>

Nearby:

✓ I noticed there is an existing SWD (permit SWD-189 in 1977) operated by Legacy, into the Seven Rivers/Reef at 4030 to 4250 feet located in Unit letter B of this Section 12 (30-025-02431)  
That well is taking approximately 1000 barrels of water per day. The OCD geologists are trying to locate these existing Reef (or top of Reef) disposal wells that were permitted early on and ASAP, get them replaced with deeper disposal wells. We can work through the hearing process, but the best way is for operators to do this voluntarily as they get the deeper wells permitted for disposal. Would you please pass this on to your management?

Hope you have a nice day,  
Will Jones



**William V. Jones, P.E., District IV Supervisor**  
Oil Conservation Division <http://www.emnrd.state.nm.us/oed/>  
1220 South St. Francis Drive, Santa Fe, NM 87505  
P: 505.476.3477 C: 505.419.1995



## Jones, William V, EMNRD

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**From:** Craig Sparkman <csparkman@legacylp.com>  
**Sent:** Monday, June 15, 2015 2:36 PM  
**To:** Jones, William V, EMNRD  
**Cc:** Goetze, Phillip, EMNRD; efernand@blm.gov; Kautz, Paul, EMNRD; Brown, Maxey G, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** RE: SWD Application from Legacy Reserves Operating, LP: Lea Unit Well No. 2 30-025-02428 F-12-20S-34E Devonian Perforations: 14432 to 14501 feet

Hi Will Et al.,

Sorry for the delayed response. I meant to get back to you much sooner on this. Here are my answers for the questions/request mentioned in the below email correspondence:

- a. We have provided justification to the BLM for conversion of this well to salt water disposal based on the fact that the production rate of 5 BOPD, 10 MCFPD, and 1,135 BWPD cannot justify the monthly operating cost of \$10,400 which includes the electric power cost, the rental cost of the electric submersible pump equipment, and the associated costs to handle the and dispose of the produced water.
- b. We have not yet received any feedback from the BLM concerning this issue. I do not think we feel that the 7" is eaten up. The 5" Liner was designed more or less for insurance to isolate the injection interval (Devonian) from the existing perforations in the Bone Spring from 9590'-9620' and in the Morrow (Penn) from 12,894'-13,156'. Pulling and replacing the 7" casing would probably be seen as last-resort from Legacy's view point just b/c of the heightened risk that comes into play when you start cutting pipe. The latest CBL (dated 7/22/13) that we have on the Lea Unit #2 indicates that we have cement stringers up to +/-5,300'. Not sure we would be very successful at squeezing cement, but I think we would be much more in favor of trying this option as opposed to pulling casing.
- c. Yes. We plan to squeeze the upper set of Devonian perforations and open up the bottom down to 14,501'.
- d. There are no fresh water wells within a 1 mile radius of this location.
- e. We will work to get you all a representative water analysis as soon as possible from each formation we plan to dispose of the produced water. The only two formations currently producing at Lea Unit is the Morrow (Penn – which is mainly gas), and the Bone Spring.
- f. I will work to get a hard copy of the most recent CBL/GR in the mail to Paul.

Please let me know if you have any further questions.

Thanks,

**CRAIG SPARKMAN**  
OPERATIONS ENGINEER  
*direct 432-221-6334 | mobile 432-413-7811 | fax 432-686-8318*

**LEGACY RESERVES LP**  
303 West Wall St., Suite 1800  
Midland, Texas 79701

---

**From:** Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]  
**Sent:** Friday, May 08, 2015 3:56 PM  
**To:** Craig Sparkman  
**Cc:** Goetze, Phillip, EMNRD; efernand@blm.gov; Kautz, Paul, EMNRD; Brown, Maxey G, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD

**Subject:** SWD Application from Legacy Reserves Operating, LP: Lea Unit Well No. 2 30-025-02428 F-12-20S-34E  
Devonian Perforations: 14432 to 14501 feet

Hello Craig,

I just looked over this deep Devonian SWD application for approval – we still must wait until 15 days after the last notice. In the meantime, I came up with some questions/requests – hopefully easy to answer.

- a. The last page in the OCD well file shows the BLM has denied the TA request, stating the Devonian was still economic to produce. Our records show it has not reported production since 5/2014, so almost a year being shut-in. Since this is a federal wellbore.... Will the BLM approve the use of this well for SWD purposes? It seems like they would – but since our file has this “denial” in it, I must ask you about your communication with the BLM.
- b. I must ask about the proposed 5” liner? This would provide internal protection, but there would then be a stranded 3000 feet of open exterior annulus from 8000 to 5000 feet – and extending from there up to the bradenhead. We don’t like installing interior cemented pipe and leaving communication behind the outer casing – which would be harder to remedy at plugging time for this well. The OCD rules are built around preventing communication between formations. So I would recommend you first attempt to squeeze the 7” to place cement as well as possible from 8000 up to 5000 prior to running internal casing. And then you may not need the liner? The OCD only requires 500 psi for 30 minutes on MIT tests for SWD wells. If you suspect the 7” is eaten up by corrosion above 8000 feet, then it could be pulled and replaced with newer 7” from surface to 8000 feet or so – and that cemented at least up into the intermediate pipe? Again, since this is a BLM well, what do they say?
- c. Your “Before” and “After” diagram indicates you would squeeze the upper Devonian perforations and open up the Devonian down to 14501 feet? Is this true?
- d. Are there any Fresh Water wells within 1 mile of this location? If so, please grab a water sample and send the analysis in. This provides background data for the future.
- e. Would you also please send water analysis for the various formations that will be flowing into this well and a statement about compatibility with insitu Devonian waters?
- f. The OCD has only one Gamma Ray log on this well. Please send copies of the other logs in your file for this well, including the CBL on the 7” to Paul Kautz in Hobbs – OCD office. We still only accept “continuous TIF” format (no page breaks) – but you can put the logs on a thumb drive. Or ask Paul how he likes to see them.

This looks like a lot of stuff, but not trying to discourage you.

Thanks for the application.

Regards,



**William V. Jones, P.E., District IV Supervisor**  
Oil Conservation Division <http://www.emnrd.state.nm.us/oed/>

1220 South St. Francis Drive, Santa Fe, NM 87505  
P: 505.476.3477 C: 505.419.1995

## Jones, William V, EMNRD

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**Sent:** Friday, May 08, 2015 2:56 PM  
**To:** Craig Sparkman  
**Cc:** Goetze, Phillip, EMNRD; 'efernand@blm.gov'; Kautz, Paul, EMNRD; Brown, Maxey G, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** SWD Application from Legacy Reserves Operating, LP: Lea Unit Well No. 2  
30-025-02428 F-12-20S-34E Devonian Perforations: 14432 to 14501 feet

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Thanks for the application.

Regards,



C-108 Review Checklist: Received 5/6/15 Add. Request: 5/6/15 Reply Date: 6/15/15 Suspended: \_\_\_\_\_ [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number 1560 Permit Date 1560 Legacy Permits/Orders: \_\_\_\_\_

Well No. 2 Well Name(s): LEA UNIT SWD #2

API: 30-0 25-02428 Spud Date: 9/15/60 New or Old: (C) (UIC Class II Primacy 03/07/1982)

Footages 1950 FNL / FWL Lot \_\_\_\_\_ or Unit F Sec 12 Tsp 20S Rge 34E County LEA

General Location: \_\_\_\_\_ Pool: \_\_\_\_\_ Pool No.: \_\_\_\_\_

BLM 100K Map: \_\_\_\_\_ Operator: Lopez Resources LP OGRID: 240774 Contact: CRAIG SPARKMAN

COMPLIANCE RULE 5.9: Total Wells: 1521 Inactive: 7 Fincl Assur: ✓ Compl. Order? \_\_\_\_\_ IS 5.9 OK? ✓ Date: 5/2/15

WELL FILE REVIEWED ○ Current Status: SI SINCE 5/14

WELL DIAGRAMS: NEW: Proposed ○ or RE-ENTER: Before Conv. ✓ After Conv. ○ Logs in Imaging: Need LOGS

Planned Rehab Work to Well: RUN 5 1/2" / RUN TUBG / DISPOSE

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned <u>✓</u> or Existing <u>✓</u>	Surface	13 3/8	851	600	CIRC
Planned <u>✓</u> or Existing <u>✓</u>	Interm/Prod	9 5/8	8506 / 5006	3078 / 2300	4451
Planned <u>✓</u> or Existing <u>✓</u>	Interm/Prod	7	14100	1150 / 900	8000' CBL
Planned <u>✓</u> or Existing <u>✓</u>	Prod/Liner	4 1/2	14004 - 14499	125 SX	TOP of Liner
Planned <u>✓</u> or Existing <u>✓</u>	Liner	Run 5 1/2" To Liner Top	Inj Length	Completion/Operation Details:	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	
Adjacent Unit: Litho. Struc. Por.	12542	MASS	✓	Drilled TD 14501 PBTD 14476	
Confining Unit: Litho. Struc. Por.	14317	DEV	✓	NEW TD _____ NEW PBTD 14501	
Proposed Inj Interval TOP:		14432	"	NEW Open Hole <u>○</u> or NEW Perfs <u>✓</u>	
Proposed Inj Interval BOTTOM:		14501	"	Tubing Size 2 1/8 in. Inter Coated? <u>✓</u>	
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth 14400 ft	
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth _____ (100-ft limit)	
				Proposed Max. Surface Press. _____ psi	
				Admin. Inj. Press. 2886 (0.2 psi per ft)	

#### AOR: Hydrologic and Geologic Information

POTASH: R-411-P-○ Noticed? \_\_\_\_\_ BLM Sec Ord ○ WIPP ○ Noticed? \_\_\_\_\_ SALT/SALADO T: 1883 3435 CLIFF HOUSE

FRESH WATER: Aquifer \_\_\_\_\_ Max Depth \_\_\_\_\_ HYDRO AFFIRM STATEMENT By Qualified Person ○

NMOSE Basin: \_\_\_\_\_ CAPITAN REEF: thru ✓ adj ○ NA ○ No. Wells within 1-Mile Radius? \_\_\_\_\_ FW Analysis ○

Disposal Fluid: Formation Source(s) BS/ETC Analysis? ○ On Lease ○ Operator Only ○ or Commercial ○

Disposal Int: Inject Rate (Avg/Max BWPD): \_\_\_\_\_ Protectable Waters? No Source: \_\_\_\_\_ System: Closed ✓ or Open ○

HC Potential: Producing Interval Depleted Formerly Producing? ✓ Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map ○

AOR Wells: 1/2-M Radius Map? ✓ Well List? ✓ Total No. Wells Penetrating Interval: BS Horizontals? yes

Penetrating Wells: No. Active Wells 8 Num Repairs? ○ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 2 Num Repairs? ○ on which well(s)? \_\_\_\_\_ Diagrams? ✓

NOTICE: Newspaper Date \_\_\_\_\_ Mineral Owner BLM Surface Owner BLM N. Date \_\_\_\_\_

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: \_\_\_\_\_ N. Date \_\_\_\_\_

Permit Conditions: Issues: Need P&A work Sunday or BLM approval to P&A

Add Permit Cond: SOZ 8000' up to 5006' Interm annular Prior to 5 1/2"