

**STATE OF NEW MEXICO  
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION**

**APPLICATION OF JUDAH OIL, LLC  
FOR AUTHORIZATION TO INJECT INTO  
THE SHINNERY OAK SWD No. 3 WELL FOR  
PURPOSES OF DISPOSAL, EDDY COUNTY,  
NEW MEXICO.**

CASE NO. 20442

**APPLICATION**

Judah Oil, LLC (“Judah”), OGRID No. 245872, through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-17, for an order authorizing injection of produced salt water for purposes of disposal. In support, Judah states the following:

1. On December 27, 2018, Judah filed the attached Form C-108 application for authorization to inject. *See* C-108, attached as **Exhibit A**, and incorporated herein.
2. Judah proposes to drill a new commercial salt water disposal well to be named **Shinnery Oak SWD No. 3 Well** (API No. 30-015-PENDING), which will be located 3,312 feet from the south line and 1,014 feet from the west line (Lot 13), Section 2, Township 21 South, Range 28 East, NMPM, Eddy County, New Mexico.
3. The proposed injection disposal interval would be within the Devonian-Montoya formations through an open-hole completion between 13,400 feet and 14,420 feet below the ground.
4. Disposal fluid would be produced salt water from producing oil and gas wells in the area.

5. The estimated average disposal volume will be 20,000 barrels of water per day with a maximum anticipated volume of 25,000 barrels of water per day. The average injection pressure is expected to be approximately 1,600 psi with a maximum injection pressure of 2,680 psi.

6. The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, Judah Oil, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on May 2, 2019, and, after notice and hearing as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP

By: 

Michael H. Feldewert

Adam G. Rankin

Julia Broggi

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**ATTORNEYS FOR JUDAH OIL, LLC**

CASE 20442

**Application of Judah Oil, LLC For Authorization to Inject into the Shinnery Oak SWD No. 3 Well For Purposes of Disposal, Eddy County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the **Shinnery Oak SWD No. 3 Well** (API No. 30-015-pending), to be located 3,312 feet from the south line and 1,014 feet from the west line (Lot 13), in Section 2, Township 21 South, Range 28 East, NMPM, Eddy County, New Mexico. Injection would be into the Devonian-Montoya formations through an open-hole completion between 13,400 feet and 14,420 feet. Disposal fluid will be produced water from producing oil and gas wells in the area. Average disposal volume will be 20,000 bpd with a maximum of 25,000 bpd. Average injection pressure will be 1,600 psi with a maximum injection pressure of 2,680 psi. The subject well will be located approximately 6 miles northeast of Carlsbad, N.M.

Judah Oil, LLC  
c/o Holcomb Consultants  
6900 Spring Cherry Lane  
Amarillo, TX 79124

December 27, 2018

*Blaise,  
Your copy.  
Thank you!  
Danny*

State of New Mexico  
NMOCD Engineering Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Per the rules and regulations of the New Mexico Oil Conservation Division, please find enclosed a copy of NMOCD form C108.

Judah Oil, LLC, PO Box 568, Artesia, NM 88211 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to drill a new commercial salt water disposal well named Shinnery Oak SWD #3, API 30-015-pending, located at 3312' FSL x 1014' FWL, Lot "13", Section 2, T21S, R28E, Eddy County, New Mexico. The proposed disposal interval would be the Devonian-Silurian formations through open-hole completion between 13400' – 14420' (or 100' into the top of the Montoya formation). Disposal fluid would be produced water from producing oil and gas wells in the area. Anticipated average disposal volume is 20,000 BWPD with a maximum anticipated volume of 25,000 BWPD. Anticipated average disposal pressure is 1600 psi with a maximum disposal pressure of 2680 psi. The well would be located approximately 6 miles northeast of Carlsbad, New Mexico.

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Danny Holcomb at 806-471-5628.

Sincerely,



Danny J. Holcomb  
Agent for Judah Oil, LLC  
Email: [danny@pwllc.net](mailto:danny@pwllc.net)

Attachments

EXHIBIT A

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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**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

<b>Applicant:</b>	Judah Oil, L.L.C.	<b>OGRID Number:</b>	245872
<b>Well Name:</b>	Shinnery Oak SWD #3	<b>API:</b>	30-015-pending
<b>Pool:</b>	SWD; Devonian - Silurian	<b>Pool Code:</b>	97869

**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

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

- 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

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.**

James B. Campanella  
 \_\_\_\_\_  
 Print or Type Name

\_\_\_\_\_  
 Signature

10-29-2018  
 \_\_\_\_\_  
 Date

575-748-5488  
 \_\_\_\_\_  
 Phone Number

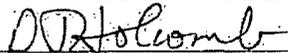
jbo@judahoil.com  
 \_\_\_\_\_  
 e-mail Address



**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Judah Oil, LLC OGRID 245872  
ADDRESS: P.O. Box 568, Artesia, New Mexico 88211  
CONTACT PARTY: James B. Campanella PHONE: 575-748-5488
- 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: SWD-1589 (80-015-20866) and a proposed SWD order on (80-015-20309)
- 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: Danny J. Holcomb TITLE: Agent for Judah Oil, LLC

SIGNATURE:  DATE: 12-10-2018

E-MAIL ADDRESS: danny@pwllc.net

- \* 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: \_\_\_\_\_

Judah Oil, LLC  
Shinnery Oak SWD #3  
API # 30-015-pending  
3312' FSL x 1014' FWL  
Lot '13', Section 2, T21S, R28E  
Eddy County, New Mexico  
C-108 Application for Authorization to Inject

I.

The purpose of this application is seeking administrative approval for injection authorization in proposed new well to serve as a commercial salt water disposal well. The proposed well name is the Shinnery Oak SWD #3. The injection interval would be in the Devonian - Silurian formations through open-hole completion between 13400' – 14420' (or 100' into the top of the Montoya formation based on logs).

II.

Operator: Judah Oil, LLC  
Address: P.O. Box 568, Artesia, New Mexico 88211  
Contact Party: James Campanella 575-748-5488 email: [jbc@judahoil.com](mailto:jbc@judahoil.com)

III.

Well Name: Shinnery Oak SWD #3  
API Number: 30-015-pending  
Location: Lot '13', Section 2, T21S, R28E, Eddy County, New Mexico  
Operator: Judah Oil, LLC OGRID: 245872  
Proposed Formation: SWD; Devonian - Silurian (Pool Code: 97869)  
Please see Exhibit "A" for additional well data.

IV.

This is an expansion of an existing project. If approved, the Shinnery Oak SWD #3 will become part of the project approved in AO SWD-1533 for the Pronghorn Fed SWD #1 (30-015-20866) and in another pending SWD application for Shinnery Oak Fed #2 (30-015-20309). The #1 and #2 wells would be served by the existing water station serving the #1 well. The #3 well would have its own water unloading station.

V.

Please see Exhibit "B" for lease map.

VI.

There are seven offset wells located within the 0.5 mile Area of Review. There are seven additional offset wells located within the 0.5 - 1 mile AOR. None of the 14 offset wells penetrate the proposed disposal interval. There is currently only one SWD well (Delaware formation) within 2 miles of the proposed well. See AOR map and a list of offset wells in Exhibit "C".

**Judah Oil, LLC**  
**Shinnery Oak SWD #3**  
**API # 30-015-pending**  
**3312' FSL x 1014' FWL**  
**Lot '13', Section 2, T21S, R28E**  
**Eddy County, New Mexico**  
**C-108 Application for Authorization to Inject**

VII.

1. Anticipated disposal volume – 20,000 BWPD with a maximum of 25,000 BWPD.
2. System will be closed. The proposed well will receive water via pipeline from a new water unloading station to be built adjoining the well.
3. Anticipated disposal pressure: Average 1600 psig, Maximum 2728 psig.
4. Disposed fluid will be trucked in and pipelined in from other water stations in the area.  
Please see Exhibit "D" for fluid analysis from area wells.
5. Please see Exhibit "D" for disposal zone fluid analysis.

VIII.

Formation	Anticipated Depth (ft)	Lithology
T. Rustler	256	Unconsolidated gravel, sand, red beds
T. Salt	650	Salt, anhydrite
B. Salt	1280	Salt, anhydrite
T. Yates	1280	Anhydrite, salt
T. Castile-Capitan Reef	1390	Anhydrite, salt
T. Delaware (Bell Cyn)	3110	Sandstone, shale
T. Bone Spring	6270	Limestone, shale, sandstone
T. Wolfcamp	9668	Shale, limestone, sandstone
T. Penn	10502	Shale, limestone, sandstone
T. Strawn	10818	Limestone, sandstone
T. Morrow	11648	Shale, limestone, sandstone
T. Mississippian	12320	Limestone
T. Woodford	13252	Shale
T. Devonian	13360	Cherty fractured limestone and dolomite
T. Fusselman	13640	Cherty fractured limestone and dolomite
T. Montoya	14320	Cherty fractured limestone and dolomite
Proposed disposal zone	13400 – 14420	Cherty fractured limestone and dolomite

The proposed well is not located within the R-111-P Potash District. The closest underground source of drinking water above the proposed disposal zone is in the Rustler formation. The top of the Salado formation is reported at a depth of 650'. It is anticipated that the Capitan Reef/fore-reef formation will be encountered about 1390'. Both the Rustler and Capitan Reef formations will be cased off (2 strings) with circulated cement. No underground source of drinking water is known to exist below the proposed disposal zone. See Exhibit "F" for a map of the Capitan Reef in this area.

Judah Oil, LLC  
Shinnery Oak SWD #3  
API # 30-015-pending  
3312' FSL x 1014' FWL  
Lot '13', Section 2, T21S, R28E  
Eddy County, New Mexico

**C-108 Application for Authorization to Inject**

IX.

**Proposed Completion Procedure:** After setting 7-5/8" liner shoe at 13400' and cementing, run 6-1/2" bit, drill out 7-5/8" shoe track and deepen well to TD at 14420' (or 100' into the top of the Montoya formation). Attempt to swab any available insitu formation water and obtain sample. If results are favorable, perform a pump-in test to establish initial injection rate. If pump-in test results are favorable, no initial stimulation is planned. If pump-in test results are unfavorable, an acid job will be pumped. A 5-1/2" Duo-lined injection tubing string and Inconel plated packer will be run. Packer will be set a maximum of 100' above the injection interval.

X.

Copies of logs and mud logs performed will be submitted after completion.

XI.

NM OSE records and a field inspection indicate that are no fresh water wells located within the 1 mile Area of Review. See Exhibit "E" for OSE data base query.

XII.

Available geological and engineering data have been examined and no evidence of open faults or hydrological connection between the proposed disposal zone and any underground sources of drinking water has been found. See Exhibit "F" for a map of known faults in this area.

XIII.

Please see Exhibit "G" for Proof of Notice. Included is a map of the Area of Review, list of notices and certified mail electronic signature receipts for notices. The original affidavit of publication from the Artesia Daily Press for the required public notice is attached under separate cover.

Danny J. Holcomb



Agent for Judah Oil, LLC

Date:

12-10-2018

**Judah Oil, LLC**  
**Shinnery Oak SWD #3**  
**API # 30-015-pending**  
**3312' FNL x 1014' FWL**  
**Lot '13', Section 2, T21S, R28E**  
**Eddy County, New Mexico**  
**Well Data**

Propose to drill a salt water disposal well in the Devonian – Silurian formations.

Drill 26" hole to 280', run 20" 94# J-55 surface casing to 280' (min 25' into the Rustler Anhydrite), cement with 500 sacks cement. Circulate cement to surface.

Drill 17-1/2" hole to 3300', run 13-3/8" 61/68# J-55 intermediate casing to 3300', cement with 2400 sacks cement. Circulate cement to surface.

Drill 12-1/4" hole to 9720', run 9-5/8" 43.5/47# HCL-80 production casing to 9720' with DV tool at 5700', cement in 2 stages with 2100 sacks cement. Circulate cement to surface.

Drill 9-1/2" hole to 13400' (or 40' into top of Devonian), run 7-5/8" 39# Q-125 TFJ liner from 9420'– 13280' and 7-5/8" 39# CR13-85 Chrome TFJ liner from 13280' – 13400', cement with 525 sacks cement (30% excess). TOC at ~9420' (@ TOL).

Drill 6-1/2" open-hole to approximately 14420' TD (or 100' into the top of the Montoya), circulate hole clean, log.

Run 5-1/2" 20# HCP-110 Duo-lined injection tubing w/ Buttress threads from 0' – 9100' and 5-1/2" 20# HCP-110 ULTFS (True Flush Joint) Duo-lined injection tubing from 9100' – 13360', set Inconel packer at 13360'.

No initial stimulation planned. Perform pump in test to evaluation formation for disposal.

<u>Formation Tops</u>	<u>Anticipated Depths (ft)</u>
Rustler	256
Salado	650
Capitan Reef	1390
Bell Canyon	3110
Bone Spring	6270
Wolfcamp	9668
Strawn	10818
Morrow	11648
Mississipian	12320
Woodford	13252
Devonian	13360
Fusselman	13645
Montoya	14320
Ellenburger	15400
Proposed Disposal Zone	13400 – 14420

EXHIBIT "A"

# Judah Oil, LLC

Shinnery Oak SWD #3

API #30-015-Pending

Lot 13, Section 2, T-21-S, R-28-E Eddy County, New Mexico

Proposed New Drill

## EXHIBIT "A"

### All Depths KB

KB 3344'

GL 3322'

### Estimated Formation Tops

Anhy 627

Morrow 11648

Yates 1280

Mississippian 12320

7 Rivers 1390

Woodford 13252

Delaware 3110

Devonian 13360

Bone Spring 6270

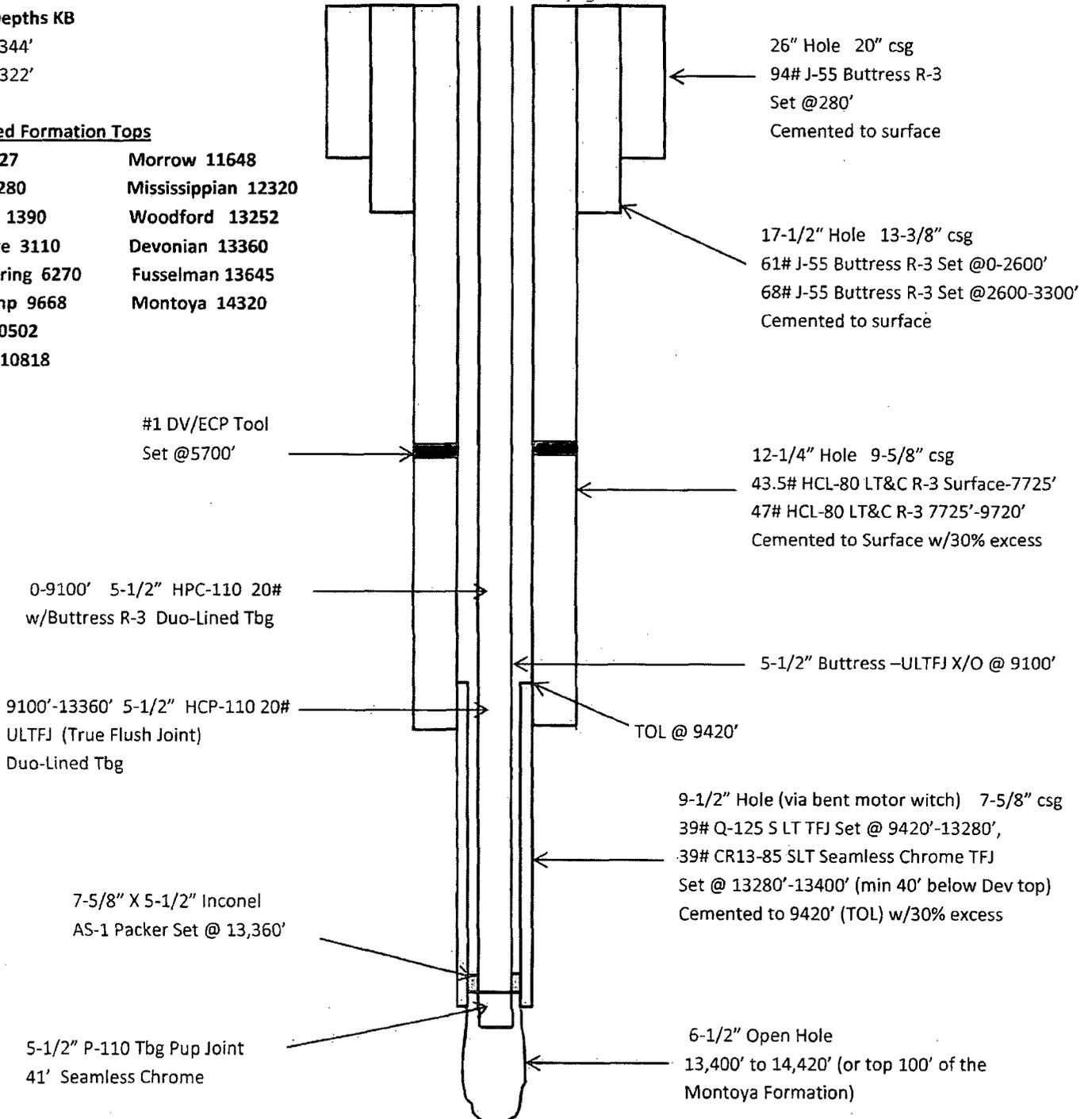
Fusselman 13645

Wolfcamp 9668

Montoya 14320

Penn 10502

Strawn 10818



## EXHIBIT A

Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API # 30-015-pending  
 3312' FSL X 1014' FWL  
 Lot '13', Sec 2, T21S, R28E  
 Eddy County, New Mexico  
 Lease Map - 0.5 Mile and 2 Mile AOR

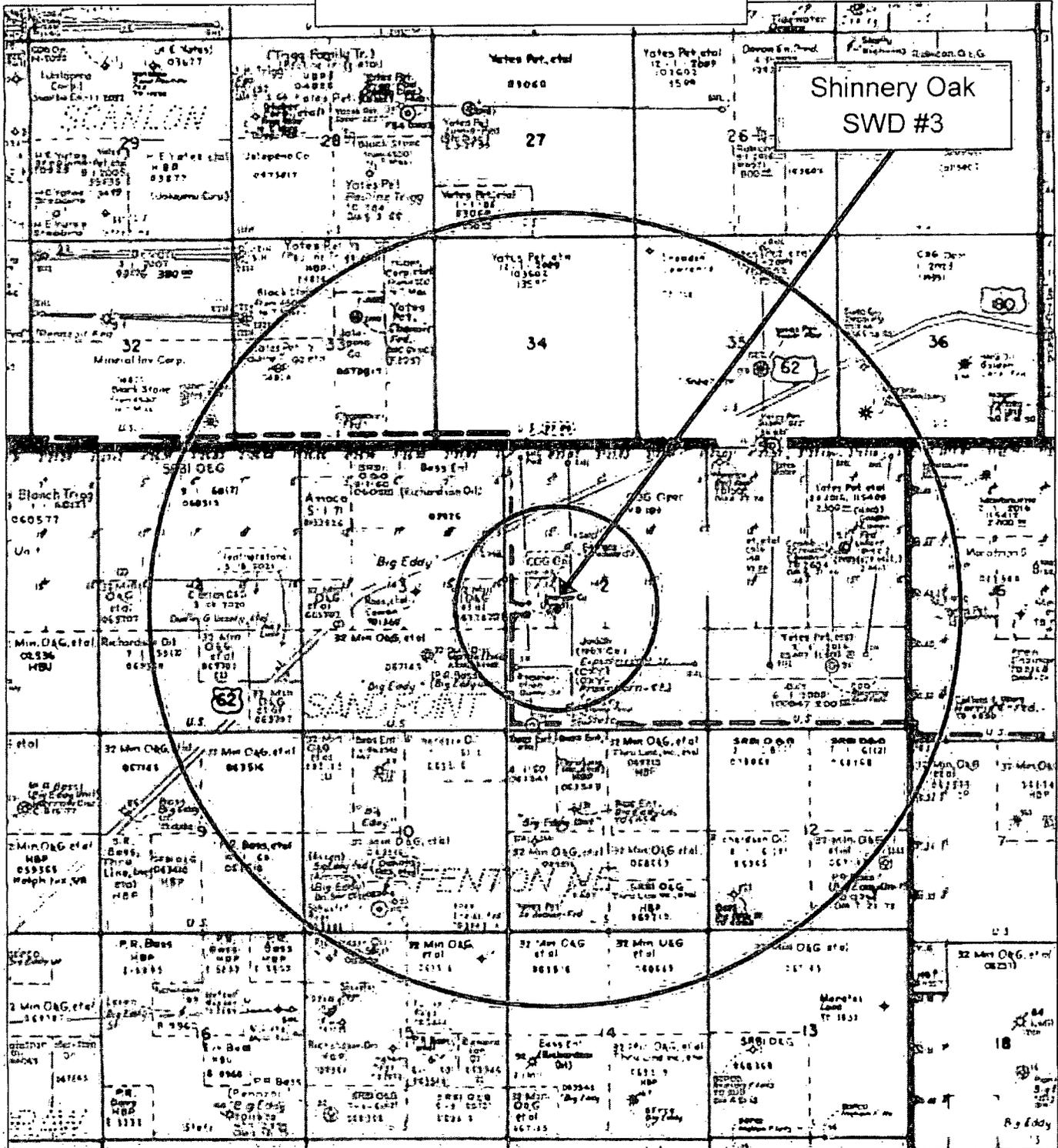
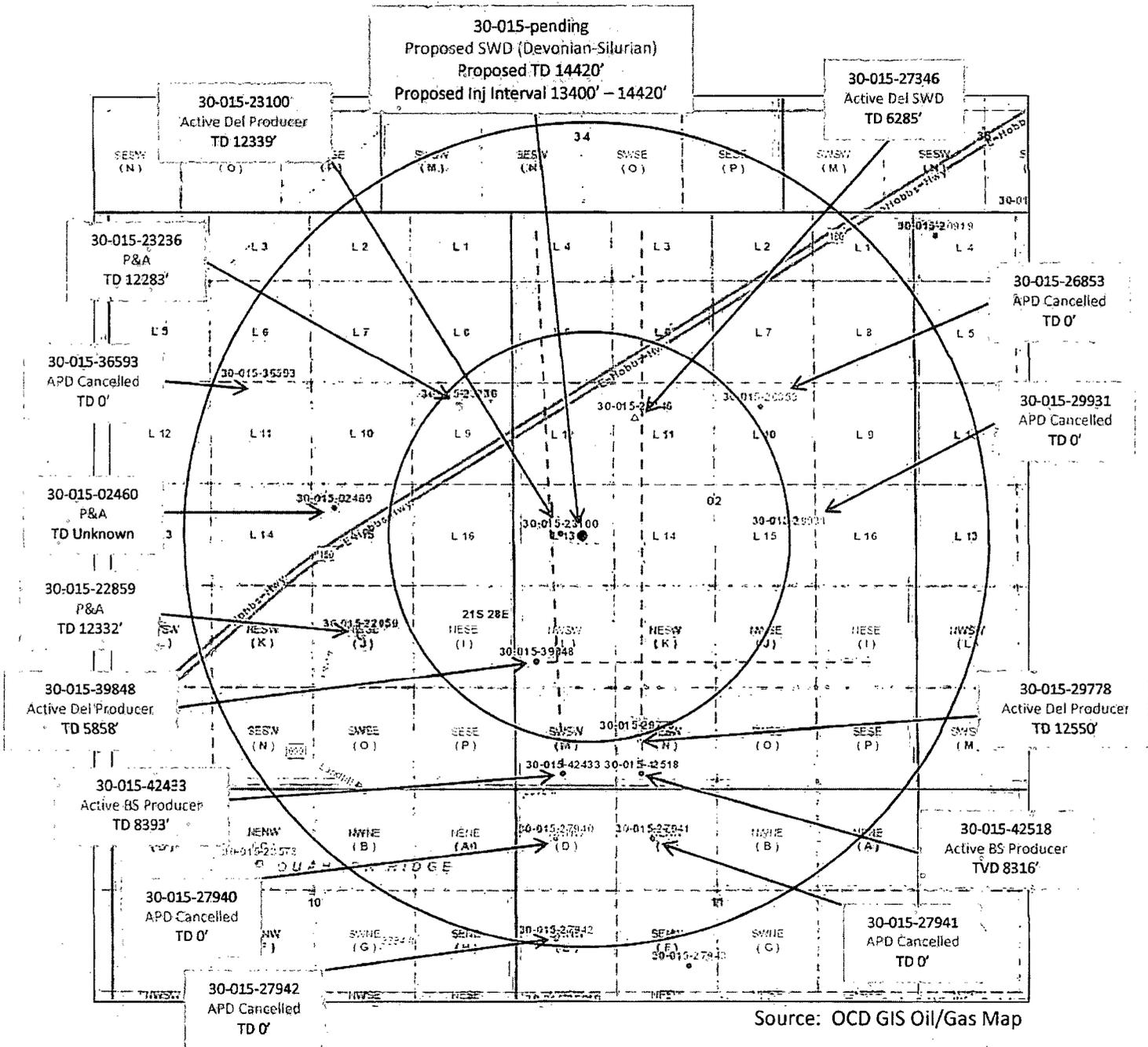


EXHIBIT "B"

Source - Midland Map Co.

Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API 30-015-pending  
 3312' FSL x 1014' FWL, Lot '13', Sec 2, T21S, R28E  
 0.5 and 1 Mile AORs



There are no offset wells within the 0.5 mile or 1 mile  
 AORs that penetrate the proposed injection interval.

EXHIBIT "C"

EXHIBIT A

Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API # 30-015-pending  
 Offset Wells within 0.5 Mile and 1 Mile AORs

0.5 Mile AOR

There are five offset wells located within the 0.5 mile AOR.  
 These offset wells do not penetrate the proposed disposal zone.

UL, Sec, T, R	API Well No.	Well Name	TVD	Status
L11-2-21S-28E	30-015-27346	Sand Point State #1	6285'	Active SWD in Delaware formation
L13-2-21S-28E	30-015-23100	State #1	12339'	Active Delaware producer
L15-2-21S-28E	30-015-29931	Oxy Pronghorn State #2	0'	APD cancelled – well never drilled
L-2-21S-28E	30-015-39848	Dump State #3H	5858'	Active Delaware producer
N-2-21S-28E	30-015-29778	Experimental State #1	12550'	Active Delaware producer
L9-3-21S-28E	30-015-23236	Bid Eddy #80	12283'	P&A

Additionally, there are two offset horizontal wells with surface hole locations outside the 0.5 mile AOR, but with horizontal laterals within the 0.5 mile AOR. These wells do not penetrate the proposed disposal zone.

UL, Sec, T, R	API Well No.	Well Name	TVD	Status
M-2-21S-28E	30-015-42433	Dump Yard 2 State #1H	8393'	Active BS producer
L13-2-21S-28E	30-015-23100	Dump Yard 2 State #2H	8316'	Active BS producer

1 Mile AOR

There are seven offset wells located outside the 0.5 mile AOR, but located within the 1 mile AOR.  
 These offset wells do not penetrate the proposed disposal zone.

UL, Sec, T, R	API Well No.	Well Name	TVD	Status
L10-2-21S-28E	30-015-26853	Desert Storm State #1	0'	APD cancelled – well never drilled
L11-3-21S-28E	30-015-36593	Big Eddy Unit #193F	0'	APD cancelled – well never drilled
L15-3-21S-28E	30-015-02460	Unknown (Pre-Ongard)	Unknown	P&A – No records in OCD online well file
J-3-21S-28E	30-015-22859	Big Eddy Unit #72	12332'	P&A
C-11-21S-28E	30-015-27941	Big Eddy Unit #129	0'	APD cancelled – well never drilled
D-11-21S-28E	30-015-27940	Big Eddy Unit #128	0'	APD cancelled – well never drilled
E-11-21S-28E	30-015-02471	Big Eddy Unit #130	0'	APD cancelled – well never drilled

**None of the offset wells listed above penetrate the proposed disposal zone (19400' – 14420').**

EXHIBIT "C"

**Judah Oil, LLC**  
**Shinnery Oak SWD #3**  
**API # 30-015-pending**  
**Lot '13', Section 2, T21S, R28E**  
**Eddy County, New Mexico**

<u>API Number</u>	<u>Injection Formation Water Formation</u>	<u>TDS</u>	<u>Chlorides</u>
30-015-02416	Devonian	39,605	22,620

<u>API Number</u>	<u>Possible Disposal Fluid Formation</u>	<u>TDS</u>	<u>Chlorides</u>
30-015-03642	Artesia	28,684	17,030
30-015-21715	Delaware	149,252	99,299
30-015-24707	Delaware	153,408	103,522
30-015-27288	Bone Spring	6038	3352
30-015-26697	Strawn	90,201	55,380
30-015-27939	Del/Wolfcamp	189,739	116,724
30-015-10044	Morrow	31,191	18,540
30-015-02475	Atoka	50,026	29,200
30-015-02475	Devonian	19,941	10,700

Data obtained from GO-Tech NMWAIDS data base.

EXHIBIT "D"



New Mexico Office of the State Engineer  
**Water Column/Average Depth to Water**

No records found.

**PLSS Search:**

Section(s): 1, 2, 3, 10, 11    Township: 21S    Range: 28E

OSE records indicated there are no fresh water wells located within the 1 mile AOR.

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.

10/9/18 4:11 PM

EXHIBIT "E"

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



New Mexico Office of the State Engineer  
**Water Column/Average Depth to Water**

No records found.

**PLSS Search:**

Section(s): 33, 34, 35

Township: 20S

Range: 29E

OSE records indicated there are no fresh water wells located within the 1 mile AOR.

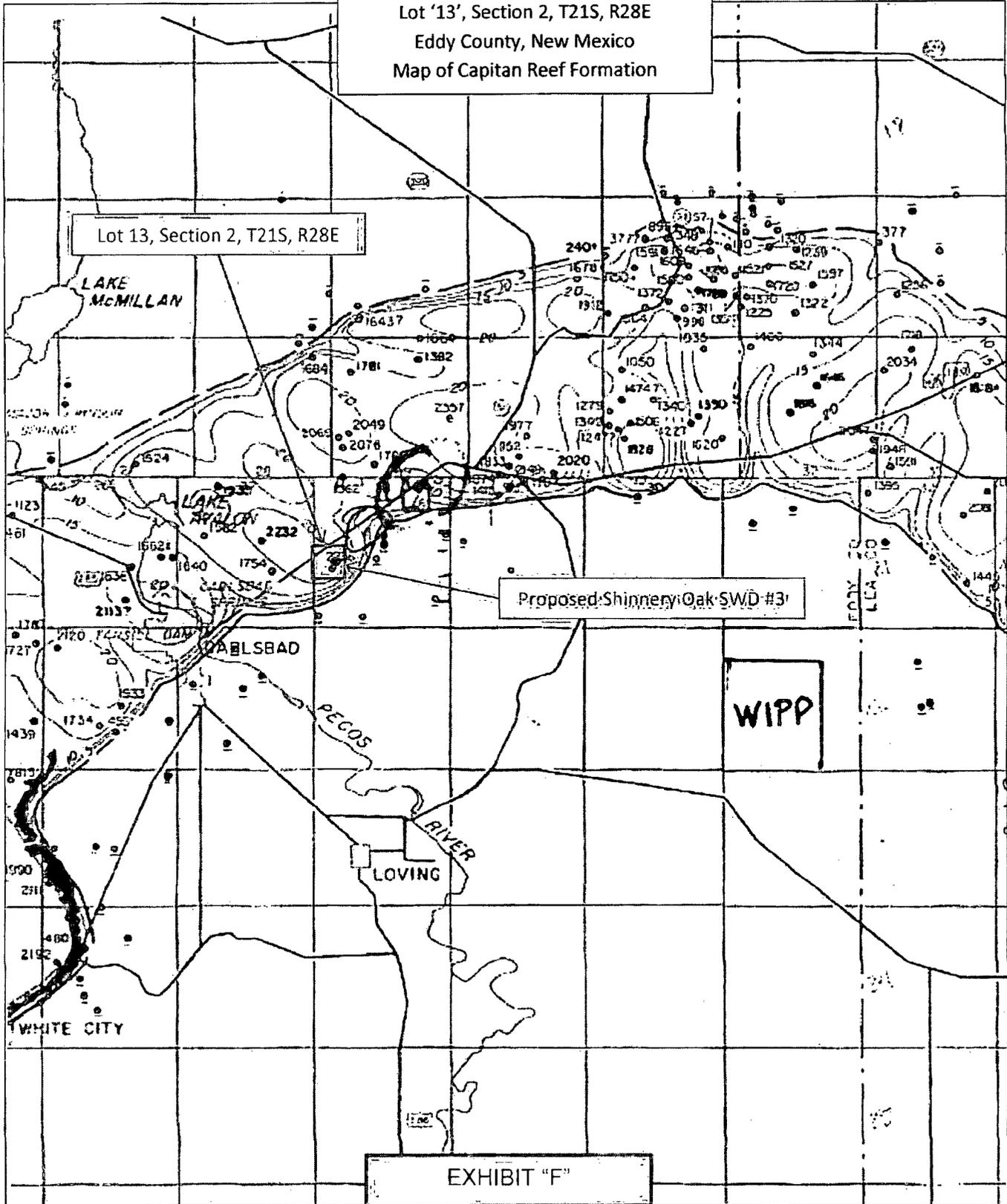
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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EXHIBIT "E"

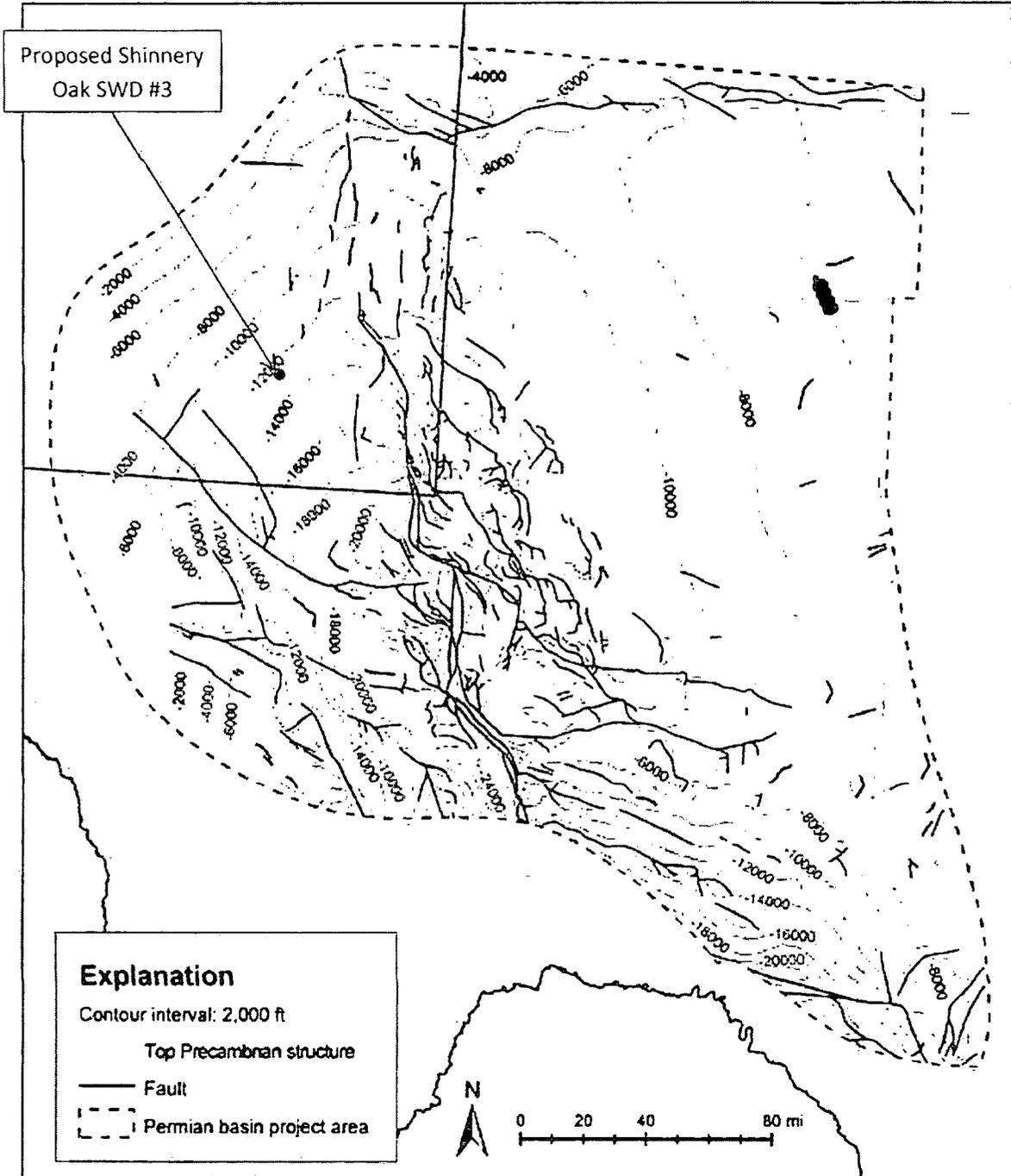
WATER COLUMN/ AVERAGE  
DEPTH TO WATER

Judah Oil, LLC  
Shinnery Oak SWD #3  
API # 30-015-pending  
Lot '13', Section 2, T21S, R28E  
Eddy County, New Mexico  
Map of Capitan Reef Formation



Map Source: OCD Files (SWD-1451)

Judah Oil, LLC  
Shinnery Oak SWD #3  
API # 30-015-pending  
Lot '13', Section 2, T21S, R28E  
Eddy County, New Mexico  
Geologic Fault Map



Map Source: University of Texas

EXHIBIT "F"

# Affidavit of Publication

No. 24939

State of New Mexico

County of Eddy

Danny Scott *[Signature]*

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	December 11, 2018
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

11th day of December 2018



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

*[Signature: Latisha Romine]*

Latisha Romine

Notary Public, Eddy County, New Mexico

# Copy of Publication:

### Legal Notice

Judah Oil, LLC, PO Box 568, Artesia, NM 88211 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to drill a new commercial salt water disposal well named Shinnery Oak SWD #3, API 30-015-pending, located at 3312' FSL x 1014' FWL, Lot "13", Section 2, T21S, R28E, Eddy County, New Mexico. The proposed disposal interval would be the Devonian-Silurian formations through open-hole completion between 13400' - 14420' (or 100' into the top of the Montoya formation). Disposal fluid would be produced water from producing oil and gas wells in the area. Anticipated average disposal volume is 20,000 BWPD with a maximum anticipated volume of 25,000 BWPD. Anticipated average disposal pressure is 1600 psi with a maximum disposal pressure of 2680 psi. The well would be located approximately 6 miles northeast of Carlsbad, New Mexico. All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Danny Helcomb at 806-471-5628.

Published in the Artesia Daily Press, Artesia, N.M., Dec. 11, 2018 Legal No. 24939.

EXHIBIT "G"

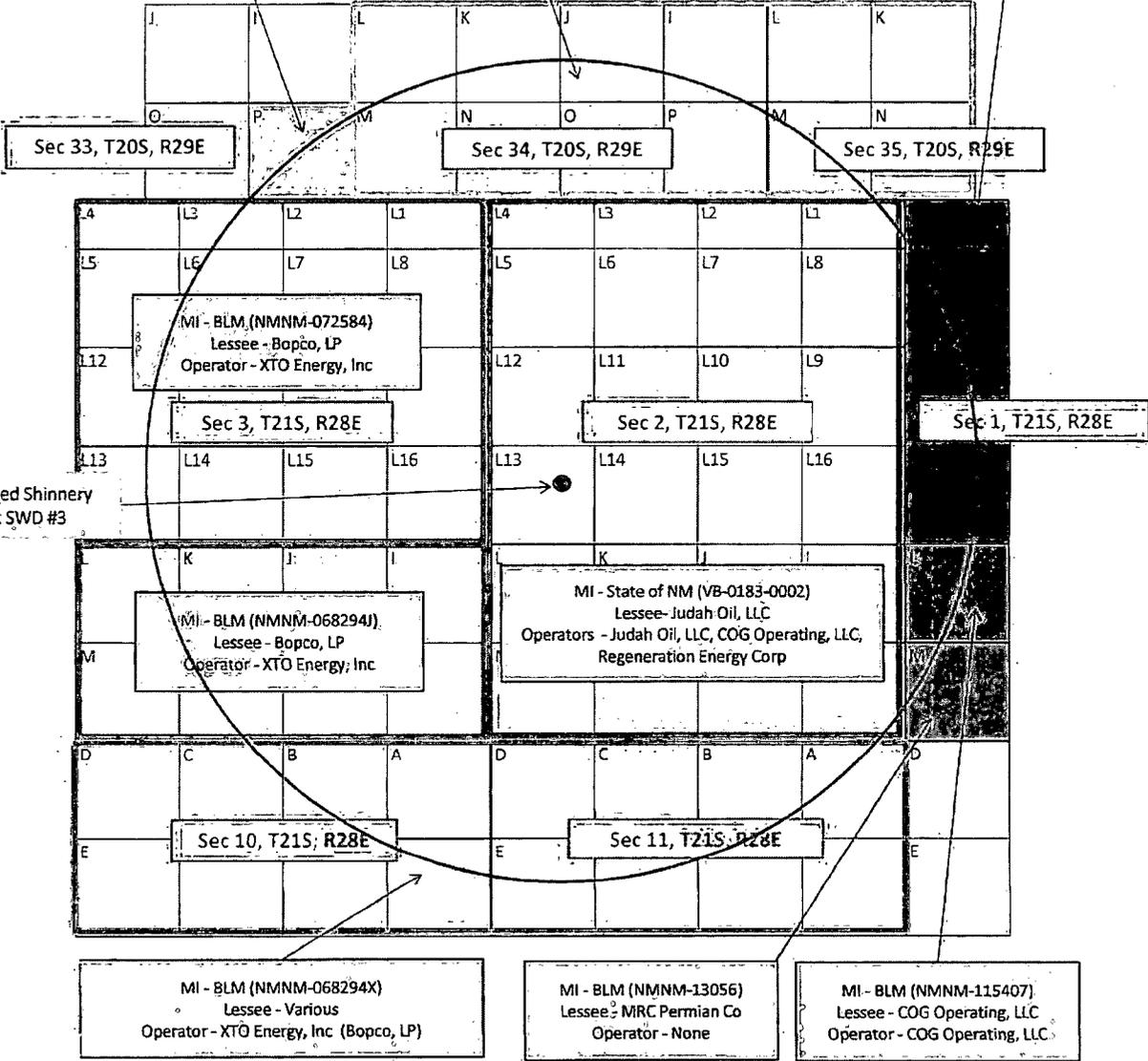


Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API # 30-015-pending  
 1 Mile AOR for Notice

MI - BLM (NMNM-091049)  
 Lessee - Trigg Oil & Gas, LP  
 Operator - EOG Y Resources, Inc

MI - BLM (NMNM-103602)  
 Lessee - EOG Y Resources, Inc.  
 Operator - EOG Y Resources, Inc

MI - BLM  
 Lessee - Unleased  
 Operator - None



Proposed Shinnery  
 Oak SWD #3

This location 3312' FSL X 1018' FWL  
 Surface Owner - Levi Oil & Gas, LLC, 611 W. Mahone Ave Suite D, Artesia, NM 88211  
 Drawing not to scale

EXHIBIT "G"

Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API #30-015-pending

**EXHIBIT 'G' - NOTIFICATION LIST**

**Section 2, T21S, R28E, NMPM (Lot 13)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
1	Levi Oil & Gas, LLC	611 W. Mahone Ave, Suite D	Artesia, NM 88210-2075	Surface Owner

**Section 33, T20S, R29E, NMPM (UL P)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
3	EOG Y Resources, Inc	105 Fourth Street	Artesia, NM 88210-2177	Operator
	Trigg Oil & Gas, LP	P. O. Box 520	Roswell, NM 88202-2323	Lessee

**Section 34, T20S, R29E, NMPM (ULs I, J, K, L, M, N, O, P)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
3	EOG Y Resources, Inc	105 Fourth Street	Artesia, NM 88210-2177	Operator
3	EOG Y Resources, Inc	105 Fourth Street	Artesia, NM 88210-2177	Lessee

**Section 35, T20S, R29E, NMPM (UL M)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
3	EOG Y Resources, Inc	105 Fourth Street	Artesia, NM 88210-2177	Operator
3	EOG Y Resources, Inc	105 Fourth Street	Artesia, NM 88210-2177	Lessee

**Section 1, T21S, R28E; NMPM (Lots 4, 5, 12, 13)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
	Unleased			Lessee

**Section 1, T21S, R28E, NMPM (UL L)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner.
4	COG Operating, LLC	2208 W. Main Street	Artesia, NM 88210	Operator
4	COG Operating, LLC	2208 W. Main Street	Artesia, NM 88210	Lessee

**Section 1, T21S, R28E, NMPM (UL M)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
5	MRC Permian Company	5400 LBJ Fwy, Suite 1500	Dallas, TX 75240-1017	Lessee

EXHIBIT "G"

Judah Oil, LLC  
 Shinnery Oak SWD #3  
 API #30-015-pending

EXHIBIT 'G' - NOTIFICATION LIST

Section 2, T21S, R28E, NMPM (All Uls)

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
6	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Mineral Owner
	Judah Oil, LLC	P. O. Box 568	Artesia, NM 88211	Lessee/Oper
4	COG Operating, LLC	2208 W. Main Street	Artesia, NM 88210	Operator
7	Regeneration Energy Corporation	P. O. Box 210	Artesia, NM 88211-0210	Operator

Section 3, T21S, R28E, NMPM (Lots 1-16)

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
8	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
3	XTO Energy, Inc	3104 E. Greene Street	Carlsbad, NM 88220	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee

Section 3, T21S, R28E, NMPM (ULs I, J, K, N, O, P)

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
8	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
3	XTO Energy, Inc	3104 E. Greene Street	Carlsbad, NM 88220	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee

Section 10, T21S, R28E, NMPM (ULs A, B, C, D, E, F, G, H, I)

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
8	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
3	XTO Energy, Inc	3104 E. Greene Street	Carlsbad, NM 88220	Operator
	Various			Lessee

Section 11, T21S, R28E, NMPM (ULs A, B, C, D, E, F, G, H, I)

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
2	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220-6292	Mineral Owner
8	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
3	XTO Energy, Inc	3104 E. Greene Street	Carlsbad, NM 88220	Operator
	Various			Lessee

NMOCD Notices

#	NAME	ADDRESS	CITY STATE ZIP
10	NMOCD Engineering Bureau	1220 South St. Francis Drive	Santa Fe, NM 87505
9	NMOCD District 2 Office	811 S. First Street	Artesia, NM 88210-2834

Mailed 12/10/18  
 Mailed 12/17/18

EXHIBIT "G"



December 12, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2086.

**Item Details**

**Status:** Delivered, Left with Individual  
**Status Date / Time:** December 12, 2018, 8:03 am  
**Location:** ARTESIA, NM 88210  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

<b>Signature of Recipient:</b>	
<b>Address of Recipient:</b>	104 S. 4th

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,  
 United States Postal Service®  
 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**

ARTESIA, NM 88210

0206  
10

Certified Mail Fee	\$3.45
Postage	\$1.63
<b>Total Postage and Fees</b>	<b>\$6.58</b>

EOG Y Resources, Inc  
 105 South Fourth Street  
 Artesia, NM 88210-2177

7017 2680 0000 8751 2086



December 12, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2130.

**Item Details**

**Status:** Delivered  
**Status Date / Time:** December 12, 2018, 10:10 am  
**Location:** ARTESIA, NM 88210  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

Signature of Recipient: *Randy Miller*  
*Randy M. Her*

Address of Recipient: *Box 210*

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

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 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**

7017 2680 0000 8751 2130

ARTESIA, NM 88210

Postage and Fees: \$3.45

Postmark Here: 0208 10 10

12/10/2018

Regeneration Energy Corp  
 P. O. Box 210  
 Artesia, NM 88210-0210



December 12, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2123.

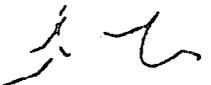
Item Details

**Status:** Delivered, Left with Individual  
**Status Date / Time:** December 12, 2018, 10:22 am  
**Location:** ARTESIA, NM 88210  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

Shipment Details

**Weight:** 4.0oz

Recipient Signature

Signature of Recipient:   
 Address of Recipient: 

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,  
 United States Postal Service®  
 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**  
 ARTESIA, NM 88210  
 Certified Mail Fee \$3.45  
 Postage \$1.63  
 Total Postage and Fee \$6.58  
 COG Operating, LLC  
 2208 W. Main Street  
 Artesia, NM 88210  
 12/10/2018  
 7017 2680 0000 8751 2123



December 12, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2093.

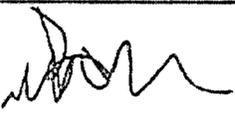
**Item Details**

**Status:** Delivered, Front Desk/Reception/Mail Room  
**Status Date / Time:** December 12, 2018, 11:15 am  
**Location:** DALLAS, TX 75240  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

Signature of Recipient: 

Address of Recipient: 5400 LBJ  
#1501

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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United States Postal Service®  
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Washington, D.C. 20260-0004

**U.S. Postal Service**  
**CERTIFIED MAIL® RECEIPT**  
 Delivery Point Only

7017 2680 0000 8751 2093

DALEAS TX 75240

Postage and Fees: \$3.45

Additional Services & Fees (check box, add fee):

- 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 II \$0.00

Postage: \$1.63

Total Postage and Fees: \$6.58

Postmark: 12/10/2018

MRC Permian Company  
 5400 LBJ Fwy, Suite 1500  
 Dallas, TX 75240-1017





December 12, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2147.

**Item Details**

**Status:** Delivered, Front Desk/Reception/Mail Room  
**Status Date / Time:** December 12, 2018, 12:31 pm  
**Location:** CARLSBAD, NM 88220  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

Signature of Recipient: *T. N. ...*  
 Address of Recipient: *620 E. Greene*

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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 Washington, D.C. 20260-0004

7017 2680 0000 8751 2147

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**  
 Address for Mail Only

For delivery information, visit us at [usps.com](http://usps.com)

CARLSBAD, NM 88220

Postage and Fees: 83.45

Additional Services & Fees (check one, add):

<input type="checkbox"/> Return Receipt (hardcopy)	0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	0.00
<input type="checkbox"/> Adult Signature Required	0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	0.00

Postage: 61.63

Total Postage and Fees: 123.08

Postmark: CARLSBAD, NM 12/10/2018

United States Dept of Interior  
 Bureau of Land Management  
 620 E. Greene Street  
 Carlsbad, NM 88220-6292

U.S. Form 3800, 10/07



December 13, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2116.

**Item Details**

**Status:** Delivered, Left with Individual  
**Status Date / Time:** December 13, 2018, 7:54 am  
**Location:** ARTESIA, NM 88210  
**Postal Product:** First-Class Mail<sup>®</sup>  
**Extra Services:** Certified Mail<sup>™</sup>  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

**Signature of Recipient:** *Dana Clayton*  
**Address of Recipient:** 611 Mahone Dr  
 Artesia NM 88210

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service<sup>®</sup> for your mailing needs. If you require additional assistance, please contact your local Post Office<sup>™</sup> or a Postal representative at 1-800-222-1811.

Sincerely,  
 United States Postal Service<sup>®</sup>  
 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

7017 2680 0000 8751 2116

U.S. Postal Service  
**CERTIFIED MAIL<sup>®</sup> RECEIPT**

ARTESIA, NM 88210

Certified Mail Fee: \$3.45

Postage: \$1.63

Total Postage and Fees: \$6.58

Levi Oil & Gas, LLC  
 611 W. Mahone Drive, Ste D  
 Artesia, NM 88210-2075

12/13/2018 7:54 AM



December 13, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2161.

**Item Details**

<b>Status:</b>	Delivered
<b>Status Date / Time:</b>	December 13, 2018, 11:33 am
<b>Location:</b>	SANTA FE, NM 87501
<b>Postal Product:</b>	First-Class Mail®
<b>Extra Services:</b>	Certified Mail™ Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

<b>Signature of Recipient:</b>	
<b>Address of Recipient:</b>	Santa Fe, NM 87501 P.O. Box 1148

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,  
 United States Postal Service®  
 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

**U.S. Postal Service®  
CERTIFIED MAIL® RECEIPT**

SANTA FE, NM 87501

Certified Mail Fee: 03.45

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: 01.63  
 Total Postage and Fees: 06.58

Postmark Here  
 12/10/2018

State of New Mexico  
 Commissioner of Public Land  
 P. O. Box 1148  
 Santa Fe, NM 87504

7017 2680 0000 8751 2161

EXHIBIT A



December 26, 2018

Dear Danny Holcomb:

The following is in response to your request for proof of delivery on your item with the tracking number: 7017 2680 0000 8751 2185.

**Item Details**

**Status:** Delivered  
**Status Date / Time:** December 26, 2018, 3:15 pm  
**Location:** CARLSBAD, NM 88220  
**Postal Product:** First-Class Mail®  
**Extra Services:** Certified Mail™  
 Return Receipt Electronic

**Shipment Details**

**Weight:** 4.0oz

**Recipient Signature**

Signature of Recipient:	<i>Danny Holcomb</i>
Address of Recipient:	<i>3104 E. Greene St</i>

Note: Scanned image may reflect a different destination address due to intended recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,  
 United States Postal Service®  
 475 L'Enfant Plaza SW  
 Washington, D.C. 20260-0004

7017 2680 0000 8751 2185

U.S. Postal Service®  
**CERTIFIED MAIL RECEIPT**  
 For delivery information, visit our website at [usps.com](http://usps.com)

**OFFICIAL USE**

Carlsbad, NM 88220

Certified Mail Fee	\$3.45
Additional Services & Fees (Leave blank, add the amount)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$1.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.63
<b>Total Postage and Fees</b>	<b>\$6.58</b>

XTO Energy, Inc.  
 3104 E. Greene Street  
 Carlsbad, NM 88220

12/17/2018  
 0206 77