

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 FED SWD No. 2 WELL  
FOR PURPOSES OF DISPOSAL, EDDY  
COUNTY, NEW MEXICO.

CASE NO. 20441

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 May 31, 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 convert the Bigg Eddy Unit No. 32 Well (API No. 30-015-20309), which is located 660 feet from the south line and 660 feet from the west line (Unit M), Section 15, Township 21 South, Range 28 East, NMPM, Eddy County, New Mexico, from plugged and abandoned status to a commercial water disposal well to be named **Shinnery Oak Fed SWD No. 2 Well**.
3. The proposed injection disposal interval would be within the Devonian-Montoya formations through an open-hole completion between 13,260 feet and 14,250 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 18,000 barrels of water per day with a maximum anticipated volume of 20,000 barrels of water per day. The average injection pressure is expected to be approximately 2,000 psi with a maximum injection pressure of 2,652 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

Post Office Box 2208

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**ATTORNEYS FOR JUDAH OIL, LLC**

CASE 20441:

**Application of Judah Oil, LLC For Authorization to Inject into the Shinnery Oak Fed SWD No. 2 Well For Purposes of Disposal, Eddy County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing operate an injection well for purposes of disposing produced salt water. Applicant proposes to convert the Bigg Eddy Unit No. 32 Well (API No. 30-015-20309), which is located 660 feet from the south line and 660 feet from the west line (Unit M), Section 15, Township 21 South, Range 28 East, NMPM, Eddy County, New Mexico, from plugged and abandoned status to a commercial water disposal well to be named **Shinnery Oak Fed SWD No. 2 Well**. Injection would be into the Devonian-Montoya formations through an open-hole completion between 13,260 feet and 14,250 feet. Disposal fluid will be produced water from producing oil and gas wells in the area. Average disposal volume will be 18,000 bpd with a maximum of 20,000 bpd. Average injection pressure will be 2,000 psi with a maximum injection pressure of 2,2,652 psi. The subject well will be located approximately 9 miles northeast of Carlsbad, N.M.

Sent 5-18  
5-21-18

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

<b>Applicant:</b> Judah Oil, LLC	<b>OGRID Number:</b> 245872
<b>Well Name:</b> Shinnery Oak Fed SWD #2	<b>API:</b> 30-015-20309
<b>Pool:</b> SWD; Devonian - Montoya	<b>Pool Code:</b> 97803

**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.

James B. Campanella

Print or Type Name

  
 Signature

5-21-2018  
Date

575-748-5488  
Phone Number

jbc@judahoil.com  
e-mail Address

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

May 31, 2018

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

*Blaise,  
Your copy of completed  
C-108 application.  
Thank you,  
Danny Holcomb*

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 C108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to convert the Big Eddy Unit #32 P&A, API 30-015-20309, located at 660' FSL x 660' FWL, Unit Letter "M", Section 15, T21S, R28E, Eddy County, New Mexico from a plugged and abandoned well to a commercial salt water disposal well. The proposed well would be renamed as the Shinnery Oak Fed SWD #2. The proposed disposal interval would be the Devonian-Montoya formations through open-hole completion between 13260' - 14250' (near Devonian formation top to 100' into the Montoya formation). Disposal fluid would be produced water from producing oil and gas wells in the area. Anticipated average disposal volume is 18,000 BWPD with a maximum anticipated volume of 20,000 BWPD. Anticipated average disposal pressure is 2000 psi with a maximum disposal pressure of 2652 psi. The well would be located approximately 9 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@pwillc.net](mailto:danny@pwillc.net)

Attachments

**EXHIBIT A**

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

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
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**ADMINISTRATIVE APPLICATION CHECKLIST**

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<b>Applicant:</b> Judah Oil, LLC	<b>OGRID Number:</b> 245872
<b>Well Name:</b> Shinnery Oak Fed SWD #2	<b>API:</b> 30-015-20309
<b>Pool:</b> SWD: Devonian - Montoya	<b>Pool Code:</b> 97803

**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

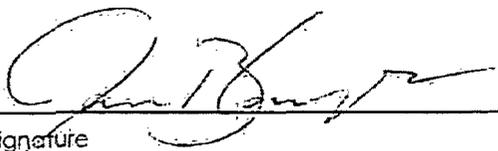
<b>FOR OCD ONLY</b>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

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.**

James B. Campanella \_\_\_\_\_

Print or Type Name

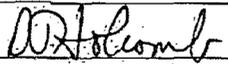
  
 \_\_\_\_\_  
 Signature

5-21-2018  
 \_\_\_\_\_  
 Date

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

jbc@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: \_\_\_\_\_
- 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:
- Proposed average and maximum daily rate and volume of fluids to be injected;
  - Whether the system is open or closed;
  - Proposed average and maximum injection pressure;
  - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  - 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: 5/31/2018  
E-MAIL ADDRESS: danny@pwllic.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 Fed SWD #2  
API # 30-015-20309  
660' FSL x 660' FWL  
Unit Letter 'M', Section 15, 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 a current P&A well to be converted to a commercial salt water disposal well. The current well name is the Big Eddy Unit #32 and the proposed well name is the Shinnery Oak Fed SWD #2. The injection interval would be in the Devonian - Montoya formations through open-hole completion between 13260' – 14250' (near Devonian top to 100' into the Montoya 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 Fed SWD #2 (previously Big Eddy Unit #32)  
API Number: 30-015-20309  
Location: Unit Letter 'M', Section 15, T21S, R28E, Eddy County, New Mexico  
Operator: Judah Oil, LLC OGRID: 245872  
Proposed Formation: SWD; Devonian - Montoya (Pool Code: 97803)  
Please see Exhibit "A" for additional well data.

IV.

This is an expansion of an existing project. If approved, the Shinnery Oak Fed SWD #2 will become part of the project approved in AO SWD-1533 for the Pronghorn Fed SWD #1 (30-015-20866). It is the operator's intent to rename the Pronghorn Fed SWD #1 well as the Shinnery Oak Fed SWD #1. Both wells would be served by the current water station serving the #1 well.

V.

Please see Exhibit "B" for lease map.

VI.

There are nine offset wells located within the 0.5 mile Area of Review. There are nine additional offset wells located within the 0.5 to 1 mile AOR. None of these offset wells penetrate the proposed disposal interval. See AOR map and a list of offset wells in Exhibit "C".

VII.

1. Anticipated disposal volume – 18,000 BWPD with a maximum of 20,000 BWPD.
2. System will be closed. The well will receive water via pipeline from the existing central water station and pump serving the Pronghorn Fed SWD #1.
3. Anticipated disposal pressure: Average 2000 psig, Maximum 2652 psig.
4. Disposed fluid will be trucked in and pipelined in from producing wells in the immediate area. Please see Exhibit "D" for fluid analysis from area wells.
5. Please see Exhibit "D" for disposal zone fluid analysis.

Judah Oil, LLC  
 Shinnery Oak Fed SWD #2  
 API # 30-015-20309  
 660' FSL x 660' FWL  
 Unit Letter 'M', Section 15, T21S, R28E  
 Eddy County, New Mexico  
**C-108 Application for Authorization to Inject**

VIII.

Formation	Anticipated Depth (ft)	Lithology
Alluvium	0 - 490	Unconsolidated gravel, sand, red beds
T. Salt	1225	Salt, anhydrite
B. Salt	2100	Salt, anhydrite
T. Morrow	11200	Shale, limestone
T. Lower Mississippi	12650	Limestone
T. Woodford	13100	Shale
T. Devonian	13250	Cherty fractured limestone and dolomite
T. Montoya	14150	Cherty fractured limestone and dolomite
Proposed disposal zone	13260 - 14250	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 1225'. No underground source of drinking water is known to exist below the proposed disposal zone.

IX.

**Proposed Completion Procedure:** After drilling out the cement plugs, deepen well to new casing point at ~13260' (min 10' below top of Devonian), run 7" 26/32# casing to 13260', cement in 2 stages (1000 & 1200 sacks) with DV tool at 7000'. Run 6-1/4" bit, drill out 7" shoe track and deepen well to new TD ~14250' (approximately 100' below top of Montoya). 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 4-1/2" OD internally Duo-Lined injection tubing and nickel plated packer will be run. Packer will be set a maximum of 100' above the injection interval.

X.

Copies of any 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.

XIII.

Please see Exhibit "F" for Proof of Notice. Included is a map of the Area of Review, list of noticees and certified mail electronic signature receipts for noticees. 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: 5/31/2018

**EXHIBIT A**

**Judah Oil, LLC**  
**Shinnery Oak Fed SWD #2**  
**API # 30-015-20309**  
**660' FSL x 660' FWL**  
**Unit Letter 'M', Section 15, T21S, R28E**  
**Eddy County, New Mexico**  
**Well Data**

**History**

Well spudded 6/6/1970 by Pennzoil United, Inc as a Strawn test.

Drilled 17-1/2" hole to 497', ran 13-3/8" 48# surface casing to 497', cemented with 550 sacks cement. Circulated cement to surface.

Drilled 12-1/4" hole to 2524', ran 9-5/8" 36# intermediate casing to 2524', cemented with 2025 sacks cement. Cement did not circulate. Ran temperature survey and found TOC @ 375' (above surface shoe).

Drilled 8-3/4" hole to 11578', ran logs, no commercial production found. Well plugged and abandoned 7/16/1970.

On 12/30/1974, Perry R. Bass drilled out cement plugs and deepened well to 12395' as a Morrow test. The well was logged and re-plugged/abandoned on 2/3/1975. See "Current Wellbore Diagram" on page 4 for plug depths.

<u>Formation Tops</u>	<u>Reported Depths (ft)</u>
Delaware Sand	2630
Bone Spring	6052
Wolfcamp	9646
Strawn	10880
Morrow	11200

**Proposed Plan**

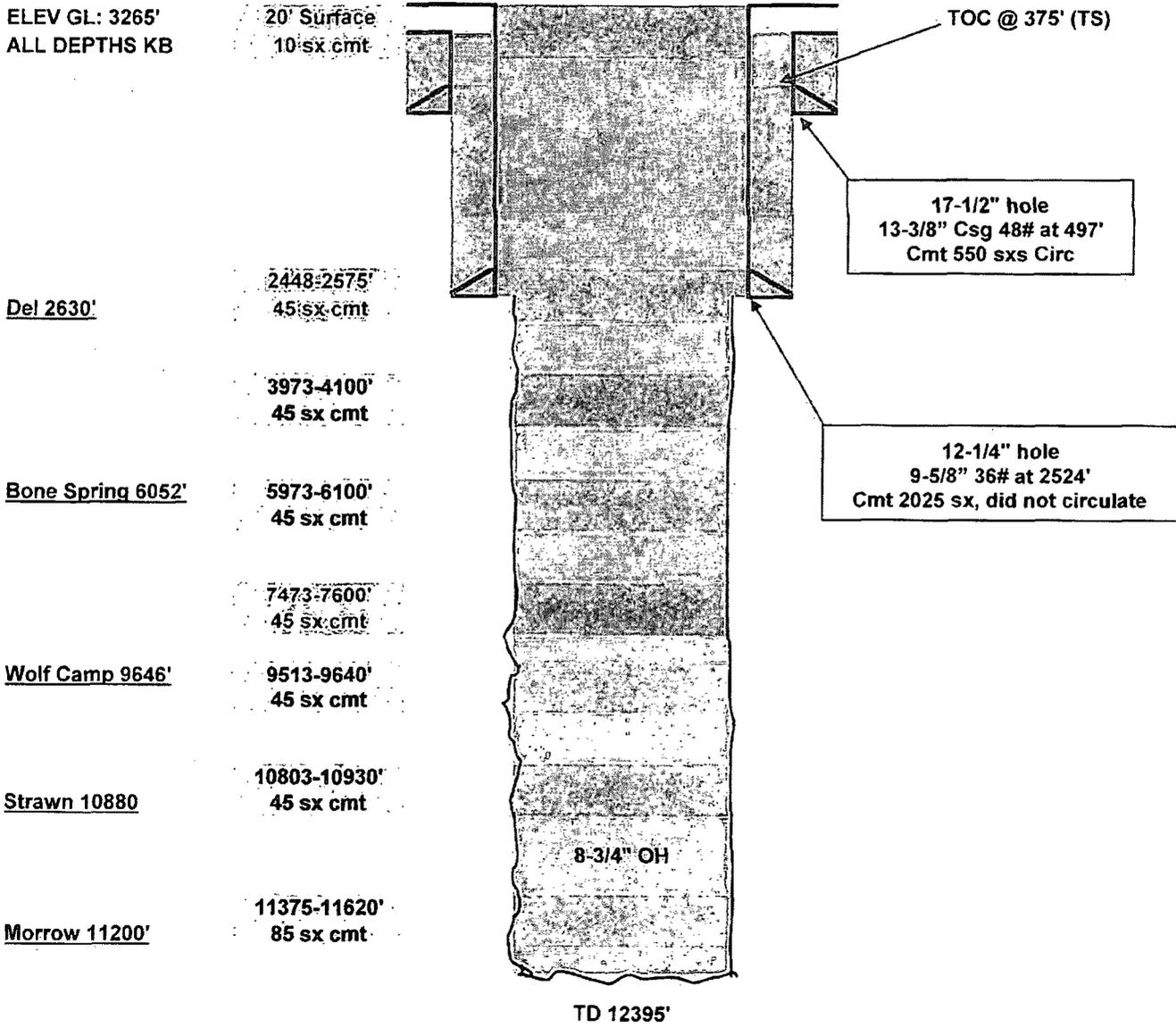
Drill out surface plug, test intermediate casing, drill out rest of cement plugs, deepen well to new casing point at ~13260' (min 10' below top of Devonian), run 7" 26/32# casing to 13260', cement in 2 stages (1000 & 1200 sacks cement) with DV tool at 7000'. Run 6-1/4" bit, drill out 7" shoe track and deepen well to new TD ~14250' (approximately 100' below top of Montoya). Swab for insitu water, if possible. If ok, perform pump-in test. Run 4-1/2" Duoline tubing, set packer at ~13200'.

<u>Formation Tops</u>	<u>Estimated Depths (ft)</u>
Barnett Shale	12450
Lower Mississippi	12650
Woodford Shale	13100
Devonian/Silurian	13250
Fusselman	13450
Montoya	14150
Proposed Disposal Zone	13260 – 14250

EXHIBIT "A"

**Judah Oil, LLC**  
**Big Eddy Unit #32**  
**API # 30-015-20309**  
**660 FSL X 660 FWL**  
**Unit Letter "M", Section 15, T21S, R28E**  
**Eddy County, New Mexico**  
**Spud 06/06/1970 as Strawn Test**  
**Plugged and Abandoned 07/16/1970**  
**Deepened and replugged 2/3/1975**  
**Current Wellbore Diagram**  
**Drawing not to scale**

**ELEV KB: 3288'**  
**ELEV GL: 3265'**  
**ALL DEPTHS KB**



**EXHIBIT "A"**

Judah Oil, LLC  
 Shinnery Oak Fed SWD #2  
 API # 30-015-20309  
 660 FSL X 660 FWL  
 Unit Letter "M", Section 15, T21S, R28E  
 Eddy County, New Mexico  
 Spud 06/06/1970 as Strawn Test  
 Plugged and Abandoned 07/16/1970  
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 Proposed Wellbore Diagram  
 Drawing not to scale

ELEV KB: 3288'  
 ELEV GL: 3265'  
 ALL DEPTHS KB

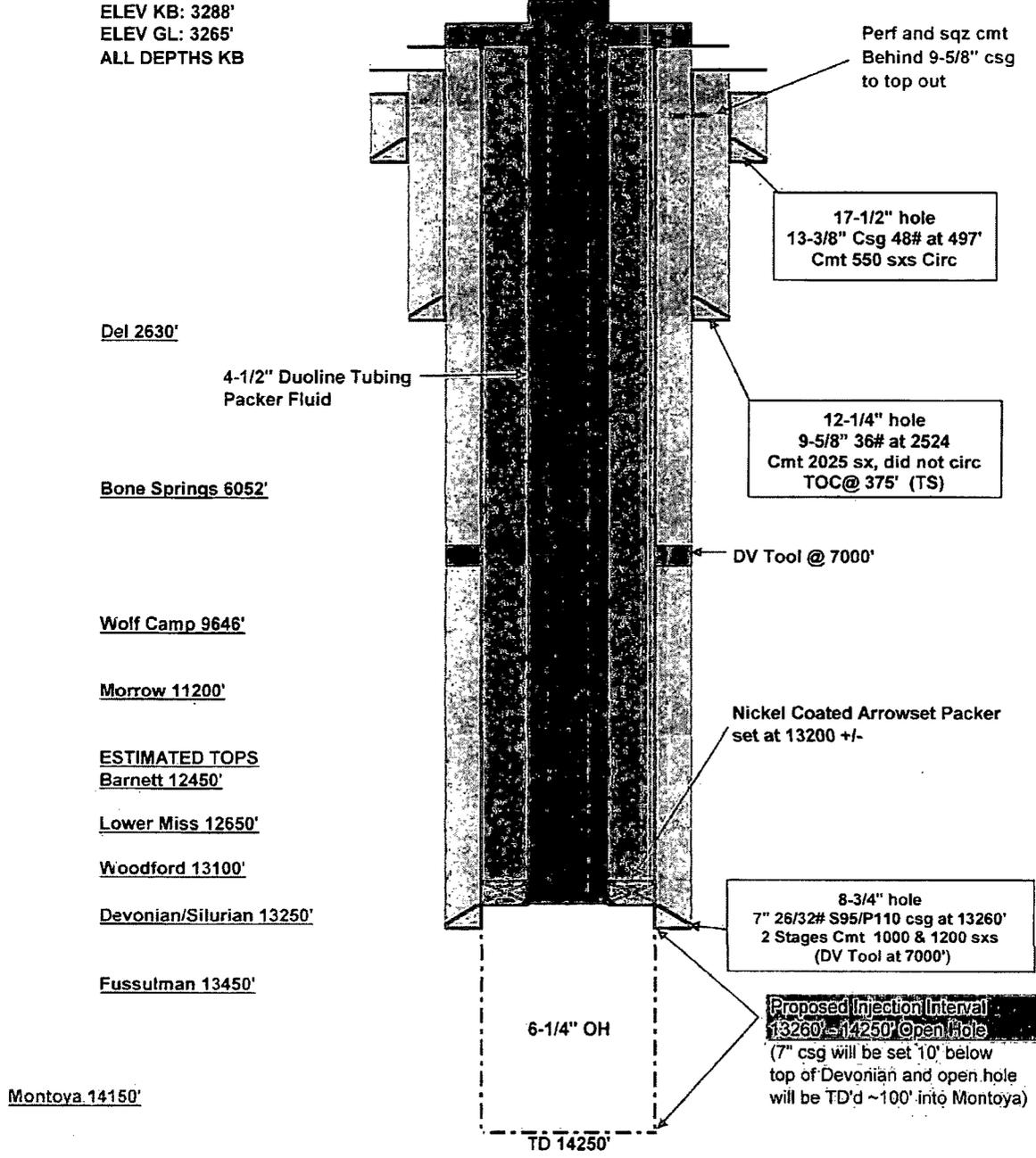


EXHIBIT "A"

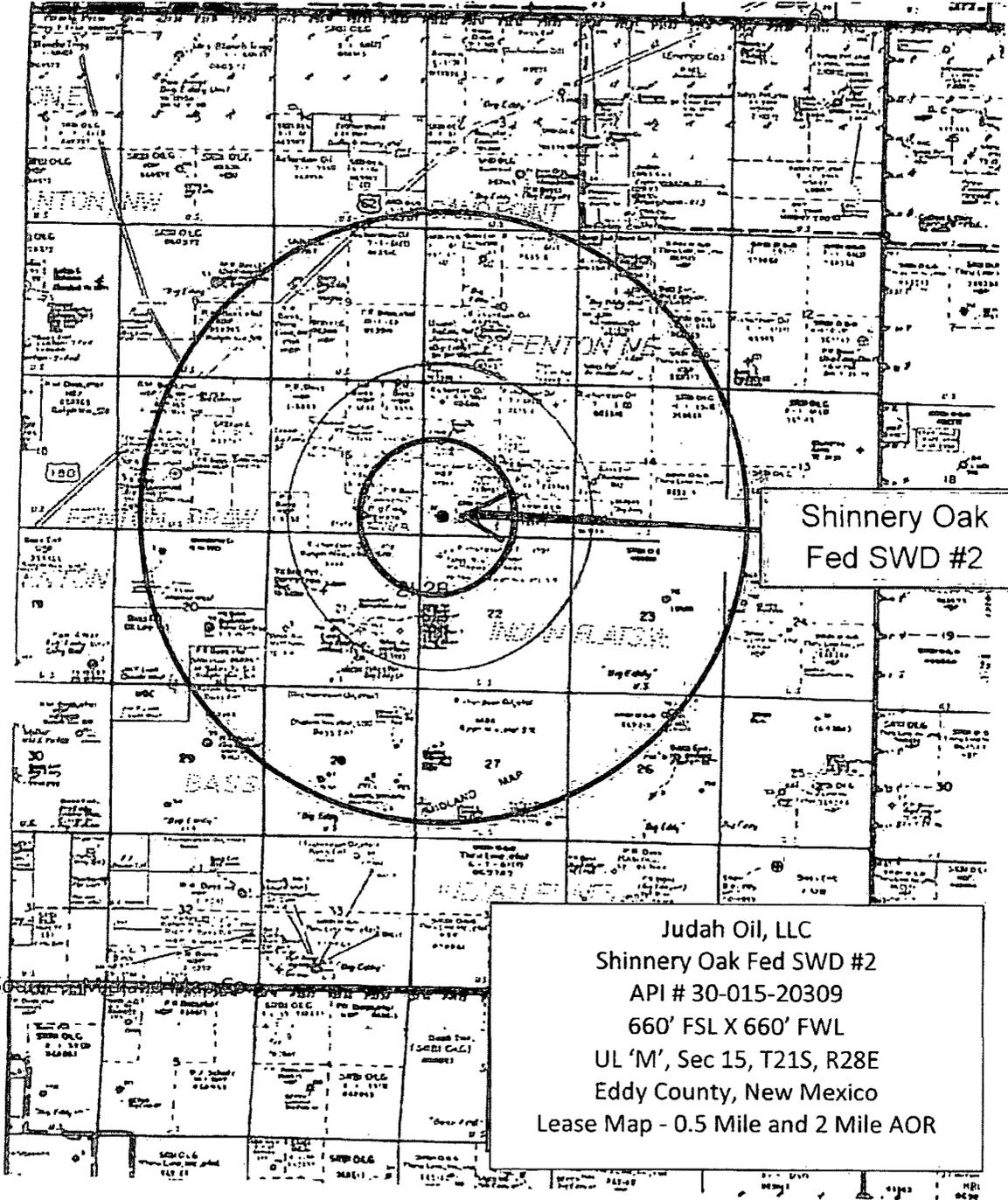
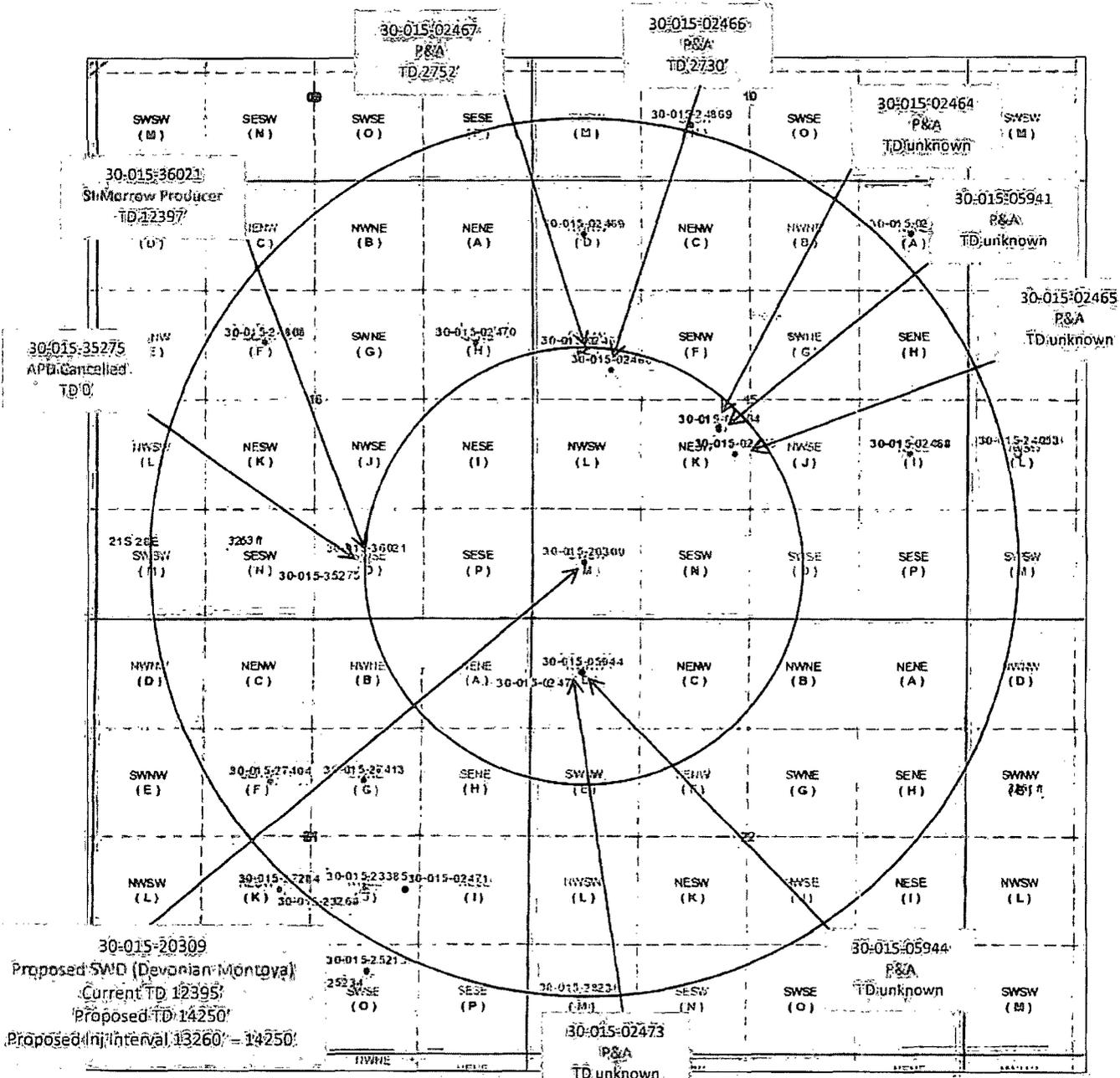


EXHIBIT "B"

**Judah Oil, LLC**  
**Shinnery Oak Fed SWD #2**  
**API 30-015-20309**  
**660' FSL x 660' FWL, UL 'M', Sec 15, T21S, R28E**  
**0.5 and 1 Mile AORs**



Source: OCD GIS Oil/Gas Map

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 Fed SWD #2**  
**API # 30-015-20309**  
**Offset Wells within 0.5 Mile and 1 Mile AORs**

0.5 Mile AOR

There are nine 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
E-15-21S-28E	30-015-02466	Muse Fed #1	2730'	P&A
E-15-21S-28E	30-015-02467	Muse Fed #2	2752'	P&A
K-15-21S-28E	30-015-02464	C F Ingram #1	unknown	P&A - no data available in OCD files
K-15-21S-28E	30-015-02465	Leila C Fulton #1	unknown	P&A - no data available in OCD files
K-15-21S-28E	30-015-05941	C F Ingram #1	unknown	P&A - no data available in OCD files
O-16-21S-28E	30-015-35275	Big Eddy Unit #168C	0'	Cancelled APD – well never drilled
O-16-21S-28E	30-015-36021	Big Eddy Unit #168	12397'	Shut In since July 2017 (Morrow)
D-22-21S-28E	30-015-02473	Yates Nix #3	unknown	P&A - no data available in OCD files
D-22-21S-28E	30-015-05944	Yates Nix #3	unknown	P&A - no data available in OCD files

1 Mile AOR

There are nine 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
D-15-21S-28E	30-015-02469	Schuster-Messinger #2	unknown	P&A - no data available in OCD files
I-15-21S-28E	30-015-02468	Page #1	2649'	P&A
F-16-21S-28E	30-015-24808	Big Eddy Unit #99	5250'	P&A
H-16-21S-28E	30-015-02470	Momsen State #1	2659'	P&A
F-21-21S-28E	30-015-27404	Garretson AMI Fed #3	6080'	P&A
G-21-21S-28E	30-015-27413	Garretson AMI Fed #4	unknown	P&A - no data available in OCD files
J-21-21S-28E	30-015-02471	Yates Nix #1	unknown	P&A - no data available in OCD files
J-21-21S-28E	30-015-23385	Big Eddy Unit #79Y	12377'	Active Delaware SWD
J-21-21S-28E	30-015-23268	Big Eddy Unit #79	1646'	P&A

None of the offset wells listed above penetrate the proposed disposal zone (13260' – 14250').

EXHIBIT "C"



Judah Oil, LLC  
Shinnery Oak Fed SWD #2  
API # 30-015-20309  
Unit Letter 'M', Section 15, T21S, R28E  
Eddy County, New Mexico

<u>API Number</u>	<u>Injection Formation Water Formation</u>	<u>TDS</u>	<u>Chlorides</u>
30-015-05819	Devonian	28,500	13,900

<u>API Number</u>	<u>Possible Disposal Fluid Formation</u>	<u>TDS</u>	<u>Chlorides</u>
30-015-10329	Artesia	43,392	20,700
30-015-20179	Delaware	19,205	8,484
30-015-10775	Strawn	122,896	75,260
30-015-27939	Del/Wolfcamp	189,739	116,724
30-015-22002	Morrow	Unknown	81,792

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): 9, 10, 15, 16, 21, 22      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.

5/21/18 3:53 PM

EXHIBIT "E"

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

Legal Notice

Affidavit of Publication

No. 24683

State of New Mexico

County of Eddy:

Danny Scott *Danny Scott*

being duly sworn says that she is the 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	May 23, 2018
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this 23rd day of May 2018



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires 5/12/2019

*Latisha Romine*

Latisha Romine  
Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

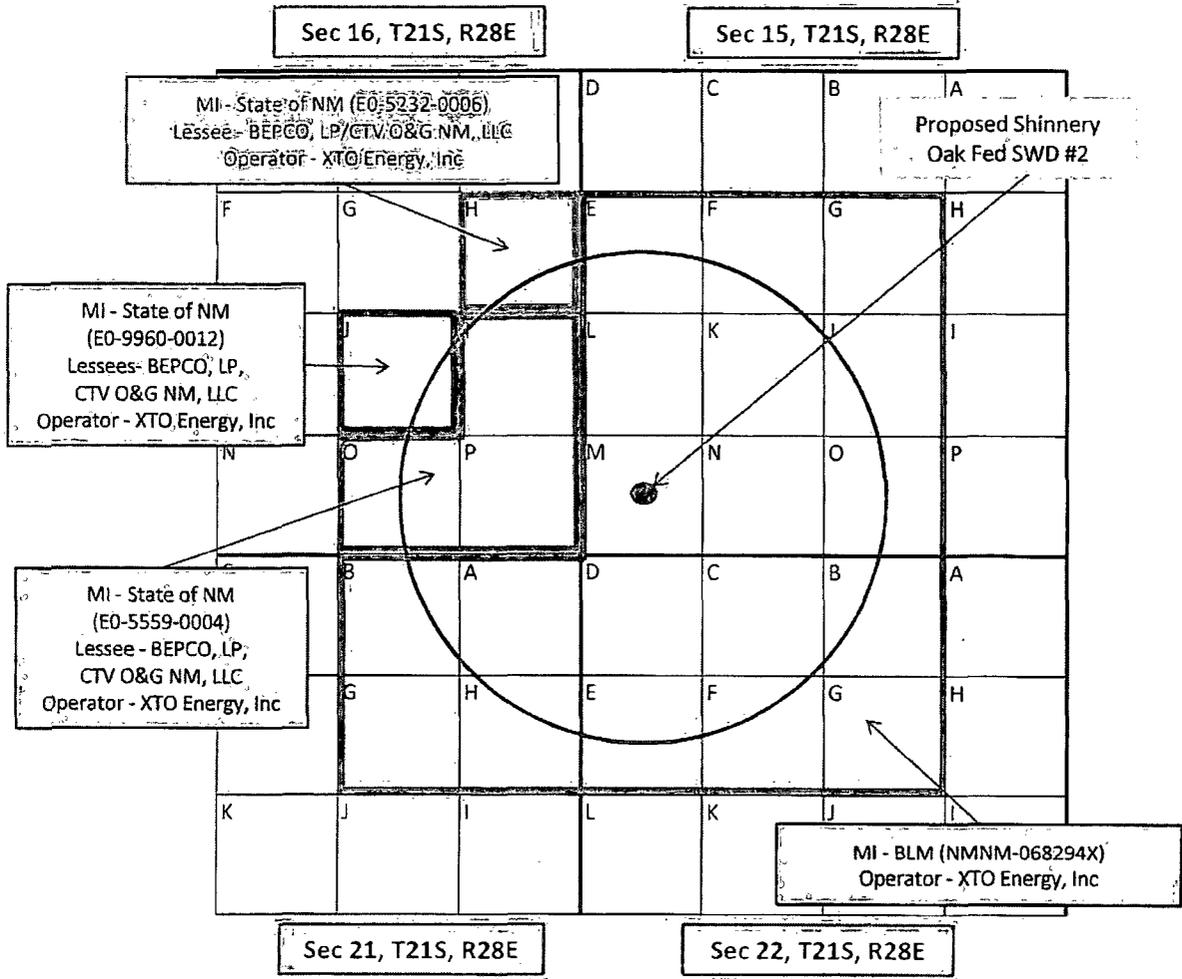
Judah Oil, L.L.C. PO Box 568, Artesia, NM 88211 has filed form C108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to convert the Big Eddy Unit #32 P&A, API 30-015-20309, located at 660' FSL x 660' FWL, Unit Letter "M", Section 15, T21S, R28E, Eddy County, New Mexico from a plugged and abandoned well to a commercial salt water disposal well. The proposed well would be renamed as the Shinnery Oak Fed SWD #2. The proposed disposal interval would be the Devonian-Montoya formations through open-hole completion between 13260' - 14250' (near Devonian formation top to 100' into the Montoya formation). Disposal fluid would be produced water from producing oil and gas wells in the area. Anticipated average disposal volume is 18,000 BWPD with a maximum anticipated volume of 20,000 BWPD. Anticipated average disposal pressure is 2000 psi with a maximum disposal pressure of 2652 psi. The well would be located approximately 9 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.

Published in the Artesia Daily Press, Artesia, N.M., May 23, 2018 Legal No. 24683.

Exhibit "F"

Judah Oil, LLC  
 Shinnery Oak Fed SWD #2  
 API # 30-015-20309



This location 660' FSL X 660' FWL  
 Surface Owner - US Dept of Interior, Bureau of Land Management,  
 620 E. Greene Street, Carlsbad, NM 88220  
 Drawing not to scale

EXHIBIT "F"

Judah Oil, LLC  
Shinnery Oak Fed SWD #2  
API #30-015-20309

**EXHIBIT 'F' - NOTIFICATION LIST**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
1	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220	Surface Owner

**Section 15, T21S, R28E, NMPM (All ULs)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

**Section 16, T21S, R28E, NMPM (UL H)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
3	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

**Section 16, T21S, R28E, NMPM (ULs I, O,P)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

**Section 16, T21S, R28E, NMPM (UL J)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	State of New Mexico Commissioner of Public Land	P. O. Box 1148	Santa Fe, NM 87504	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

EXHIBIT "F"

Judah Oil, LLC  
Shinnery Oak Fed SWD #2  
API #30-015-20309

**EXHIBIT 'F' - NOTIFICATION LIST**

**Section 21, T21S, R28E, NMPM (ULs A, B, H)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

**Section 22, T21S, R28E, NMPM (ULs B, C, D, E, F)**

#	NAME	ADDRESS	CITY STATE ZIP	TYPE
	United States Dept of Interior Bureau of Land Management	620 E. Greene Street	Carlsbad, NM 88220	Mineral Owner
	XTO Energy, Inc	6401 Holiday Hill Road	Midland, TX 79707	Operator
	BOPCO, LP	P. O. Box 2760	Midland, TX 79702	Lessee
	CTV Oil & Gas NM, LLC	201 Main Street, Suite 2700	Ft Worth, TX 76102-3131	Lessee

**NMOCD Notices**

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

Notices mailed 5/22/18

Notices mailed 5/29/18

Note: XTO Energy, Inc operates the Big Eddy Unit acreage within the AOR. This unit was approved by Order R-152 dated April 28, 1952. The Big Eddy Unit includes all formations below the base of the Delaware formation or 5000'. According to State Land Office records, there are no Devonian or Montoya Pools within the Big Eddy Unit. Since these formations are non-productive within the unit boundary, they are not considered to be within the unitized interval.

EXHIBIT "F"



Date: May 28, 2018

Danny Holcomb:

The following is in response to your May 28, 2018 request for delivery information on your Certified Mail™ item number 70151730000222123602. The delivery record shows that this item was delivered on May 24, 2018 at 12:03 pm in CARLSBAD, NM 88220. The scanned image of the recipient information is provided below.

Signature of Recipient :

Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

7015 1730 0000 2212 3602

<b>U.S. Postal Service™</b>	
<b>CERTIFIED MAIL® RECEIPT</b>	
Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
CARLSBAD, NM 88220	
Certified Mail Fee	\$3.45
Extra Services & Fees (see reverse for details)	\$0.00
<input type="checkbox"/> Return Receipt (hardcopy)	\$1.50
<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
Total Postage and Fees	\$6.58
Sent To	United States Dept of Interior
Street and Apt. No.	Bureau of Land Management
City, State, ZIP+4®	620 E. Greene Street
	Carlsbad, NM 88220-6292
PS Form 3800, Aug. 2013	05/22/2018

EXHIBIT A



Date: May 28, 2018

Danny Holcomb:

The following is in response to your May 28, 2018 request for delivery information on your Certified Mail™ item number 70151730000222123640. The delivery record shows that this item was delivered on May 24, 2018 at 11:26 am in ARTESIA, NM 88210. The scanned image of the recipient information is provided below.

Signature of Recipient :

Address of Recipient :

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

7015 1730 0002 2212 3640

5102 0272 0002 2212 3640

<b>U.S. Postal Service™</b>	
<b>CERTIFIED MAIL® RECEIPT</b>	
Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ™	
ARTESIA, NM 88210	
Certified Mail Fee	\$3.45
Postage	\$1.63
<b>Total Postage and Fees</b>	<b>\$5.08</b>
State	NM
City	ARTESIA
Street and Apt. No.	811 S. First Street
Zip+4	88210
PS Form 3800, AG	

0206  
08  
Postman Here  
05/22/2018

EXHIBIT A



Date: May 28, 2018

Darcy Holcomb:

The following is in response to your May 28, 2018 request for delivery information on your Certified Mail™ item number 7015173000222123526. The delivery record shows that this item was delivered on May 25, 2018 at 7:39 am in SANTA FE, NM 87501. The scanned image of the recipient information is provided below.

Signature of Recipient :

**Delivery Section**

Signature of Recipient: *[Handwritten Signature]*

Address of Recipient :

Address of Recipient: *[Handwritten Address]*

BY *[Handwritten Initials]*

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,

United States Postal Service

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

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

SANTA FE, NM 87504

Certified Mail Fee	\$3.45	
Extra Services & Fees (check box, add fee)	\$0.00	
<input type="checkbox"/> Return Receipt (hardcopy)	\$1.30	
<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>	

Postmark Here: 0206 08

Date: 05/22/2018

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

PS Form 3800, 4-17

7015 1730 0002 2212 3526

EXHIBIT A