

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

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

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** Trove Energy and Water, LLC**OGRID Number:** 372488**Well Name:** WLC-M Federal SWD No.5**API:** 30-025-xxxxx**Pool:** Proposed: SWD; Devonian-Silurian**Pool Code:** 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**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ 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.**

Ben Stone

Print or Type Name

3/22/2019

Date

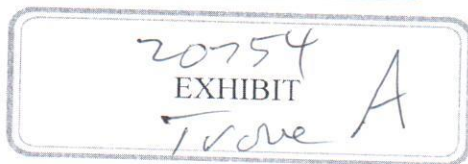
903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address

Signature





March 22, 2019

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

Attn: Mr. Gabriel Wade Acting Director

*Re: Application of Trove Energy and Water, LLC to permit for salt water disposal the proposed WLC Mid Federal SWD No.5, to be located in Section 31, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico.*

Dear Mr. Wade,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request for salt water disposal. The well will be operated as a commercial endeavor offering operators in the area additional options for produced water disposal.

Trove Energy and Water is a developing salt water disposal services to operators in southeast New Mexico and seeks to optimize efficiency, both economically and operationally, of all its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

This application for a proposed Devonian SWD interval includes the currently mandated increased One-Mile Area of Review including pertinent and available seismic information for the area and region. Published legal notice ran March 14, 2018 in the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included with this application. The application also includes a wellbore schematic, area of review maps, affected party plat and other required information for a complete Form C-108. The well is located on federal surface and minerals and the Bureau of Land Management CFO and offset operators have been notified of this application. State minerals offset as well and the Oil and Gas Division of the State land Office were noticed.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Trove Energy and Water, LLC

Cc: Application attachment and file



**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: *Salt Water Disposal* and the application *QUALIFIES* for administrative approval.
- II. OPERATOR: *Trove Energy and Water, LLC*  
ADDRESS: *1919 North Turner, Hobbs, NM 88240*
- CONTACT PARTY: *Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850*
- III. WELL DATA: *All well data and applicable wellbore diagrams are ATTACHED.*
- IV. *This is not an expansion of an existing project.*
- V. *A map is attached* that identifies all wells and leases within two miles of any proposed injection well with a *ONE-Mile* radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \*VI. A tabulation is attached of data on all wells of public record within the area of review which penetrate the proposed injection zone. *There are NO (0) Wells in the subject AOR which Penetrate the proposed Devonian interval.* The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. *NO P&A Wells penetrate.*
- VII. *The following data is ATTACHED* 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. *Appropriate geologic data on the injection zone is ATTACHED* 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. *Stimulation program – a conventional acid job may be performed to clean and open the formation.*
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). *Well Logs will be filed with OCD.*
- \*XI. *There are NO water wells/ PODs within one mile of the proposed salt water disposal well. Representative analyses are ATTACHED.*
- XII. *An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found* of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. *"Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 6 offset lessees and/or mineral owners within 1 mile and federal and state minerals - all have been noticed. Well location is Federal.*
- 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: *Ben Stone* TITLE: *SOS Consulting, LLC agent for Trove Energy and Water, LLC*

SIGNATURE:  DATE: *3/22/2019*

E-MAIL ADDRESS: *ben@sosconsulting.us*

\* 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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office



**FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)**

III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

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 *pursuant to the following criteria is ATTACHED.*

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.

## **C-108 - Items III, IV, V**

### **Item III - Subject Well Data**

Wellbore Diagram - PROPOSED

### **Item IV – Tabulation of AOR Wells**

NO wells penetrate the proposed injection interval.

### **Item V – Area of Review Maps**

1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
2. One-Half Mile AOR Map

All Above Exhibits follow this page.



## WELL SCHEMATIC - PROPOSED WLC Mid Federal SWD Well No.5

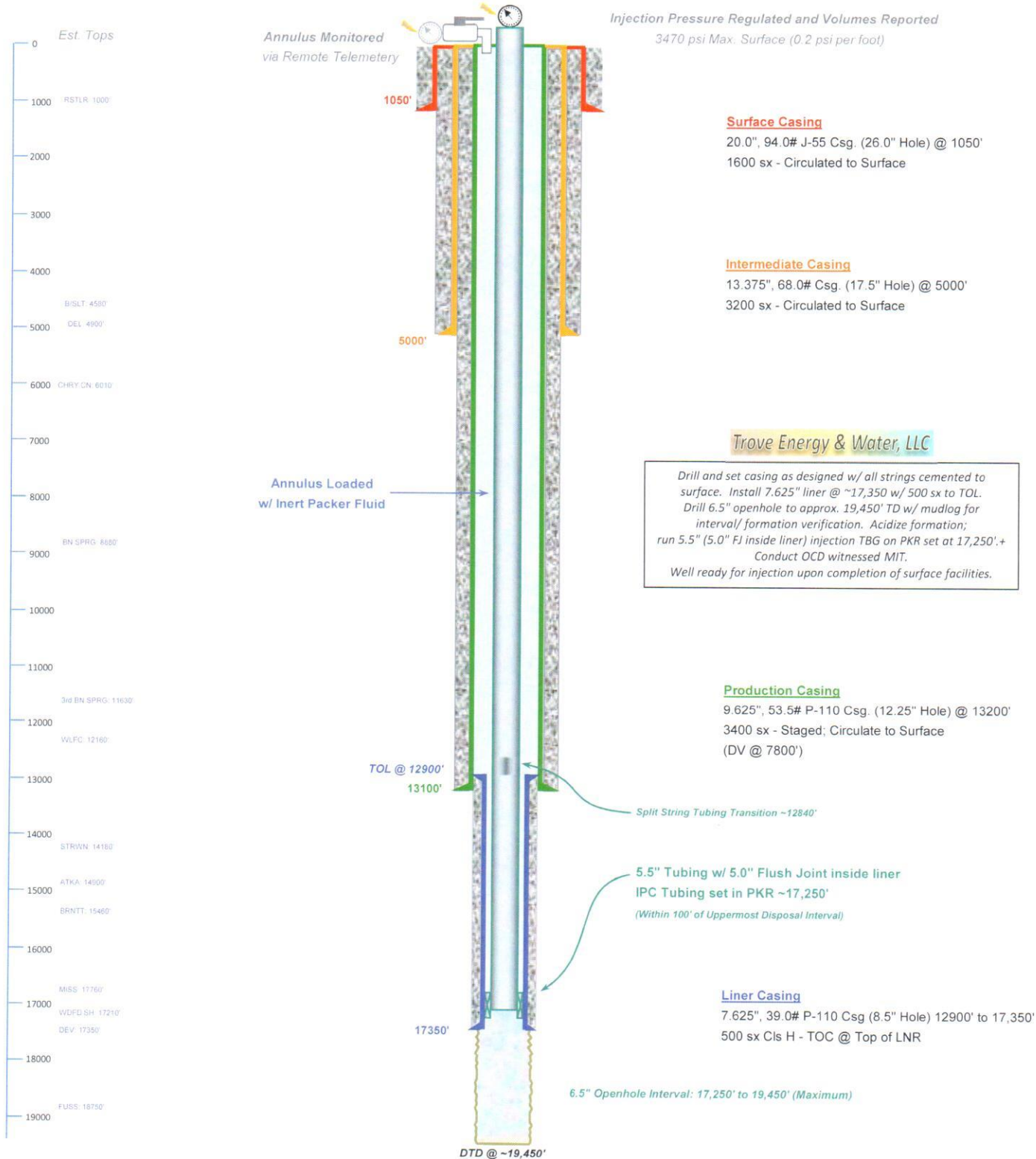
API 30-025-xxxxx

1613' FNL & 150' FWL, SEC. 31-T25S-R33E  
LEA COUNTY, NEW MEXICO

SWD; Devonian-Silurian (97869)

Spud Date: 11/01/2019

SWD Config Dt: 12/15/2019

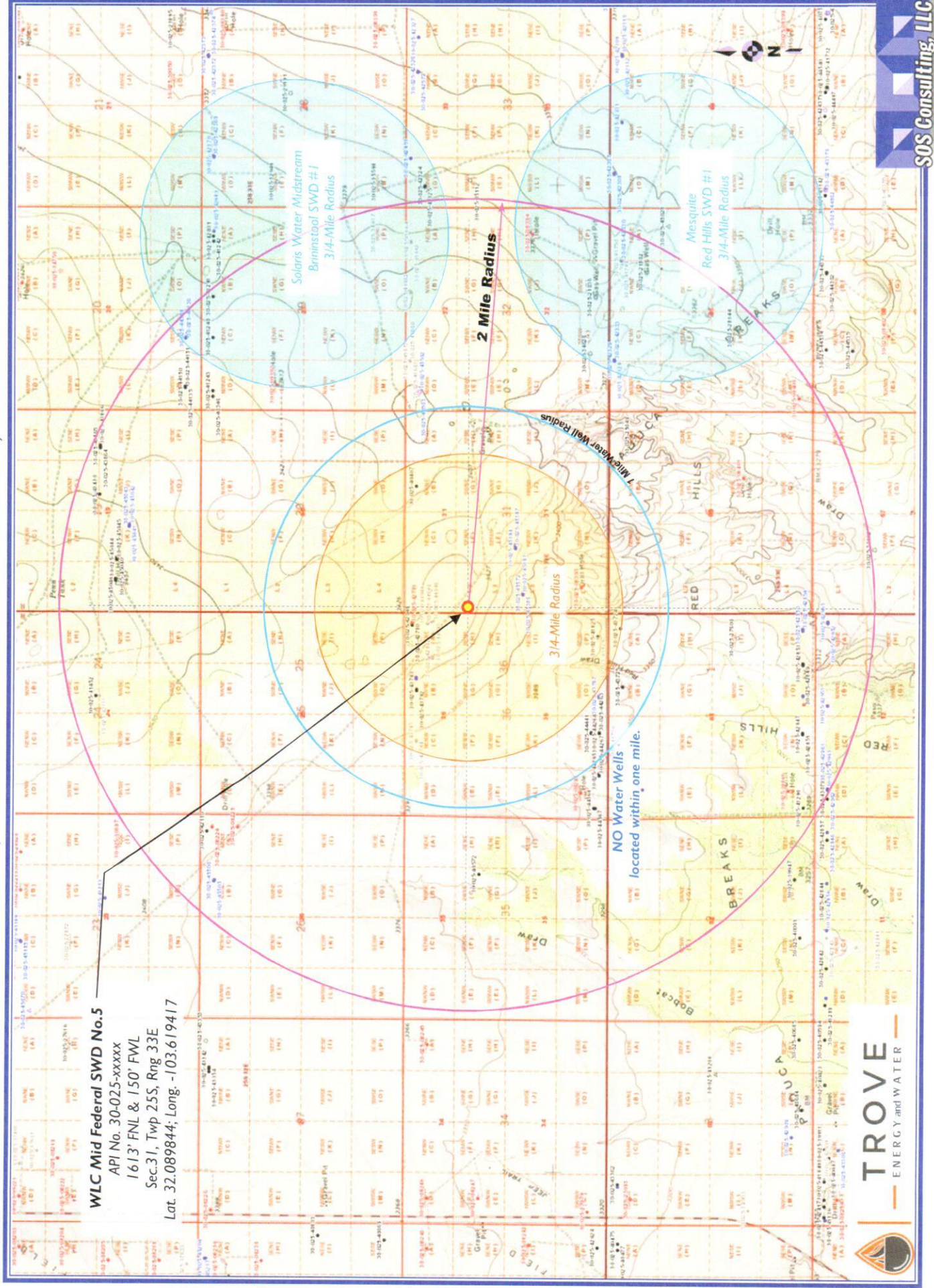


Drawn by: Ben Stone, 3/20/2019





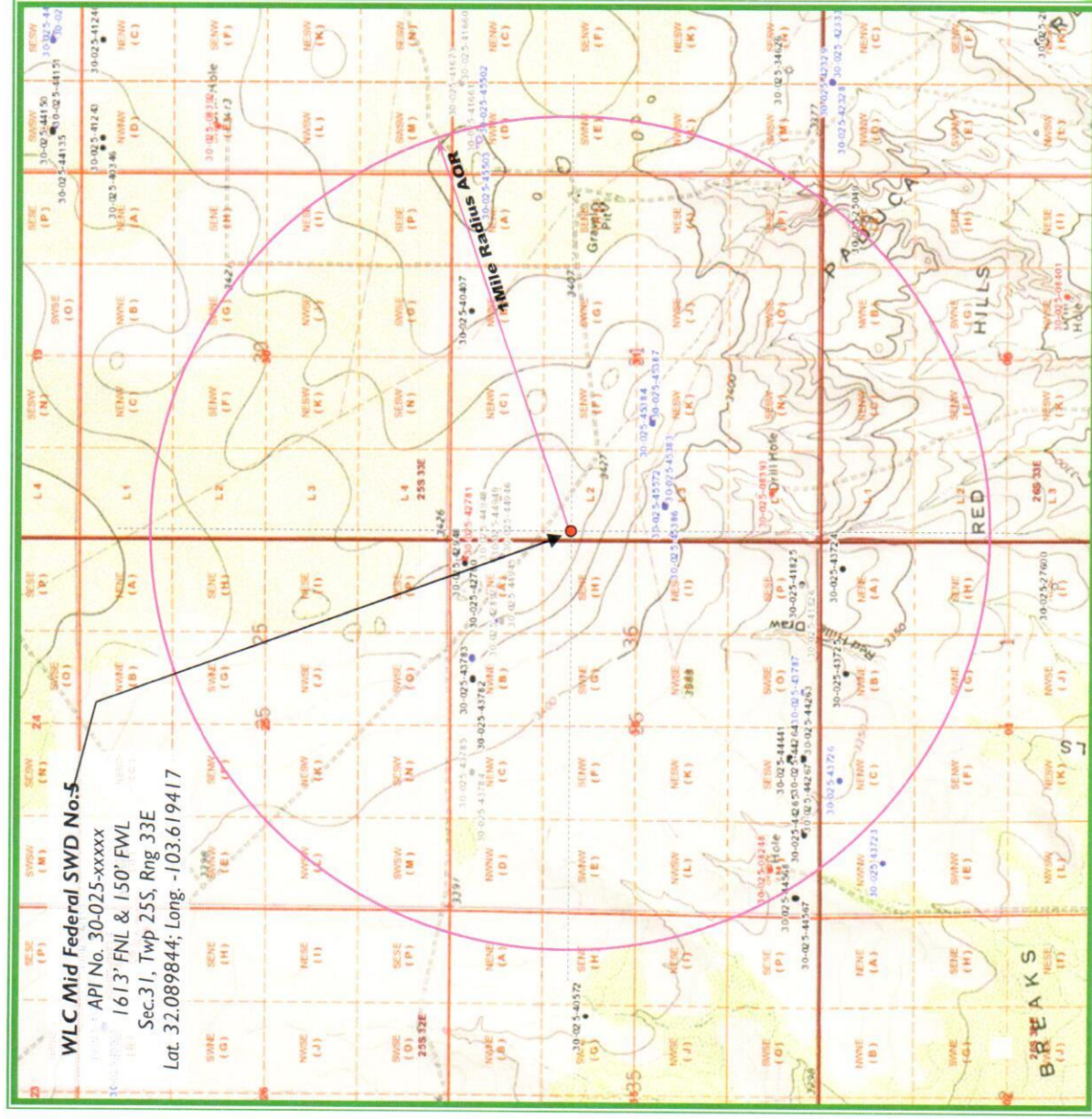
(Attachment to NMOCD Form C-108 - Item V)





# WLC Mid Federal SWD Well No.5 – One Mile Area of Review / Overview Map

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



24.4 miles West of Jal, NM



Lea County, New Mexico



## **C-108 - Item VI**

Area of Review Well Data

**THERE ARE NO WELLS WHICH PENETRATE THE  
PROPOSED DEVONIAN FORMATION IN THE  
ONE-HALF MILE AREA of REVIEW**

## **C-108 ITEM X**

### **LOGS and AVAILABLE TEST DATA**

A Standard Suite of Logs will be run after drilling the well and submitted to the Division.



## **C-108 ITEM VII – PROPOSED OPERATION**

### **Trove WLC Mid Federal SWD #5**

#### ***Commercial SWD Facility***

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment.

#### ***Configure for Salt Water Disposal***

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

#### ***Operational Summary***

The SWD facility will not be fenced so that trucks may access for load disposal 24/7.

Future plans would include tying the SWD into a pipeline so the well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The facility and tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 30,000 bpd and an average of 17,500 bpd at a maximum surface injection pressure of 3470 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC; as necessary and appropriate and OCD form C-141 will be submitted promptly.

## **C-108 ITEM VII – PRODUCED WATER ANALYSES**

### **Item VII.4 – Water Analysis of Source Zone Water**

Glorieta/ Yeso

Bone Spring

Wolfcamp

### **Item VII.5 – Water Analysis of Disposal Zone Water**

Devonian

*Analyses follow this page.*



**C-108 Item VII.5 - Produced Water Data**  
**Trove Energy & Water, LLC - WLC Mid Federal Project Area**

**SOURCE ZONE**

**DELAWARE**

<b>API No</b>	3001510181	<b>Lab ID</b>	
<b>Well Name</b>	SUPERIOR STATE 002	<b>Sample ID</b>	5532
		<b>Sample No</b>	
<b>Location</b>	ULSTR 08 25 S 30 E	<b>Lat / Long</b>	32.14281 -103.89616
	1980 S 660 E	<b>County</b>	Eddy
<b>Operator (when sampled)</b>			
	Field CORRAL CANYON	<b>Unit</b>	I
<b>Sample Date</b>		<b>Analysis Date</b>	
	<b>Sample Source</b> SWAB	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	155173	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	92820	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	122
iron_mgL		sulfate_mgL	133
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



**C-108 Item VII.5 - Produced Water Data**  
**Trove Energy & Water, LLC - WLC Mid Federal Project Area**

**SOURCE ZONE**

**BONE SPRING**

<b>API No</b>	3002533529	<b>Lab ID</b>	
<b>Well Name</b>	THYME APY FEDERAL 002	<b>Sample ID</b>	6681
		<b>Sample No</b>	
<b>Location</b>	ULSTR 01 23 S 32 E 1650 N 1650 E	<b>Lat / Long</b>	32.33657 -103.62470
		<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field RED TANK	<b>Unit</b>	G
<b>Sample Date</b>	11/27/2001	<b>Analysis Date</b>	
	<b>Sample Source</b>	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph	6.1	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.15	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	172896	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	104976	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL	0	bicarbonate_mgL	781
iron_mgL	0	sulfate_mgL	1150
barium_mgL	0	hydroxide_mgL	
magnesium_mgL	2025	h2s_mgL	0
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*





**C-108 Item VII.5 - Produced Water Data**  
**Trove Energy & Water, LLC - WLC Mid Federal Project Area**

**SOURCE ZONE**

**WOLFCAMP**

<b>API No</b>	3002501678	<b>Lab ID</b>	
<b>Well Name</b>	LAGUNA PLATA FEDERAL UNIT 001	<b>Sample ID</b>	5096
		<b>Sample No</b>	
<b>Location</b>	ULSTR 22 19 S 33 E	<b>Lat / Long</b>	32.64341 -103.64461
	1980 S 710 E	<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field TONTO	<b>Unit I</b>	
<b>Sample Date</b>		<b>Analysis Date</b>	
	<b>Sample Source DST</b>	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	46915	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	27270	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	714
iron_mgL		sulfate_mgL	1116
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



**C-108 Item VII.5 - Produced Water Data**  
**Trove Energy Water, LLC - WLC Mid Federal Project Area**

**DISPOSAL ZONE**

**DEVONIAN**

<b>API No</b>	3002521082				<b>Lab ID</b>	
<b>Well Name</b>	ANTELOPE RIDGE UNIT 003				<b>Sample ID</b>	5720
					<b>Sample No</b>	
<b>Location</b>	ULSTR	34	23	S 34 E	<b>Lat / Long</b>	32.25922 -103.46068
		1980	S	1650 W	<b>County</b>	Lea
<b>Operator (when sampled)</b>						
	<b>Field</b>	ANTELOPE RIDGE			<b>Unit</b>	K
	<b>Sample Date</b>	11/14/1967		<b>Analysis Date</b>		
	<b>Sample Source</b>	UNKNOWN			<b>Depth (if known)</b>	
	<b>Water Typ</b>					
ph		6.9		alkalinity_as_caco3_mgL		
ph_temp_F				hardness_as_caco3_mgL		
specificgravity				hardness_mgL		
specificgravity_temp_F				resistivity_ohm_cm		
tds_mgL		80187		resistivity_ohm_cm_temp_		
tds_mgL_180C				conductivity		
chloride_mgL		47900		conductivity_temp_F		
sodium_mgL				carbonate_mgL		
calcium_mgL				bicarbonate_mgL	476	
iron_mgL				sulfate_mgL	900	
barium_mgL				hydroxide_mgL		
magnesium_mgL				h2s_mgL		
potassium_mgL				co2_mgL		
strontium_mgL				o2_mgL		
manganese_mgL				anionremarks		

Remarks

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*





## **C-108 – Item VIII**

### **Geologic Information**

The Devonian and Silurian consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are believed present within the subject formations in the area. Depth control data was inferred from deep wells to the south and east. If the base of Devonian and top of Silurian rocks come in as expected the well will only be drilled deep enough for adequate logging rathole.

At a proposed depth of 19,400' BGL (Below Ground Level) the well will TD approximately 2,050' below the estimated top of the Devonian. Mud logging through the interval will ensure the target interval remains in Devonian and Silurian. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 17,350' BGL. Injection will occur through the resulting openhole interval. Should mud or other logs indicate depth adjustment is required to exploit the desired formation as described; sundries with appropriate data will be filed with the OCD.

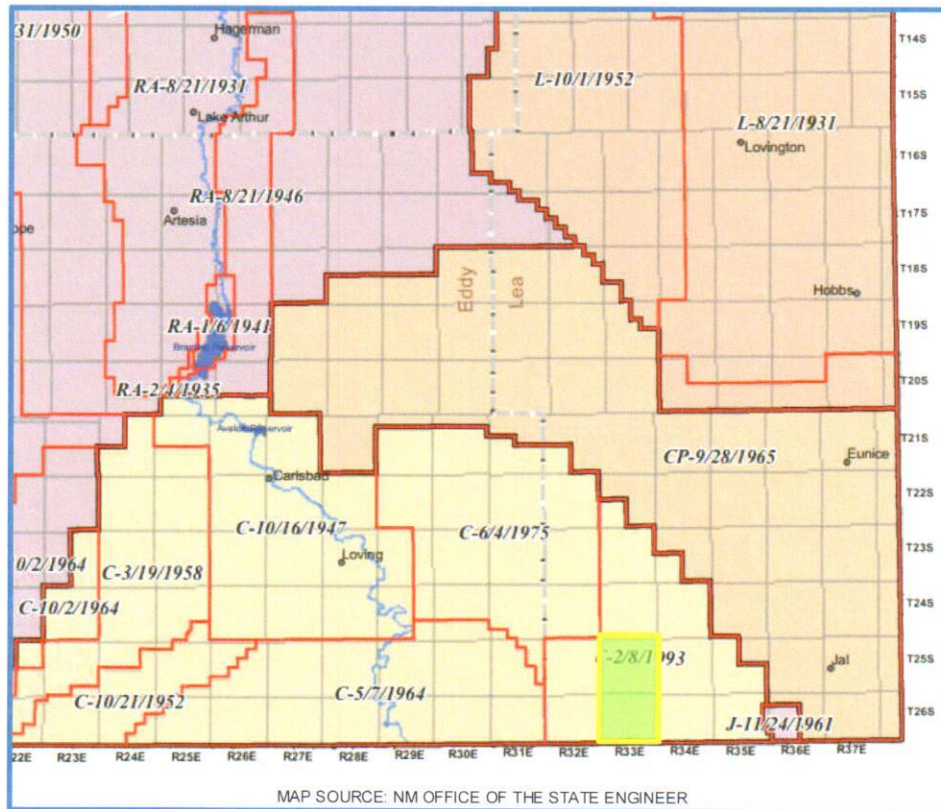
The Devonian is overlain by the Woodford Shale and Mississippian Lime and underlain by the Middle and Lower Ordovician; Simpson, McKee and Ellenburger.

Fresh water in the area is generally available from the Rustler and Santa Rosa formations. State Engineer's records show water wells in the area with a depth to groundwater of 90 to 185 feet and an average depth of 142 feet.

There are NO water wells located within one mile of the proposed SWD however; a representative analysis of area fresh water is included in this application.

## C-108 - Item XI

### Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Carlsbad Basin.

Fresh water in the area is generally available from the Rustler and Santa Rosa formations. State Engineer's records show water wells in the area with a depth to groundwater of 90 to 185 feet and an average depth of 142 feet.

There are NO water wells located within one mile of the proposed SWD.



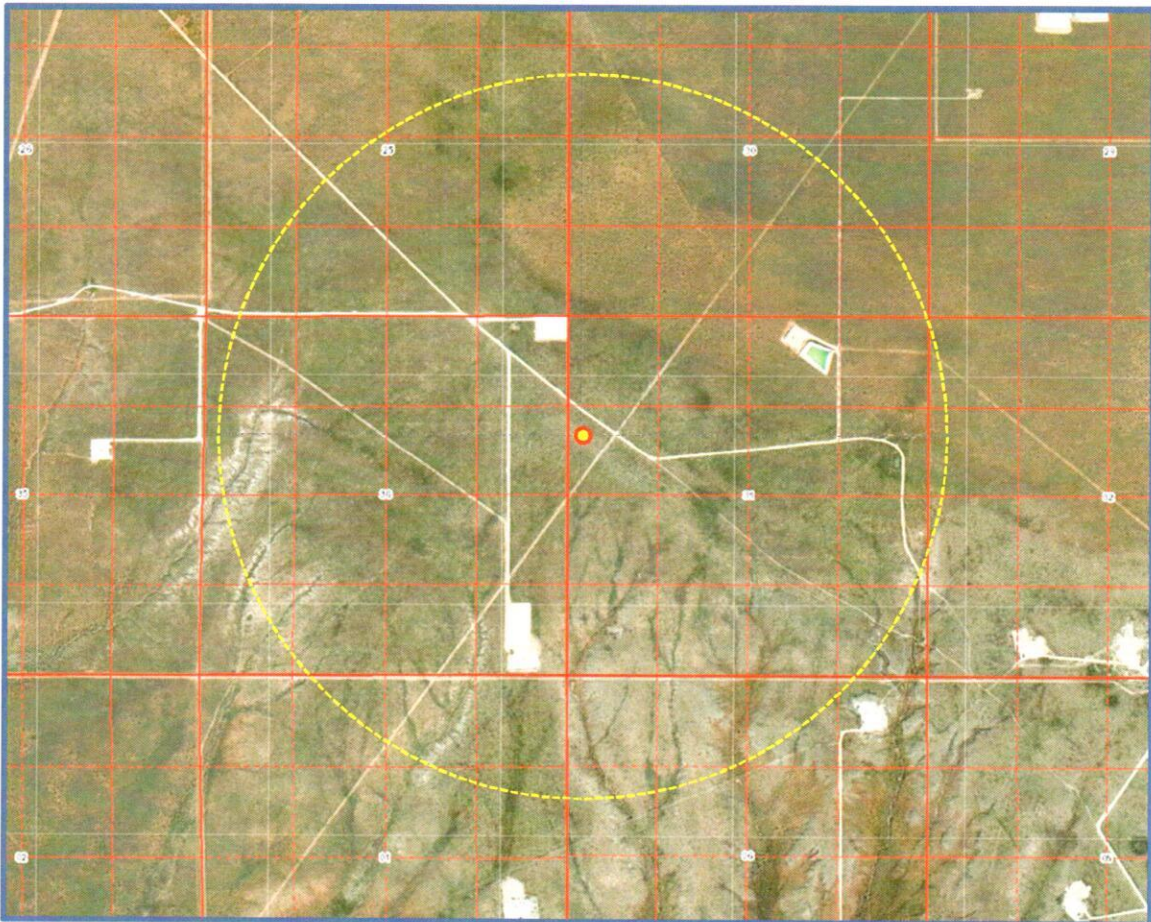
## C-108 Item XI

### Water Wells Within One Mile

#### WLC Mid Federal SWD No.5 - Water Well Locator Map

*There are NO water wells/ PODs within a one-mile radius of the proposed SWD.*

*Representative analyses of wells with similar depth are included.*

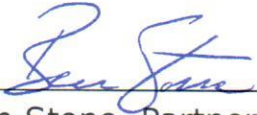


*Data from NM Office of the State Engineer displayed in OSE-GIS System.*

## **C-108 ITEM XII**

### Geologic Affirmation

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



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Ben Stone, Partner  
SOS Consulting, LLC

Project: Trove Energy and Water, LLC  
WLC Mid Project Area  
Reviewed 3/5/2019



## **C-108 ITEM XIII – PROOF OF NOTIFICATION**

### IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

#### **Exhibits for Section**

Affected Parties Map

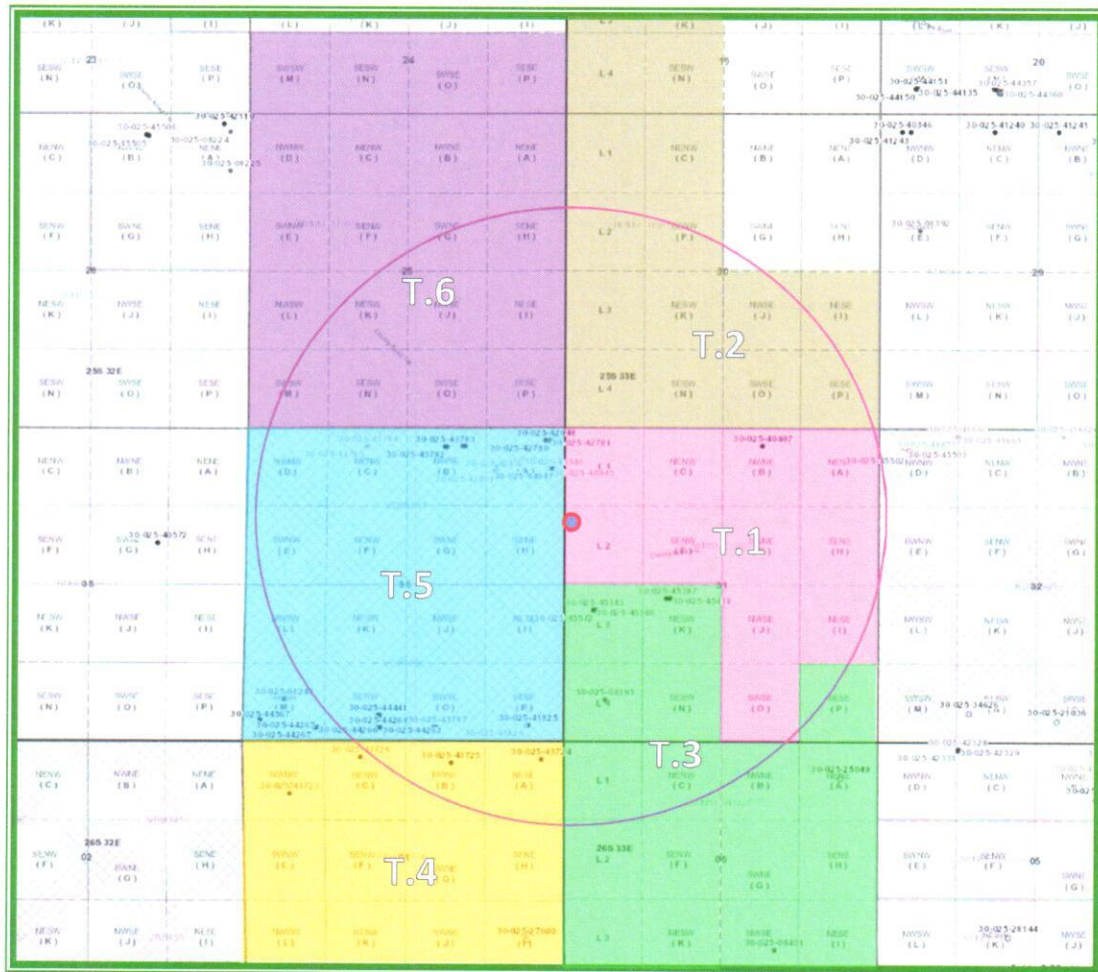
List of Interested Parties

Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

# WLC Mid Federal SWD Well No.5 – Affected Parties Plat (Attachment to NMOCD Form C-108, Application for Authority to Inject.)



**TROVE**  
ENERGY and WATER

## LEGEND

T.1 – NMNM-122620 – COG Operating, LLC

T.4 – NMNM-014492 – BTA Oil Producers, Inc.

T.2 – NMNM-110838 – Oxy Y-1 Company

T.5 – V0-8648-0004 – EOG Y Resources, Inc.

T.3 – NMNM-015321 – Kaiser Francis Oil Co.

T.6 – NMNM-110856 – EOG A Resources, Inc.



## C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

**SOS Consulting is providing electronic delivery of C-108 applications.**

**ALL APPLICABLE AFFECTED PARTIES ARE PROVIDED A LINK IN THE NOTICE LETTER  
TO A SECURE SOS/ CITRIX SHAREFILE® SITE TO VIEW AND DOWNLOAD  
A FULL COPY OF THE SUBJECT C-108 APPLICATION IN PDF FORMAT.**

"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B.2.

### SURFACE OWNER

- 1 U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220  
Certified: 7018 0360 0001 8569 6552

### OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

#### **BLM Leases NMNM-122620 (T.1 on Map)**

##### **Lessee & Operator**

- 2 COG OPERATING, LLC  
Attn: Brian Collins  
2208 W. Main Street  
Artesia, New Mexico 88210-3720  
Certified: 7018 0360 0001 8569 6545

#### **BLM Lease NMNM-110383 (T.2 on Map)**

##### **Lessee & Operator**

- 3 OXY Y-1 COMPANY  
6001 Deauville Blvd.  
Midland, TX 79706  
Certified: 7018 0360 0001 8569 6538

#### **BLM Lease NMNM-015321 (T.3 on Map)**

##### **Lessee & Operator**

- 4 KAISER-FRANCIS OIL COMPANY  
P.O. Box 21468  
Tulsa, OK 74121-1468  
Certified: 7018 0360 0001 8569 6521

#### **BLM Lease NMNM-014492 (T.3 on Map)**

##### **Lessee & Operator**

- 5 BTA OIL PRODUCERS, INC.  
104 S. Pecos St.  
Midland, TX 79701  
Certified: 7018 0360 0001 8569 6514

**C-108 ITEM XIII – PROOF OF NOTIFICATION**  
**AFFECTED PARTIES LIST (cont.)**

**State Lease V0-8648-0004 and BLM Lease NMNM-110865 (T.4 and T.5 on Map)**

***Lessee & Operator***

- 6 EOG RESOURCES, INC.  
105 S. 4th St.  
Artesia, NM 88210  
Certified: 7018 0360 0001 8569 6507

**OFFSET MINERALS OWNERS** (Notified via USPS Certified Mail)

U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

- 7 STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504  
Certified: 7018 0360 0001 8569 6491

**REGULATORY**

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)  
1625 N. French Drive  
Hobbs, NM 88240



March 15, 2019

**NOTIFICATION TO INTERESTED PARTIES**  
**via U.S. Certified Mail – Return Receipt Requested**

To Whom It May Concern:

Trove Energy and Water, LLC, Hobbs, New Mexico, is preparing applications to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the WLC Mid Federal SWD Well No.5. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well will be located in Section 31, Township 25 South, Range 33 East in Lea County, New Mexico.

The published notice states that the interval will be from 17,350 feet to 19,450 feet into the Devonian, Silurian and Fusselman formations.

Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about March 14, 2018.

**LEGAL NOTICE**

Trove Energy and Water, LLC, 1919 North Turner, Hobbs, NM 88240, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the WLC Mid Federal SWD Well No.5 will be located 1613' FNL & 150' FWL, Section 31, Township 25 South, Range 33 East, Lea County, New Mexico; approximately 24.4 miles west of Jal, NM.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a maximum interval depth of 17,350' to 19,450' at a maximum surface pressure of 3470 psi and a rate limited only by such pressure. Mudlogging and e-logs will confirm final interval depths.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email [info@sosconsulting.us](mailto:info@sosconsulting.us).

***You have been identified as a party who may be interested as an offset lessee or operator.***



You are entitled to a full copy of the application. A full copy in PDF format will be posted on the SOS Consulting **ShareFile** site and available for future download (posting may lag behind the notice effort).

Use the URL link: <https://sosconsulting.sharefile.com/d-sdf2f66b4c7f483e8>  
(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.\*)

*The link to this file will be active for 60 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (One copy may be downloaded and shared as needed among your company.)*

If preferred, you may call SOS Consulting, LLC at 903-488-9850, or email [info@sosconsulting.us](mailto:info@sosconsulting.us), and the same PDF file copy will be expedited to you via email.

Please use a subject like **"WLC Mid Fed SWD #5 March 2019 PDF Copy Request"**.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC  
Agent for Trove Energy and Water, LLC

Cc: Application File

*SOS Consulting is committed to providing superior quality work using technology to assist clients and affected parties in obtaining the documentation required. SOS will continue to utilize methods which are less energy and resource intensive including, the reduction of paper copies.*

*We hope you'll partner with us and appreciate these efforts.*

\* You will be asked for your email, name and company.

This will not be used by anyone except keeping track of the file downloads.

You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.

**CITRIX**



## C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7018 0360 0000 8569 6552

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

Postage  
\$

Total Postage and Fees **6.85**

Sent To  
Street and A  
City, State

Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

PS Form 38

Postmark Here  
MAR 16 2019  
COMO TX 75437

7018 0360 0000 8569 6545

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

Postage  
\$

Total Postage and Fees **6.85**

Sent To  
Street and A  
City, State

COG OPERATING, LLC  
Attn: Brian Collins  
2208 W. Main Street  
Artesia, New Mexico 88210-3720

PS Form 38

Postmark Here  
MAR 16 2019  
COMO TX 75437

7018 0360 0000 8569 6538

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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postage  
\$

Total Postage and Fees **6.85**

Sent To  
Street and A  
City, State

OXY Y-1 COMPANY  
6001 Deauville Blvd.  
Midland, TX 79706

PS Form 38

Postmark Here  
MAR 16 2019  
COMO TX 75437

7018 0360 0000 8569 6521

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

Postage  
\$

Total Postage and Fees **6.85**

Sent To  
Street and A  
City, State

KAISER-FRANCIS OIL COMPANY  
P.O. Box 21468  
Tulsa, OK 74121-1468

PS Form 38

Postmark Here  
MAR 16 2019  
COMO TX 75437

## C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

7159 6958 0000 0960 8107

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**OFFICIAL USE**

Certified Mail Fee	\$	
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	6.85
Sent To		
Street and Ap	BTA OIL PRODUCERS, INC.	
City, State, Zi	104 S. Pecos St. Midland, TX 79701	

PS Form 386

7059 6958 0000 0960 8107

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Certified Mail Fee	\$	
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	6.85
Sent To		
Street and	EOG RESOURCES, INC.	
City, State,	105 S. 4th St. Artesia, NM 88210	

PS Form 3

7649 6958 0000 0960 8107

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**OFFICIAL USE**

Certified Mail Fee	\$	3.50
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	2.50
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	55
Total Postage and Fees	\$	6.95
Sent To		
Street and A	STATE OF NEW MEXICO	
City, State, 2	Oil, Gas and Minerals Division 310 Old Santa Fe Trail Santa Fe, NM 87504	

PS Form 386




# Affidavit of Publication

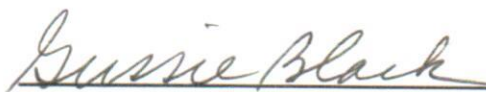
STATE OF NEW MEXICO  
COUNTY OF LEA

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  
March 14, 2019  
and ending with the issue dated  
March 14, 2019.

  
\_\_\_\_\_  
Publisher

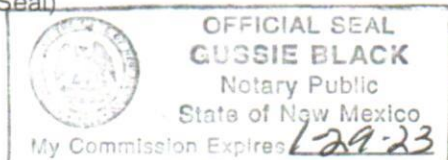
Sworn and subscribed to before me this  
14th day of March 2019.

  
\_\_\_\_\_  
Business Manager

My commission expires

January 29, 2023

(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 MARCH 14, 2019

Trove Energy and Water, LLC, 1919 North Turner, Hobbs, NM 88240, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the WLC Mid Federal SWD Well No. 5 will be located 1513' ENL & 150' FWL, Section 31, Township 25 South, Range 33 East, Lea County, New Mexico; approximately 24.4 miles west of Jal, NM.

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Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.  
#33882

67104420

00225810

BEN STONE  
SOS CONSULTING, LLC.  
P.O. BOX 300  
COMO, TX 75431