Received by OCD: 8/6/2019 10:46:35 AM

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF TROVE ENERGY AND WATER, LLC FOR APPROVAL OF A SALT WATER DISPOSAL WELL, LEA COUNTY, NEW MEXICO.

| Case | No | |
|------|------|--|
| Case | 110. | |

APPLICATION

Trove Energy and Water, LLC applies for an order approving a salt water disposal well, and in support thereof, states:

- 1. Applicant proposes to drill the PSE Fed. SWD Well No. 4, located 145 feet from the north line and 5 feet from the east line of Section 30, Township 24 South, Range 32 East, N.M.P.M., Lea County, New Mexico.
- 2. Applicant proposes to dispose produced water into the Devonian formation in the well at depths of 17000 18500 feet subsurface.
 - 3. A Form C-108 for the subject well is attached hereto as Exhibit A.
 - 4. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

James Bruce

Post Office Box 1056

Santa Fe, New Mexico 87504

(505) 982-2043

Attorney for Trove Energy and Water, LLC

| 25050 (55 | | | | |
|--|--|--|---|--|
| RECEIVED: | REVIEWER: | TYPE: | APP NO: | |
| | - Geologia | O OIL CONSERV | /ATION DIVISION ag Bureau – | |
| API: 30-015-XXXXXX Pool Code: 97869 SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION: TYPE OF APPLICATION: Check those which apply for [A] A. Location – Spacing Unit – Simultaneous Dedication NSL NSP PROJECTAREA NSP PROGRATIONUMIT SD B. Check one only for [1] or [II] [I] Commingling – Storage – Measurement DHC CTB PLC PC OLS OLM [III] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery WEX PMX SWD IPI EOR PPR NOTIFICATION REQUIRED TO: Check those which apply. A. Offset operators or lease holders B. Royalty, overriding royalty owners, revenue owners C. Application and/or concurrent approval by SLO E. Notification and/or concurrent approval by BLM F. Surface owner C. For all of the above, proof of notification or publication is attached, and/or, H. No notice required 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. **Note: Statement must be completed by an individual with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory capacity. **MOTIFICATION: I hereby certify that the information with managerial and/or supervisory | See Prox Total Control | | | |
| THIS CHE | CKLIST IS MANDATORY FOR AL | L ADMINISTRATIVE APPLIC | CATIONS FOR EXCEPTIONS TO D | DIVISION RULES AND |
| Applicant: Trove Energy | rgy and Water, LLC | | OGRID | Number: 372488 |
| | | | | |
| ool: Proposed: SWD; D | evonian-Silurian | | Pool Co | de: 97869 |
| 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 APPLICATION CHECKLIST THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND RECOLLATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE POPULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO BE FEDERAL STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPULATION TO SANTA STATE OF THE DIVISION LEVEL IN SANTA FE POPUL | | E TYPE OF APPLICATIO | | |
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| [Ⅱ] Commir □DH [Ⅲ] Injectio | ngling – Storage – Me HC ©CTB ©PL n – Disposal – Pressu | .C PC (re Increase – Enh | anced Oil Recovery | ji |
| A. Offset op B. Royalty, a C. Applicati D. Notificati E. Notificati F. Surface a G. For all of | erators or lease hold overriding royalty ow on requires publishe on and/or concurre owner the above, proof of | ders vners, revenue ov d notice nt approval by SI nt approval by BI | vners O _M | Content Complete |
| administrative ap understand that r | e required nereby certify that the proval is accurate and action will be taken by the Division of the Divisio | ne information su and complete to the en on this applica sion. | bmitted with this app the best of my knowle ation until the require | olication for edge. I also d information and |
| Note: S | tatement must be complete | ed by an individual with | managerial and/or supervis | sory capacity. |
| Ben Stone Trint or Type Name | EXI | нівіт А | Date 103-488-9850 | |
| Jan Jane ignature | | and the second s | | 3 |





April 2, 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 PSE Federal SWD No.4, to be located in Section 30, Township 24 South, Range 32 East, NMPM, Eddy 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 April 3, 2019 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 proposed well is located on federal surface and minerals and the Bureau of Land Management CFO and offset operators have been notified of this application.

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

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

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.
- 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,
- 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 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 3 offset lessees and/or mineral owners within 1 mile and federal 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 |
|------------|---------------|----------------------------------|----------------------------|------------------|
| SIGNATUR | E: | Josep . | DATE: | 4/02/2019 |
| E-MAIL ADI | DRESS: ben@so | sconsulting.us | | 17 0 11 12 0 1 0 |

* 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:

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.

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.

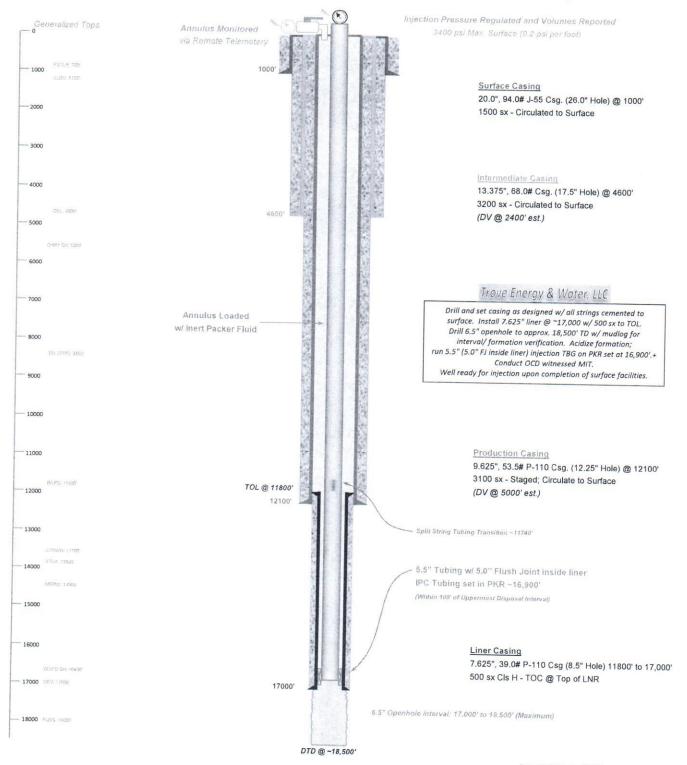
WELL SCHEMATIC - PROPOSED PSE Federal SWD Well No.4



API 30-015-xxxxx 145' FNL & 5' FEL, SEC. 30-T24S-R32E EDDY COUNTY, NEW MEXICO

SWD; Devonian-Silurian (97869)

Spud Date: 11/01/2019 SWD Config Dt: 12/15/2019

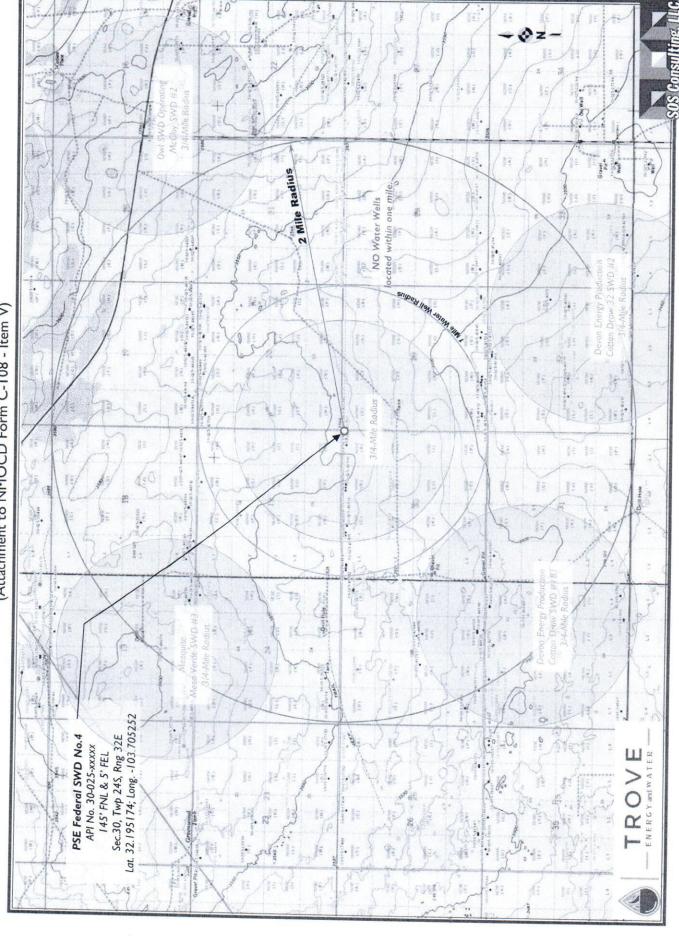


Drawn by: Ben Stone, 4/02/2019



PSE Federal SWD No.4 - Area of Review / 2 Miles

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



Lea County, New Mexico 21.4 miles East of Malaga, NM PSE Federal SWD Well No.4 - One Mile Area of Review / Overview Map (Attachment to NMOCD Form C-108, Application for Authority to Inject.) 30-025-41 NorWW (D) (M) (L) (M) 30-025-44104 (N) 30-025-4404 (N) 30-025-440 (S) 4-005-44118 (S) 4-005-44105 (S) 4-005-4410 (A) SUNE (H) (P) (B) (0) TROVE ENERGY and WATER 30-02524184 SWSW (M) MWSW (L) (Q) 30-025-4418730-025-4418 SENE NESE (1) SESE (P) C S (L) (0) 30-025-41408 30-025-43516 145' FNL & 5' FEL Sec.30, Twp 245, Rng 32E Lat. 32.195174; Long. -103.705252 (K) (K) PSE Federal SWD No.4 API No. 30-025-xxxxx Gravel Pit Gravel SENE (H)

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 PSE Federal SWD #4

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 3400 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 ANAYLSES

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.

SOURCE ZONE

| GLO/ | YESO | | | | | | | | | | Lab ID | | | |
|------|-------------|-------------|---------|----|---------|------------|-------|-------------------------|-----------|------------|--------|-------|------|------|
| | | | | | | | | | | | Sample | a ID | | 1146 |
| | API No | 30015247 | 754 | | | | | | | | Sample | | | 1140 |
| V | Vell Name | PLATT P | Α | | | 009 | | | | TNO | | | | |
| | Location | | 26 18 | | | E | | Lat / Long | 32.7 | 1216 | -104 | 35742 | | |
| | | 33 | 30 S | | 990 | W | | | | | County | Eddy | | |
| | Operator | (when sai | mpled) | Ya | ates Pe | etroleum (| Corp. | | | | | | | |
| | | | Field | A | TOKA | | | | | | Unit M | | | |
| | Sample Date | | | | 4/1984 | l . | Analy | ysis Date | | | | | | |
| | Sample S | | | | | Ilhead | | | r | Denth (if | known) | | | |
| | | | Water T | | | duced Wa | ater | | | opai (ii | Knowny | | | |
| | ph | | | | | 7.5 | | alkalin | ity as | caco3_i | mal | | | |
| | ph_ter | nn F | | | | | | | | _caco3_ | | | | |
| | | cgravity | | | | | | | | 1000 | | | | |
| | | | _ | | | | | | ess_mg | | | | 1800 | |
| | | cgravity_te | emp_F | | | | | resistivity_ohm_cm | | | | | | |
| | tds_m | gL | | | | 120382 | | resistivity_ohm_cm_temp | | | | | | |
| | tds_m | gL_180C | | | | | | conduc | ctivity | | | | | |
| | chlorid | e_mgL | | | | 113000 | | conduc | ctivity_t | emp_F | | | | |
| | sodium | _mgL | | | | 71415 | | carbor | nate_mo | gL | | | 0 | |
| | calciur | m_mgL | | | | 2560 | | bicarbo | onate_r | mgL | | | 476 | |
| | iron_m | gL | | | | 0 | | sulfate | _mgL | | | 2 | 2001 | |
| | barium | _mgL | | | | | | hydrox | ide_mg | g <u>L</u> | | | | |
| | magne | sium_mgL | •5 | | | 0 | | h2s_m | gL | | | | 0 | |
| | potass | ium_mgL | | | | | | co2_m | gL | | | | | |
| | strontic | ım_mgL | | | | | | o2_mg | L | | | | | |
| | manga | nese_mgL | | | | | | anionre | emarks | | | | | |

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

Remarks



SOURCE ZONE

| 020 | 71200 | | | | | | | | | | Lab ID | |
|-----|-----------|---------|-----|----|---|----|---|-----|------------|----------|------------|------|
| | API No | 3001524 | 619 | | | | | | | | Sample ID | 1207 |
| | Well Name | PLATT F | PA | | | | | 800 | | | Sample No | |
| | Location | ULSTR | 26 | 18 | S | 26 | E | | Lat / Long | 32,71245 | -104,35329 | |

GLO/YESO

430 S 2260 W County Eddy

Operator (when sampled) Yates Petroleum Corporation
Field ATOKA Unit N

Field ATOKA Unit N
Sample Date 1/19/1985 Analysis Date

| | Sample Sour | ce well head | Depth (if known) | | | | | |
|------------------|-------------|----------------|-------------------------|-------|--|--|--|--|
| | Water Typ | Produced Water | | | | | | |
| ph | | 6 | alkalinity_as_caco3_mgL | | | | | |
| ph_temp_F | | | hardness_as_caco3_mgL | | | | | |
| specificgravity | | | hardness_mgL | 11500 | | | | |
| specificgravity_ | temp_F | | resistivity_ohm_cm | | | | | |
| tds_mgL | | 136324 | resistivity_ohm_cm_temp | | | | | |
| tds_mgL_180C | | | conductivity | | | | | |
| chloride_mgL | | 121000 | conductivity_temp_F | | | | | |
| sodium_mgL | | 61571 | carbonate_mgL | | | | | |
| calcium_mgL | | 4160 | bicarbonate_mgL | 104 | | | | |
| iron_mgL | | 0 | sulfate_mgL | 3720 | | | | |
| barium_mgL | | | hydroxide_mgL | | | | | |
| magnesium_mg | JL. | 7340 | h2s_mgL | | | | | |
| potassium_mgL | ė | | co2_mgL | | | | | |
| strontium_mgL | | | o2_mgL | | | | | |
| manganese_mg | L | | anionremarks | | | | | |
| Remarks | | | | | | | | |



SOURCE ZONE

| BO | NF | SP | RI | NG |
|----|----|----|----|----|
| | | | | |

Remarks

| NE SPRINC | 3 | | | | | | | | | | | | |
|-----------|------------|-------|--------|---------|--------|-----|-------|-----------|------|-------------|-----------|---------|------|
| | | | | | | | | | | | Lab ID | | |
| API No | 3001520 | 225 | | | | | | | | | Sampl | e ID | 5847 |
| Well Name | BIG EDE | DY UN | IT | | | 012 | | | | | Sample | e No | |
| Location | ULSTR | 21 | 20 | S 31 | 1 E | | | Lat / Lon | g | 32,56399 | -10 | 3.87994 | |
| | 6 | 60 | N | 660 | W | | | | | | County | Eddy | |
| Operator | (when sa | mpled | d) | MALL | ON OIL | CON | MPANY | | | | | | |
| | | Field | d | BIG E | DDY | | | | | | Unit D | | |
| Sam | ple Date | | | 8/27/19 | 99 | | Analy | sis Date | | 8 | /31/1999 | | |
| | | San | nple S | ource | | | | | | Depth (| if known) | | |
| | | Wat | er Typ | 0 | | | | | | | Kilowily | | |
| ph | | | | | | 5.2 | | alkalir | nity | as_caco3 | _mgL | | |
| ph_tem | p_F | | | | | | | hardn | es | s_as_caco3 | _mgL | | |
| specific | gravity | | | | 1.1 | 125 | | hardn | es | s_mgL | | | |
| specific | gravity_te | emp_F | : | | | | | resisti | vit | y_ohm_cm | | | |
| tds_mg | L | | | | 1816 | 697 | | resisti | vit | y_ohm_cm_ | temp | | |
| tds_mg | L_180C | | | | | | | condu | cti | vity | | | |
| chloride | | | | | 1237 | 50 | | condu | cti | vity_temp_F | | | |
| sodium | _mgL | | | | 7389 | 5.6 | | carbor | nat | e_mgL | | | |
| calcium | | | | | 56 | 25 | | bicarb | on | ate_mgL | | 13,725 | |
| iron_mg | | | | | 337 | 7.5 | | sulfate | n | ngL | | 787.5 | |
| barium_ | - 0 | | | | | | | hydrox | cide | e_mgL | | | |
| | ium_mgL | | | | | | | h2s_m | ngL | | | 0 | |
| | ım_mgL | | | | | | | co2_m | ıgL | | | | |
| strontiur | | | | | | | | o2_mg | ΙL | | | | |
| mangan | ese_mgL | | | | | | | anionre | em | arks | | | |



SOURCE ZONE

| VA / | | AI | MP |
|------|-----|----|--------------|
| VVI | - (| Δ | \mathbf{w} |

Lab ID

Sample ID

API No

3001520138

5688

Well Name

MAHUN STATE

001

Sample No

Location ULSTR 16

-104.70979

1800

22 S 22 1980 Lat / Long 32.39340

County Eddy

Operator (when sampled)

ROCKY ARROYO

W

Unit F

Sample Date

5/17/1968

Analysis Date

Sample Sourc DST

Depth (if known)

Water Typ

ph

8.6

alkalinity_as_caco3_mgL hardness_as_caco3_mgL

ph_temp_F specificgravity

hardness_mgL

specificgravity_temp_F

resistivity_ohm_cm

tds_mgL

35495

resistivity_ohm_cm_temp_

tds_mgL_180C

19000

conductivity

chloride_mgL sodium_mgL

conductivity_temp_F

carbonate_mgL

calcium_mgL iron_mgL

bicarbonate_mgL

sulfate_mgL

830 2500

barium_mgL

hydroxide_mgL

magnesium_mgL

h2s_mgL

potassium_mgL

co2_mgL

strontium_mgL

o2_mgL

manganese_mgL

anionremarks

Remarks



DISPOSAL ZONE

DEVONIAN

Lab ID

API No.

3001510280

Sample ID

6170

Well Name

JURNEGAN POINT

Sample No

Location ULSTR 05 24

Lat / Long 32.24037

-104.42375

660 S 660 W

County

Eddy

Operator (when sampled)

WILDCAT

Unit M

Sample Date

12/14/1964

S 25

Analysis Date

Sample Source DST

Water Type

Depth (if known)

ph

7

001

E

alkalinity_as_caco3_mgL

ph_temp_F

hardness_as_caco3_mgL

specificgravity

hardness_mgL

specificgravity_temp_F

resistivity_ohm_cm

tds_mgL

229706

resistivity_ohm_cm_temp_

tds_mgL_180C

136964

conductivity

chloride_mgL sodium_mgL

conductivity_temp_F

calcium_mgL

carbonate_mgL

bicarbonate_mgL

198 2511

iron_mgL

sulfate_mgL

barium_mgL

hydroxide_mgL

magnesium_mgL

h2s_mgL

potassium_mgL

co2_mgL

strontium_mgL manganese_mgL

o2_mgL anionremarks

Remarks



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 18,500' BGL (Below Ground Level) the well will TD approximately 1,500' 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 17,000' 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.

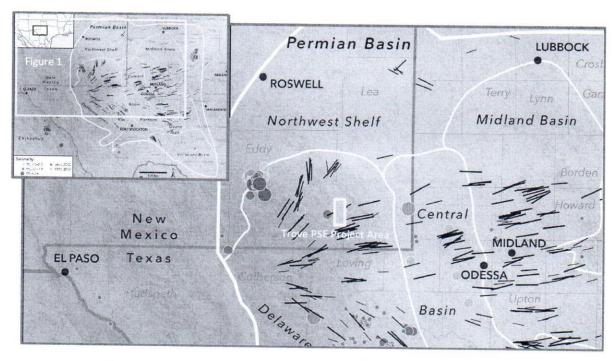
Fresh water in the area is generally available from Rustler mainly from dolomite beds of the Culebra Member. State Engineer's records show water wells in the area with a depth to groundwater of 160 to 205 feet with an average depth to groundwater of 182 feet.

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

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT

Map Source: <u>State of stress in the Permian Basin, Texas and New Mexico</u>: <u>Implications for induced seismicity (Figure 1)</u>; Jens-Erik Lund Snee/ Mark Zoback, February 2018



TROVE PSE PROJECT VICINITY

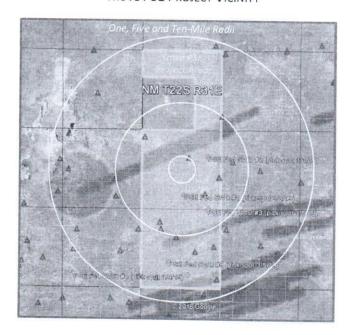


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress (SHmax), with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the Aφ parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normalsense offset within the past 1.6 Ma, from the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

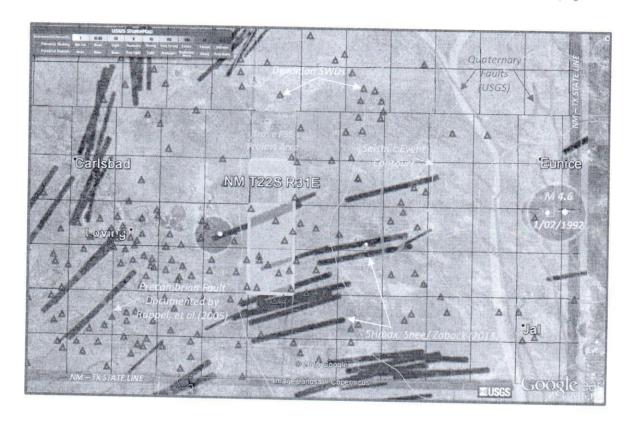
Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

In the following map, a layer with USGS historical earthquake data is overlaid and, a layer showing lines to represent Precambrian faults as documented by Ruppel, et al. (2005). Finally, a layer showing all currently permitted SWDs completed or proposed to be completed in the Devonian (Silurian) formation.

The USGS earthquakes shown are well known to the area. The 2012 quake located approximately 13 miles due east of Loving is also shown (8.5 miles). This was perhaps the most significant of the area in recent years but was determined to not be related to oil and gas activity.

The Precambrian faults and existing Devonian SWDs are discussed in more detail on the next page.



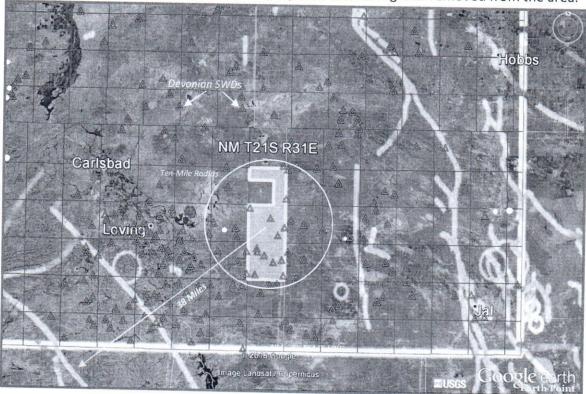
REGIONAL VIEW - DEVONIAN SWD LOCATIONS, PRECAMBRIAN FAULTS, SHmax, USGS MAGNITUDE

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

The primary Precambrian faults in the area as documented by Ruppel, et al. (2005) is represented on this map by the thick, pink colored lines. The most significant of these is the fault associated with the Rio Grande Rift, running southeast to northwest and, runs adjacent to a portion of Hwy 285 however; only a small portion the associated fault which runs parallel approximately 15 miles northeast is depicted below. The Trove PSE Project SWD Area is located some 38 miles from the fault. Other documented faults (USGS, 2000) are shown for eastern Lea County and extending into west Texas. Other Devonian SWDs in the area are also shown (small purple triangles) completed or proposed to be completed in the Devonian (Silurian) formation.

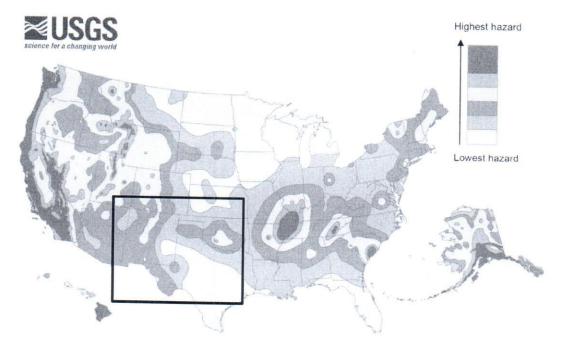
The previously referenced study by Snee and Zoback (shown on previous exhibits) evaluated the strike-slip probability using probabilistic FSP (Fault Slip Potential) analysis of known faults in the Permian Basin. The study predicts that the Precambrian fault shown here has less than a 10% probability of being critically stressed to the point of creating an induced seismicity event. The main reason for the low probability is due to the relationship of the strike of the fault to the regional S_{Hmax} orientation; the proposed SWD being well removed from the area.



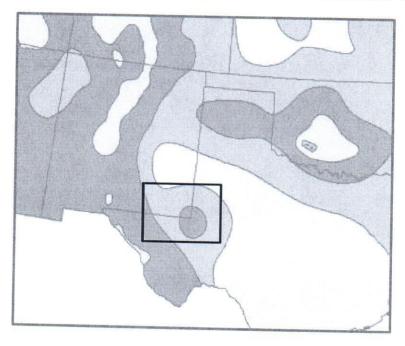
VICINITY - PERMITTED DEVONIAN SWDs, COMPOSITE FAULTS

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)



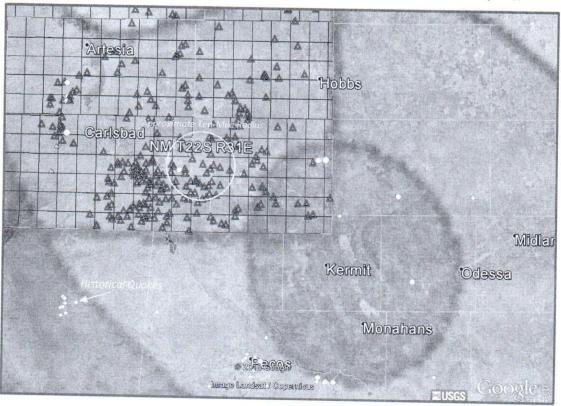
2014 map data: The USGS notes in its report that <u>fracking</u> may be to blame for a sizeable uptick in earthquakes in places like <u>Oklahoma</u>. "Some states have experienced increased seismicity in the past few years that may be associated with human activities such as the disposal of wastewater in deep wells," the report says. USGS hopes to use that data in future maps but it isn't included in this one. "Injection-induced earthquakes are challenging to incorporate into hazard models because they may not behave like natural earthquakes and their rates change based on man-made activities," the report says.



Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2014 REGIONAL MAP DATA OVERLAY IN GOOGLE EARTH W/ HISTORICAL EARTHQUAKES

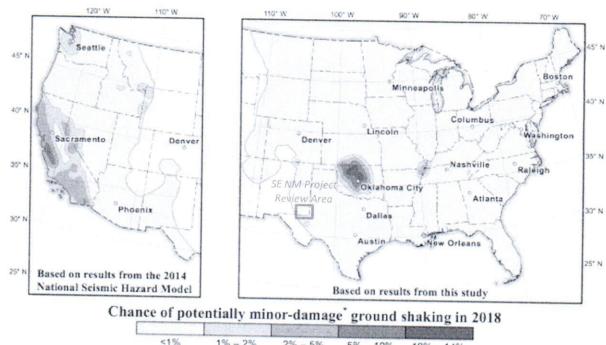


An updated USGS map for 2018 is on the next page. While methodology remained essentially the same according to USGS, the interpreted results and color-coding did have some modification. However, the subject area in southeast New Mexico on both maps remains very low and on the 2018 map, the area is assigned a value of <1% of "potentially minor-damage ground shaking".

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2018 ONE-YEAR MODEL



2% - 5% 5% - 10%

Map showing chance of damage from an earthquake in the Central and Eastern United States during 2018. Percent chances are represented as follows: pale yellow, less than 1 percent; dark yellow, 1 to 2 percent; orange, 2 to 5 percent; red, 5 to 10 percent; dark red, 10 to 12 percent. See Hazard from the western United States from the 2014 National Seismic Hazard Maps (Petersen et al., 2014) for comparison.

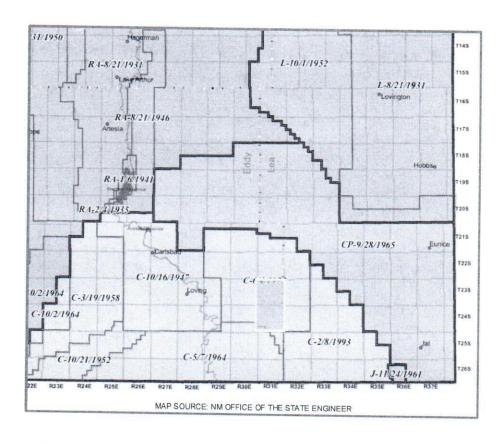
The USGS has produced the 2018 one-year probabilistic seismic hazard forecast for the central and eastern United States from induced and natural earthquakes. For consistency, the updated 2018 forecast is developed using the same probabilistic seismicity-based methodology as applied in the two previous forecasts.

Based on publicly available data for the subject area, it is reasonable to believe the risk of induced seismic activity due to disposal injection into this well is extremely low.

equivalent to Modified Mercalli Intensity VI, which is defined as: "Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight."

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 Rustler mainly from dolomite beds of the Culebra Member. State Engineer's records show water wells in the area with a depth to groundwater of 160 to 205 feet with an average depth to groundwater of 182 feet.

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



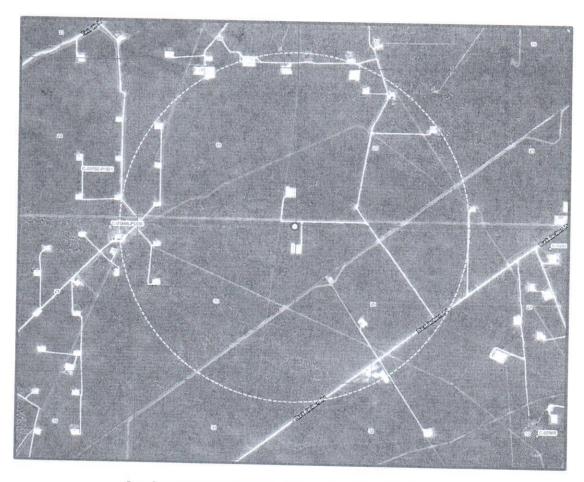
C-108 Item XI

Water Wells Within One Mile

PSE Federal SWD No.4 - 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.

Ben Stone, Partner SOS Consulting, LLC

Project:

Trove Energy and Water, LLC

PSE Project Area Reviewed 3/4/2019

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

PSE Federal SWD Well No.4 – Affected Parties Plat

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

| MESON (K) | HIVSE EAT | NESE (1) | £3 | 79-025-33626 ●E@W (K.) | NAME (J) | NESC (1) | 9050 (1.) | résw (K) | NOSE (4) | 10 (1) | Wits N EU | lipsy/ (K) | Maria; (J) |
|-------------------------------|--|---|-------------------------------|--|---------------------------------|--------------------------|---|--|---|--|---------------------------------|--------------------------------|-------------------------------|
| SERW (N) | 0344676 4 20052 (00) | (P+ 0-015-44550 =30-015-445 | 1.4 30-025-44 51 10-025 | 1 525.W (N) 190 30-025-4 44191 80 | (CNO-025- 025-44192 | 50.52 4418710-025-441 | 00/500 18: 10:025-44 10:025/44184 | 57 % (N.) 1N.) 1994 30-02 30-025-4496 | 57 50 25 4494210 025 44 5 79 423-4 | (P) (18) 30-025-4 (44) 5 10-025-4 | 100000 | 555W (N) 445et | 99/8E 101 |
| NENW (G) | 10.053,02853 | Mary Angeles | | 107 | | IN TO | 101 | 500 | 30-025-02-00 0-025-02-02-02-02-02-02-02-02-02-02-02-02-02- | 30-923-20159 (a1) (b) (a2) (a3) | 1000M (D) | NETEN (C) | 12/2/12/ (B) |
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| | | | | 21 | | | 38-05-4 | 117210-025-411 | 71 | 10-225 40583 | 70,503 | 11/64 1 | G |



- LEGEND -

T.1 - NMNM-120908 - COG Operating, LLC

T.2 - NMNM-057274 - EOG Resources, Inc.

T.3 – NMNM-116575 – Devon Energy Prod. Co.

T.4 - NMNM-108968 - EOG 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 EVIDENCE 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

U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 0360 0001 8569 7061

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

BLM Lease NMNM-120908 (T.1 on Map)

Lessse & Operator

COG OPERATING, LLC Attn: NM Land/ Leases 600 W. Illinois Avenue Midland, TX 79701

Certified: 7018 0360 0001 8569 7054

BLM Leases NMNM-057274, 108968 (T.2 and T.4 on Map)

Lessee & Operator

EOG RESOURCES, INC. 105 S. 4th St. Artesia, NM 88210

Certified: 7018 0360 0001 8569 7047

BLM Leases NMNM-116575 (T.3 on Map)

Lessee & Operator

DEVON ENERGY PRODUCTION CO., LP 333 W. Sheridan Avenue OKC, OK 73102-5010
Certified: 7018 0360 0001 8569 7030

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

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

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) 811 South First St. Artesia, NM 88210

PSE #4





April 2, 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 PSE Federal SWD Well No.4. 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 30, Township 24 South, Range 32 East in Eddy County, New Mexico.

The published notice states that the interval will be from 17,000 feet to 18,500 feet into the Devonian and Silurian formations.

Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about April 3, 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 PSE Federal SWD Well No.4 will be located 145' FNL & 5' FWL, Section 30, Township 24 South, Range 32 East, Lea County, New Mexico; approximately 21.4 miles east of Malaga, NM.

Produced water from area production will be commercially disposed into the Devonian and Silurian formations at a maximum interval depth of 17,000' to 18,500' at a maximum surface pressure of 3400 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.

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-s036f3bfd03146998 (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, and the same PDF file copy will be expedited to you via email.

Please use a subject like "PSE Fed SWD #4 April 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.

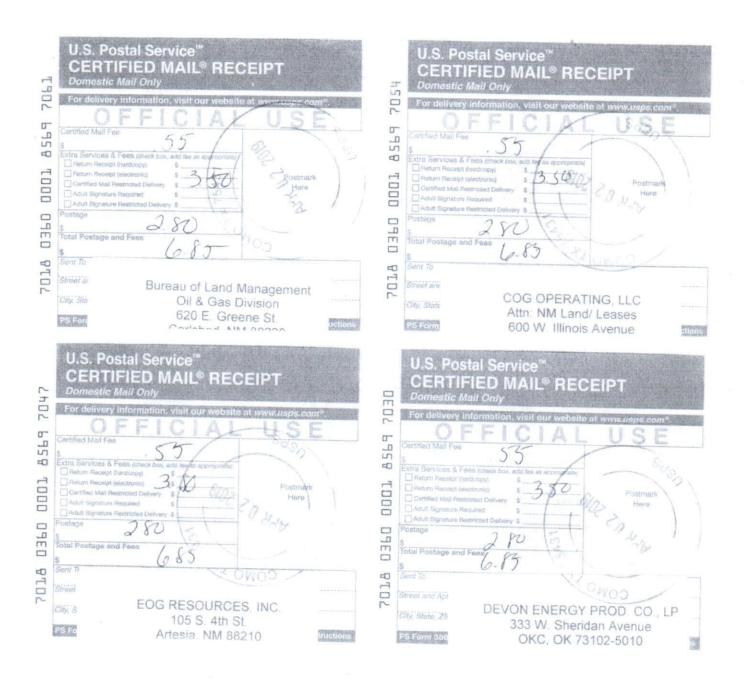
CITRIX



ShareFile'

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)



Affidavit of Publication 25050 State of New Mexico County of Eddy: Danny Scott being duly sworn sayes 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 Consecutive weeks/day on the same March 31, 2019 Sixth Publication Seventh Publication Subscribed and sworn before me this OFFICIAL SEAL Latiaha Romine My commission expire

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

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Published in the Artesia Daily Press, Artesia, N.M., March 31, 2019 Legal No. 25050.