Initial

Application

Part I

Received: **06/18/2019**

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: 06/18/2019	REVIEWER: MAM	TYPE: SWD	APP NO: pMAM1917031667

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: SEC SE Federal SWD No.5 **API:** 30-015-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

SWD-2160

   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

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
   A. ☒ Offset operators or lease holders
   B. ☐ Royalty, overriding royalty owners, revenue owners
   C. ☒ Application requires published notice
   D. ☒ Notification and/or concurrent approval by SLO
   E. ☒ Notification and/or concurrent approval by BLM
   F. ☒ Surface owner
   G. ☒ For all of the above, proof of notification or publication is attached, and/or,
   H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ben Stone
Print or Type Name

6/18/2019
Date

903-488-9850
Phone Number

Signature

ben@sosconsulting.us
e-mail Address

McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Tuesday, June 18, 2019 2:31 PM
To: Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD; Jones, William V, EMNRD
Subject: [EXT] Trove Energy and Water, LLC's C-108 for SWD in its SEC SE Federal SWD #5 prospect...
Attachments: C-108_Trove_SEC-SEFed SWD#5_AsSubmitted_20190618.pdf

Gentlemen:

Please find the attached subject C-108. This location was vetted w/ EOG and ConocoPhillips and spotted per their development plan criteria.

Hard copies via FedEx – going out this afternoon. A link to the PDF file for Affected Parties is also provided below.

Please let me know if additional info is needed.

Thanks,
Ben

https://sosconsulting.sharefile.com/d-s18edcb862974efd8

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Visit us on the web at www.sosconsulting.us!

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June 18, 2019

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

Attn: Ms. Adrienne Sandoval, Director

Re: Application of Trove Energy and Water, LLC to permit for salt water disposal the proposed SEC SE Federal SWD No.5, located in Section 5, Township 26 South, Range 31 East, NMPM, Eddy County, New Mexico.

Dear Ms. Sandoval,

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 option for 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 today, June 18, 2019 in the Artesia Daily Press and all offset operators and other affected 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.

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. ***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 2 water wells/ PODs within one mile of the proposed salt water disposal well. Representative analyses are included herein and one or both of the subject wells will be sampled and analyzed and submitted.***

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 2 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***

SIGNATURE: _____ DATE: ***6/18/2019***

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.

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

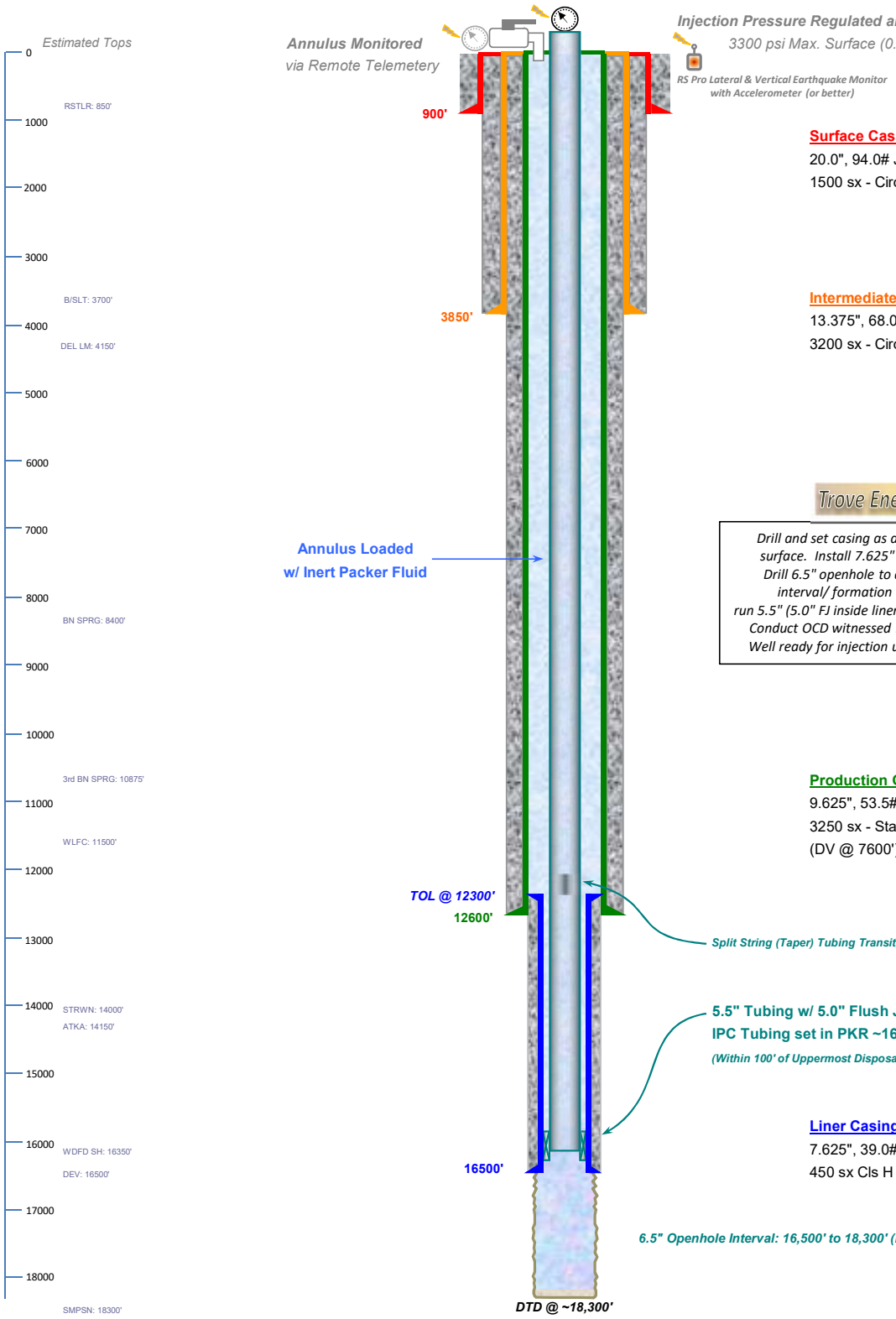
All Above Exhibits follow this page.

WELL SCHEMATIC - PROPOSED
SEC SE Federal SWD Well No.5

TROVE ENERGY and WATER

API 30-015-xxxxx
1470' FSL & 150' FWL, SEC. 5-T26S-R31E
EDDY COUNTY, NEW MEXICO

SWD; Devonian-Silurian (97869)
Spud Date: 3/01/2020
SWD Config Dt: 4/15/2020



Surface Casing
20.0", 94.0# J-55 Csg. (26.0" Hole) @ 900'
1500 sx - Circulated to Surface

Intermediate Casing
13.375", 68.0# Csg. (17.5" Hole) @ 3850'
3200 sx - Circulated to Surface

Trove Energy & Water, LLC

Drill and set casing as designed w/ all strings cemented to surface. Install 7.625" liner @ ~16,500 w/ 450 sx to TOL. Drill 6.5" openhole to approx. 18,300' TD w/ mudlog for interval/ formation verification. Acidize formation; run 5.5" (5.0" FJ inside liner) injection TBG on PKR set at 16,400'.+ Conduct OCD witnessed MIT. Implement seismic monitoring. Well ready for injection upon completion of surface facilities.

Production Casing
9.625", 53.5# P-110 Csg. (12.25" Hole) @ 12600'
3250 sx - Staged; Circulate to Surface
(DV @ 7600')

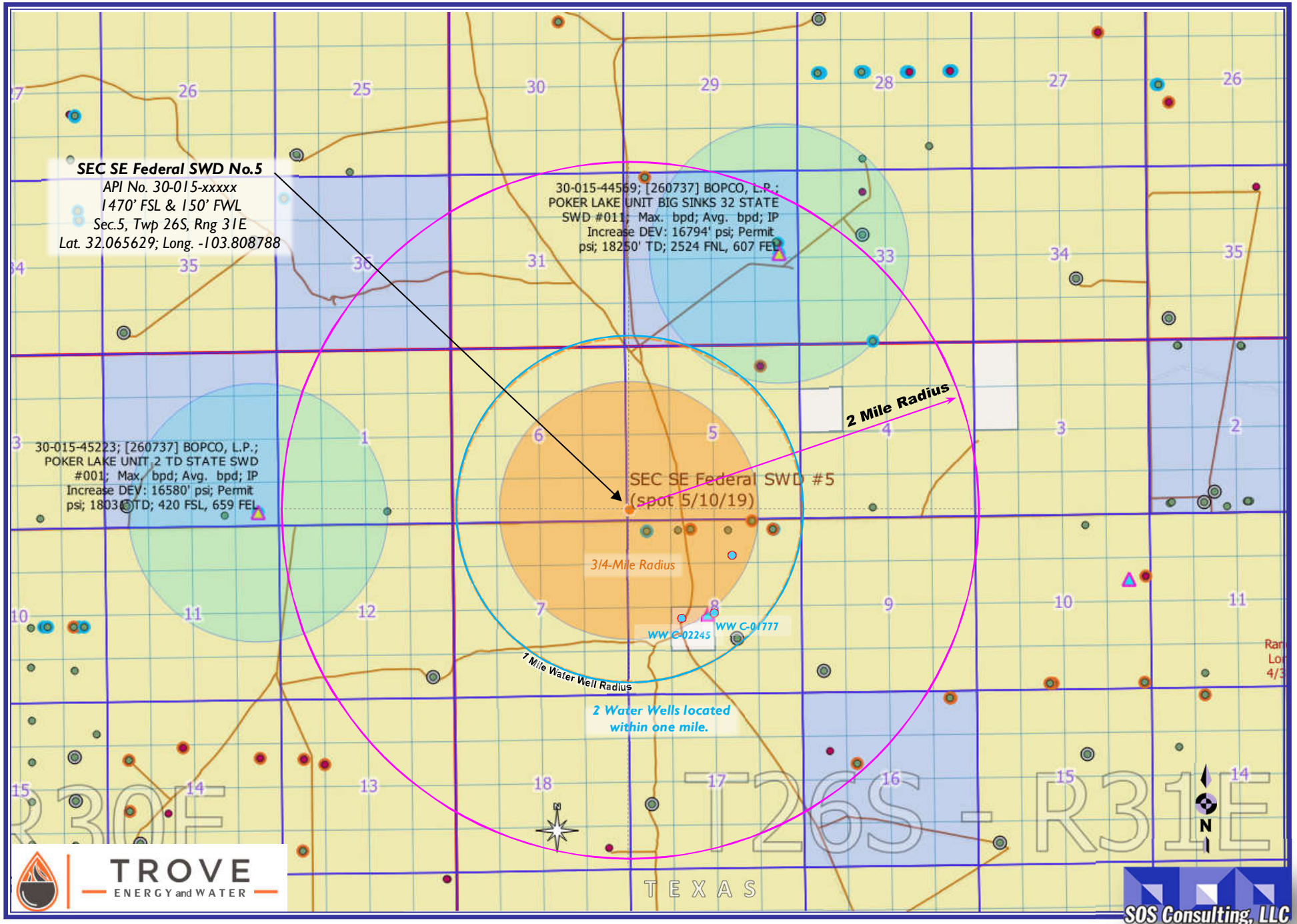
Liner Casing
7.625", 39.0# P-110 Csg (8.5" Hole) 12300' to 16,500'
450 sx Cls H - TOC @ Top of LNR

Drawn by: Ben Stone, 6/13/2019

SOS Consulting, LLC

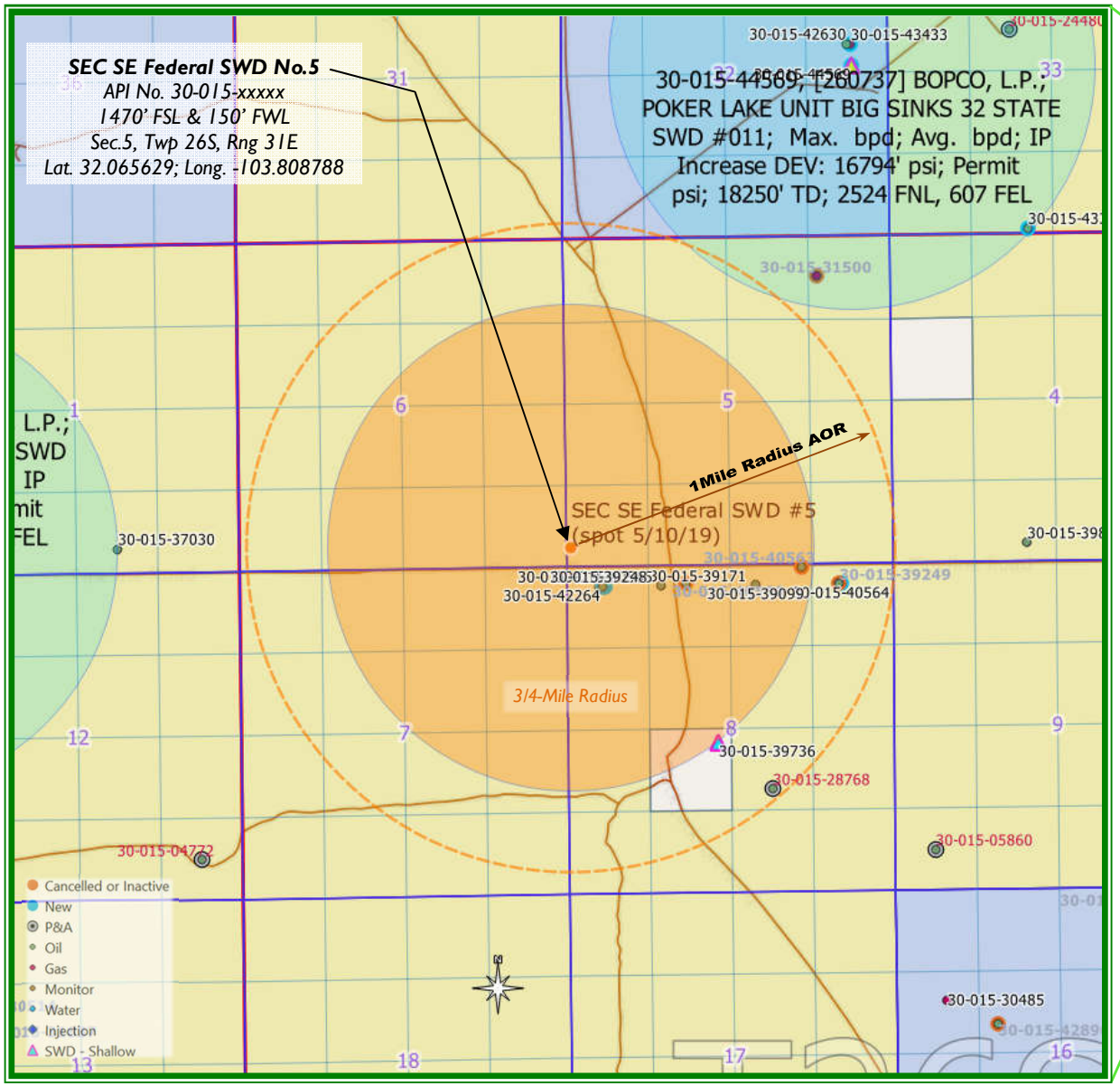
SEC SE Federal SWD No.5 - Area of Review / 2 Miles

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

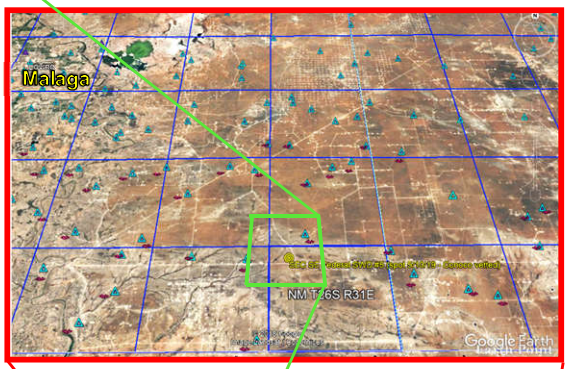


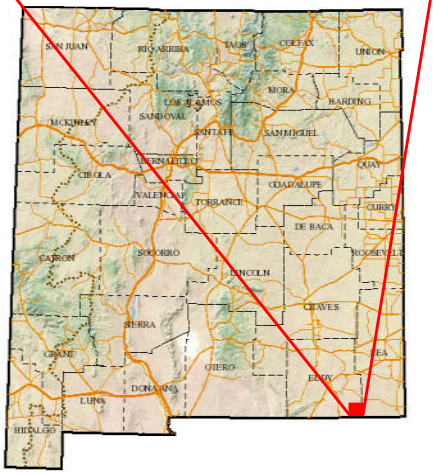
SEC SE Federal SWD Well No.5 – One Mile Area of Review / Overview Map

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



18.7 miles Southeast of Malaga, NM





Eddy County, New Mexico

TROVE ENERGY and WATER

SOS Consulting, LLC

C-108 ITEM VII – PROPOSED OPERATION

Trove SEC SE 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 facility construction phase of the project to last more than 60 days, depending on availability of contractors and equipment. Facility design is currently in the planning phase with a company which specializes in such construction.

DRILL AND CONFIGURE FOR SALT WATER DISPOSAL

Interval Determination
Prior to commencing disposal, Trove Energy and Water shall submit mudlog and geophysical logs information, to the Division's District geologist and Santa Fe Engineering Bureau, showing evidence agreeable that only the permitted formation is open for disposal including a summary of depths (picks)for contacts of the formations which the Division shall use to amend any order for a final description of the depth for the injection interval. If significant hydrocarbon shows occur while drilling, the operator shall notify Artesia district office and Trove will seek written permission prior to commencing disposal.

Casing and Logging
Trove's design is to circulate all casing strings to surface. If cement does not circulate on any casing string, the Trove will run a cement bond log (CBL) or other log to determine top of cement and shall notify the Artesia district office with the top of cement (emergency phone number if after normal business hours) prior to continuing with any further cement activity with the proposed well. If cement does not tie back in to next higher casing shoe, the operator shall perform remedial cement job(s) to bring cement, at a minimum, 200 feet above the next higher casing shoe. The operator shall run a CBL (or equivalent) for the 7-5/8-inch liner to demonstrate placement cement and the cement bond with the tie-in with 9-5/8-inch casing string. All logs on the well will be copied to the Artesia district office; CBL logs and mudlogs will be provided prior to commencing disposal. Additionally, prior to commencing disposal the operator shall obtain a bottom-hole pressure of the open-hole completion. This information shall be provided with the sundry notice of commencement of disposal operations.

Monitoring and Reporting
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.

C-108 ITEM VII – PROPOSED OPERATION

(continued)

OPERATIONAL SUMMARY

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

Ultimately, Trove's plans would include tying the SWD into a pipeline, when and if available, 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.

SCADA System

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. Operational details including rates, pressures, valve, tank and levels will be continually monitored and either controlled remotely or personnel dispatched for further action.

In addition to operational SCADA system control and monitoring, Trove is considering installing RS Pro Lateral & Vertical Earthquake Monitors with Accelerometer, or better for continuous monitoring. Data will be remotely accessible; monitored and shared as needed. An alternative solution being considered would employ a third party to provide seismic monitoring using public and private seismometers as available.

Rates, Pressures, Releases

Anticipated daily maximum volume is 30,000 bpd and an average of 22,500 bpd at a maximum surface injection pressure of 3300 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

Delaware
Bone Spring
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data

Trove Energy & Water, LLC - SEC SE Federal Project Area

SOURCE ZONE

DELAWARE

Lab ID

Sample ID 5532

Sample No

API No 3001510181

Well Name SUPERIOR STATE 002

Location ULSTR 08 25 S 30 E **Lat / Long** 32.14281 -103.89616

1980 S 660 E **County** Eddy

Operator (when sampled)

Field CORRAL CANYON Unit I

Sample Date Analysis Date

Sample Source SWAB Depth (if known)

Water Typ

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	

Remarks

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

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Trove Energy & Water, LLC - SEC SE Federal Project Area

SOURCE ZONE

BONE SPRING

Lab ID

Sample ID 6681

Sample No

API No 3002533529

Well Name THYME APY FEDERAL 002

Location ULSTR 01 23 S 32 E

1650 N 1650 E

Lat / Long 32.33657 -103.62470

County Lea

Operator (when sampled)

Field RED TANK

Unit G

Sample Date 11/27/2001

Analysis Date

Sample Source

Water Typ

Depth (if known)

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.)

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Trove Energy & Water, LLC - SEC SE Federal Project Area

SOURCE ZONE

WOLFCAMP

Lab ID

Sample ID 5096

Sample No

API No 3002501678

Well Name LAGUNA PLATA FEDERAL UNIT 001

Location ULSTR 22 19 S 33 E **Lat / Long** 32.64341 -103.64461

1980 S 710 E **County** Lea

Operator (when sampled)

Field TONTO Unit I

Sample Date Analysis Date

Sample Source DST Depth (if known)

Water Typ

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.)

SOS Consulting, LLC

C-108 Item VII.5 - Produced Water Data

Trove Energy & Water, LLC - SEC SE Federal Project Area

DISPOSAL ZONE

DEVONIAN

Lab ID

Sample ID 5720

Sample No

API No 3002521082

Well Name ANTELOPE RIDGE UNIT 003

Location ULSTR 34 23 S 34 E **Lat / Long** 32.25922 -103.46068

1980 S 1650 W **County** Lea

Operator (when sampled)

Field ANTELOPE RIDGE Unit K

Sample Date 11/14/1967 Analysis Date

Sample Source UNKNOWN Depth (if known)

Water Typ

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.)

SOS Consulting, LLC

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 in the area and charted contours. 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 18,300' BGL (Below Ground Level) the well will TD approximately 1,800' 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 16,500' BGL. Injection will occur through the resulting openhole interval.

TROVE ATTEMPTS TO BRACKET POTENTIAL INJECTION INTERVALS BASED ON OFFSETTING WELLS, AVAILABLE NEARBY LOGS AND CONTOURS PLOTS; IT IS EXPECTED THAT ONCE DRILLING COMMENCES AND MUDLOGGING RETURNS ARE EVALUATED, THE INTERVAL MAY BE ADJUSTED ACCORDINGLY TO EXPLOIT THE DESIRED FORMATION AS DESCRIBED. C-103 SUNDRY REPORTS WITH APPROPRIATE DATA WILL BE FILED WITH THE OCD AND FINALIZED WITH THE C-105 COMPLETION REPORT.

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

The SWD prospect is in 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 292 to 365 feet and an average depth of 317 feet.

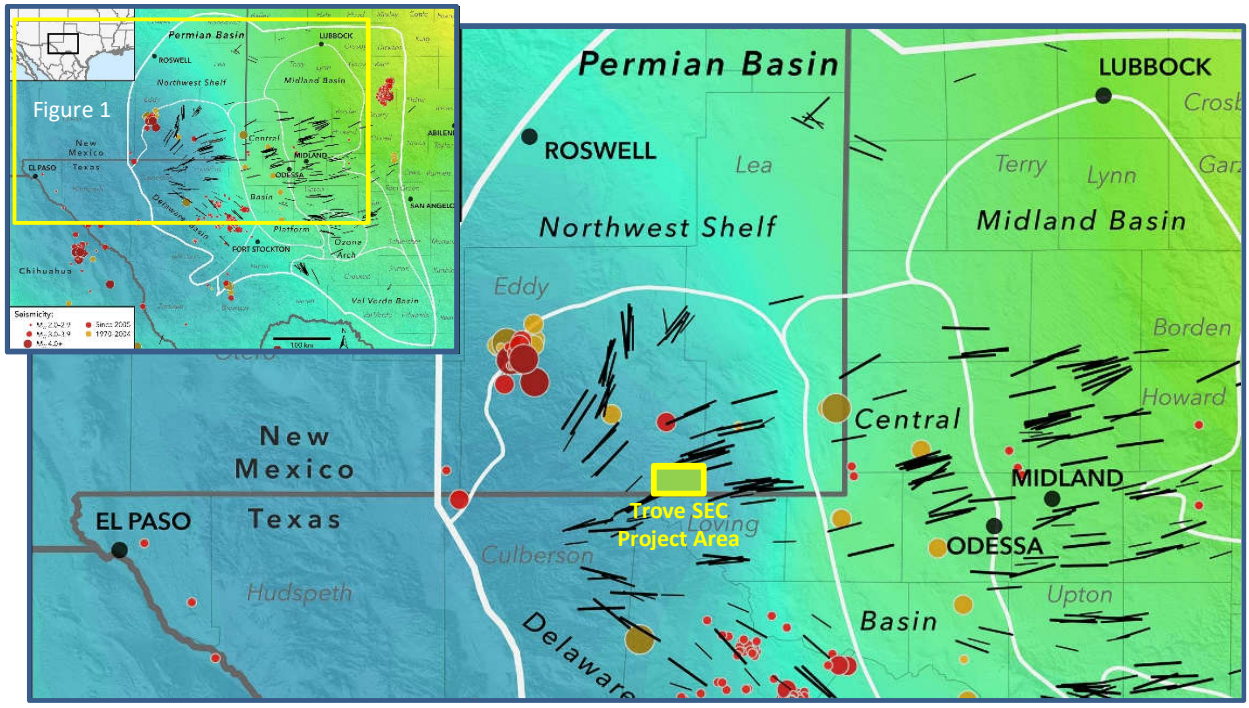
There are 2 (two) water wells located within one mile of the proposed SWD. Representative analyses from the area are included herein and one or both of the subject wells will be sampled, analyzed and submitted to the division.

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT

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



TROVE PSE PROJECT VICINITY

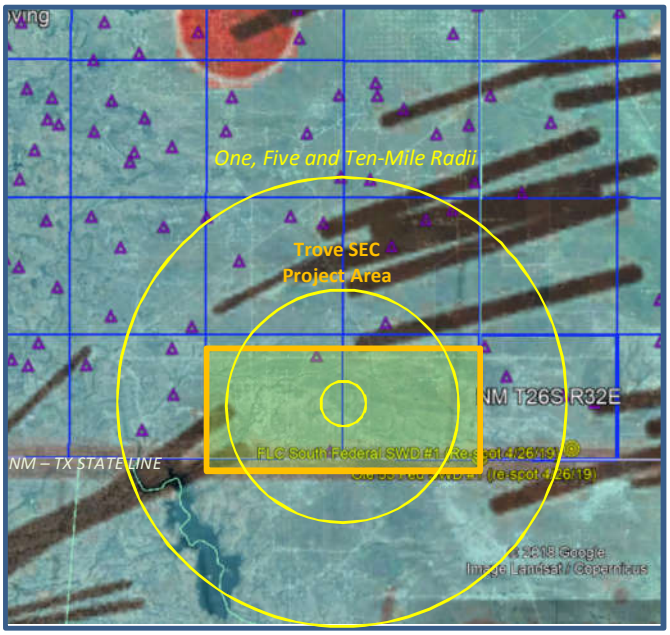


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress (SHmax), with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the Aφ parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense 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).

C-108 - Item VIII

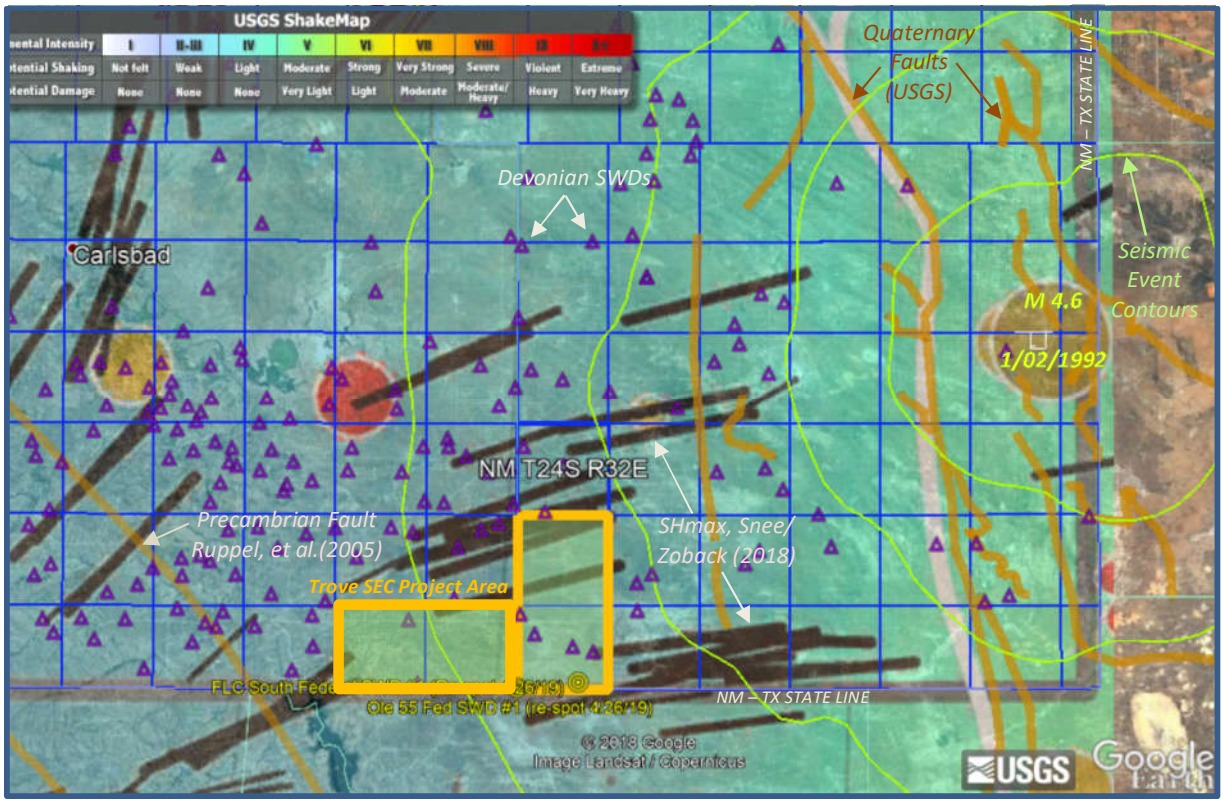
Geological Data

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 (19.2 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 best known and largest in recent history was the 1992, 4.6 magnitude quake centered south of Eunice, NM (36.0 miles).

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



REGIONAL VIEW - DEVONIAN SWD LOCATIONS, PRECAMBRIAN FAULTS, S_{Hmax}, USGS MAGNITUDE

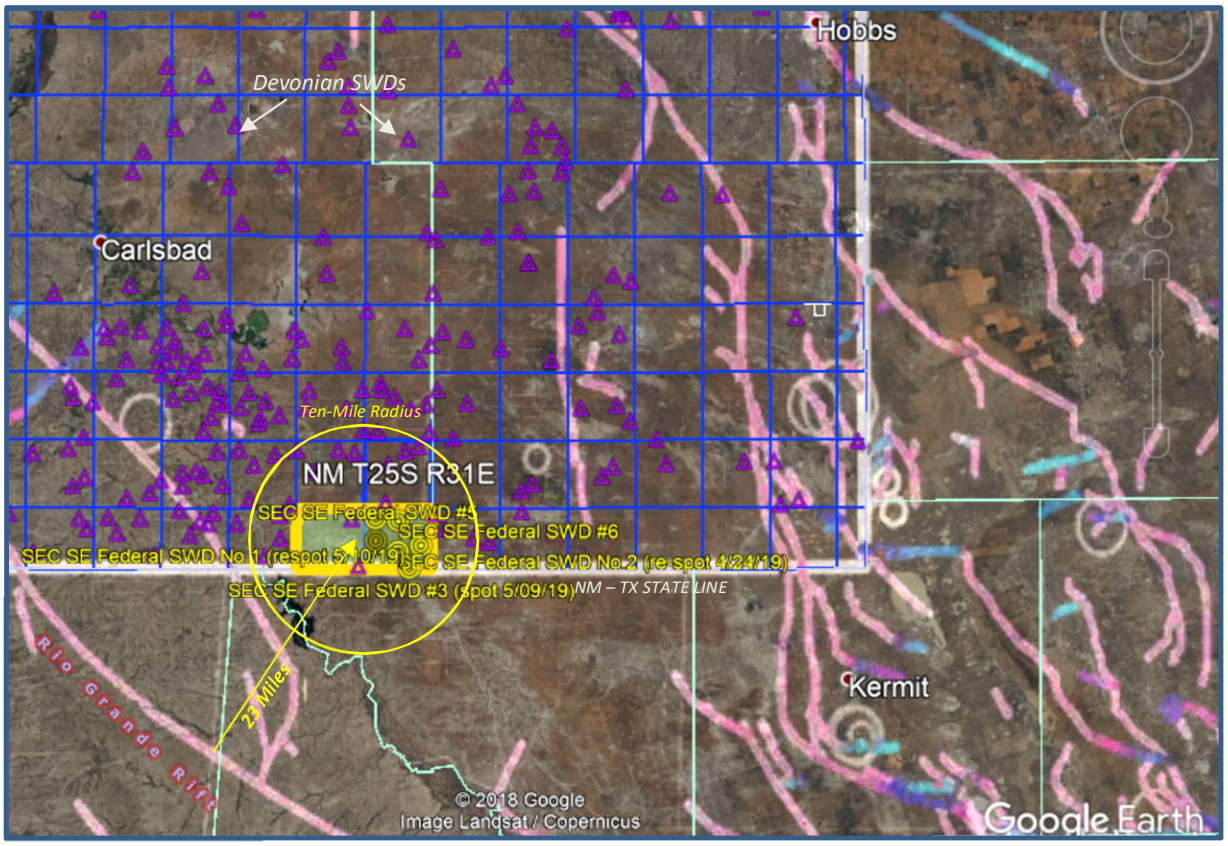
C-108 - Item VIII

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; a portion the associated fault which runs parallel approximately 15 miles northeast is also depicted below. The Trove SEC Project SWD Area is located some 23 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.

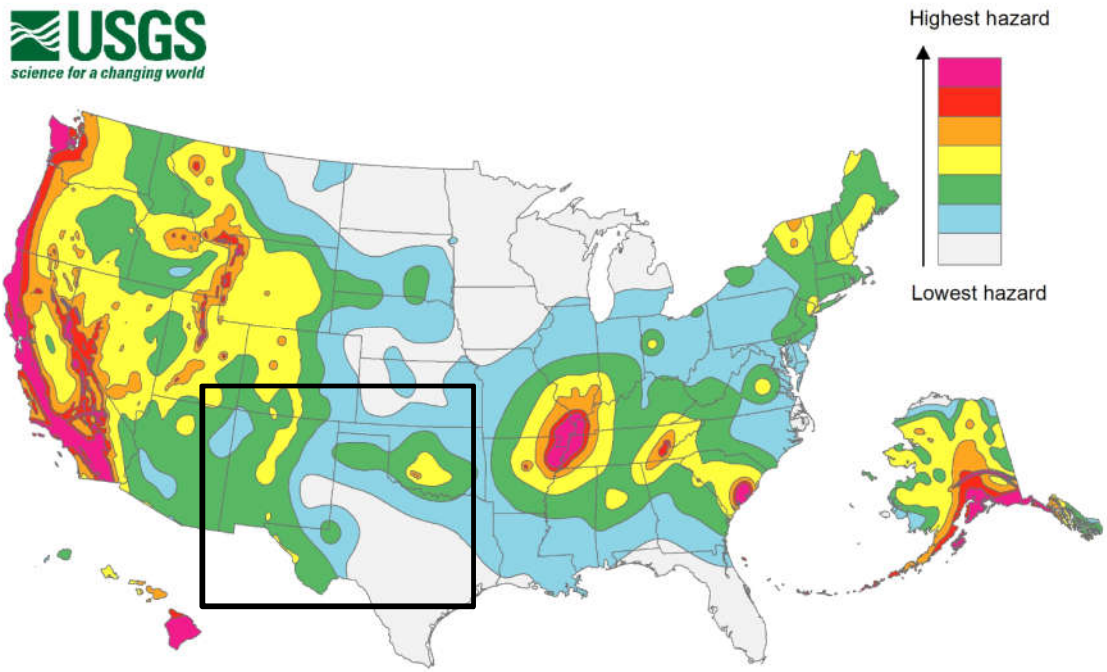


VICINITY - PERMITTED DEVONIAN SWDS, COMPOSITE FAULTS

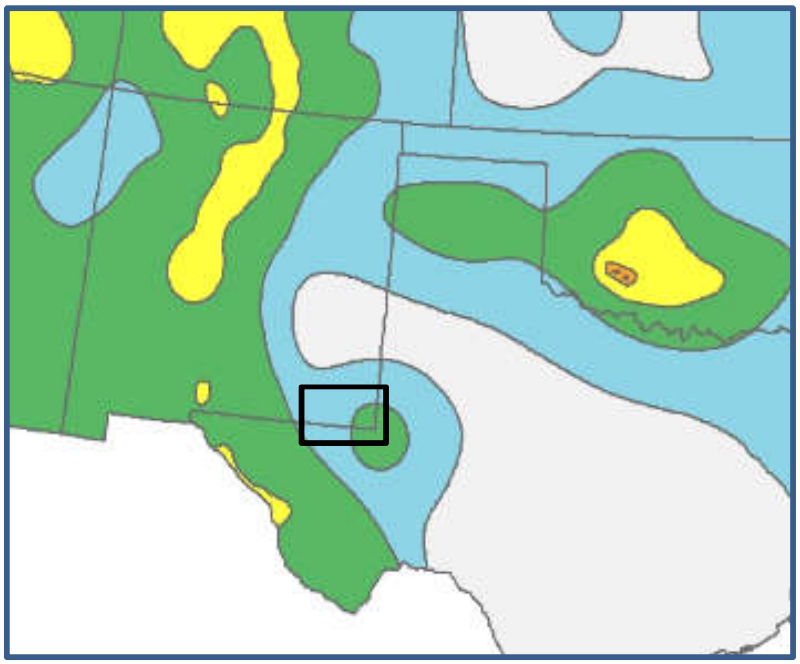
C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)



2014 map data: The USGS notes in its report that fracking may be to blame for a sizeable uptick in earthquakes in places like Oklahoma. "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.

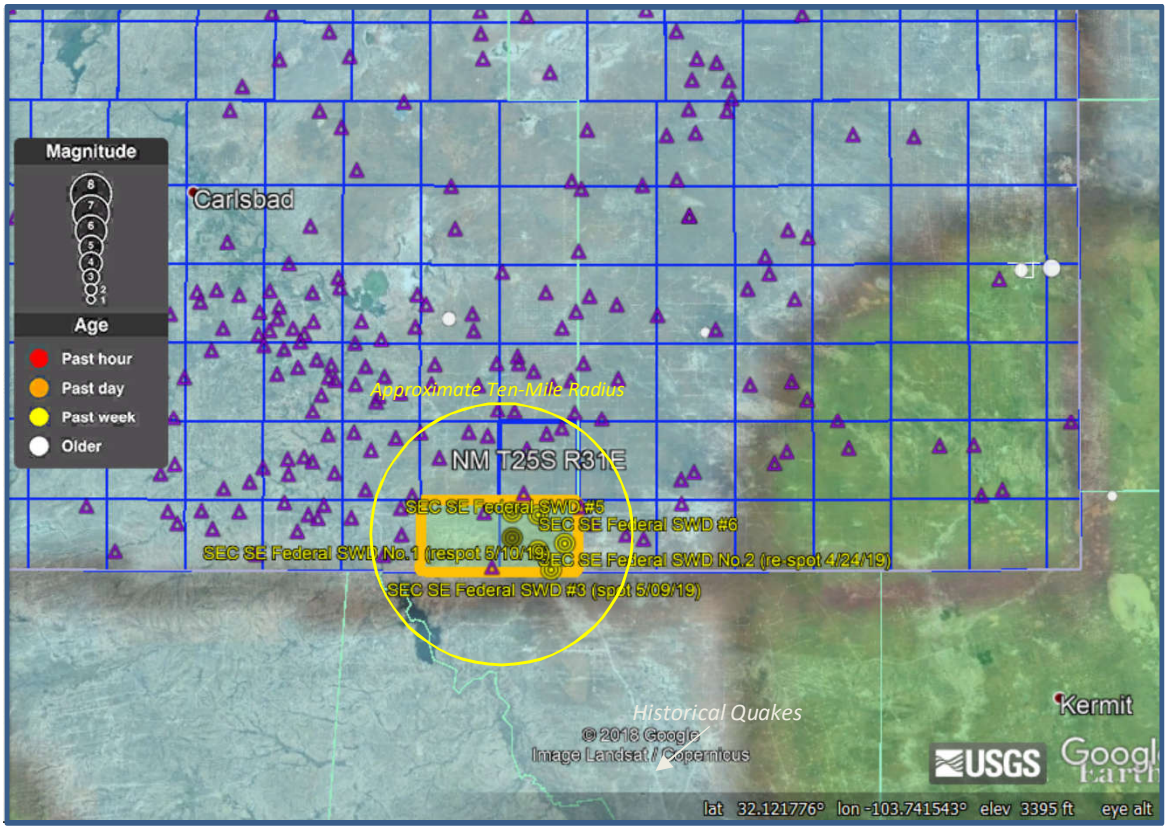


C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

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



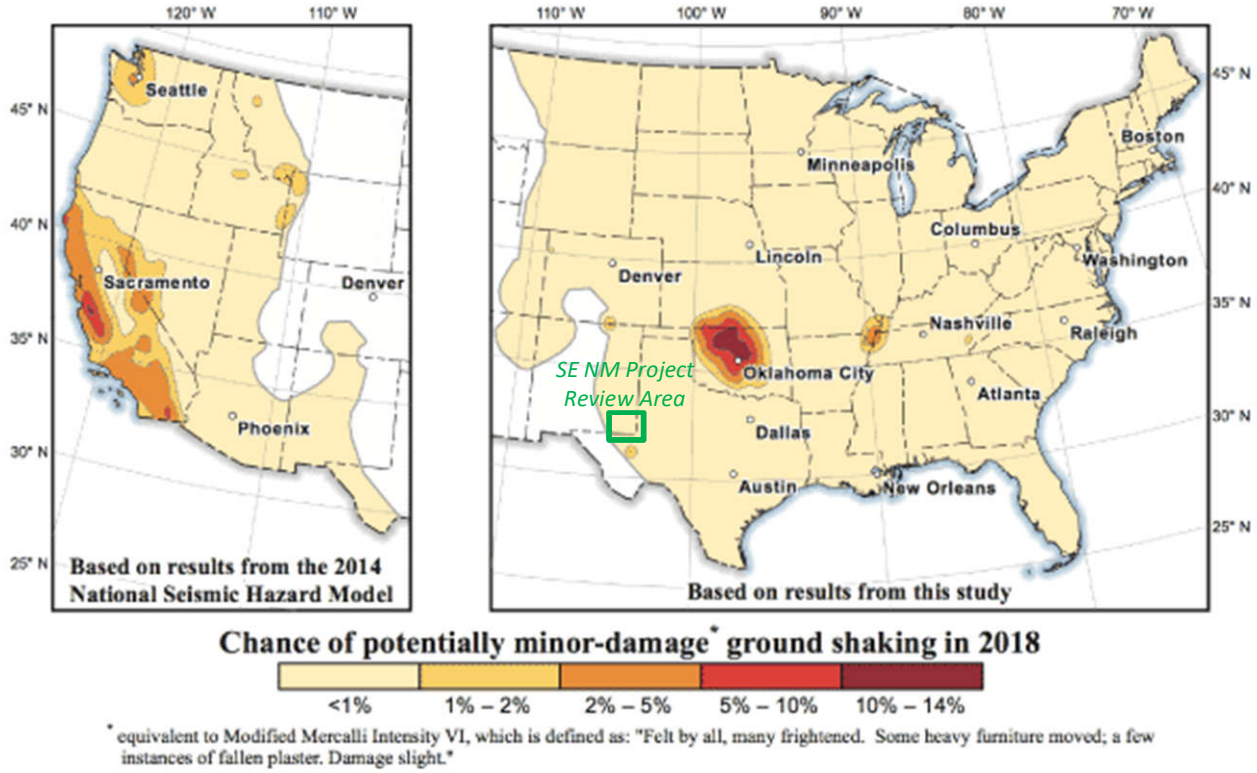
An updated USGS map for 2018 is on the next page. While methodology remained essentially the same according to USGS, the interpreted results and color-coding did have some modification. However, the subject area in southeast New Mexico on both maps remains very low and on the 2018 map, the area is assigned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

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2018 ONE-YEAR MODEL



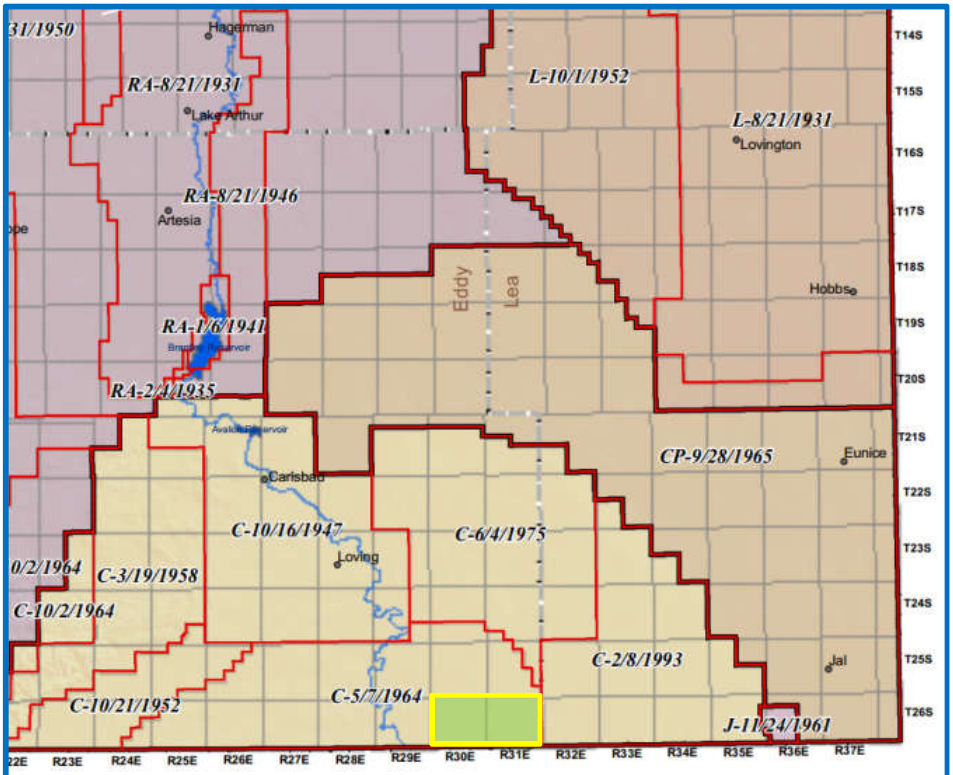
Map showing chance of damage from an earthquake in the Central and Eastern United States during 2018. Percent chances are represented as follows: pale yellow, less than 1 percent; dark yellow, 1 to 2 percent; orange, 2 to 5 percent; red, 5 to 10 percent; dark red, 10 to 12 percent. See Hazard from the 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.

C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



MAP SOURCE: NM OFFICE OF THE STATE ENGINEER

The subject well is located within the Carlsbad Basin.

State Engineer's records show water wells in the area with a depth to groundwater of 292 to 365 feet and an average depth of 317 feet.

There are 2 water well (PODs) within a one-mile radius of the proposed SWD. A representative analysis is included with this application. Samples from subject wells will be analyzed and results submitted to the division.

SOS Consulting, LLC

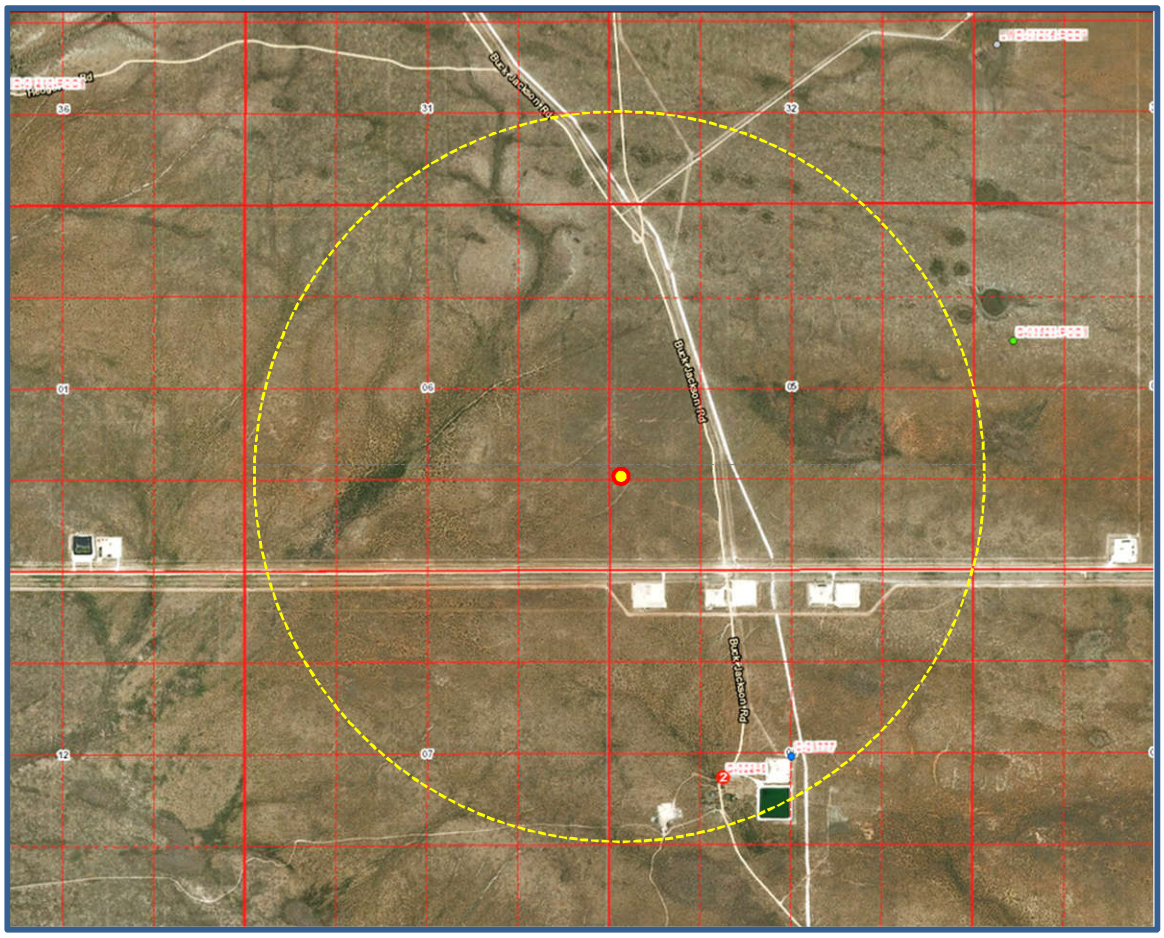
C-108 Item XI

Water Wells Within One Mile

SEC SE Federal SWD No.5 - Water Well Locator Map

There are 2 water well (PODs) within a one-mile radius of the proposed SWD.

A representative analysis is included with this application. Samples from subject wells will be analyzed and results submitted to the division.



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

SOS Consulting, LLC

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01777		C	ED				08	26S	31E	613245	3547409*	325	300	25
C 02090		C	ED		4	4	01	26S	31E	620329	3548533*	350	335	15
C 02248		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 02249		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 03554 POD1		CUB	ED	2	1	4	01	26S	31E	620547	3549148	630	300	330
C 03639 POD1		CUB	ED	3	4	2	01	26S	31E	620168	3549279	700	365	335
C 04256 POD1		C	ED	4	4	2	01	26S	31E	620384	3549257	666	340	326

Average Depth to Water: **317 feet**
Minimum Depth: **292 feet**
Maximum Depth: **365 feet**

Record Count: 7

PLSS Search:

Township: 26S **Range:** 31E

***UTM location was derived from PLSS - see Help**

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.

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

LABORATORY NO. 112-156
SAMPLE RECEIVED 1-12-12
RESULTS REPORTED 1-19-12

TO: Mike Lamothe
PO Box 1656, Monahans, TX 79756

COMPANY Monachem, Inc. LEASE EOG
FIELD OR POOL
SECTION ____ BLOCK ____ SURVEY 8-26S-31E COUNTY ~~Lea~~ Eddy STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Ross Draw water supply well - Sample #1. 1-10-12
NO. 2 Ross Draw water supply well - Sample #2. 1-10-12
NO. 3
NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0025	1.0025		
pH When Sampled				
pH When Received	8.30	8.30		
Bicarbonate as HCO_3	176	171		
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	172	204		
Calcium as Ca	59	53		
Magnesium as Mg	6	17		
Sodium and/or Potassium	42	33		
Sulfate as SO_4	85	102		
Chloride as Cl	21	21		
Iron as Fe	0.2	0.3		
Barium as Ba	0	0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	389	397		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	22.900	21.300		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By Greg Ogden, B.S.

LATHAM PRINTING CO. • 333-1292

Fresh Water Analysis: Baker Ranch Water Well 1-26S-31E

Chlorides: 399 ppm
Total Dissolved Solids: 746 ppm

BAKER HUGHES

S-1 T-26S R-31E

Water Analysis

Date: 22-Apr-15

2708 West County Road, Hobbs NM 88240
Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Company	Well Name	County	State
Newbourne	Baker #1	Lea	New Mexico

Sample Source	Wellhead	Sample #	1
Formation		Depth	

Specific Gravity	1.000	SG @ 60 °F	1.002
pH	7.35	Sulfides	
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	188	in PPM	188
Calcium	in Mg/L	68	in PPM	68
Magnesium	in Mg/L	29	in PPM	29
Soluable Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	400	in PPM	399
Sulfates	in Mg/L	70	in PPM	70
Bicarbonates	in Mg/L	15	in PPM	15

Total Hardness (as CaCO3)	in Mg/L	290	in PPM	289
Total Dissolved Solids (Calc)	in Mg/L	748	in PPM	746
Equivalent NaCl Concentration	in Mg/L	728	in PPM	726

Scaling Tendencies

*Calcium Carbonate Index 935

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 4,750

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment

Remarks rw=5.@70f

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 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
SEC SE Project Area
Reviewed 4/26/2019

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Affected Parties Map

List of Interested Parties

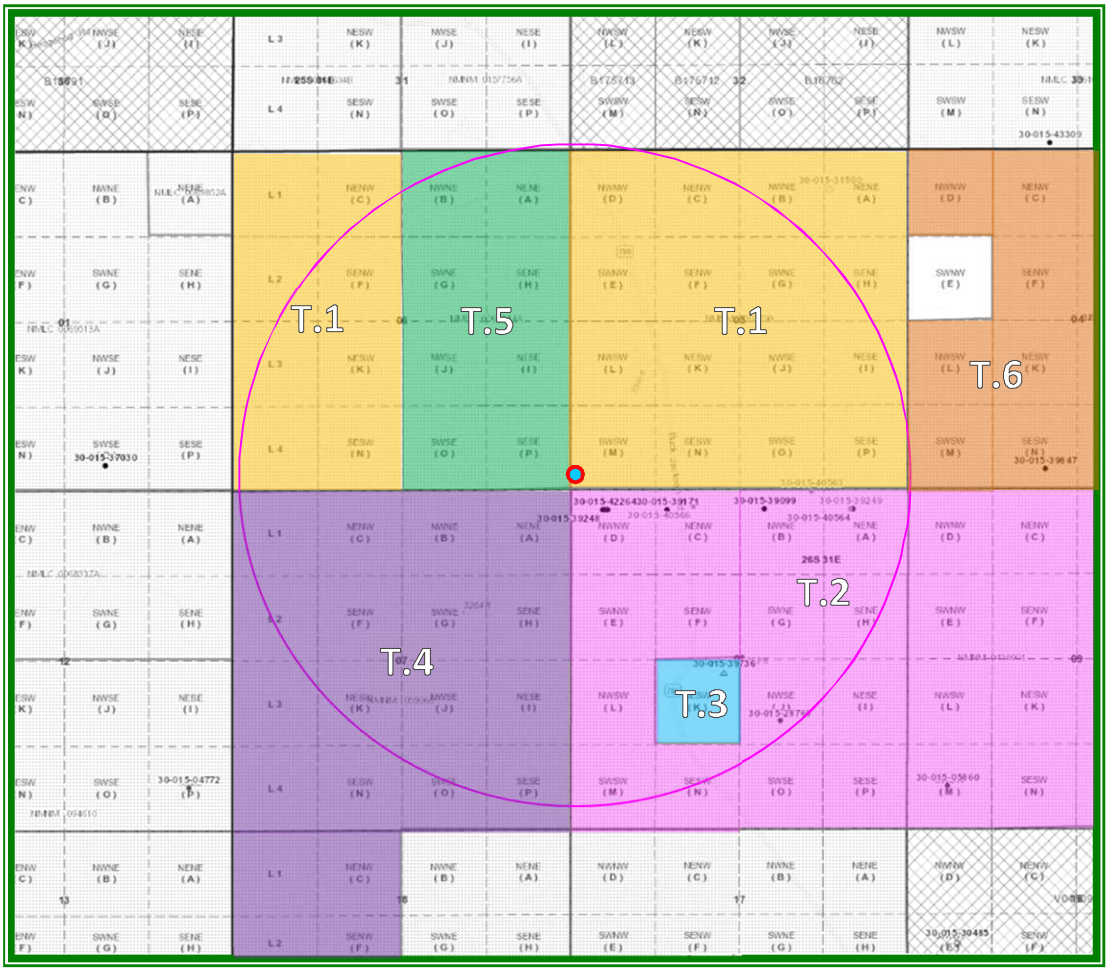
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

SEC SE 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-0002790 – ConocoPhillips Co.

T.2 – NMNM-04380001 – EOG Resources, Inc.

T.3 – Fee Lease – EOG Resources, Inc.

T.4 – NMLC-0068282B – McBride O&G Corp.

T.5 – NMLC-0069514A – CTV O&G, Keystone

T.6 – NMLC-0069514B – CTV O&G, Keystone

SOS Consulting, LLC

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

1 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 2290 0001 2038 6056

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

BLM Lease NMNM-0002790 (T.1 on map)
Lessee
2 CONOCOPHILLIPS COMPANY
Attn: Hannah Wasserman
P.O. Box 2197
Houston, TX 77252-2197
Certified: 7018 2290 0001 2038 6063

BLM Lease NMNM-04380001, 059060 and Fee Lease (T.2, T.3 and T.4 on map)
Lessee & Operator
3 EOG RESOURCES, INC.
Attn: Chuck Moran
5509 Champions Drive
Midland, TX 79706
Certified: 7018 2290 0001 2038 6070

BLM Lease NMLC-0069514A, 0069514B, (T.5 and T.6 on map)
Lessees
CTV O&G NM, LLC
KEYSTONE OG NM LLC
LMBI OG NM LLC
SRBI OG NM LLC
THRU LINE OG NM LLC
201 Main Street, Ste.2700
Fort Worth, TX 76102

Operators
4 XTO PERMIAN OPERATING, LLC
6401 Holiday Hill Rd., Bldg.5
Midland, TX 79707
Certified: 7018 2290 0001 2038 6087

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

BLM Lease NMLC-0069514A, 0069514B, (T.5 and T.6 on map – cont.)
Operators
EOG RESOURCES, INC.
Attn: Chuck Moran
5509 Champions Drive
Midland, TX 79706

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

REGULATORY

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

NEW MEXICO OIL CONSERVATION DIVISION
811 South First St.
Artesia, NM 88210
(FedEx'ed copy)

June 17, 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 SEC SE 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 5, Township 26 South, Range 31 East in Eddy County, New Mexico.

The published notice states that the interval will be from 16,500 feet to 18,300 feet into the Devonian and Silurian formations.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about June 18, 2019.

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 SEC SE Federal SWD Well No.5 will be located 1470' FSL and 150' FWL, Section 5, Township 26 South, Range 31 East, Eddy County, New Mexico; approximately 18.7 miles southeast of Malaga, NM.

Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a maximum interval depth of 16,500' to 18,300' at a maximum surface pressure of 3300 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 or the OCD receive date, whichever is later. 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-sefe7cfc65d34dd1a
(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 "**SEC SE Fed SWD #5 June 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.

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C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

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- Certified Mail Restricted Delivery $
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- Adult Signature Restricted Delivery $

Postage $ .55
Total Postage and Fees $ 6.85

Postmark Here
COMO TX 75431 JUN 17 2019

Sent To
Street and
City, State,
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

PS Form 3 ... tions

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Extra Services & Fees *(check box, add fee as appropriate)*
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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ .55
Total Postage and Fees $ 6.85

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COMO TX 75431 JUN 17 2019

Sent To
Street an
City, Stat
EOG RESOURCES, INC.
Attn: Chuck Moran
5509 Champions Drive
Midland, TX 79706

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Extra Services & Fees *(check box, add fee as appropriate)*
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $ 2.80
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ .55
Total Postage and Fees $ 6.85

Postmark Here
COMO TX 75431 JUN 17 2019

Sent T
Street
City, S
CONOCOPHILLIPS COMPANY
Attn: Hannah Wasserman
P.O. Box 2197
Houston, TX 77252-2197

PS Fo ... tructions

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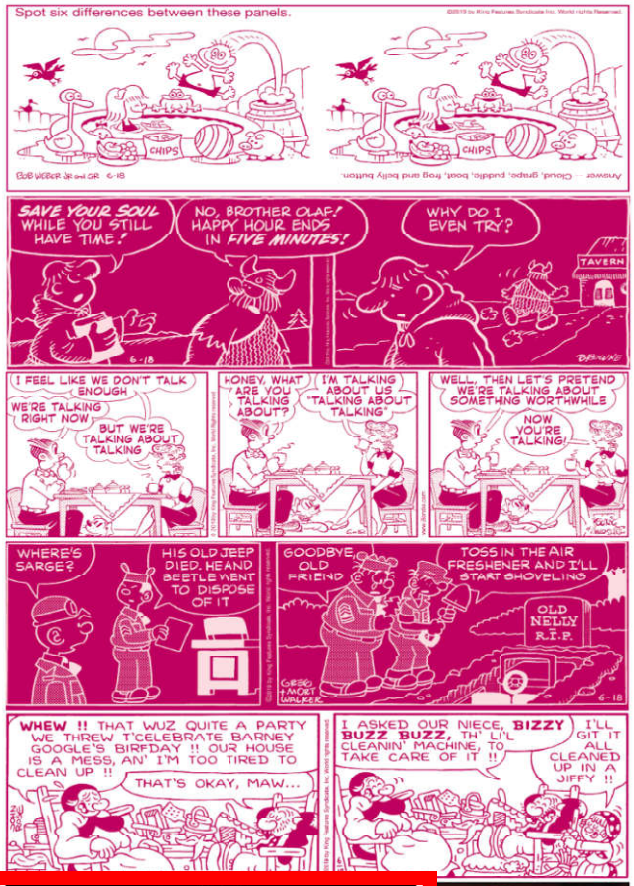

Summer Fruit Galettes

Ingredients

2 (9 inch) refrigerated pie crusts
3 fresh peaches - peeled, pitted, and sliced
1 pint fresh strawberries, sliced
1/2 pint fresh blueberries
4 tablespoons white sugar, divided
4 tablespoons all-purpose flour, divided
6 tablespoons turbinado sugar, divided

Directions

Preheat oven to 450 degrees F (230 degrees C).
Lay out one pie crust on a baking sheet lined with parchment or on a baking stone, leaving room for the second pie crust next to it.
Mix together the sliced peaches with half the blueberries, 2 tablespoons of the flour and 2 tablespoons of the sugar in a bowl. Pour over one pie crust leaving a 1-inch border. Fold up the uncovered border over the edge of the fruit and pinch into pleats. Sprinkle the crust and fruit filling with 3 tablespoons of turbinado (or raw) sugar.
Lay out the second pie crust on the baking sheet. Mix together the sliced strawberries, the rest of the blueberries, 2 tablespoons of flour and 2 tablespoons of sugar in the bowl. Pour over the second pie crust and form the galette the same as the first. Sprinkle with 3 tablespoons of turbinado sugar.
Bake in preheated oven until crust is lightly browned, 12 to 14 minutes. Sprinkle with more sugar if desired. Serve warm or at room temperature.

Legal Notice

NOTICE is hereby given that on April 18, 2019, Seven Rivers Farms, LLC; and Seven Rivers Fresh Water LLC, c/o Atkins Engineering Associates, Inc., 2904 West Second Street, Roswell, NM 88201, filed Application Number RA-1149 with the STATE ENGINEER, under OSE File RA-3200 et al, for a permit to permanently Change an Existing Water Right, seeking authorization to use an additional artesian Groundwater Point of Diversion. The requested existing well, RA-1149, located in a portion of the NW¼NE¼NE¼ of Section 27, Township 19 South, Range 26 East, N.M.P.M., would be used to supplement the diversion of up to 150.00 acre-feet per annum (consumptive use) of artesian groundwater for commercial purposes in all sections located within Township 17 South through Township 22 South, and Range 23 East through Range 28 East, N.M.P.M.

The subject well would supplement the following existing artesian points of diversion:

Wells	Subdivision	Section	Township	Range
RA-3200-S-4	NW¼NW¼NE¼	7	20 S.	26 E.
RA-3200-S-5	NE¼SW¼SE¼	28	19 S.	26 E.
RA-3200-S-6	NW¼NE¼SE¼	33	19 S.	26 E.
RA-3200-POD8	NE¼NW¼SE¼	6	20 S.	26 E.
RA-3200-POD9	NW¼SW¼SE¼	6	20 S.	26 E.
RA-3200-POD10	SW¼SW¼NE¼	6	20 S.	26 E.
RA-3200-S (replacement)	SE¼SE¼SW¼	6	20 S.	26 E.
RA-10917	NW¼SE¼SW¼	28	19 S.	26 E.
RA-10929	SW¼NW¼NE¼	7	20 S.	26 E.
RA-10949	SW¼NW¼NE¼	6	20 S.	26 E.
RA-10973	SE¼SW¼NW¼	33	19 S.	26 E.

Emergency authorization for the use of well RA-1149 under NMSA 72-12-24 has been requested. Partial approval of the request has been granted.

The proposed supplemental point of diversion is located approximately one-half mile northeast of Lakewood, and one-quarter mile east of Lake Road (CR-34), in Eddy County, New Mexico.

Any person, firm or corporation or other entity having standing to file objections or protests shall do so in writing (legible, signed, and include the writer's complete name and mailing address). The objection to the approval of the application: (1) if impairment, you must specifically identify your water rights; and/or (2) if public welfare or conservation of water within the State of New Mexico, you must show you will be substantially and specifically affected. The written protest must be filed, in triplicate, with the State Engineer, 1900 West Second Street, Roswell, New Mexico 88201, within 10 days after the date of the last publication of this Notice. Facsimile's (faxes) will be accepted as a valid protest as long as the triplicate hard copy is sent within 24 hours of the facsimile. Mailing postmark will be used to validate the 24-hour period. Protests can be faxed to 575-623-8559. If no valid protest or objection is filed, the State Engineer will evaluate the application in accordance with Sections 72-2-16, 72-5-6 and 72-12-3.

Published in the Artesia Daily Press, Artesia, N.M., June 18, 25, July 2, 2019 Legal No. 25169.

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Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a maximum interval depth of 16,500' to 18,300' at a maximum surface pressure of 3300 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 or the OCD receive date, whichever is later. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

Published in the Artesia Daily Press, Artesia, N.M., June 18, 2019 Legal No. 25170.

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Legal Notice

SOUTHEAST NM COMMUNITY ACTION CORPORATION
HEAD START PROGRAM
Request for Proposals

Southeast NM Community Action Corporation Head Start Program is soliciting Sealed Proposals to repair the floor in the multipurpose room at the Artesia Head Start center

located at 615 Kemp St Artesia New Mexico.

Sealed Proposals must be submitted to SNMCAC Head Start Program, PO Box 37, Artesia, NM or delivered to Artesia Head Start 504 Gage, Artesia, NM, Please mark on the outside of the envelope Attention: Mary Perry. Proposals must be received by June 25, 2019 by 1:00 MST. A site survey is required before submitting proposal. An appointment to view site may be scheduled by contacting Buddy Simmons 575-703-0782 or Mary Perry 575-748-1141.

Proposals must include wage rate requirements as stipulated in the New Mexico Procurement Code and by the Davis-Bacon wage determination, if applicable in responding to this request. Total price must include installation, materials, labor, and New Mexico Gross Receipt Taxes.

Product and Labor Warranty must be included in proposals.

The SNMCAC Head Start Program reserves the right to reject any or all quotes or to waive any technicality.

Mary A. Perry, Head Start Director
Southeast NM Community Action Corporation
Head Start Program
P.O. Box 37
504 W. Gage
Artesia, NM 88211-0037
(575) 748-1141

Published in the Artesia Daily Press, Artesia, N.M., June 18, 19, 2019 Legal No. 25171.

Tuesday Prime Time — June 18, 2019

		7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM
BROADCAST STATIONS										
KLUZ	2	Copa Oro 2019		CONCACAF Copa Oro 2019 Jornada 1 del Grupo D de la Copa Oro 2019. Desde el estadio Allianz Field. (N)				Noticiero Uni	Vecinos	Vecinos
KENW	3	Secrets of the Dead "Cleopatra's Lost Tomb" Search for Cleopatra's lost tomb.		The Lavender Scare (2017, Documentary) Narrated by Glenn Close. Premiere.		You Should Know	Creative Living With Sheryl Borden	Frontline Terrorist objectives of neo-Nazi group.	Jimmy Kimmel Live	Amanpour and Company (N)
KOAT	7	The Conners David surprises Darlene.	American Housewife	Modern Family "I Love a Parade"	The Goldbergs "8-Bit Goldbergs"	Modern Family "Kiss and Tell"	black-ish "Purple Rain"	Action 7 News Live at 10 (N)	Joel McHale: Betty Gilpin; Santana. (N)	
KOB	8	America's Got Talent "Auditions 4" Variety acts continue to audition. (N)				Songland "Jonas Brothers" Songwriters pitch to the Jonas Brothers. (N)		Eyewitness News 4 at 10 (N)	The Tonight Show Starring Jimmy Fallon	Willie Nelson performs; Adam DeVine. (N)
KASA	9	CONMEBOL Copa América 2019 Brasil, el anfitrión, va por su decimo quinto triunfo en la Copa América cuando enfrente a Venezuela.			Hoy en la Copa América Brasil 2019		Gran Cerrado "Vientre prostituto, Mala suerte"	Al rojo vivo - Edición nocturna	Titulares y más	
KBIM	10	NCIS "Bears and Cubs" Jimmy is asked to tamper with evidence.		FBI "Doomsday" A safety inspector dies.		Blood & Treasure A search for a lost train car. (N)		KRQE News 13 at 10 (N)	The Late Show With Stephen Colbert	Chris Matthews; Jessie Buckley performs. (N)
KWBQ	11	The Flash "Gone Rogue" Cisco makes a bold decision.		The 100 "Nevermind" Clarke's past catches up to her. (N)		Mom "Martinis and a Sponge Bath"	Mom Dinner with Violet's future in-law.	Two and a Half Men	Two and a Half Men	Seinfeld "The Pen"
GLC	12	Light of the Southwest		Light of the Southwest		Creation Magazine	Mission 81:25	Being Your Best	Way of the Master	On the Walls of
KASY	15	Chicago P.D. "Emotional Proximity"		Chicago P.D. "Remember the Devil"		News 13 KASY	News 13 on KASY	Funny You Ask	News 13 on KASY	Pawn Stars
KOAT-DT2	17	100 Latinos Dijeron		Loquito por ti		Tengo talento, mucho talento		Noches con Platanito		Alarma TV
KCHF	18	Day of Discovery	Percepts for Life	God Answers Prayer		Born to Be Free	James Robison	CBN Newswatch	Issues & Answers	Wretched/Todd Friel
KTEL	22	Andy Griffith Show	Andy Griffith Show	Gomer Pyle	Green Acres	Hogan's Heroes	Hogan's Heroes	Carol Burnett Show	Perry Mason	
CABLE STATIONS										
QVC	6	Shawn's Beauty Secrets (N) (Live)						The Sandal Shop (N) (Live)		Westmore Beauty
EWTN	13	EWTN News Nightly	The Holy Rosary	Scripture and Traditior		Carpenter's Shop	Women of Grace	Daily Mass - Olam Daily Mass		Mother Angelica
GALAP	14	La taxista		Nosotros los guapos	Nosotros los guapos	Nosotros los guapos	Nosotros los guapos	Nosotros los guapos	Nosotros los guapos	Maria de Todos
HSN	19	Diane Gilman Fashion Clearance (N)		Fashion & Accessories Clearance (N)		Fashion & Accessories Clearance (N)		Home Solutions (N)		Proform Fitness (N)
C-SPAN	20	Politics and Public Policy Today						Politics and Public Policy Today		
WGN-A	21	Cops	Cops	Pure Anna receives an offer of marriage.		Married ... With	Married ... With	Married ... With	Married ... With	Married ... With
WEA	23	Strangest Weather on Earth "Ice Tsunami"		Strangest Weather on Earth		SOS: How to Survive "Buried in the Snow"		SOS: How to Survive		SOS: How to Survive
NBCSN	25	American Ninja Warrior (Part 1 of 2)		American Ninja Warrior (Part 2 of 2)		American Ninja Warrior "Dallas Finals"		American Ninja Warrior "Dallas Finals"		Ninja Warrior
UKIDS	26	Puss in Boots	Dragons: Riders	Home: Adv.	Gd Out of My Room	Top Chef Junior		All Hail King	Inspector Gadget	Mr. Peabody
MTV	27	Ridiculousness	Ridiculousness	Ridiculousness	Ridiculousness	Ridiculousness	Ridiculousness	Ridiculousness	Ridiculousness	2019 MTV Awards
FNC	28	Hannity (N)		The Ingraham Angle (N)		Fox News at Night With Shannon Bream		Tucker Carlson Tonight		Hannity
FXX	29	Family Guy	Family Guy	Family Guy	Family Guy	Archer	Archer	Archer	Archer	It's Always Sunny
TOON	30	Bob's Burgers	Bob's Burgers	Family Guy	Family Guy	Rick and Morty	Robot Chicken	Tigtone	Awesome Show	American Dad
CNN	31	Cuomo Prime Time (N)		CNN Tonight With Don Lemon (N)		CNN Tonight With Don Lemon (N)		Anderson Cooper 360		Cuomo Prime Time
DISN	32	Coop & Cami	Sydney to the Max	Amphibia	Big City Greens	Sydney to the Max	Andi Mack	Bunk'd	Bunk'd	Jessie
CNBC	33	Shark Tank An elegant lighting solution.		The Profit "Pacific Hospitality"		The Profit "Handi Products"		The Profit "Rayjus"		The Profit "Queork"
ESPN	34	2019 College World Series		SportsCenter (N) (Live)		SportsCenter (N) (Live)		SportsCenter With Scott Van Pelt (N) (Live)		SportsCenter (N)
ESPN2	35	Good Game	Good Game	Good Game	Good Game	UFC Fight Flashback	UFC Fight Flashback	Ariel Helwani's MMA Show (N)		Mock Draft
ESPNCL	36	College Basketball From Feb. 6, 2018.			Cdlege Basketball	From Feb. 10, 2018.		College Basketball From Dec. 5, 2017.		
E!	37	Chrisley Knows Best	Chrisley Knows Best	E! News Kelly Ripa and Mark Consuelos.		★★½ Legally Blonde (2001, Comedy) Reese Witherspoon, Luke Wilson.				Legally Blonde 2
APL	38	Lone Star Law: Bigger and Better (N)		Lone Star Law "Back Road Bail"		Lone Star Law "Fawn Stare"		Lone Star Law: Bigger and Better		Lone Star Law
HLN	39	Lies, Crimes & Video		Forensic Files	Forensic Files	Forensic Files	Forensic Files	Death Row Stories "A Prison of His Own"		Forensic Files
FX	40	★★ The Purge (2013) Ethan Hawke, Lena		★★½ Get Out (2017)		Daniel Kaluuya. A man uncovers a dark secret about his girlfriend's parents.				Pose "Worth It" (N)
TNT	41	Animal Kingdom "Tank" (N) (DVS)		Animal Kingdom "Tank" (DVS)		★★ Four Brothers (2005, Crime Drama) Mark Wahlberg, Tyrese Gibson. (DVS)				NCIS: New Orleans
LIFE	42	Dance Moms "Choose Wisely" (N)		Cheerleader Generation (N)		Dance Moms (N)	Dance Moms	Dance Moms		Dance Moms
FREE	43	★★★ Pitch Perfect (2012, Musical Comedy)		Anna Kendrick, Skylar Astin.		Good Trouble Callie's big case is decided.		★★½ Hotel Transylvania (2012) (SAP) Voices of Adam Sandler.		
AETV	44	The First 48: Teens on the Edge (N)		Kids Behind Bars: Life or Parole "Otis" (N)		The First 48 A father of three is executed.		The First 48: Teens on the Edge		The First 48: Teens
TBS	45	Big Bang Theory	Big Bang Theory	Big Bang Theory	The Detour (N)	Conan "Sean Penn"	The Detour	Seinfeld	Conan "Sean Penn"	New Girl "Bully"
COMEDY	46	The Office Jan sues Dunder Mifflin.		The Office	The Office	The Office	The Office	Drunk History	Drunk History	Drunk History (N)
NATGEO	48	Hard Time: Locked Up "Rule Breakers"		Hard Time: Locked Up		Hard Time: Locked Up		Hard Time: Locked Up "Rule Breakers"		Monster Fish
VH1	49	Black Ink Crew: Chicago		Black Ink Crew: Chicago "Ryantology"		Black Ink Crew: Chicago "Team Bonding"		Black Ink Crew: Chicago "Team Bonding"		Love, Hip Hop
CMTV	50	Last Man Standing	Roseanne	Roseanne	Roseanne	Married ... With	Married ... With	Married ... With	Married ... With	Married ... With
HGTV	51	Andy Griffith Show	Andy Griffith Show	Andy Griffith Show	Andy Griffith Show	Everybody Raymond	Everybody Raymond	Everybody Loves Raymond "Crazy Girl"		Two and a Half Men
TRAV	52	Expedition Unknown (N)		America Unearthed (N)		America Unearthed		America Unearthed		Expedition Unknown
TLC	53	Say Yes, Dress	Say Yes, Dress	Sweet Home Sextuplets		Outdaughtered (N)		Outdaughtered "Our Home Is Sick" (N)		Sextuplets
PARMT	54	★★★ John Wick (2014) Keanu Reeves.		Ink Master "A Storm Is Brewin" (N)		★★★ John Wick: Chapter 2 (2017, Action)		Keanu Reeves, Common, Laurence Fishburne.		
SC	55	Deadliest Catch "Hell Hath No Fury" (N)		Guardians of the Glades (N)		Deadliest Catch "Legend of the Wizard"		Deadliest Catch "Hell Hath No Fury"		Guardians-Glades
NIKP	56	The Loud House	The Loud House	Smarter Than	★★★ Madagascar: Escape 2 Africa (2008) Voices of Ben Stiller, Chris Rock.				SpongeBob	Friends
AMC	57	★★★ Taken (2008) Liam Neeson. Slavers kidnap the daughter of a former spy.		★★ U.S. Marshals (1998, Action) Tommy Lee Jones, Wesley Snipes, Robert Downey Jr.. Sam Gerard gets caught up in another fugitive case.						Lodge 49 Liz spends her day off at work.
USA	58	WWE SmackDown! (N) (Live)		Chrisley Knows Best	The Radkes (N)	Modern Family	Modern Family	Modern Family	Modern Family	Chrisley Knows Best
truTV	59	Impractical Jokers "The Walking Dread"		Paid-Torpey	Imoractical Jokers	Impractical Jokers	Impractical Jokers	Impractical Jokers	Impractical Jokers	Impractical Jokers
NFLNET	60	Top 10		Top 10		NFL Total Access		Top 10		Top 10
TCM	61	★★½ Model Shop (1969, Drama) Anouk Aimée, Gary Lockwood, Alexandra Hay.		★★★ Bob & Carol & Ted & Alice (1969, Comedy) Natalie Wood, Robert Culp, Elliott Gould. Two couples take a cue from the sexual revolution.				★★½ Staircase (1969, Drama) Richard Burton, Rex Harrison. Two elderly homosexuals share a thriving barber business.		
SYFY	62	★★★ Harry Potter and the Order of the Phoenix (2007) Daniel Radcliffe. (DVS)				Futurama	Futurama	Futurama	Futurama	Futurama
LIFEMOV	63	★★★ The Gift (2015, Suspense) Jason Bateman, Rebecca Hall. An old acquaintance causes trouble for a man and his wife.		Double Mommy (2016, Suspense) Morgan Obenreder. A young mother and her boyfriend have to protect her from a man.		★★★ The Gift (2015, Suspense) Jason Bateman, Rebecca Hall. An old acquaintance causes trouble for a man and his wife.				
FOOD	64	Chopped "Holy Bologna!" (N)		Chopped "Bowled Over"		Chopped Four female butchers battle it out.		Chopped "Holy Bologna!"		Chopped
RFDTV	65	Cattle-Cattle	JAGER PRO (N)	Cox Horsemanship	Km McNabb	America Horseback	Rural Evening News	Ag PhD	Cattlemen to Cattlemen	
BOOM	66	Tom and Jerry	Tom and Jerry	Care Bears: Unlock	New Looney Tunes	Looney Tunes "Soup or sonic"				Tom & Jerry
HALL	67	Love, Take Two (2019, Romance) Heather Hemmens, Cornelius Smith Jr..		The Golden Girls "Love Me Tender"	The Golden Girls "Valentine's Day"	The Golden Girls	The Golden Girls	The Golden Girls	The Golden Girls	Frasier "Mother Load" (Part 1 of 2)
MSNBC	68	The Rachel Maddow Show (N)		The Last Word With Lawrence O'Donnell		The 11th Hour With Brian Williams (N)		The Rachel Maddow Show		The Last Word
MPLEXP	109	★★ Black Dog (1998) Patrick Swayze.	★½ Texas Rangers (2001, Western) James Van Der Beek. Rookie rangers ride out in pursuit of a ruthless bandit.			★★ Life Stinks (1991) Mel Brooks, Lesley Ann Warren. A rich man spends a month in an impoverished neighborhood.		★★½ Continental Divide (1981) John Belushi, Blair Brown, Allen Goorwitz.		

Affidavit of Publication

No. 25170

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 the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same day as follows:

First Publication June 18, 2019

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

18th day of June 2019

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2023

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

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