DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
8/09/2017		PRG	8/09/2017	SWD	pMAM1722133174

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- 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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

-SWD -1691
- Trove Energy, LLC
~~326995~~
326495

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

RECEIVED OCD
2017 AUG -9 A 9:03

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

well
- Trove Energy, SWD #1
30-015- Pending
Pool

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

SWD; Devonian - Silurian

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

97869

[4] **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		Agent for Trove Energy, LLC	8/07/17
Print or Type Name	Signature	Title	Date

ben@sosconsulting.us
e-mail Address

August 7, 2017

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

Attn: Mr. David Catanach, Director

Re: Application of Trove Energy, LLC to permit for salt water disposal in the proposed Trove Energy SWD Well No.1, to be located in Section 13, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, the Trove Energy SWD No.1.

Trove Energy seeks to optimize efficiency, both economically and operationally, of its operations and to offer additional disposal options for operators in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran on or about August 3, 2017 in the edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit will be forwarded when received. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on private land and minerals. As an offset minerals owner, a copy of this application has been submitted to the Bureau of Land Management, Carlsbad Field Office, Oil and Gas Division.

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, 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, LLC (Ogrid 326495)***
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-half 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 12 domestic water wells within one mile of the proposed salt water disposal well. 2 have been sampled and analyses will be forwarded upon receipt.***

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 4 offset lessees and/or operators within ½ mile and BLM minerals - all have been noticed. Well location is Private.***

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, LLC***

SIGNATURE: _____ DATE: ***8/07/2017***

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: ***Affidavit will be FORWARDED upon receipt.***

(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.

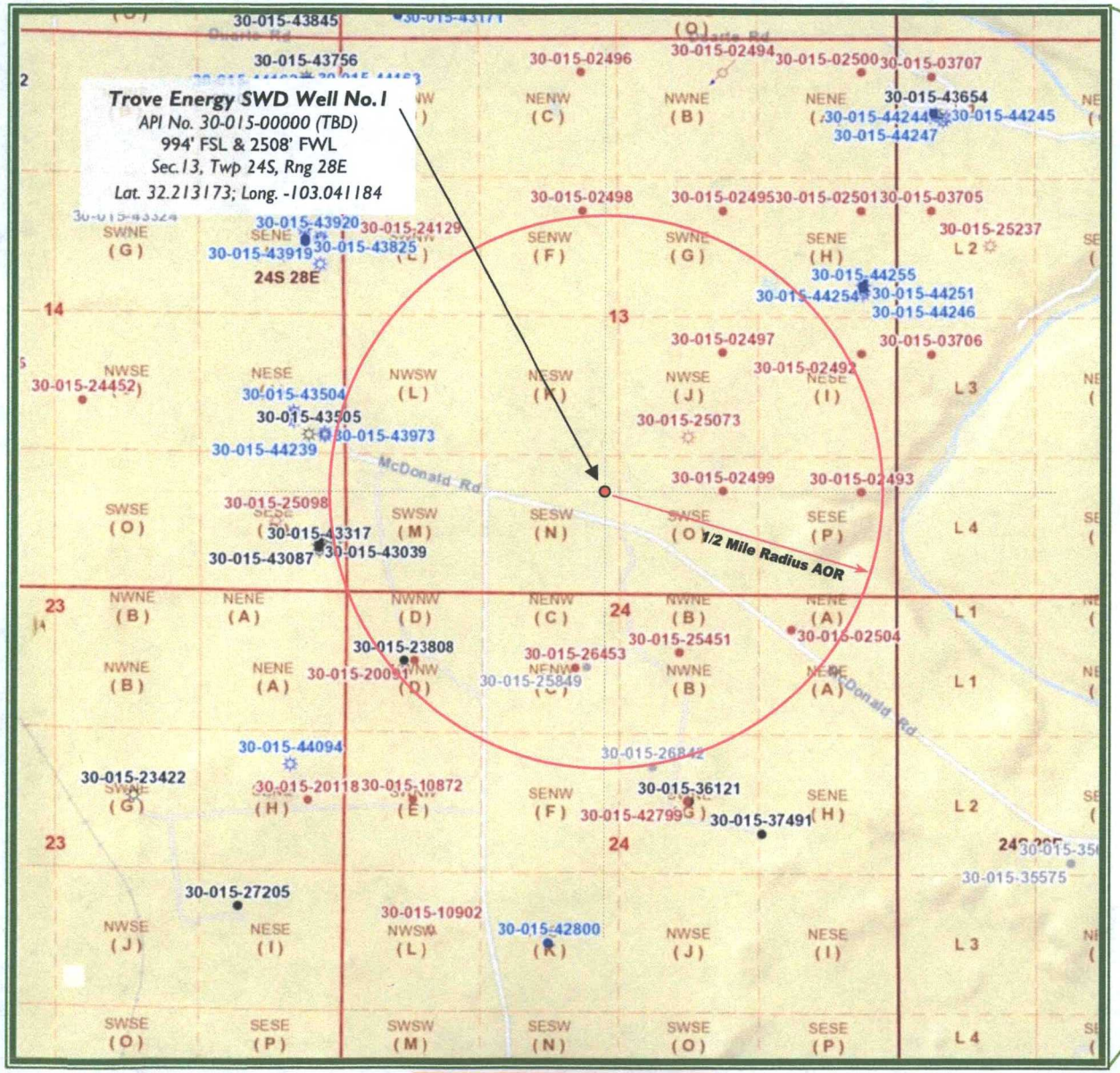
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Trove Energy SWD No.1 - Area of Review / 2 Miles

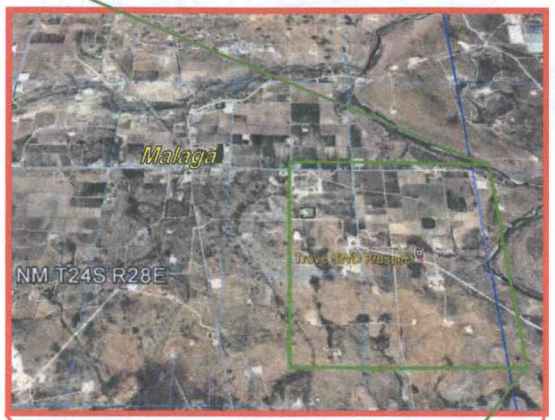
(Attachment to NMOCD Form C-108 - Item V)

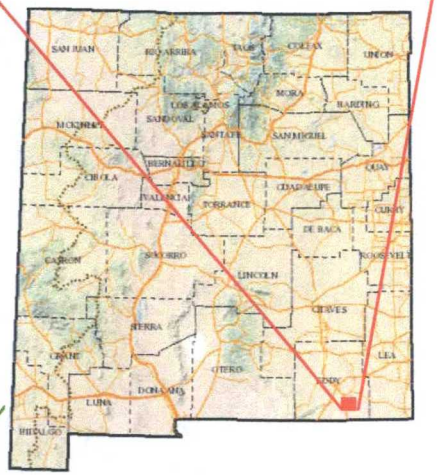
Trove Energy SWD Well No.1 - Area of Review / Overview Map

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



2.0 miles SE of Malaga, NM





Eddy County, New Mexico

TroveEnergy LLC

SOS Consulting, LLC

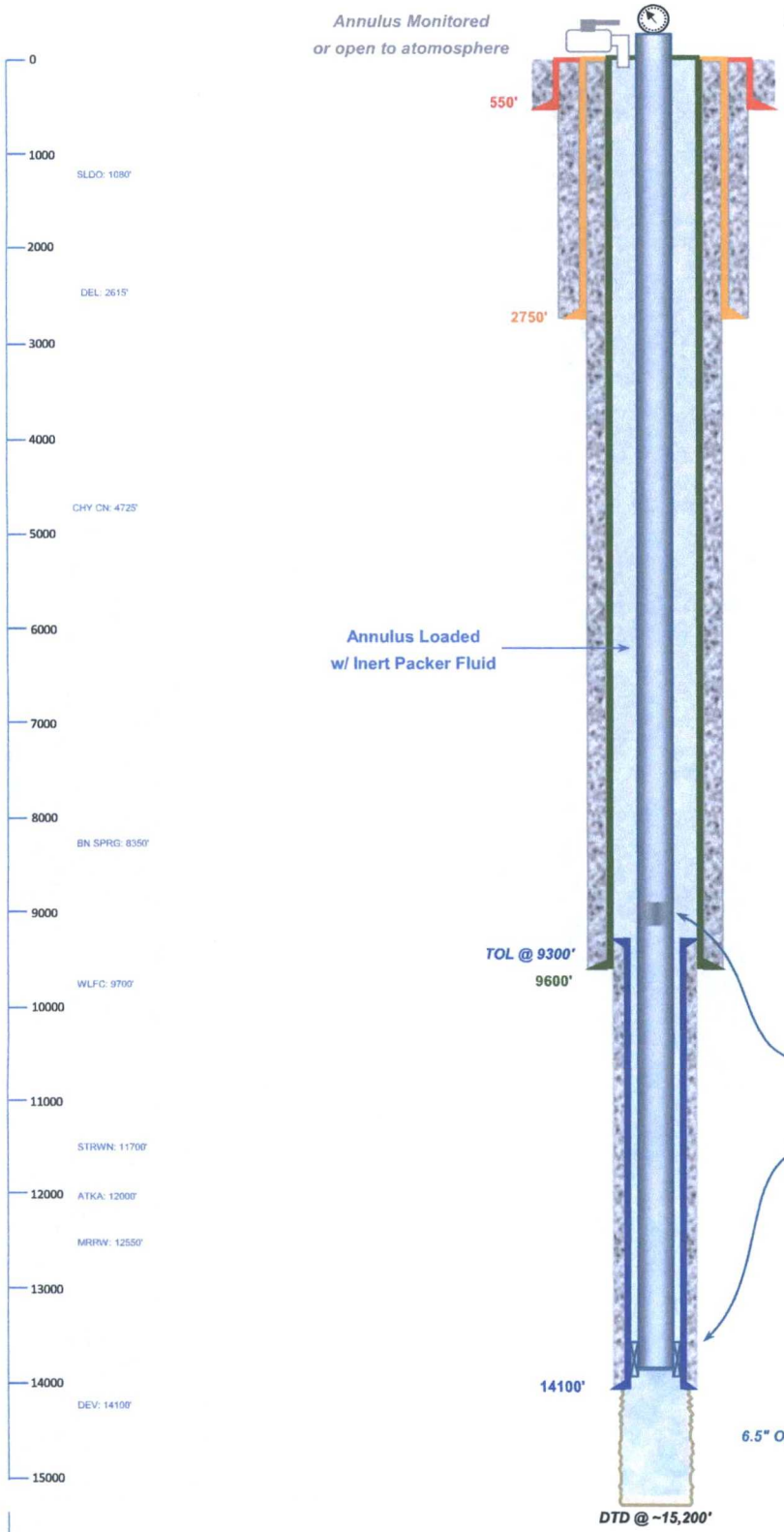
WELL SCHEMATIC - PROPOSED
Trove Energy SWD Well No.1

API 30-015-xxxxx
994' FSL & 2508' FWL, SEC. 13-T24S-R28E
EDDY COUNTY, NEW MEXICO

SWD; Devonian (96101)
Spud Date: 10/01/2017
SWD Config Dt: 10/25/2017

Annulus Monitored or open to atomosphere

Injection Pressure Regulated and Volumes Reported
2820 psi Max. Surface (0.2 psi per foot)



Surface Casing
20.0", 94.0# J-55 Csg. (26.0" Hole) @ 550'
1600 sx - Circulated to Surface

Intermediate Casing
13.375", 68.0# Csg. (17.5" Hole) @ 2750'
1525 sx - Circulated to Surface

Trove Energy, LLC

Drill and set casing as designed w/ all strings cemented to surface. Install 7.625" liner @ ~14,100 w/ 400 sx to TOL. Drill 6.5" openhole to approx. 15,200' TD w/ mudlog for interval/ formation verification. Acidize formation; run 5.5" (5.0" FJ inside liner) injection TBG on PKR set at 14,000'.+ Conduct OCD witnessed MIT. Well ready for injection upon completion of surface facilities.

Production Casing
9.625", 53.5# P-110 Csg. (12.25" Hole) @ 9600'
1800 sx - Staged; Circulate to Surface
(DV @ 4400')

Split String Tubing Transition ~9240'

5.5" to liner w/ 5.0" Flush Joint inside liner
IPC Tubing set in PKR ~14,000'
(Within 100' of Uppermost Disposal Interval)

Liner Casing
7.625", 39.0# P-110 Csg (8.5" Hole) 9300' to 14,100'
400 sx Cls H - TOC @ Top of LNR

6.5" Openhole Interval: 14,100' to 15,200' (Maximum)

SOS Consulting, LLC
Drawn by: Ben Stone, Rvsd 8/01/2017

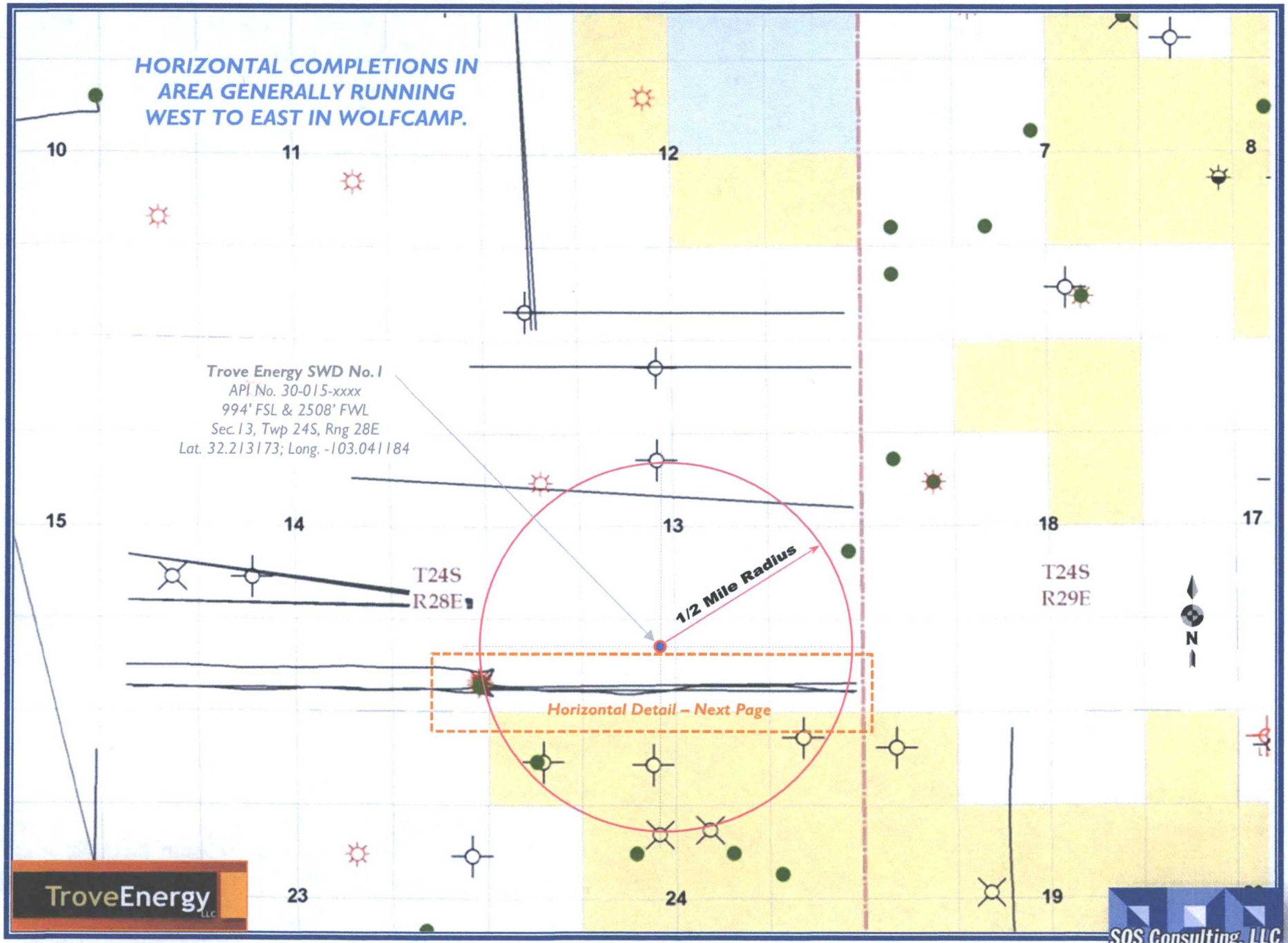
C-108 - Item VI

Area of Review Well Data

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

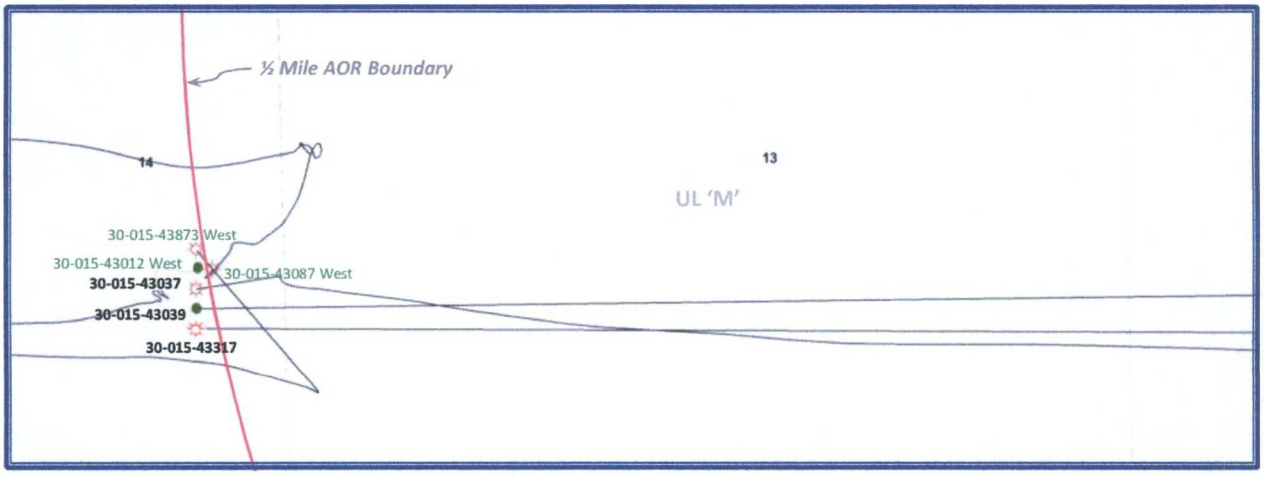
Trove Energy SWD No.1 – AOR / Horizontal Completion Transverse Areas

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



Trove Energy SWD No.1 – AOR / Horizontal Completions

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



~ Please refer to other AOR Map views ~

Matador Production Company

30-015-43037 – Janie Conner 13 24S 28E RB No.224H
Horizontal Completion: Wolfcamp @ 10,589' +/-
Nominal distance to proposed vertical SWD: 656 feet

30-015-43039 – Janie Conner 13 24S 28E RB No.124H
Horizontal Completion: Bone Spring @ 8449' +/-
Nominal distance to proposed vertical SWD: 558 feet

30-015-43317 - Janie Conner 13 24S 28E RB No.204H
Horizontal Completion: Wolfcamp @ 9770' +/-
Nominal distance to proposed vertical SWD: 616 feet

SOS Consulting, LLC

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 Energy SWD No.1

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 and BLM 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.

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 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 25,000 bpd and an average of 15,000 bpd at a maximum surface injection pressure of 2820 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
Morrow

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 SWD Well No.1

SOURCE ZONE

DELAWARE

Lab ID

Sample ID 4347

API No 3002508367

Well Name BELL LAKE UNIT 007

Sample No

Location ULSTR 01 24 S 33 E **Lat / Long** 32.25143 -103.51924

660 N 660 E **County** Lea

Operator (when sampled)

Field SWD Unit 1

Sample Date Analysis Date

Sample Sourc UNKNOWN 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	87686	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	53920	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	391
iron_mgL		sulfate_mgL	749
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 SWD Well No.1

SOURCE ZONE

BONE SPRING

Lab ID

Sample ID 4916

API No 3002502429

Well Name LEA UNIT 005 Sample No

Location ULSTR 12 20 S 34 E **Lat / Long** 32.58504 -103.51106

1980 S 1980 E **County** Lea

Operator (when sampled)

Field LEA Unit J

Sample Date Analysis Date

Sample Sourc 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	202606	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	118100	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	5196
iron_mgL		sulfate_mgL	992
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 SWD Well No.1

SOURCE ZONE

WOLFCAMP

Lab ID

Sample ID 5688

API No 3001520138

Sample No

Well Name MAHUN STATE 001

Location ULSTR 16 22 S 22 E **Lat / Long** 32.39340 -104.70979

1800 N 1980 W **County** Eddy

Operator (when sampled)

Field ROCKY ARROYO Unit F

Sample Date 5/17/1968 Analysis Date

Sample Sourc DST Depth (if known)

Water Typ

ph	8.6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	35495	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	19000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	830
iron_mgL		sulfate_mgL	2500
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 SWD Well No.1

SOURCE ZONE

MORROW

Lab ID

Sample ID 2434

Sample No

API No 3002520756

Well Name CUSTER MOUNTAIN UNIT 001

Location ULSTR 09 24 S 35 E **Lat / Long** 32.22999 -103.37431

1980 S 1980 W **County** Lea

Operator (when sampled)

Field CINTA ROJA Unit K

Sample Date Analysis Date

Sample Sourc 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	282741	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	176800	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	161
iron_mgL		sulfate_mgL	650
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 SWD Well No.1

DISPOSAL ZONE

DEVONIAN

Lab ID

Sample ID 5733

Sample No

API No. 3002508483

Well Name BELL LAKE UNIT 006

Location ULSTR 06 23 S 34 E **Lat / Long** 32.32821 -103.50663

660 S 1980 E **County** Lea

Operator (when sampled)

Field BELL LAKE NORTH Unit O

Sample Date Analysis Date

Sample Source HEATER/TREATER Depth (if known)

Water Type

ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	71078	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	42200	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	500
iron_mgL		sulfate_mgL	1000
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 SWD Well No.1

DISPOSAL ZONE

DEVONIAN

Lab ID

Sample ID 5720

API No. 3002521082

Sample No

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 Type

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 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 15,300' BGL (Below Ground Level) the well will TD approximately 1,200' 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 14,100' 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 and BLM.

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 valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in the area with a depth to groundwater of 12 to 60 feet with an average depth to groundwater of 35 feet.

There are 12 water wells located within one mile of the proposed SWD; 2 have been sampled and analyses will be forwarded upon receipt.

C-108 ITEM XI – WATER WELLS IN AOR

Red strikeout – not within one mile...

New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

(acre ft per annum) | (R=POD has been replaced and no longer serves this file, C=the file is closed) | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q 64 16 4	Sec	Twn	Rng	X	Y
C 00329	C	DOM	3	DEKALB AGRI. ASSOC. INC.	ED	C 00329			Shallow	2 1 2	13	24S	28E	590682	3565677*
C 00353	C	CLS	0	DEKALB AGRICULTURAL ASSOC.	ED	C 00353	C			3 4	13	24S	28E	590603	3564367*
C 00354	C	CLS	0	DEKALB ALGRICULTURAL ASSN. INC	ED	C 00354	C			4 4	13	24S	28E	591005	3564367*
C 00464		IRR	314.245	JACKIE DALE MCDONALD	ED	C 00464			Shallow	2 2 1	13	24S	28E	590277	3565674*
C 00464 ENL		IRR	0	PREWITT MRS J A	ED	C 00464			Shallow	2 2 1	13	24S	28E	590277	3565674*
C 00513	C	IRR	1422	PARDUE LIMITED COMPANY	ED	C 00513 S			Shallow	1 3 3	16	24S	28E	584802	3564432
C 00684		IRR	0	EASTLAND OIL CO.	ED	C 00684			Shallow	2 1 2	13	24S	28E	590682	3565677*
~~C 00708~~	~~C~~	~~DOL~~	~~3~~	~~G.P. PARDUE & SONS~~	~~ED~~	~~C 00708~~			~~Shallow~~	~~3 3 3~~	~~16~~	~~24S~~	~~28E~~	~~584902~~	~~3564233*~~
C 00738		IRR	343.5	W.J. BURKHAM	ED	C 00738			Shallow	3 1 1	13	24S	28E	589673	3565472*
C 00750		IRR	74.7	BETH ANN BOTROS	ED	C 00750			Shallow	1 2 4	13	24S	28E	590898	3564871*
C 00768	C	IRR	0	MARCELO P. NAVARRETTE	ED	C 00768				2 3	13	24S	28E	590194	3564770*
C 00903	C	DOL	3	HENRY MCDONALD	ED	C 00903			Shallow	2 1	13	24S	28E	590178	3565575*
C 01137		EXP	0	MORRIS R. ANTWEIL	LE	C 01137				4 1 4	13	24S	28E	590696	3564670*
C 01154	C	PRO	0	MORRIS R. ANTWEIL	ED	C 01154			Shallow	2 1 2	13	24S	28E	590682	3565677*
~~C 01260~~	~~C~~	~~IRR~~	~~0~~	~~HAROLD WALKER~~	~~ED~~	~~C 01260~~				~~4 2 16~~	~~24S~~	~~28E~~		~~588186~~	~~3565474*~~
C 02057	C	PRO	0	POGO PRODUCING CO.	ED	C 02057			Shallow	1 4 14	24S	28E		588956	3564774*
C 02256	C	DOM	3	ROBERT HIGGINS	ED	C 02256				3 2 3	13	24S	28E	590093	3564669*
~~C 02700~~	~~C~~	~~DOL~~	~~0~~	~~EFREN B COLLINS~~	~~ED~~	~~C 02700~~				~~2 2 2~~	~~16~~	~~24S~~	~~28E~~	~~586203~~	~~3565676*~~
~~C 02836~~	~~C~~	~~STK~~	~~3~~	~~ZULEMA COLLINS~~	~~ED~~	~~C 02836~~			~~Shallow~~	~~2 2 2~~	~~16~~	~~24S~~	~~28E~~	~~586203~~	~~3565676*~~
C 03665	C	PRO	0	LEGEND NATURAL GAS	ED	C 00513 S			Shallow	1 3 3	16	24S	28E	584802	3564432
~~C 03824~~	~~CUB~~	~~EXP~~	~~0~~	~~EFREN B COLLINS~~	~~ED~~	~~C 03824 POD1~~			~~Shallow~~	~~4 1 2~~	~~16~~	~~24S~~	~~28E~~	~~585770~~	~~3565578~~
~~C 03869~~	~~CUB~~	~~PRO~~	~~0~~	~~CONCHO OIL & GAS~~	~~ED~~	~~C 03824 POD1~~			~~Shallow~~	~~4 1 2~~	~~16~~	~~24S~~	~~28E~~	~~585770~~	~~3565578~~
~~C 03881~~	~~CUB~~	~~PRO~~	~~0~~	~~CONCHO OIL & GAS~~	~~ED~~	~~C 03824 POD1~~			~~Shallow~~	~~4 1 2~~	~~16~~	~~24S~~	~~28E~~	~~585770~~	~~3565578~~
~~C 03882~~	~~CUB~~	~~PRO~~	~~0~~	~~CONCHO OIL & GAS~~	~~ED~~	~~C 03824 POD1~~			~~Shallow~~	~~4 1 2~~	~~16~~	~~24S~~	~~28E~~	~~585770~~	~~3565578~~
~~C 03878~~	~~CUB~~	~~EXP~~	~~0~~	~~EFREN COLLINS~~	~~ED~~	~~C 03878 POD1~~		~~NON~~		~~3 1 2~~	~~16~~	~~24S~~	~~28E~~	~~585804~~	~~3565501~~

Record Count: 25

PLSS Search:

Section(s): 13, 14, 16, 19, 23, 24 **Township:** 24S **Range:** 28E

Sorted by: File Number

Note: 16 PODs identified above resulted in 11 well spots based on OSE coordinates in GIS mapping.

(See aerial map following this page.)

2 wells sampled – Analyses will be forwarded upon receipt.

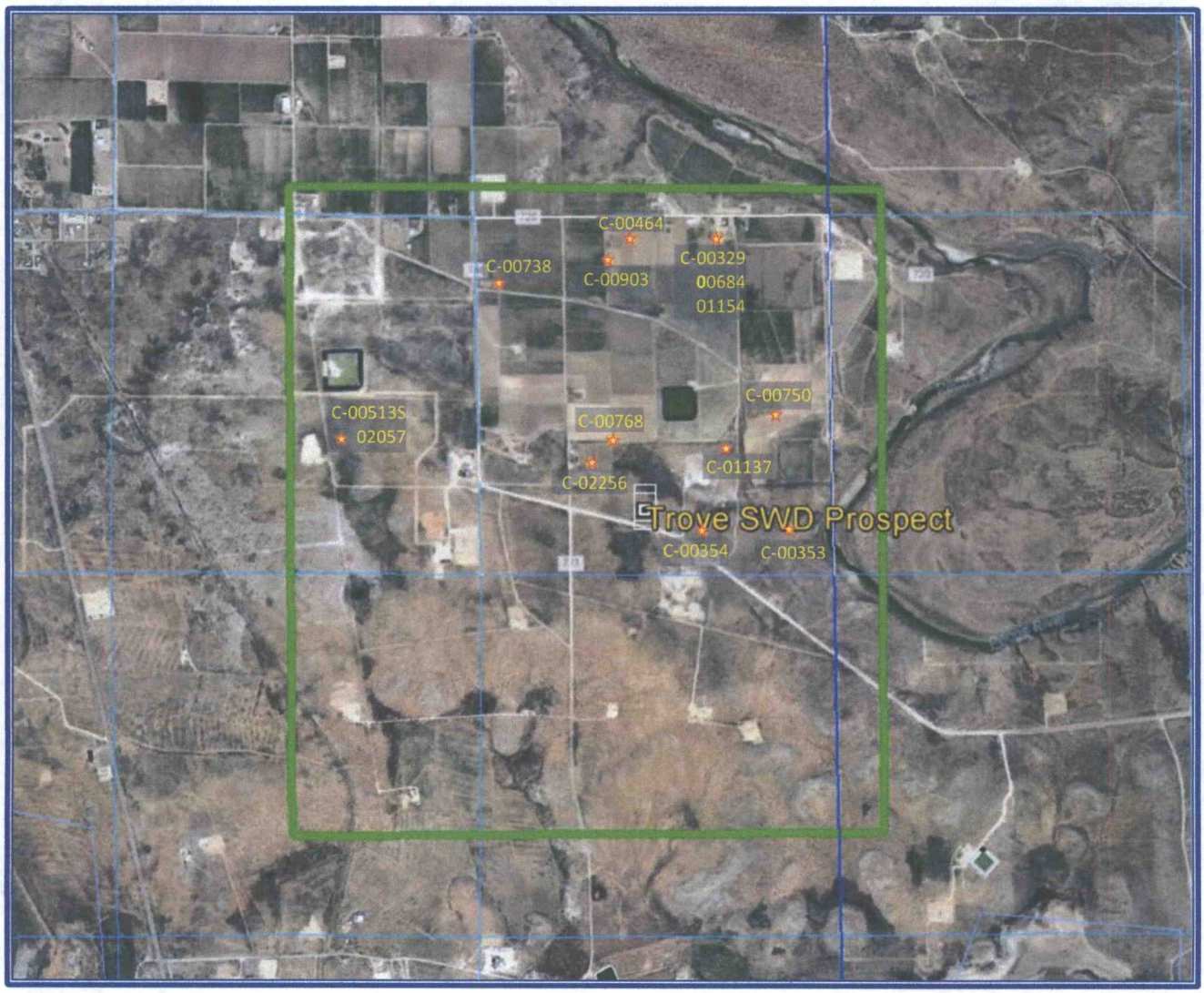
***UTM location was derived from PLSS - see Help**

C-108 Item XI

Water Wells Within One Mile

11 Water Wells are Shown to be Within One Mile of the Proposed SWD

(See 2-Mile AOR Map for Radius Presentation)



Samples were obtained on 2 wells. The analyses will be forwarded when received.

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00329		C	ED	2	1	2	13	24S	28E	590682	3565677*	95	30	65
C 00353	C	C	ED		3	4	13	24S	28E	590603	3564367*	2726		
C 00354	C	C	ED		4	4	13	24S	28E	591005	3564367*	2739		
C 00464			ED	2	2	1	13	24S	28E	590277	3565674*	111	28	83
C 00513 S		C	ED	1	3	3	16	24S	28E	584802	3564432	161	42	119
C 00684			ED	2	1	2	13	24S	28E	590682	3565677*	95	40	55
C 00709		C	ED	3	3	3	16	24S	28E	584802	3564232*			
C 00738			ED	3	1	1	13	24S	28E	589673	3565472*	125	12	113
C 00750			ED	1	2	4	13	24S	28E	590898	3564871*	110		
C 00903		C	ED		2	1	13	24S	28E	590178	3565575*	57	30	27
C 01154		C	ED	2	1	2	13	24S	28E	590682	3565677*	95	50	45
C 02057		C	ED		1	4	14	24S	28E	588956	3564774*	126	52	74
C 02836		C	ED	2	2	2	16	24S	28E	586203	3565676*		15	
C 03824 POD1		CUB	ED	4	1	2	16	24S	28E	585770	3565578	290	60	230

Average Depth to Water: **35 feet**

Minimum Depth: **12 feet**

Maximum Depth: **60 feet**

Record Count: 14

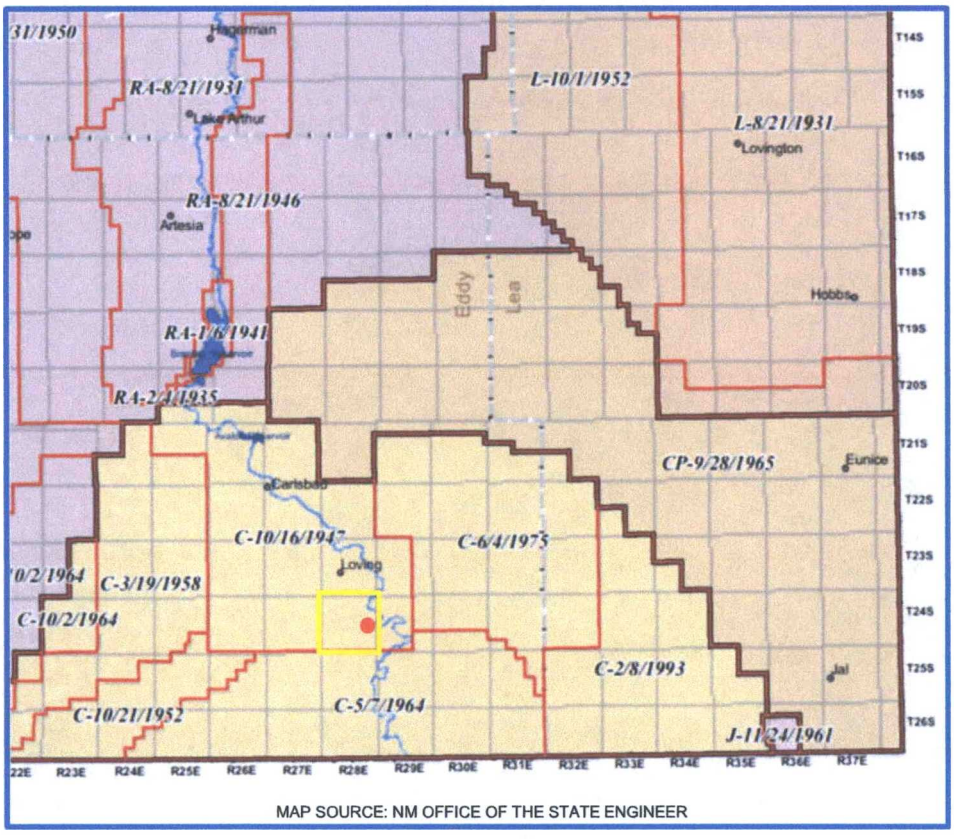
PLSS Search:

Section(s): 13, 14, 16, 19, 23, 24 **Township:** 24S **Range:** 28E

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

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.

Fresh water in the area is generally available from valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in the area with a depth to groundwater of 12 to 60 feet with an average depth to groundwater of 35 feet.

There are 12 water wells located within one mile of the proposed SWD; 2 have been sampled and analyses will be forwarded upon receipt.

SOS Consulting, LLC

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, LLC
Trove Energy SWD No.1
Reviewed 8/01/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

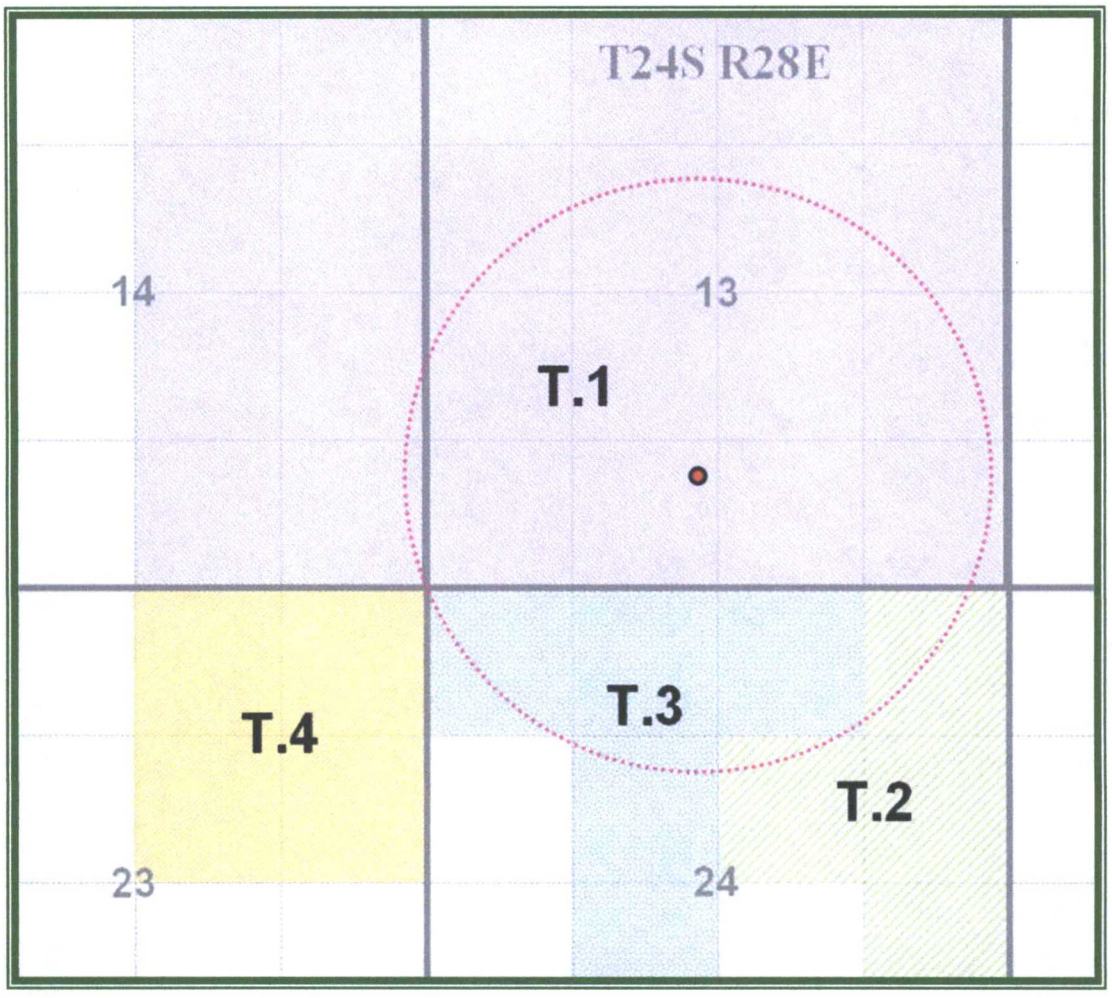
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Trove Energy SWD No.1 - Leasehold Plat

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



TroveEnergy LLC

LEGEND

T.1 – Matador Production Company

T.2 – BLM NMNM-110829; ConocoPhillips

T.3 – BLM NMNM-027919; ConocoPhillips

T.4 – Marathon Oil Company

Research performed by CG&L Records & Research

SOS Consulting, LLC

C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST

SURFACE OWNER

6 BARTON BROTHERS, ET AL (Notified via USPS Certified Mail)
1919 N. Turner St.
Hobbs, NM 88240
Certified: 7015 3010 0001 3789 9514

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

T.1 on Leasehold Plat
Lessee/Operator

1 MATADOR PRODUCTION COMPANY
One Lincoln Center
5400 LBJ Freeway, Ste. 1500
Dallas, TX 75240
Certified: 7015 3010 0001 3789 9507

T.2 & T.3 on Leasehold Plat – BLM Lease NMNM-110829 & NMNM-027919
Minerals

2 BUREAU OF LAND MANAGEMENT
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7015 3010 0001 3789 9477

Lessee

3 CONOCOPHILLIPS
P.O. Box 7500
Bartlesville, OK 77005-7500
Certified: 7015 3010 0001 3789 9491

Operators

4 DINERO OPERATING COMPANY
P.O. Box 10505
Midland, TX 79702
Certified: 7015 3010 0001 3789 9484

5 MARATHON OIL COMPANY
P.O. Box 22164
Tulsa, OK 74121-2164
Certified: 7015 3010 0001 3789 9521

T.4 on Leasehold Plat
Operator

MARATHON OIL COMPANY
P.O. Box 22164
Tulsa, OK 74121-2164

C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED 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 S. First St.
Artesia, NM 88210

August 4, 2017

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

To Whom It May Concern:

Trove Energy, LLC, Hobbs, New Mexico, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Trove Energy SWD Well No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 13, Township 24 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the interval will be from 14,100 feet to 15,200 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about August 3, 2017.

LEGAL NOTICE

Trove Energy, 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 Trove Energy SWD No.1, is located 994' FSL and 2508' FWL, Section 13, Township 24 South, Range 28 East, Eddy County, New Mexico; approximately 2.0 miles southeast of Malaga, NM.

Produced water from area production will be commercially disposed into the Devonian and Silurian formations at a maximum interval depth of 14,100' to 15,200' at a maximum surface pressure of 2820 psi and a rate limited only by such pressure.

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 on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

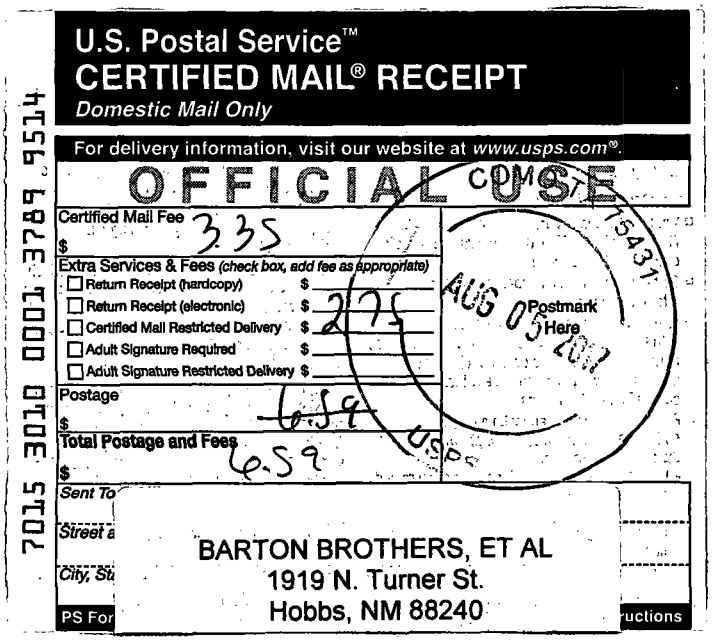
Best regards,

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

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)



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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $ 2.75
- Adult Signature Required $
- Adult Signature Restricted Delivery $

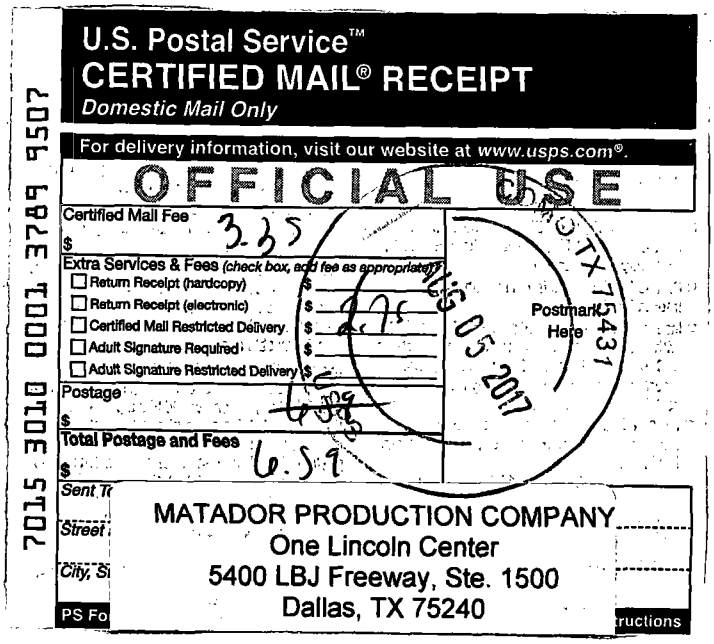
Postage $ 6.59
Total Postage and Fees $ 6.59

Postmark Here: AUG 05 2017 COMO TX 75431

7015 3010 0001 3789 9514

Sent To: BARTON BROTHERS, ET AL
Street a: 1919 N. Turner St.
City, St: Hobbs, NM 88240

PS For ... uctions



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- Adult Signature Required $
- Adult Signature Restricted Delivery $

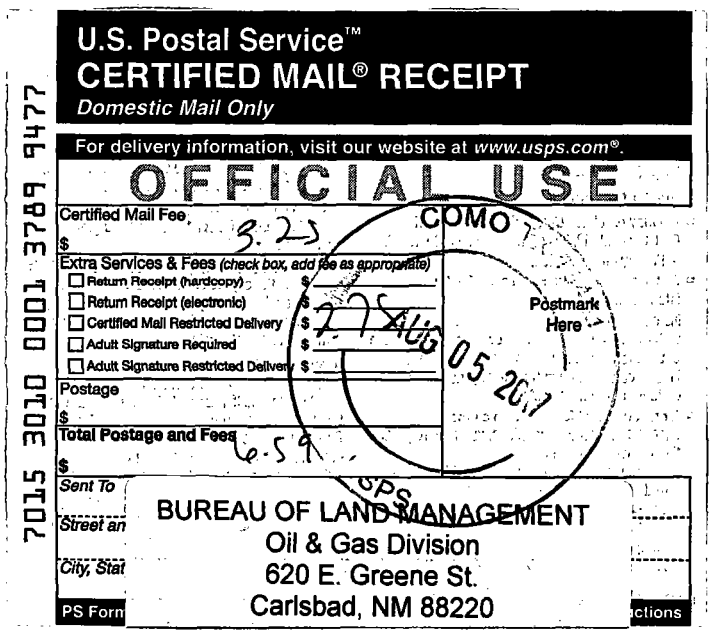
Postage $ 6.59
Total Postage and Fees $ 6.59

Postmark Here: AUG 05 2017 COMO TX 75431

7015 3010 0001 3789 9507

Sent To: MATADOR PRODUCTION COMPANY
Street: One Lincoln Center
City, St: 5400 LBJ Freeway, Ste. 1500
Dallas, TX 75240

PS Fo ... ructions



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- Adult Signature Restricted Delivery $

Postage $ 6.59
Total Postage and Fees $ 6.59

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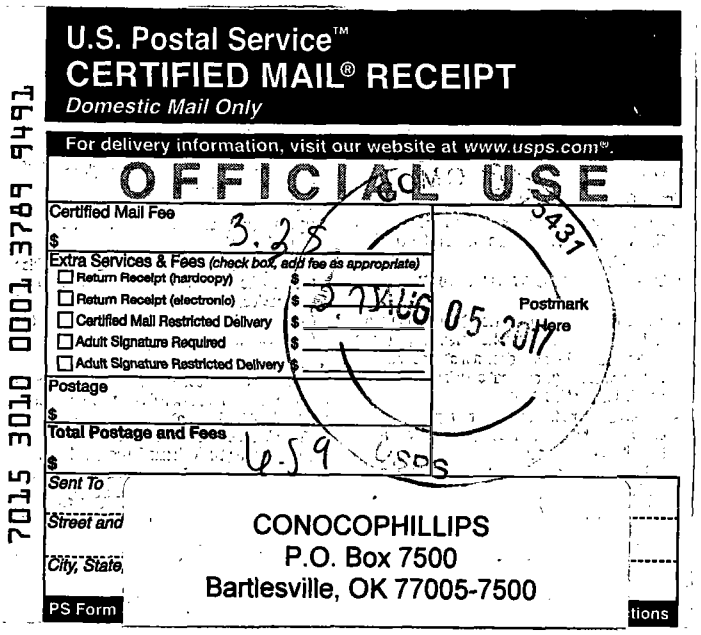
7015 3010 0001 3789 9477

Sent To: BUREAU OF LAND MANAGEMENT
Street an: Oil & Gas Division
City, Stat: 620 E. Greene St.
Carlsbad, NM 88220

PS Form ... ctions



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- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ 6.59
Total Postage and Fees $ 6.59

Postmark Here: AUG 05 2017 COMO TX 75431

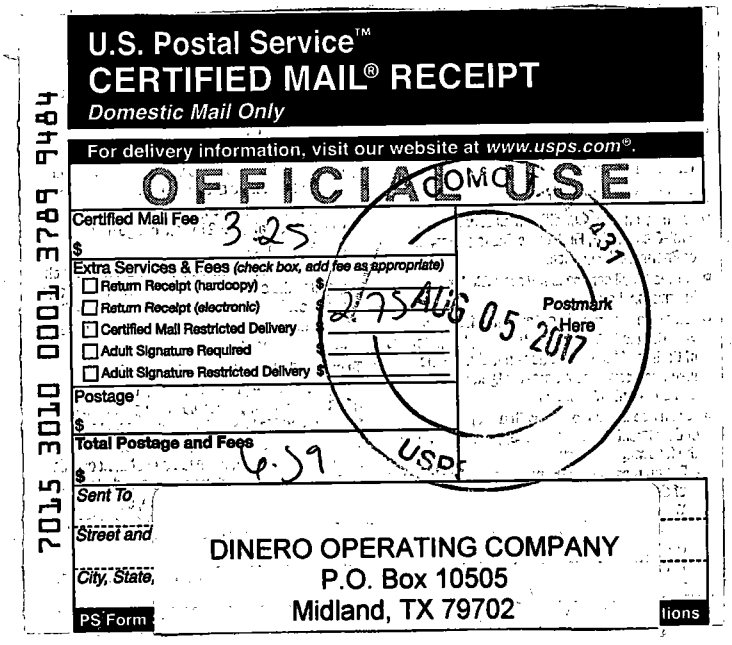
7015 3010 0001 3789 9491

Sent To: CONOCOPHILLIPS
Street and: P.O. Box 7500
City, State: Bartlesville, OK 77005-7500

PS Form ... tions

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)



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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $
Total Postage and Fees $ 6.59

Postmark Here
AUG 05 2017
USPS
79431

Sent To
Street and
City, State,

DINERO OPERATING COMPANY
P.O. Box 10505
Midland, TX 79702

PS Form ... lions

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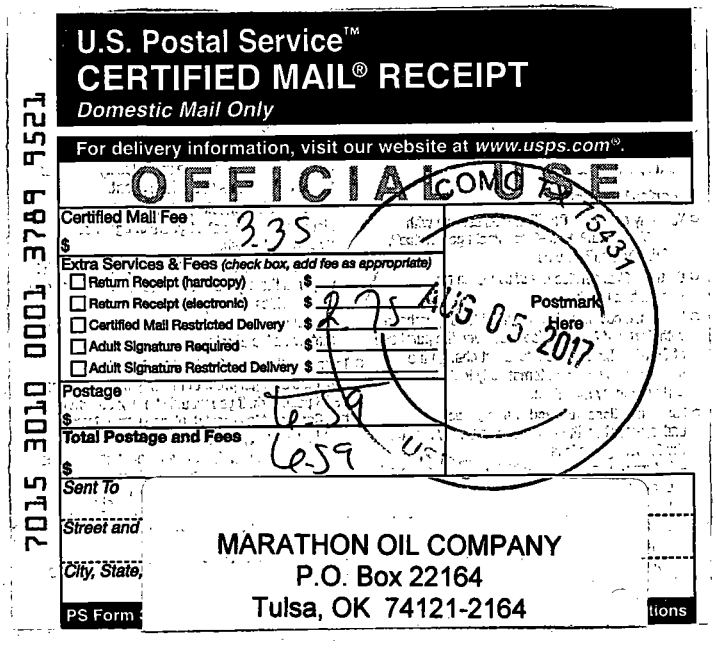

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 6.59
Total Postage and Fees $ 6.59

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AUG 05 2017
US
75431

Sent To
Street and
City, State,

MARATHON OIL COMPANY
P.O. Box 22164
Tulsa, OK 74121-2164

PS Form ... tions

7015 3010 0001 3789 9521

C-108 - Item XIV

Proof of Notice – Legal Notice
Newspaper of General Circulation

Legal Notice

Trove Energy, 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 Trove Energy SWD No.1, is located 994' FSL and 2508' FWL, Section 13, Township 24 South, Range 28 East, Eddy County, New Mexico; approximately 2.0 miles southeast of Malaga, NM.

Produced water from area production will be commercially disposed into the Devonian and Silurian formations at a maximum interval depth of 14,100' to 15,200' at a maximum surface pressure of 2820 psi and a rate limited only by such pressure.

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.

Published in the Artesia Daily Press, Artesia, N.M., Aug. 3, 2017 Legal No. 24379.

The above is the "Proof Copy" sent from the Artesia Daily Press.
The affidavit of publication will be forwarded as soon as it is received.

Affidavit of Publication

No. 24379

State of New Mexico

County of Eddy:

Danny Scott Danny Scott

being duly sworn says that she 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	August 3, 2017
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

3rd day of August 2017

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

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Published in the Artesia Daily Press, Artesia, N.M., Aug. 3, 2017 Legal No. 24379.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BARTON BROTHERS, ET AL
1919 N. Turner St.
Hobbs, NM 88240
Trove

9590 9402 1356 5285 2663 57

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9514

PS Form 3811, July 2015 PSN 7530-02-000-9053 — Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Brenda Stewart ☐ Agent ☐ Addressee

B. Received by (Printed Name): Brenda Stewart
C. Date of Delivery: 8-8-17

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BUREAU OF LAND MANAGEMENT
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Trove

9590 9403 0195 5120 3852 91

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9477

PS Form 3811, April 2015 PSN 7530-02-000-9053 — Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name)
C. Date of Delivery: 8/8/17

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Other Addresses for Trove C-108

DINERO OPERATING COMPANY

Tracking Number: 70153010000137899484

Product & Tracking Information

Delivered

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONOCOPHILLIPS
P.O. Box 7500
Bartlesville, OK 77005-7500
Trove

9590 9402 1356 5285 2664 18

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9491

PS Form 3811, July 2015 PSN 7530-02-000-9053 — Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

Mail Services
Bartlesville, OK

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARATHON OIL COMPANY
P.O. Box 22164
Tulsa, OK 74121-2164
Trove

9590 9403 0195 5120 3855 38

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9521

PS Form 3811, April 2015 PSN 7530-02-000-9053 — Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name): Mark Cat
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MATADOR PRODUCTION COMPANY
One Lincoln Center
5400 LBJ Freeway, Ste. 1500
Dallas, TX 75240
Trove

9590 9402 1356 5285 2663 64

2. Article Number (Transfer from service label)
7015 3010 0001 3789 9507

PS Form 3811, July 2015 PSN 7530-02-000-9053 — Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name): [signature]
C. Date of Delivery: 8/1/17

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

Trove Energy

GE Power & Water
Water & Process Technologies

Customer Analytical Services Laboratory
9669 Grogans Mill Road
The Woodlands, TX 77380
Telephone: 877.251.3479
Fax: 281.363.7724

WATER ANALYSIS REPORT

WESTERN ENVIRONMENTAL MANAGEMENT,CARLSBAD,NM
WESTERN ENVIRONMENTAL MANAGEMENT,3106 EAST GREENE STREET
CARLSBAD, NM 88221
United States

Customer #: 4000101850

Ship To #: 4000101850

Sold To #: 1000090673

Project ID: WDLW170815024

Sales Rep: Laird, Kelly
Receive Date: 15-Aug-2017
Report Date: 24-Aug-2017

Report Authorized By:

Susan Overbeck

Susan Overbeck 24-Aug-2017

GE Power & Water
Water & Process Technologies

Customer: WESTERN ENVIRONMENTAL

Project ID: WDLW170815024

Submitted Samples: 2

SAMPLE INFORMATION

Sample Name	Grid	Bottles	Asset	Sampling Point	Sampled Date	Lab Sample ID
#C02256		3		GGENR	08-Aug-2017	WDLW170815067
#C 00329/#C00684/ #C01154		3		GGENR	08-Aug-2017	WDLW170815068

GE Power & Water
Water & Process Technologies

Customer: WESTERN ENVIRONMENTAL

Project ID: WDLW170815024

Sample Name: #C02256

Lab Sample ID: WDLW170815067

Sampled Date: 8-Aug-2017

Parameter Name	Result	Units	Reporting Limit
pH Analysis			
pH	7.7	-	1.0
Automated Colorimetric Analysis			
Chloride, as Cl	466	ppm	0.5
ICP Analysis			
Calcium Hardness, Total, as $CaCO_3$	969	ppm	0.5
Hardness, Total, as $CaCO_3$	1420	ppm	1
Magnesium Hardness, Total, as $CaCO_3$	448	ppm	0.5
Total Dissolved Solids			
Solids, Total Dissolved, at 105°C	2620	ppm	20

GE Power & Water
Water & Process Technologies

Customer: WESTERN ENVIRONMENTAL

Project ID: WDLW170815024

Sample Name: #C 00329/#C00684/#

Lab Sample ID: WDLW170815068

Sampled Date: 8-Aug-2017

Parameter Name	Result	Units	Reporting Limit
pH Analysis			
pH	7.6	-	1.0
Automated Colorimetric Analysis			
Chloride, as Cl	470	ppm	0.5
ICP Analysis			
Calcium Hardness, Total, as $CaCO_3$	963	ppm	0.5
Hardness, Total, as $CaCO_3$	1420	ppm	1
Magnesium Hardness, Total, as $CaCO_3$	451	ppm	0.5
Total Dissolved Solids			
Solids, Total Dissolved, at 105°C	2580	ppm	20

Notes:

1) mg/kg = ppm ; 0.1wt% = 1000ppm
2) Filtered results may be slightly higher than non-filtered results. This is due to method variances.

Affidavit of Publication

No. 24379

State of New Mexico

County of Eddy:

Danny Scott Danny Scott

being duly sworn says that she 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	August 3, 2017
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this 3rd day of August 2017

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/6/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Trove Energy, 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 Trove Energy SWD No.1, is located 994' FSL and 2508' FWL, Section 13, Township 24 South, Range 28 East, Eddy County, New Mexico; approximately 2.0 miles southeast of Malaga, NM.

Produced water from area production will be commercially disposed into the Devonian and Silurian formations at a maximum interval depth of 14,100' to 15,200' at a maximum surface pressure of 2820 psi and a rate limited only by such pressure.

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.

Published in the Artesia Daily Press, Artesia, N.M., Aug. 3, 2017 Legal No. 24379.

RECEIVED OCD
2017 AUG 15 A 10:06

8/09/2017

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX (SWD) Number: _____ Order Date: _____ Legacy Permits/Orders: _____

Well No. 15 Well Name(s): Trove Energy SWD #1 (N)

API : 30-0 15-Pending Spud Date: TBD New or Old: _____ (UIC Class II Primacy 03/07/1982)

Footages 944 FSL 2508 FWL Lot ___ or Unit M Sec 13 Tsp 24S Rge 28E County Eddy

General Location: 2 miles SE / Malaga Pool: SWD; Devonian-Silurian Pool No.: 97869

BLM 100K Map: Carlsbad Operator: Trove Energy, LLC OGRID: 326945 Contact: Ben Stone, Agent

COMPLIANCE RULE 5.9: Total Wells: 0 Inactive: 0 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 8-28-2017

WELL FILE REVIEWED ○ Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed ○ or RE-ENTER: Before Conv. ○ After Conv. ○ Logs in Imaging: NA

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ Surface	26"/20"	550		1600	Surface/Visual
Planned __or Existing __ Interm/Prod	17½/13 3/8"	2750		1525	Surface/Visual
Planned __or Existing __ Interm/Prod	12¼/9 5/8"	9600	4400	1800	Surface/Visual
Planned __or Existing __ Prod/Liner					
Planned __or Existing __ Liner					
Planned __or Existing __ OH / PERF	14100' 15200'		Inj Length 1100		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.	[redacted]	DV	14100
Confining Unit: Litho. Struc. Por.		MV	12550
Proposed Inj Interval TOP:		DV	14,100
Proposed Inj Interval BOTTOM:			15200
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.	[redacted]		

Completion/Operation Details:

Drilled TD 15200 PBTD _____

NEW TD _____ NEW PBTD _____

NEW Open Hole ○ or NEW Perfs ○

Tubing Size (A) in. Inter Coated? _____

Proposed Packer Depth 14000 ft

Min. Packer Depth 14000 (100-ft limit)

Proposed Max. Surface Press. 2820 psi

Admin. Inj. Press. 2820 (0.2 psi per ft)

(A) 5-1/2" Surface / 5" Liner

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NM Noticed? ___ BLM Sec Ord ○ WIPP ○ Noticed? ___ Salt/Salado T: 1080 B: 2640 NW: Cliff House fm ___

FRESH WATER: Aquifer Quaternary Max Depth 52' HYDRO AFFIRM STATEMENT By Qualified Person ✓

NMOSE Basin: Carlsbad CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 12 FW Analysis

Disposal Fluid: Formation Source(s) Bonespring, Delaware, Upper Atoka, Morrow Analysis? _____ On Lease ○ Operator Only ○ or Commercial ○

Disposal Int: Inject Rate (Avg/Max BWPD): 15K/25K Protectable Waters? NA Source: _____ System: Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other Regional 2-Mile Radius Pool Map ○

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 0 Horizontals? _____

Penetrating Wells: No. Active Wells 0 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 0 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date Aug 3 2017 Mineral Owner Roy G Burton Comm'd Surface Owner Burton Brothers notified N. Date 8-8-2017

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Marathon, Burton Brothers, N. Date 8-09-2017

Order Conditions: Issues: _____

Add Order Cond: