

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

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



### ADMINISTRATIVE APPLICATION CHECKLIST

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

**Applicant:** Stevenson Oil Company, Inc. **OGRID Number:** 258867  
**Well Name:** Sun State SWD No.1 **API:** 30-005-20558  
**Pool:** SWD; San Andres **Pool Code:** 96121

### SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location – Spacing Unit – Simultaneous Dedication  
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling – Storage – Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM  
 [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

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

#### FOR OCD ONLY

- ☐ Notice Complete  
☐ Application Content Complete

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

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

Ben Stone

Print or Type Name

Signature

12/14/2021

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address

December 14, 2021

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

Attn: Ms. Adriene Sandoval, Director

*Re: Application of Stevenson Oil Company, Inc. to reinstate and otherwise permit for salt water disposal its Sun State Well No.1 SWD, located in Section 36, Township 7 South, Range 30 East, NMPM, Chaves County, New Mexico.*

Dear Ms. Sandoval,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal the Sun State No.1. The well was previously authorized by the operator for salt water disposal by division order SWD-1039-A which lapsed due to slowed operations during the pandemic. By reinstating the SWD, the applicant's area production can be brought back and remain economic. The well will only take Stevenson's water from area operations; currently 3 wells.

Stevenson Oil Company seeks to optimize efficiency, both economically and operationally, of all its operations 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 in the November 21, 2021, edition of the Roswell Daily Record and offset operators and other affected parties have been notified individually. All required information and attachments are included for a complete Form C-108. The well is located on state land and minerals.

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 Stevenson Oil Company, Inc.

Cc: Application attachment and file

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ***SWD Reinstatement*** and the application ***qualifies*** for administrative approval.
- II. OPERATOR: ***Stevenson Oil Company, Inc. (Ogrid – 258867)***  
ADDRESS: ***1709 N. 9th St., Lovington, NM 88260***  
  
CONTACT PARTY: ***Kevin Garrett, Manager (432) 556-8508***  
***Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850***
- III. WELL DATA: ***All well data and applicable wellbore diagrams are ATTACHED hereto.***
- 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. ***(4 AOR wells penetrate the subject interval – 1 P&A'd.)*** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. ***The following data is ATTACHED*** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  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. ***The well may be acidized to clean perforations and formation w/ approximately 1500-3500 gals 15% HCl.***
- \*X. ***Previous well logs (4) have been filed with the Division and they need not be resubmitted. A well log strip of subject well and interval is ATTACHED.***
- \*XI. ***State Engineer's records indicate there is 1 water well within one mile the proposed SWD, analysis ATTACHED.***
- XII. ***An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found*** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. ***"Proof of Notice" section on the next page of this form has been completed and ATTACHED.***  
***There is 1 offset operator (bankrupt-State foreclosed); state and federal minerals w/ one mile - all have been noticed.***
- 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 / consultant for Stevenson Oil Company, Inc.***

SIGNATURE:  DATE: ***12/15/2021***

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:

**III. WELL DATA – *The following information and data is included and ATTACHED:***

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

**XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.***

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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

e-Permitting

C-108 Submittal

Attachment Category

C-108 - Main Form

## PLEASE NOTE

*The recent activation and requirement of C-108 submissions to OCD via its e-Permitting application contained in OCD Online has altered the usual order of categories and does not necessarily correspond to the classic Form C-108 ordering of topics.*

*Category Separation Pages are included however, the C-108 Item Pages may also be included as they have long been a part of the assembly process.*

*The resulting application package is a less than appealing compilation of required parts and pieces as shown below in the online structure.*

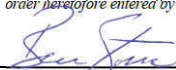
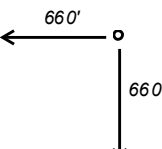
Description		Required to		Note
Tag	Attachment Type	Submit	Approve	
C-108	Main Form	True	True	
C-102	C-102	True	True	
Wellbore Diagram	Wellbore Diagram	True	True	
Proof of Notice	Proof of Notice	True	True	
AOR Analysis	Area Of Review Analysis	True	True	
Tabulation of Wells	Tabulation of wells in Area Of Review	True	True	* Including diagrams for penetrating wells
Fluid Analysis	Injectate and Formation Fluid Analysis	True	True	
Seismicity Analysis	Seismicity Analysis	True	True	* For high volume Devonian wells , especially near faults
Operational Details	Operational Details	True	True	

e-Permitting

C-108 Submittal

Attachment Category

C-102

16				<p><b>17 OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with the owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order previously entered by the division.</i></p> <p> 12/07/2021</p> <p>Signature Date</p> <p><b>Ben Stone</b></p> <p>Printed Name</p> <p><b>ben@sosconsulting.us</b></p> <p>E-mail Address</p>
				<p><b>18 SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>September 22, 1976</b></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p><b>Herschel L Jones</b></p> <p><b>3640</b></p> <p>Certificate Number</p>
				



e-Permitting

C-108 Submittal

Attachment Category

Wellbore Diagram

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

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

Wellbore Diagram – PROPOSED

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

Tabulation includes all construction data for all wells within a one-half mile radius.  
3 wells penetrate the proposed injection interval; 2 active and 1 P&A'd.

### **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.



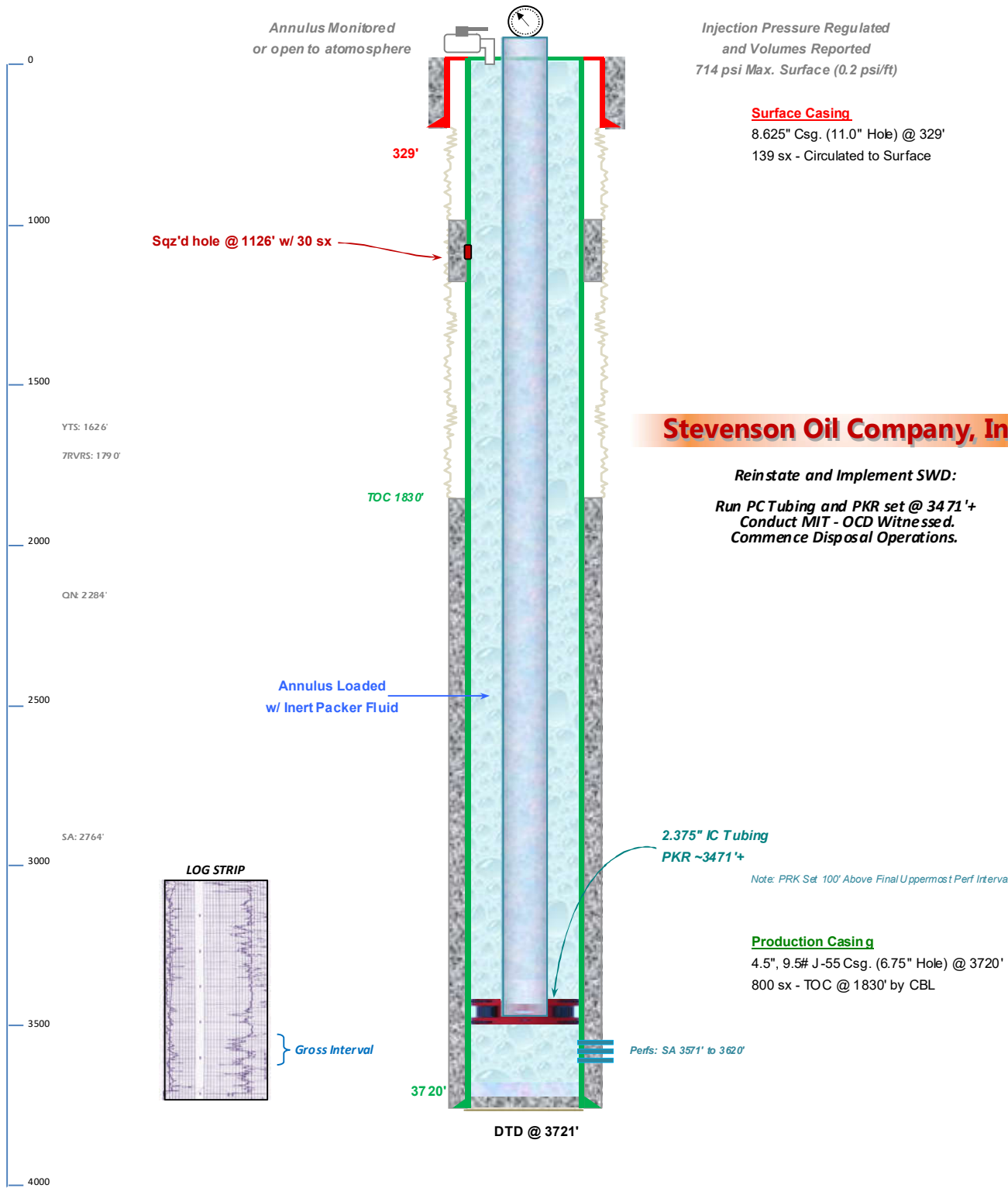
# WELL SCHEMATIC - PROPOSED Sun State SWD Well No.1

SWD; San Andres (96121)

API 30-005-20558

660' FSL & 660' FWL, SEC. 36-T7S-R30E  
CHAVES COUNTY, NEW MEXICO

Spud Date: 1/08/1976  
Config SWD Dt (Est): ~1/15/2



Drawn by: Ben Stone, 12/07/2021



e-Permitting

C-108 Submittal

Attachment Category

Proof of Notice

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

### IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

#### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

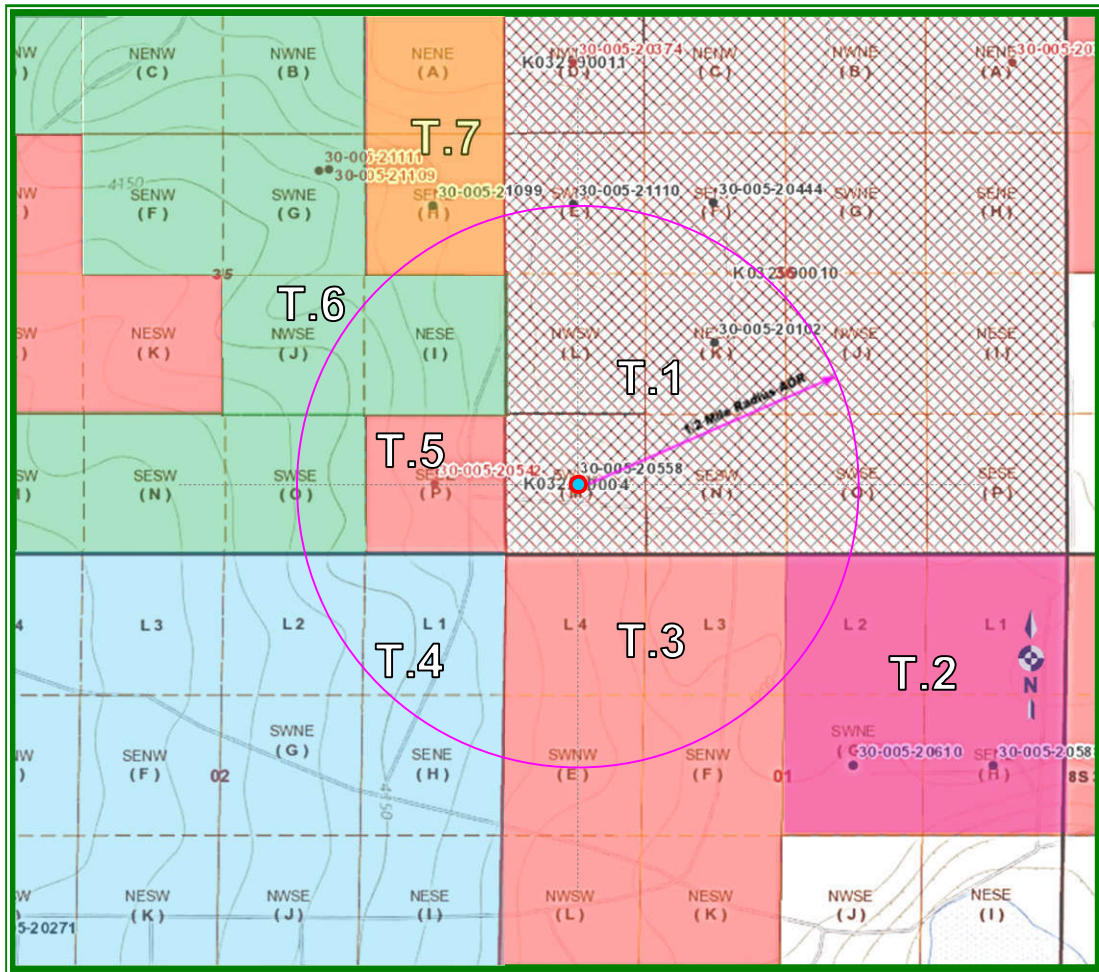
Proof of Certified Mailing

Proof of Return Receipts

Affidavit Published Legal Notice

# Sun State No.1 SWD– Affected Parties Plat

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

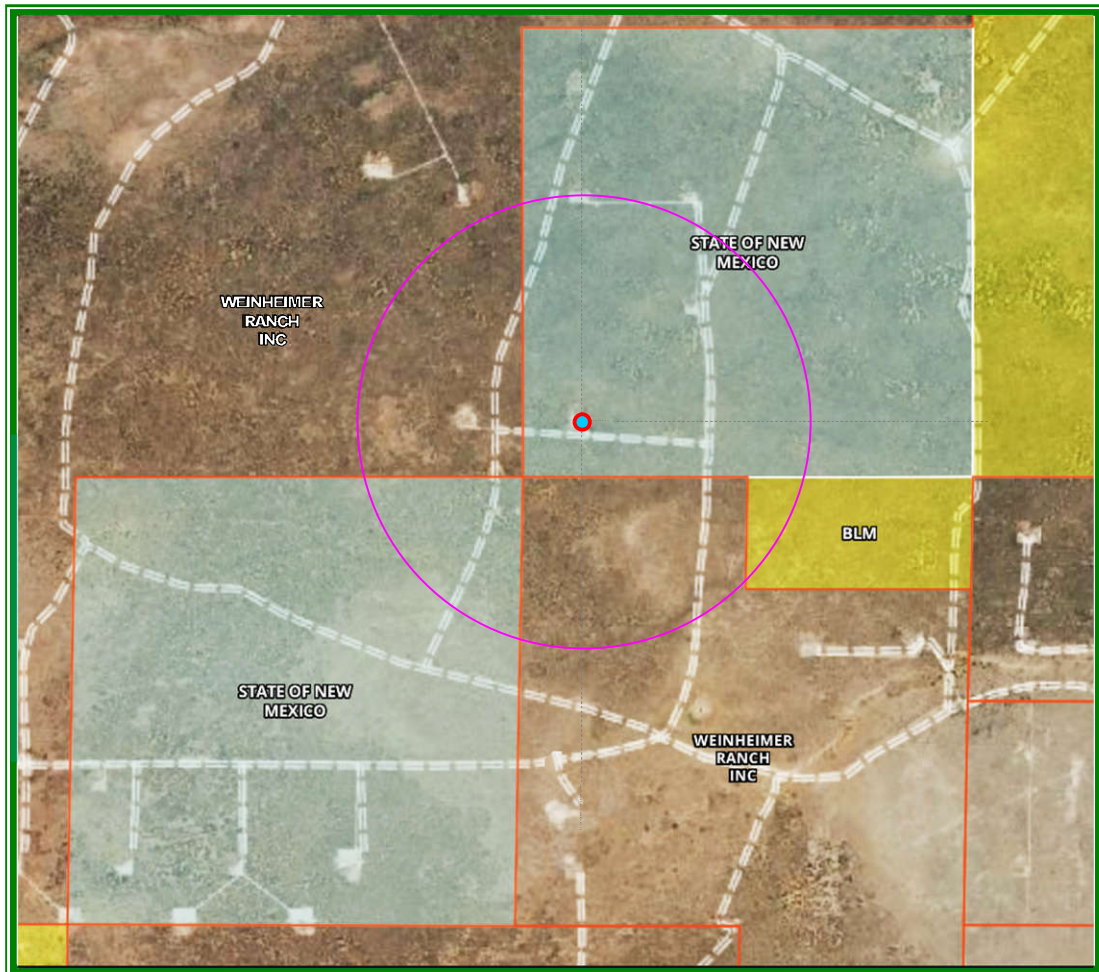


## LEGEND

- T.1 – State – K032590010 – Stevenson Oil Company (Op)
- T.2 – BLM – NMNM-088748 / Occidental Permian, LP (Op)
- T.3 – BLM – NMNM-137452 / Magnum Producing (Lse)
- T.4 – State – Cano Petroleum of NM (foreclosed/ bankrupt)
- T.5 – BLM - NMNM-137451 / Magnum Producing (Lse)
- T.6 – Private – Weinheimer Ranch, Inc.
- T.7 – BLM – NMNM-083072 / Stevenson Oil Company (Op)

# Sun State No.1 SWD– Affected Parties – Area Map

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



## *Surface Ownership*

1. STATE OF NEW MEXICO
2. BUREAU OF LAND MANAGEMENT
3. WEINHEIMER RANCH, INC.



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

**SOS Consulting is providing hard copy delivery of C-108 applications.**  
**ALL APPLICABLE AFFECTED PARTIES ARE NOTICED BY LETTER VIA USPS CERTIFIED MAIL.**  
**A FULL COPY OF THE SUBJECT C-108 APPLICATION WILL BE SENT VIA FedEx.**

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

## **SURFACE OWNER**

- 1 STATE OF NEW MEXICO (FedEx copy of C-108)  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504  
Certified: 7018 2290 0001 2038 7282

## **OFFSET MINERALS INTERESTS – OPERATORS or LESSEES (Notified via USPS Certified Mail)**

### **State Lease E032590010 (T.1 on Affected Parties Plat)**

#### ***Operator***

STEVENSON OIL COMPANY, INC. (Applicant)  
1709 N. 9<sup>th</sup> St.  
Lovington, NM 88260

### **BLM Lease NMNM-088748 (T.2 on Affected Parties Plat)**

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

- 2 OCCIDENTAL PERMIAN, LP  
6001 Deauville  
Midland, TX, 79706-2671  
Certified: 7018 2290 0001 2038 7299

### **BLM Leases NMNM-137452, NMNM-137451 (T.3, T.5 & T.6 on Affected Parties Plat)**

#### ***Lessee***

- 3 MAGNUM PRODUCING, LP  
500 N. Shoreline Blvd, Suite 501  
Corpus Christi, TX 78401-0313  
Certified: 7018 2290 0001 2038 7305

#### ***Operator***

STEVENSON OIL COMPANY, INC. (Applicant)  
1709 N. 9<sup>th</sup> St.  
Lovington, NM 88260

### **State Land (T.4 on Affected Parties Plat)**

#### ***Operator***

CANO PETROLEUM OF NEW MEXICO – *No notification sent.*  
*Company in bankruptcy – Foreclosed; State and BLM plugging out wells.*



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

**OFFSET SURFACE OWNERS**

- 4 WEINHEIMER RANCH, INC. Private Land (T.6 on Affected Parties Plat)  
P.O. Box 327  
Stonewall, TX 78671  
Certified: 7018 1130 0000 8738 1851
  
- 5 BUREAU OF LAND MANAGEMENT  
CFO – Oil and Gas Division  
620 E. Greene Street  
Carlsbad, NM 88220-6296  
Certified: 7018 1130 0000 8738 1844

**REGULATORY**

NEW MEXICO OIL CONSERVATION DIVISION (Filed thru OCD Online e-Permitting)  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (OCD Online e-Permitting)  
1625 N. French Dr.  
Hobbs, NM 88240

STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504

November 19, 2021

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

To Whom It May Concern:

Stevenson Oil Company, Lovington, New Mexico, has made application to the New Mexico Oil Conservation Division to reinstate for salt water disposal its Sun State Well No.1. The previously authorized SWD operation will be for private water disposal from Stevenson's area operations. As indicated in the notice below, the well is located in Section 36, Township 7 South, Range 30 East in Chaves County, New Mexico.

The published notice states that the interval is from 3,571 feet to 3,620 feet into the San Andres formation.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about November 20, 2021.

**LEGAL NOTICE**

Stevenson Oil Company, Inc., 1709 N. 9th St., Lovington, NM 88260, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to reinstate a salt water disposal well. The subject well, the Sun State SWD No.1, API No.30-005-20558, is located 660' FSL and 660' FWL, (UL 'M') Section 36, Township 7 South, Range 30 East, Chaves County, New Mexico. Produced water from Stevenson's area production will be privately disposed (not open to commercial disposal) into the San Andres formation at depths of 3571' to 3620' at a maximum surface pressure of 714 psi, maximum daily rate of 1000 bwpd and an average rate of 500 bwpd. The subject SWD well is located approximately 13.3 miles southwest of Kenna, NM.

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

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

You are entitled to a full copy of the application. A full printed copy will be sent via FedEx when the C-108 is completed in a few days.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC  
Agent for Stevenson Oil Company, Inc.

Cc: Application File

# C-108 – Item XIV

## Proof of Notice - Certified Mail Receipts

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

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

**OFFICIAL USE**

Certified Mail Fee \$ 3.75

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$ 3.05

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$ .58

Total Postage and Fees \$ 7.38

Sent To

Street and A

City, State, ZIP+4®

STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504

PS Form 3800, April 2015 PSN 7530-02-000-9047



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

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

**OFFICIAL USE**

Certified Mail Fee \$ 3.75

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$ 3.05

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$ .58

Total Postage and Fees \$ 7.38

Sent To

Street and A

City, State, ZIP+4®

OCCIDENTAL PERMIAN, LP  
6001 Deauville  
Midland, TX, 79706-2671

PS Form 3800, April 2015 PSN 7530-02-000-9047



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

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

**OFFICIAL USE**

Certified Mail Fee \$ 3.75

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$ 3.05

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$ .58

Total Postage and Fees \$ 7.38

Sent To

Street and A

City, State, ZIP+4®

MAGNUM PRODUCING, LP  
500 N. Shoreline Blvd, Suite 501  
Corpus Christi, TX 78401-0313

PS Form 3800, April 2015 PSN 7530-02-000-9047



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

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

**OFFICIAL USE**

Certified Mail Fee \$ 3.75

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$ 3.05

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$ .58

Total Postage and Fees \$ 7.38

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

WEINHEIMER RANCH, INC.  
POB 327  
STONEWALL, TX 78671

PS Form 3800, April 2015 PSN 7530-02-000-9047



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

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

**OFFICIAL USE**

Certified Mail Fee \$ 3.75

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$ 3.05

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$ .58

Total Postage and Fees \$ 7.38

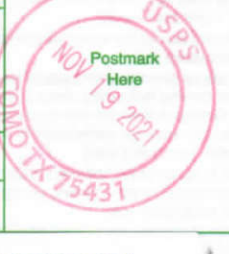
Sent To

Street and A

City, State, ZIP+4®

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

PS Form 3800, April 2015 PSN 7530-02-000-9047



## C-108 - Item XIV

### Proof of Notice (Certified Mail Return Receipts/ Green Cards)

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</p> <p>Print your name and address on the reverse so that we can return the card to you.</p> <p>Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery 11-22-21</p>	
<p>1. Article Addressed to:</p> <p>STATE OF NEW MEXICO Oil, Gas and Minerals Division 310 Old Santa Fe Trail Santa Fe, NM 87504 <i>Sun State</i></p>		<p>1. Article Addressed to:</p> <p>Bureau of Land Management Oil &amp; Gas Division 620 E. Greene St Carlsbad, NM 88220 <i>Sun State</i></p>	
<p>2. Article Number (Transfer from) 7018 2290 0001 2038 728</p> <p>PS Form 3811, February 2004 Domestic Return Receipt</p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</p> <p>Print your name and address on the reverse so that we can return the card to you.</p> <p>Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery 11-22-21</p>	
<p>1. Article Addressed to:</p> <p>WEINHEIMER RANCH, INC. P.O. Box 327 Stonewall, TX 78671 <i>Sun State</i></p>		<p>1. Article Addressed to:</p> <p>MAGNUM PRODUCING, LP 500 N. Shoreline Blvd, Suite 501 Corpus Christi, TX 78401-0313 <i>Sun State</i></p>	
<p>2. Article Number (Transfer from) 7018 1130 0000 87</p> <p>PS Form 3811, February 2004 Domestic Return Receipt</p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.</p> <p>Print your name and address on the reverse so that we can return the card to you.</p> <p>Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X <i>BR 30 49</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery 11-22-21</p>	
<p>1. Article Addressed to:</p> <p>MAGNUM PRODUCING, LP 500 N. Shoreline Blvd, Suite 501 Corpus Christi, TX 78401-0313 <i>Sun State</i></p>		<p>1. Article Addressed to:</p> <p>MAGNUM PRODUCING, LP 500 N. Shoreline Blvd, Suite 501 Corpus Christi, TX 78401-0313 <i>Sun State</i></p>	
<p>2. Article Number (Transfer from) 7018 2290 0001 2038 7305</p> <p>PS Form 3811, February 2004 Domestic Return Receipt</p>		<p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

USPS Tracking®

FAQs >

Track Another Package +

Sun State SWD - Notice to Occidental Permian, LP

Tracking Number: 70182290000120387299

Remove X

Your item was delivered to an individual at the address at 12:17 pm on November 22, 2021 in MIDLAND, TX 79706.

✓ Delivered, Left with Individual

November 22, 2021 at 12:17 pm  
MIDLAND, TX 79706



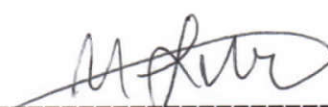
AFFIDAVIT OF PUBLICATION  
STATE OF NEW MEXICO

I, Noely Martinez  
Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:


One time with the issue dated

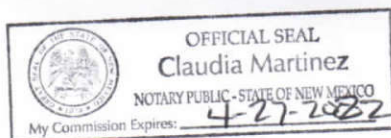
November 21, 2021

-----  
  
-----  
Clerk

Sworn and subscribed to before me

this 21st day of November, 2021

-----  
  
-----  
Notary Public



*Legal Notice...*

Publish November 21, 2021

LEGAL NOTICE

Stevenson Oil Company, Inc., 1709 N. 9th St., Lovington, NM 88260, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to reinstate a salt water disposal well. The subject well, the Sun State SWD No.1, API No.30-005-20558, is located 660' FSL and 660' FWL, (UL 'M') Section 36, Township 7 South, Range 30 East, Chaves County, New Mexico. Produced water from Stevenson's area production will be privately disposed (not open to commercial disposal) into the San Andres formation at depths of 3571' to 3620' at a maximum surface pressure of 714 psi, maximum daily rate of 1000 bwpd and an average rate of 500 bwpd. The subject SWD well is located approximately 13.3 miles southwest of Kenna, NM.

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

e-Permitting

C-108 Submittal

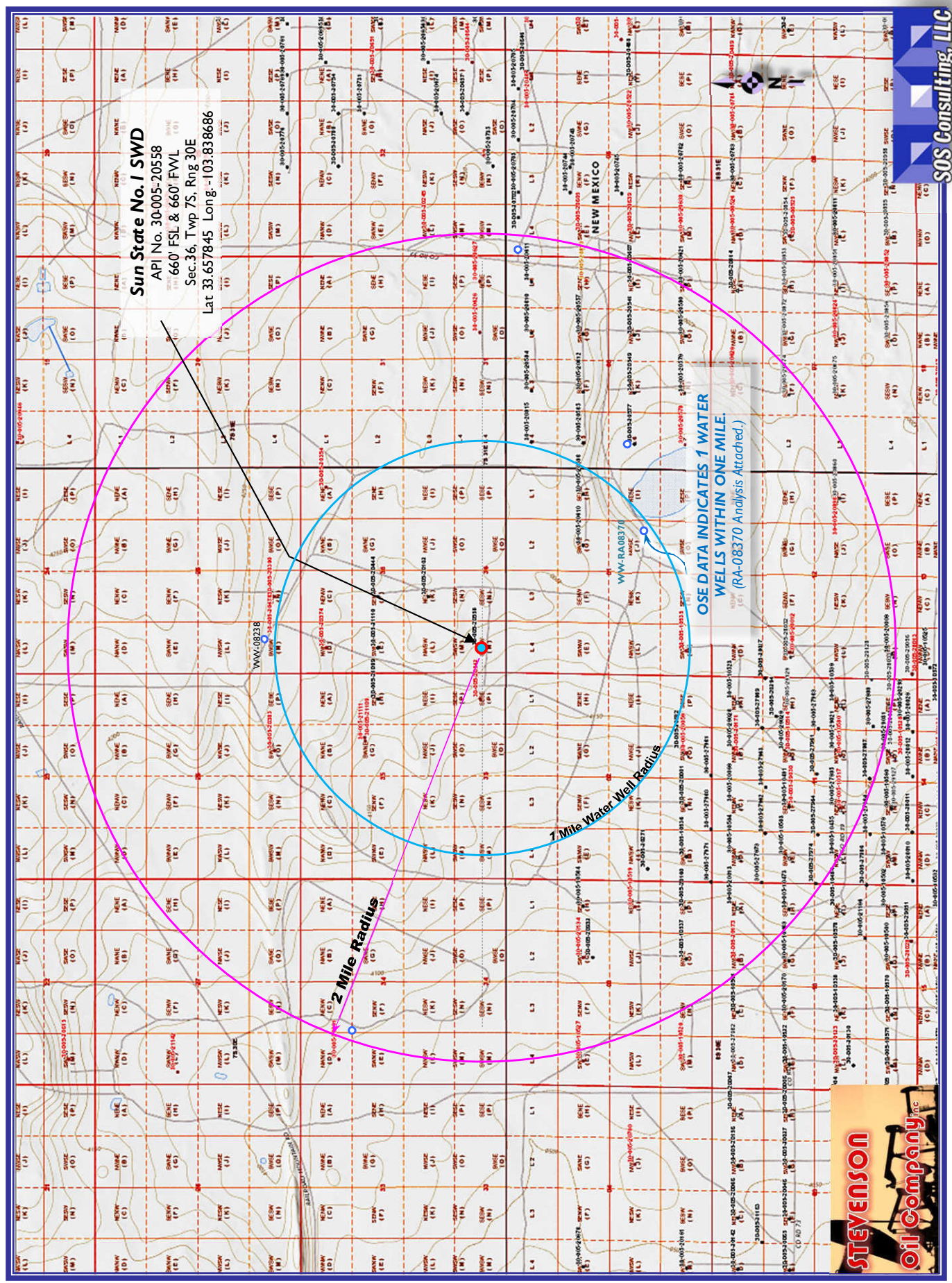
Attachment Category

AOR Analysis



# Sun State No.1 SWD - Area of Review / 2 Miles

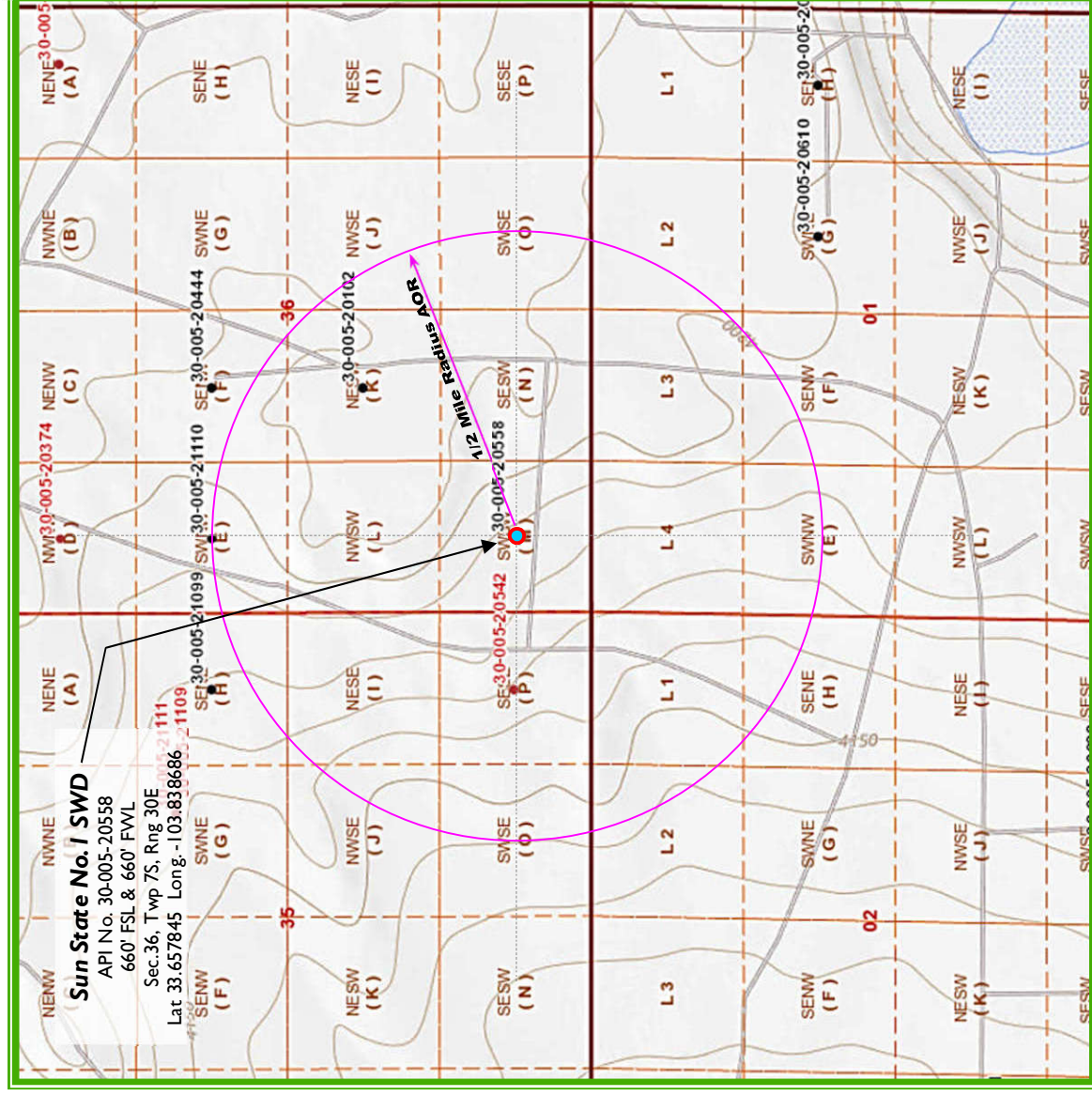
(Attachment to NMOCD Form C-108 - Item V)



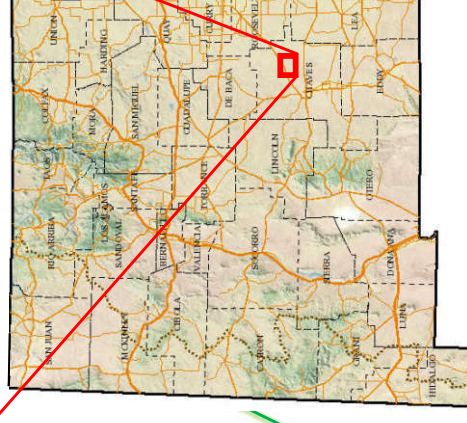
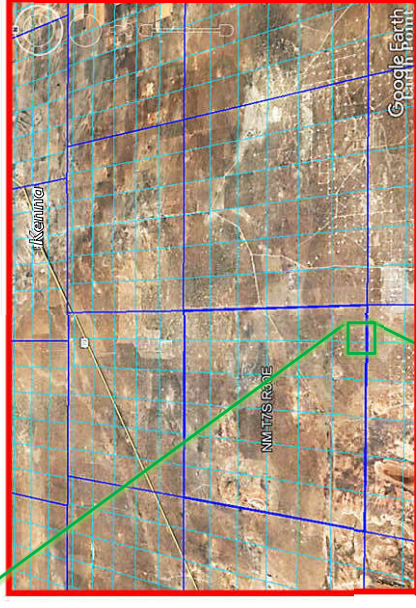


# Sun State No.1 SWD - Area of Review / Overview Map

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



13.3 miles Southeast of Kenna, NM



Chaves County, New Mexico





**C-108 ITEM X – LOGS  
and AVAILABLE TEST DATA**

A Log Strip from the Subject Well Covering  
the Zone of Interest with Annotations is Attached.

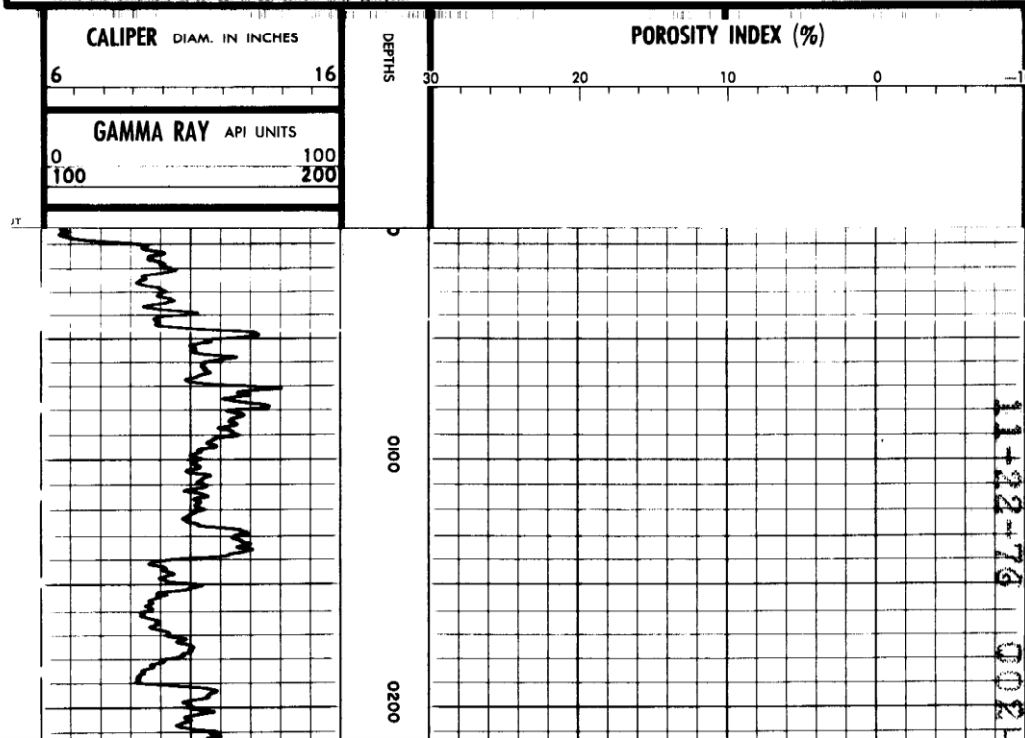
**LOG STRIP FOLLOWS**

M-36-T7S-R30E 660FS 660FW		M E W ENTERPRISES	
SUN STATE # 1		30-005-20558	
#1		SIDEWALL	
YATES COMPANY, INC.		NEUTRON POROSITY LOG	
#1		berger	
COMPANY HARVEY E. YATES COMPANY, INC.		WELL SUN STATE #1	
FIELD WILDCAT		COUNTY CHAVES STATE NEW MEXICO	
6601 FSL & 6601 FHL		Other Services: DLL	
PI SERIAL NO. 36		SEC. 36	
7-S		RANGE 30-E	
Permanent Bottom: G.L.		Elev.: 4163	
Log Measured From: K. 8		Elev.: K. 8 4173	
Drilling Measured From: K. 8		D.F. 4163	
Date 11-13-76		Run No. ONE	
Depth-Driller 3720		Depth-Logger (Sch.) 3702	
Btm. Log Interval 3701		Top Log Interval 0	
Casing-Driller 8 5/8 @ 34.3		Casing-Logger 7 7/8	
Bit Size 7 7/8		Type Fluid in Hole SALT STARCH	
Dens. Visc. 10 36		pH Fluid Loss 7 12 ml	
Source of Sample CIRCULATED		Rm @ Meas. Temp. 0.60 @ 85°F	
Rmt @ Meas. Temp. 0.49 @ 75°F		Rmt @ Meas. Temp. 0.90 @ 89°F	
Source: Rmt 1 Rmt C		Rm @ BHT 0.53 @ 100°F	
Circulation Stopped 1400		Logger on Bottom 1645	
Equip. Location 7732 HOBBS		Max. Rec. Temp. 100	
Recorded By KEMPER		Witnessed By Mr. SCOTT	

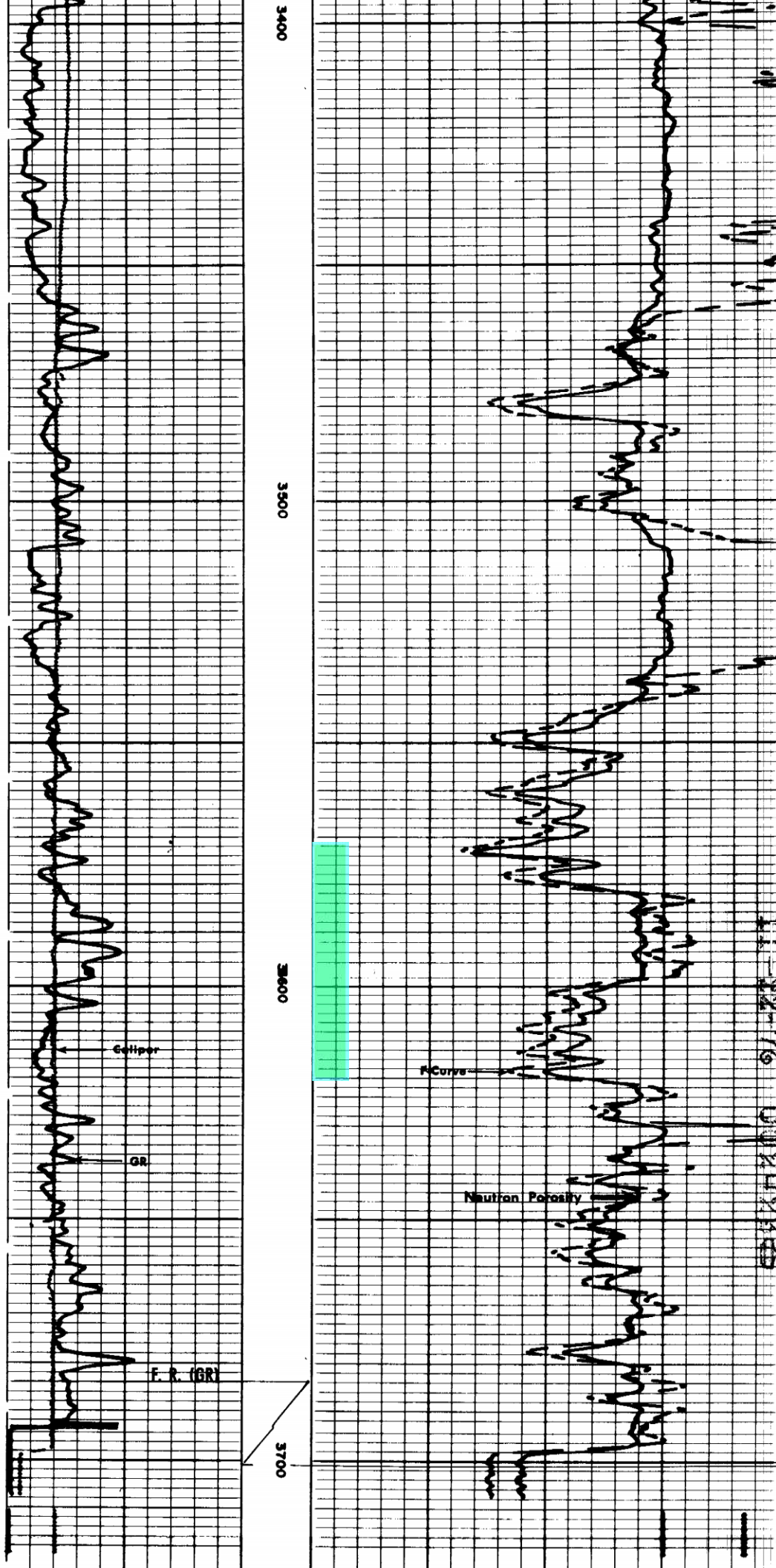
FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE	SCALE CHANGES			
Service Order No.	02423	Type Log	Depth	Scale Up Hole	Scale Down Hole
Fluid Level	FULL				
EQUIPMENT DATA		LOGGING DATA			
Panel No.	EJ-1195	Matrix	Mud Corr. PPM x 10 <sup>3</sup>	Temp. °F	φ Scale
Cart No.	A-1164	LS-L10	.15	100	30 -10
Skid No.	-				
Sonde No.	EC-307				
G. R. Cart No.	KG-1261				
TTR No.	-				
Calibrator	168				
Mem Panel No.	AB-792				
CALIBRATION DATA		REMARKS			
Speed - F.P.M.	30				
GR	BKG. CPS 65				
	Source CPS 555				
	Tc Sec CAL				
Neutron	Before Drawer In 369				
ACPS.	Log Drawer Out 216				
	After Drawer In 370				
	Log Drawer Out 218				

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.



LOG BODY



Injection Interval  
3571' to 3620'

## **C-108 – Item VIII**

### **Geologic Information**

The San Andres formation consists of subtidal porous dolostones characterized by an upward-shallowing succession of outer- to inner-ramp carbonate lithofacies. The trapping mechanism for the San Andres play in the Northwest Shelf results mainly from porosity pinch-outs defined by an increase in the anhydrite content or in the degree of the dolomitization. The San Andres is overlain by the Grayburg and/or Queen formations.

There are distinct characteristics we believe support the confinement to the San Andres for a low-rated disposal well. Strata in the subject well does not provide for the classic 'sealing strata' layers immediately above and below the proposed injection interval. Notably in the lower portion of the Grayburg the porosity and permeability are not well-developed and anhydrite cementation is common in these completions. Below the proposed interval lies the Yeso and Abo formations and while not considered confining, nor are they productive in the area. The next downward production is the Abo and there is no chance that disposal operations in the Sun State SWD #1 would have any impact whatsoever.

Given that the proposal is for standard gradient pressure through perforations targeting the best porosity, particularly of the lower San Andres interval, we expect the injectates to be reasonably and appropriately confined to the intended intervals. Stevenson Oil Company hopes to achieve a maximum rate of 1000 bwpd (~2 bpm) but recognizes that that may be optimistic. However, an average rate of 500 bwpd would serve the operational needs.

There is a potential source of drinking water in the overlying sands in the Roswell Artesian Basin occurring at a depth from surface not shallower than 250 feet. (Note: there is one domestic water well within one mile of the proposed SWD well.) The upper part of the section on average consists of 200 ft of Holocene alluvial deposits of caliche, sand, gravel, and clay. Included in this interval are red sandstone and shale of the Chinle formation and Santa Rosa sandstone and similar deposits of the Dewey Lake formation. These formations are underlain by the Rustler and Salado formations.

There are no known sources of water <10,000 mg/l TDS which underlie the injection zones.

## **C-108 ITEM XI**

Water Wells within Area of Review

And

Groundwater Information for Area

Several Exhibits in Support of  
Domestic/ Fresh Water Well Data  
and Groundwater Information  
Follow this Page...

# C-108 ITEM XI – WATER WELLS IN AOR

1 Water Well Spot Within ONE MILE of Proposed SWD.

**PLEASE SEE WATER WELL LOCATOR MAP – NEXT PAGE.**



## 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	Well Tag Code Grant	Source	q q q	6416 4	Sec	Tws Rng X Y
<a href="#">TU 00359</a>	TU DOM 3 RAY RUSH	QU	<a href="#">TU 00359</a>			1 2 4 25	07N	30E	618030 3851618*

Record Count: 1 **>1 mile**

PLSS Search:

Section(s): 24, 25, 35, 36 Township: 07N Range: 30E

No PODs found.

PLSS Search:

Section(s): 30, 31 Township: 07S Range: 31E

(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	Well Tag Code Grant	Source	q q q	6416 4	Sec	Tws Rng X Y
<a href="#">RA 08370</a>	RA STK 2.5 FRATES SEELINGSON	CH	<a href="#">RA 08370</a>			4 1 4 01	08S	30E	608576 3723524*

Record Count: 1

PLSS Search:

Section(s): 1, 2 Township: 08S Range: 30E

Sorted by: File Number

(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	Well Tag Code Grant	Source	q q q	6416 4	Sec	Tws Rng X Y
<a href="#">RA 08329</a>	RA DOM 3 GRAVES	CH	<a href="#">RA 08329</a>			1 3 06	08S	31E	609286 3723635*

Record Count: 1 **>1 mile**

PLSS Search:

Section(s): 6 Township: 08S Range: 31E

Sorted by: File Number

NM OSE POD system indicates 1 (one) water well within one mile.

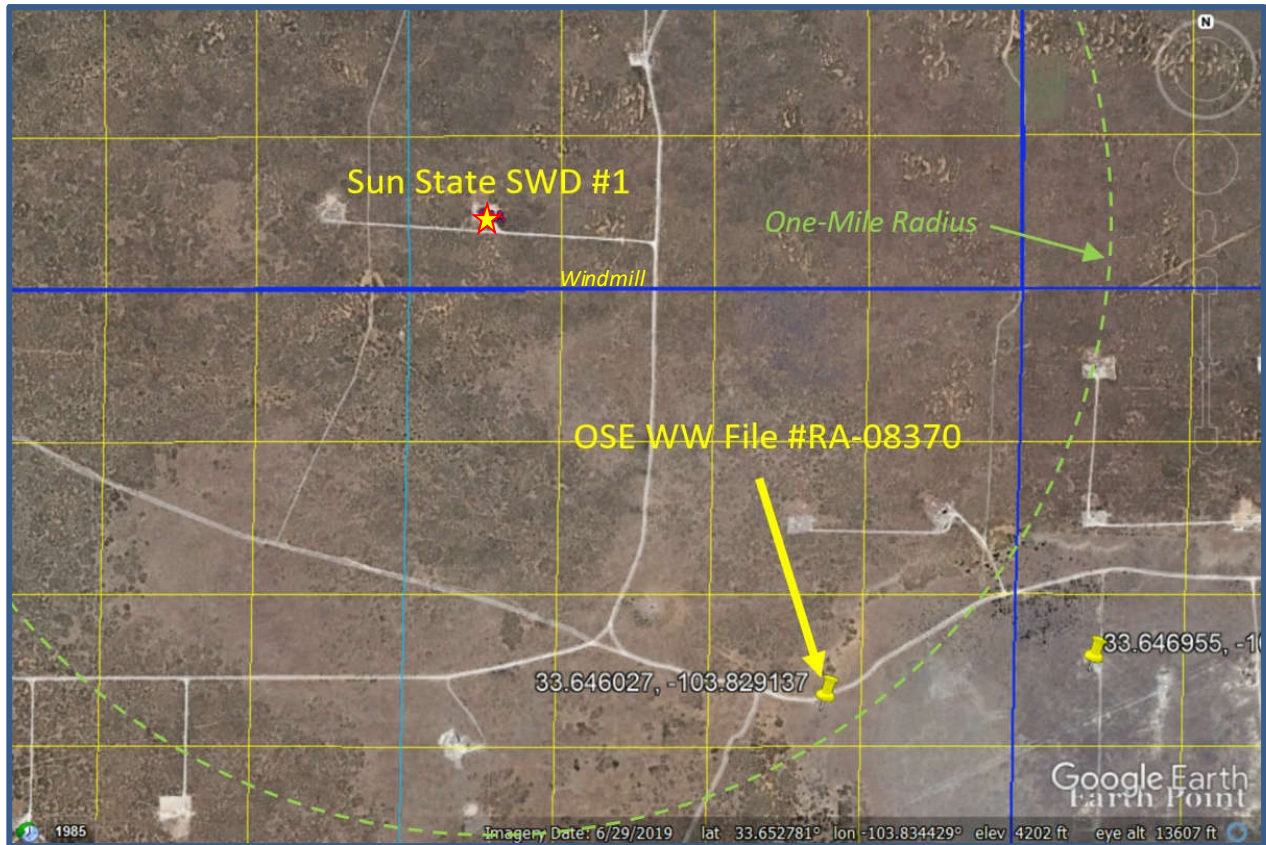


# C-108 Item XI

## Water Wells Within One Mile

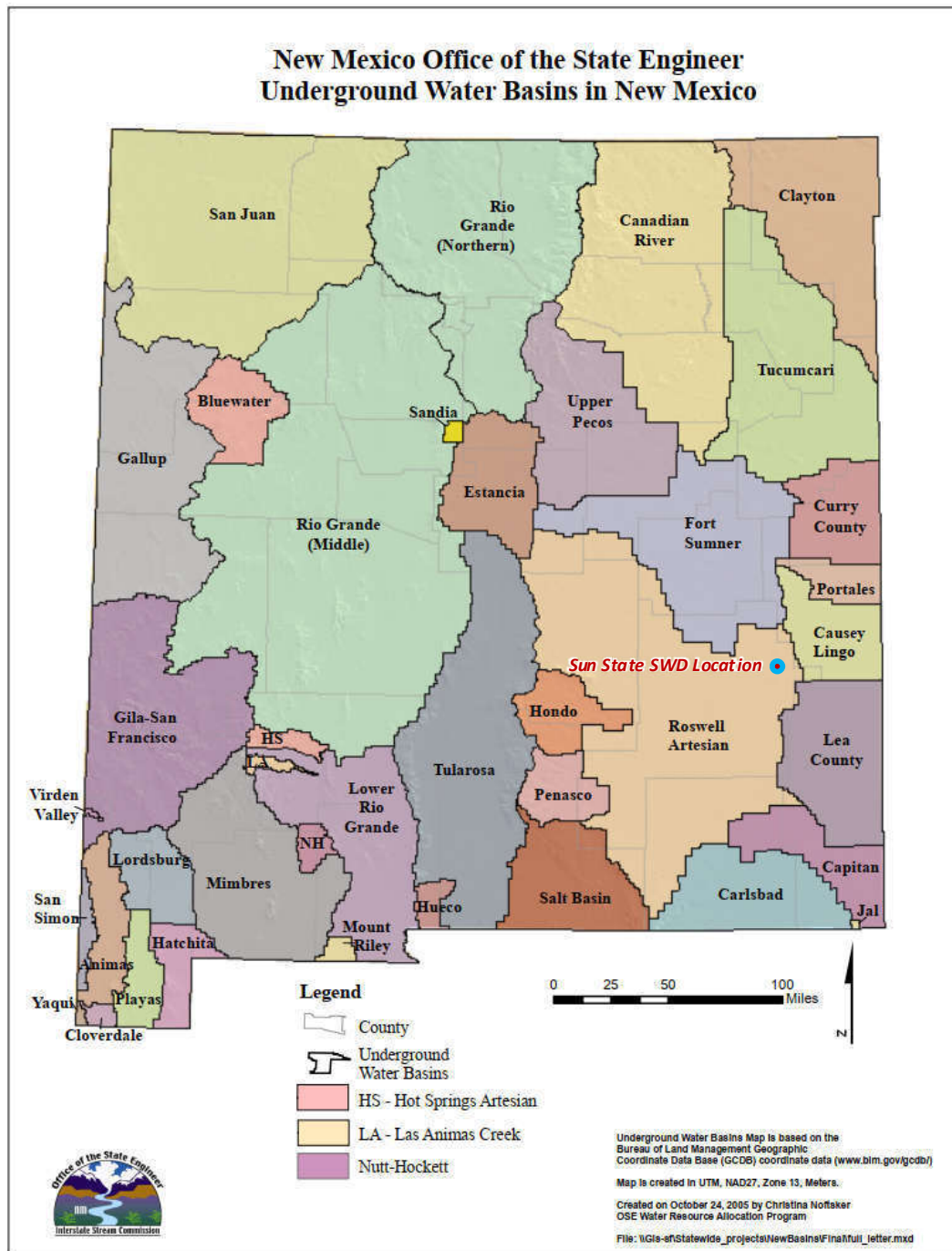
### Sun State #1 SWD - Water Well Locator Map

*NM State Engineer's records indicate is one water well located approximately 5150 feet to the southeast of the proposed SWD, the well was sampled and water analysis obtained.*



## C-108 - Item XI

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

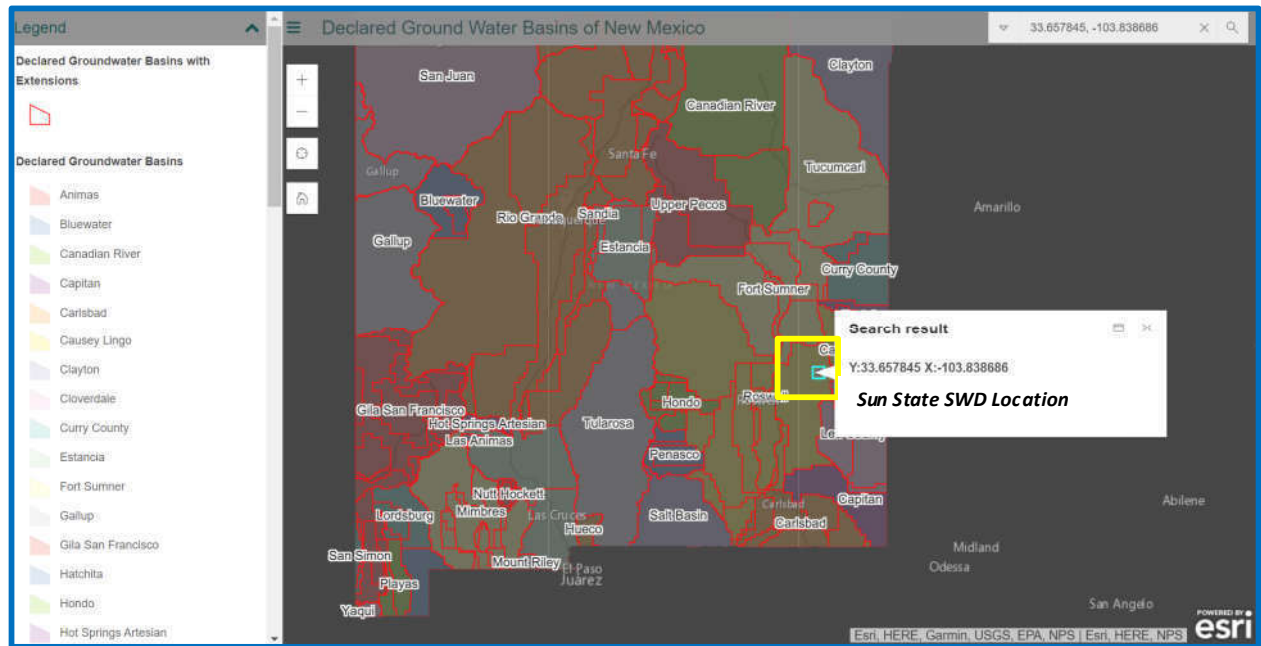


*The subject well is located within the Roswell Artesian Basin,  
approximately 1-1/2 townships west of the Causey Lingo Basin.*



## 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 Roswell Artesian Basin, approximately 1-1/2 townships west of the Causey Lingo Basin.

The Roswell ground-water basin consists of a carbonate artesian aquifer overlain by a leaky confining bed, which, in turn is overlain by an alluvial water-table aquifer. The water-table aquifer is hydraulically connected to the Pecos River. The shallow aquifer is composed of permeable beds of sand and gravel in the valley-fill alluvium, which is Pliocene, Pleistocene, and Holocene in age. In 1975, the maximum saturated thickness of the valley fill was about 250 feet in depressions northeast of Roswell. (Welder, 1983)

State Engineer's records show there are 3 water wells in 7S-30E with an average depth of 417 feet and minimum depth to water at 235 feet.

There is 1 water well located within one mile of the proposed SWD – an analysis of that water is included herein.



# 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 Sub- Code	basin	County	Q Q Q				Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4									
<a href="#">RA 09275</a>	RA	CH		1	3	1		27	07S	30E	604318	3727294*	515	235	280
<a href="#">RA 09734</a>	RA	CH			1	1		31	07S	30E	599574	3725936*	1034	600	434
<a href="#">RA 09735</a>	RA	CH				1		34	07S	30E	604637	3725789*	800		

Average Depth to Water: **417 feet**

Minimum Depth: **235 feet**

Maximum Depth: **600 feet**

Record Count: 3

PLSS Search:

Township: 07S

Range: 30E

\*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.



*Catalyst Oilfield Services*  
 11999 E Hwy 158  
 Gardendale, TX 79758  
 (432) 563-0727  
 Fax: (432) 224-1038

## Water Analysis Report

Customer:	Rack Energy Services	Sample #:	182977
Area:	Permian Basin	Analysis ID #:	150494
Lease:	Weinheimer Ranch		
Location:	SE Well #1		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/7/2021	Chloride:	412.9	Sodium:	357.3
Analysis Date:	12/9/2021	Bicarbonate:	122.0	Magnesium:	5.3
Analyst:	Catalyst	Carbonate:		Calcium:	12.1
TDS (mg/l or g/m3):	1061.2	Sulfate:	140.0	Potassium:	2.4
Density (g/cm3):	1.004	Borate*:	8.3	Strontium:	0.5
		Phosphate*		Barium:	0.2
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.		Iron:	0.2
Carbon Dioxide:	0			Manganese:	0.017
Comments:				Conductivity (micro-ohms/cm):	1790
				Resistivity (ohm meter):	5.5866
		pH at time of sampling:	7		
		pH at time of analysis:			
		pH used in Calculation:	7		
		Temperature @ lab conditions (F):	75		

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-1.41	0.00	-2.29	0.00	-2.36	0.00	-1.96	0.00	0.74	0.00	
100	-1.27	0.00	-2.28	0.00	-2.29	0.00	-1.94	0.00	0.60	0.00	
120	-1.11	0.00	-2.26	0.00	-2.19	0.00	-1.90	0.00	0.49	0.00	
140	-0.95	0.00	-2.24	0.00	-2.07	0.00	-1.86	0.00	0.41	0.00	
160	-0.78	0.00	-2.21	0.00	-1.94	0.00	-1.81	0.00	0.34	0.00	
180	-0.60	0.00	-2.17	0.00	-1.79	0.00	-1.76	0.00	0.30	0.00	
200	-0.41	0.00	-2.13	0.00	-1.63	0.00	-1.70	0.00	0.27	0.00	
220	-0.23	0.00	-2.09	0.00	-1.46	0.00	-1.64	0.00	0.26	0.00	

## **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:       Stevenson Oil Company  
                  Sun State No.1 SWD  
                  Reviewed 11/22/2021

e-Permitting

C-108 Submittal

Attachment Category

Tabulation of Wells in AOR

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SAN ANDRES Interval 3571'					ALL Wells Penetrates Proposed Interval.				
API	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged On
Subject Well									
30-005-20558	[258867] STEVENSON OIL COMPANY, INC.	SUN STATE	#001	Salt Water Disposal	State	Active	M-36-07S-30E	3720'	
Section 36 Wells									
30-005-20102	[258867] STEVENSON OIL COMPANY, INC.	NEW MEXICO J STATE	#001	Oil	State	Active	K-36-07S-30E	3730'	
30-005-21110	[258867] STEVENSON OIL COMPANY, INC.	NEW MEXICO J STATE	#003	Oil	State	Active	E-36-07S-30E	3750'	
Section 35 Wells									
30-005-20542	[214263] PRE-ONGARD WELLOPERATOR	MARIE TRUST	#001	Oil	State	P&A-R	F-35-07S-30E	3692'	10/22/1976

SUMMARY: 4 wells penetrate proposed disposal interval. 1 P&A.



## **C-108 ITEM VI**

AOR Well Information

### **Plugged Well Schematics**

There is 1 P&A'd Well Within the AOR Which  
Penetrates the Proposed Injection Zone.

*Well Diagram follows this page...*

# PLUGGED WELL SCHEMATIC

## Marie Trust #1

API 30-005-20544

660' FSL & 660' FEL, SEC. 35-T7-S-R30E  
CHAVES COUNTY, NEW MEXICO

Spud Date: 6/17/1976

P&A Date: 10/22/1976

Well Plugged by:  
Harvey E. Yates Co.

<PLUGGING ITEMS LISTED LEFT>

### PLUGS:

Spot 20'  
20'-0'

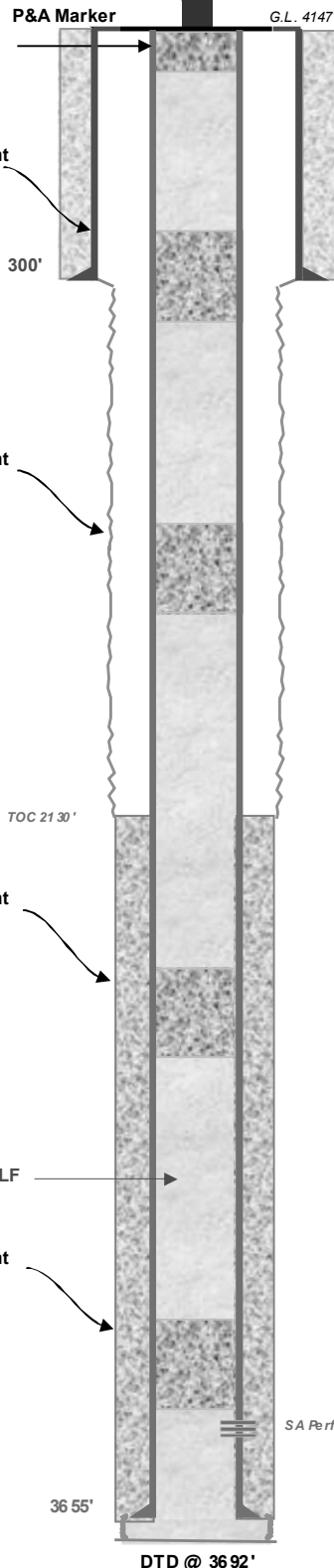
Spot 25 sx Cmt  
350'-250'

Spot 25 sx Cmt  
1400'-1300'

Spot 25 sx Cmt  
1400'-1300'

Spot 25 sx Cmt  
1400'-1300'

Load Hole w/MLF



<PRE-P&A EXISTING ITEMS LISTED RIGHT>

### Surface Casing

8.675", 20.0# Csg. (11.0" Hole) @ 300'  
150 sx - 25 sx Circulated

### <P&A SUBSEQUENT SUNDRY>

Form 9-211 (May 1963)		UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY		SUBMIT IN TRIPLI (Other Instructions view side)	
SUNDRIY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)				Form approved Budget Bureau No. 49-81264	
1. NAME OF OPERATOR Harvey E. Yates Co., Inc.		2. ADDRESS OF OPERATOR Suite 1000 Security National Bank Bldg. Roswell, N.M. 88201		3. NAME OF LAND OWNER Marie Trust	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) 660' FSL & FEL		5. ELEVATION (Show whether SP, RT, OR, etc.) 4147 GR		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NM -21167	
7. CITY AGREEMENT NAME 		8. PARK OR LEASE NAME 		9. WELL NO. #1	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC. T. R. OR NE. AND SECT. OR LANA Sec. 35, T-7S, R-30E		12. COUNTY OR PARISH, STATE Chaves N.M.	
13. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data					
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> FULL OR ALTER Casing <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLET <input type="checkbox"/> ABANDON OR ACCEDE <input type="checkbox"/> ABANDON* <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> (Other) <input type="checkbox"/>		SUBSEQUENT AMOUNT OF: WATER SHUT-OFF <input type="checkbox"/> ABANDONING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> REROUTING OR ACCEDE <input type="checkbox"/> ABANDONMENT* <input checked="" type="checkbox"/> (Other) <input type="checkbox"/>			
17. LAMINATE PROVIDED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent data, including anticipated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and those used here to show work.)					
10-22-76 - Plugged as follows: 10 sx Cement plug spotted 3503'-3352' 25 sx Cement plug spotted 2550'-2450' 25 sx Cement plug spotted 1400'-1300' 25 sx Cement plug spotted 350'-250' 20' plug @ surface with mud between plugs. Dry hole marker installed.					
RECEIVED DEC 21 1976 U.S. GEOLOGICAL SURVEY ALBUQUERQUE, NEW MEXICO					
18. I hereby certify that the foregoing is true and correct SIGNED: <i>Ben Stone</i> TITLE: Vice President DATE: 12-15-76 (This space for Federal or State office use) APPROVED BY: _____ TITLE: _____ DATE: Feb 8 1980 CONDITIONS OF APPROVAL, IF ANY:					

\*See Instructions on Reverse Side

### Production Casing (Oil String)

4.5", 10.5# Csg. (7.875" Hole) @ 3655'  
225 sx - pump & plug down - TOC 2130' by Calc.

Drawn by: Ben Stone 12/07/2011





e-Permitting

C-108 Submittal

Attachment Category

Fluid Analysis

Injectate and Formation

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

*Source and Disposal Waters are from the same zone.*

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

San Andres

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

San Andres

**Water Analyses follow this page.**

# **C-108 Item VII.5 - Produced Water Data** **Source and Disposal Zone - San Andres**

## **SAN ANDRES**

<b>API No</b>		3000510520		<b>Lab ID</b>		
<b>Well Name</b>		CATO		<b>Sample ID</b>		5672
		001		<b>Sample No</b>		
<b>Location</b>	ULSTR	03	08	S	30	<b>Lat / Long</b> 33.64295 -103.87372
		660	S	660	W	<b>County</b> Chaves
<b>Operator (when sampled)</b>						
	Field	CATO				Unit M
	Sample Date	11/10/1966		Analysis Date		
	Sample Source	WELLHEAD				Depth (if known)
	Water Type					
ph		6.3		alkalinity_as_caco3_mgL		
ph_temp_F				hardness_as_caco3_mgL		
specificgravity				hardness_mgL		
specificgravity_temp_F				resistivity_ohm_cm		
tds_mgL		260201		resistivity_ohm_cm_temp_		
tds_mgL_180C				conductivity		
chloride_mgL		167000		conductivity_temp_F		
sodium_mgL				carbonate_mgL		
calcium_mgL				bicarbonate_mgL		
iron_mgL				sulfate_mgL		
barium_mgL				hydroxide_mgL		
magnesium_mgL				h2s_mgL		
potassium_mgL				co2_mgL		
strontium_mgL				o2_mgL		
manganese_mgL				anionremarks		
<b>Remarks</b>						

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



# **C-108 Item VII.5 - Produced Water Data** **Source and Disposal Zone - San Andres**

## **SAN ANDRES**

<b>API No.</b> 3000510520		<b>Lab ID</b>	
<b>Well Name</b> CATO 001		<b>Sample ID</b> 5746	
		<b>Sample No</b>	
<b>Location</b> ULSTR 03 08 S 30 E		<b>Lat / Long</b> 33.64295 -103.87372	
660 S 660 W		<b>County</b> Chaves	
<b>Operator (when sampled)</b>			
Field CATO		Unit M	
Sample Date 11/10/1966		Analysis Date	
Sample Source WELLHEAD		Depth (if known)	
Water Type			
ph	6.3	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	266671	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	167000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	521
iron_mgL		sulfate_mgL	330
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

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



# **C-108 Item VII.5 - Produced Water Data** **Source and Disposal Zone - San Andres**

## **SAN ANDRES**

<b>API No.</b> 3000510522		<b>Lab ID</b>	
<b>Well Name</b> CATO SAN ANDRES UNIT 032		<b>Sample ID</b>	5691
		<b>Sample No</b>	
<b>Location</b> ULSTR 10 08 S 30 E	<b>Lat / Long</b> 33.63569		-103.87385
1980 N 660 W		<b>County</b>	Chaves
<b>Operator (when sampled)</b>			
	Field CATO	Unit	E
<b>Sample Date</b> 11/10/1966	<b>Analysis Date</b>		
<b>Sample Source</b> WELLHEAD		<b>Depth (if known)</b>	
<b>Water Type</b>			
ph 6.5	alkalinity_as_caco3_mgL		
ph_temp_F	hardness_as_caco3_mgL		
specificgravity	hardness_mgL		
specificgravity_temp_F	resistivity_ohm_cm		
tds_mgL 251985	resistivity_ohm_cm_temp_		
tds_mgL_180C	conductivity		
chloride_mgL 162000	conductivity_temp_F		
sodium_mgL	carbonate_mgL		
calcium_mgL	bicarbonate_mgL		390
iron_mgL	sulfate_mgL		325
barium_mgL	hydroxide_mgL		
magnesium_mgL	h2s_mgL		
potassium_mgL	co2_mgL		
strontium_mgL	o2_mgL		
manganese_mgL	anionremarks		
<b>Remarks</b>			

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



e-Permitting

C-108 Submittal

Attachment Category

Seismicity Analysis

For High Volume Devonian Wells

**NOT APPLICABLE TO THIS WELL**

e-Permitting

C-108 Submittal

Attachment Category

Operational Details

## **C-108 ITEM VII**

### **PROPOSED OPERATION**

The Sun State SWD No.1 has been operated briefly as a private, on-lease disposal well for Stevenson's area operations – having this option for disposal is essential to continued operations of the low-rated wells. Source and disposal waters are from the same San Andres formation. (Samples are included in this application.)

The system will be closed utilizing delivery via pipeline from 3 wells currently serviced by the SWD.

Injection pressure will be 714 psi surface injection pressure with rates averaging less than 500 bwpd; never expected to be greater than approximately 1000 bwpd. In the future, Stevenson Oil Company, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required although, this is an unlikely scenario. This would be submitted to OCD as a request to increase the injection pressure.

Routine maintenance will be ongoing and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will not be manned but will be checked on by company or contract personnel 2 or 3 times per week during standard field operations. The facility will be available for inspections at any time deemed necessary by OCD.



Operator:

**Stevenson Oil Company**

**WELLBORE DIAGRAM**

Well Name: **Sun State #001**

Pool: **SWD; San Andres**

Formation: **San Andres**

Location: **660' FSL & 660' FWL, Unit M Sec 36, T 7S; R 30E**

County: **Chaves**

State: **NM**

API #:

**30-005-20558**

GR Elev: **4162**

Spud Date:

**11/8/1976**

KB :

**0**

Orig. Operator :

KB Elev: **4162**

Orig. Well Name :

**Sun State #001**

