

Additional Information (Revised C-108)

Received 05/01/2026

Designated SWD-2651 - Revised C-108

Revised March 23, 2017

RECEIVED: 05/01/2026	REVIEWER:	TYPE:	APP NO: pEG2512757329
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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: Ruthco Oil, LLC **OGRID Number:** 230835
Well Name: East Hobbs San Andres #104 SWD **API:** 30-025-07950
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	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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

4/28/2026 5/01/2026
 Date

903-367-5950
 Phone Number

ben@sosconsulting.us
 e-mail Address



May 1, 2026

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

Attn: Mr. Phillip Goetze, UIC Manager/ Engineering

**Re: C-108 Supplemental Information for Ruthco Oil, LLC's Hobbs East SA #104 SWD,
API 30-025-07950, Lea County, New Mexico**

Dear Mr. Goetze,

On behalf of Ruthco Oil, LLC, SOS Consulting, LLC submits this supplemental C-108 package for the Hobbs East San Andres #104 SWD (API 30-025-07950), Lea County, New Mexico. This submittal completes and updates the original February 2025 filing and incorporates guidance provided by your office regarding the path toward reinstatement of the subject well.

The enclosed information addresses prior comments and provides updated engineering, geological, water compatibility, and wellbore documentation supporting continued disposal operations in the San Andres Formation.

Based on the information provided, the Hobbs East San Andres #104 SWD represents a mechanically sound and historically proven disposal system. The San Andres Formation in this area has demonstrated the capacity to accept injected fluids under low-pressure conditions over an extended operational history. The wellbore configuration provides appropriate isolation of injection intervals, and available water quality data indicate compatibility between source waters and the disposal zone.

No conditions have been identified that would suggest an increased risk of fluid migration or adverse geochemical interaction under proposed operating conditions. Accordingly, reinstatement of disposal operations is considered technically appropriate.

If you or your staff require any additional information or have questions, please do not hesitate to contact me.

Respectfully submitted,

Ben Stone, Partner
SOS Consulting, LLC
Agent for Ruthco Oil, 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: **Ruthco Oil, LLC**
ADDRESS: **P.O. Box 1212, Eunice, NM 88231**
CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (936) 367-5950**
- III. WELL DATA: **All Well Data and Applicable Wellbore Diagrams and Packer Info 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 16 Active and 5 P&A wells in the subject AOR which penetrate the proposed San Andres interval.** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. **The following data is ATTACHED** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 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 of up to 10,000 gals. 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 are on file with OCD.**
- *XI. **There are more than 100 water wells within one mile of the proposed SWD well per OSE data. 1 representative analysis is ATTACHED.**
- XII. **An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. **"Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 2 offset lessees and/or operators within ONE mile plus offset BLM minerals - all have been noticed. Location is PRIVATE/ FEE.**
- 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 Ruthco Oil, LLC**

SIGNATURE:  DATE: **5/01/2026**

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 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 details on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

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

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

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

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

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-07950		² Pool Code 96121		³ Pool Name SWD; San Andres	
⁴ Property Code 301533		⁵ Property Name Hobbs East San Andres SWD			⁶ Well Number 104
⁷ OGRID No. 230835		⁸ Operator Name Ruthco Oil, LLC			⁹ Elevation 3615'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	30	18S	39E		1980'	FNL	2310'	FWL	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
same									

¹² Dedicated Acres n/a	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION 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 an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
	Signature: <u>Ben Stone</u> Printed Name: Ben Stone	Date: <u>4/22/2026</u>
	E-mail Address: <u>ben@sosconsulting.us</u>	
	¹⁸ SURVEYOR CERTIFICATION 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.	
Date of Survey: <u>May 17, 1966</u>		Signature and Seal of Professional Surveyor: R.A. Estes
Certificate Number: <u>544</u>		

C-108 - Items III, IV, V

WELL DATA Section Header

Item III - Subject Well Data

1. Wellbore Diagram – CURRENT
2. Wellbore Diagram – PROPOSED
3. Original Permit, R-3500
4. Response from OCD to Ruthco's original C-108 filing, November 2025

Item IV – Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile radius.

21 wells penetrate the proposed injection interval; 16 active and 5 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...

CURRENT WELLBORE DIAGRAM

HOBBS EAST SWD WELL F-30

1980' FNL & 2310' FWL

SEC 30-T18S-R39E

DF: 3615'

GL: 3606'

API# 30-025-07950

Circ. to Surface
w/ 900 sx

8 5/8" CSG @ 1883'

118 jts 2 7/8" DuOline tbg
2 jts 2 3/8" DuOline tbg

SQZ'D PERFS: 3808'-3834'

SQZ'D PERFS: 3962'-3992'

Circ. to Surface
w/ 1200 sx

TOL @ 4317'

4" Pkr @ 4380'

5 1/2" csg @ 4474'

Perf 4420-4470'

SQZ'D PERFS: 4500' w/100sx

SQZ'D Holes @ 4550, 4830' w/75sx June 2001

TOC orig 5200'

PERFS 5105'-5188': 20 Holes

PERFS 5248'-5261': 12 Holes

25 jts 2 7/8" tbg fish @ 5390'

PERFS 5980'-6054': 25 Holes

PBTD @ 6120'

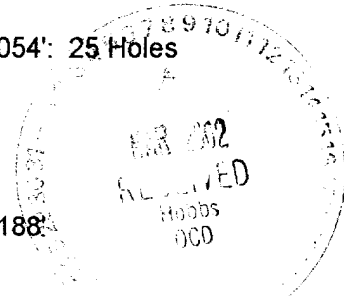
CIBP @ 6130'

PERFS 6166'-6188'

CIBP @ 6273'

4" LINER @ 6480'

PERFS 6415'-6443'



Drawn	BY
11/15/00	CDH
6/20/01	CDH
11/12/01	CDH

Perforate San Andres P-1
RICE OPERATING COMPANY
 122 West Taylor
 Hobbs, NM 88240

Hobbs East SWD F-30
 1980' FNL & 2310' FWL
 SEC 30, T18S, R39E
 Lea County New Mexico



WELL SCHEMATIC - CURRENT
Hobbs East SA #104 SWD

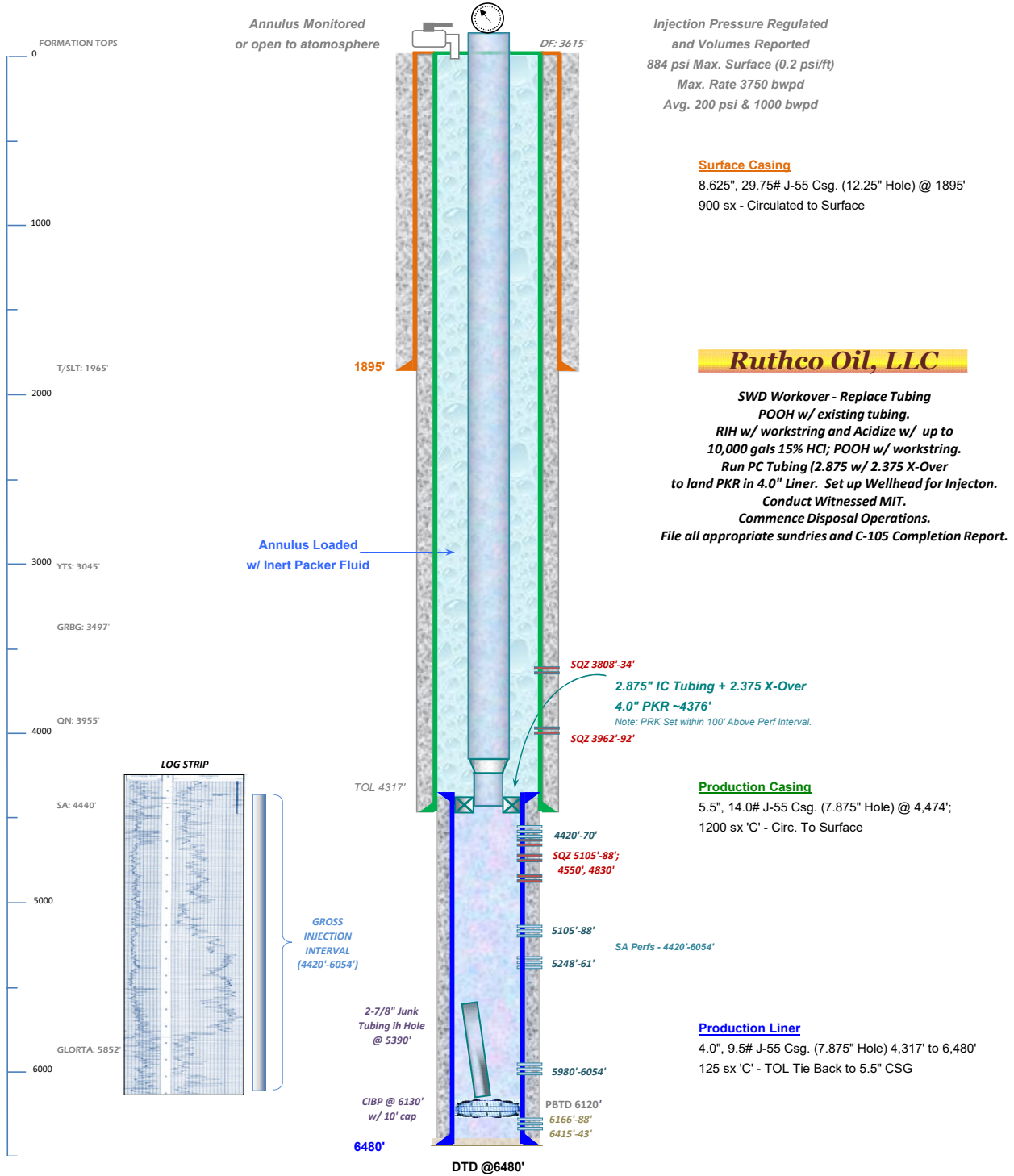
SWD; San Andres (96121)

API 30-025-07950

Reentry Dt: 11/25/1968

1980' FNL & 2310' FWL, SEC. 30-18S-R39E
LEA COUNTY, NEW MEXICO

Config SWD Dt: 12/12/1968



Injection Pressure Regulated
and Volumes Reported
884 psi Max. Surface (0.2 psi/ft)
Max. Rate 3750 bwpd
Avg. 200 psi & 1000 bwpd

Surface Casing
8.625", 29.75# J-55 Csg. (12.25" Hole) @ 1895'
900 sx - Circulated to Surface

Ruthco Oil, LLC

SWD Workover - Replace Tubing
POOH w/ existing tubing.
RIH w/ workstring and Acidize w/ up to
10,000 gals 15% HCl; POOH w/ workstring.
Run PC Tubing (2.875 w/ 2.375 X-Over
to land PKR in 4.0" Liner. Set up Wellhead for Injecton.
Conduct Witnessed MIT.
Commence Disposal Operations.
File all appropriate sundries and C-105 Completion Report.

Production Casing
5.5", 14.0# J-55 Csg. (7.875" Hole) @ 4,474';
1200 sx 'C' - Circ. To Surface

Production Liner
4.0", 9.5# J-55 Csg. (7.875" Hole) 4,317' to 6,480'
125 sx 'C' - TOL Tie Back to 5.5" CSG

Drawn by: Ben Stone, 3/17/2026 ©



String	Size (in)	Weight (lb/ft)	Grade	Hole Size	Set Depth (ft)	Cement	
Surface	1	9.675	29.75	12.25	1895	900 sx	
Intermediate	2	5.5	14.00	J-55	7.875	4474	1200 sx
Prod. Liner	3	4	26	J-55	7.875	6480	125 sx
Tubing	4	2.875/2.375	9.5	N-80	5.012/3.548	4376	PKR

Entered September 15, 1968
A.S.P.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3844
Order No. R-3500

APPLICATION OF RICE ENGINEERING
& OPERATING, INC., FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 21, 1968,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of September, 1968, the Commission,
a quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Rice Engineering & Operating, Inc.,
is the owner and operator of the Hobbs East San Andres SWD Well
No. F-30 (formerly the Humble Oil & Refining Company S. E. Cain
Well No. 1), located in Unit F of Section 30, Township 18 South,
Range 39 East, NMPM, Hobbs East San Andres Pool, Lea County,
New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the Queen, San Andres, and
Glorieta formations in the perforated intervals at approximately
3808-3834, 3962-3992, 5248-5261, and 5980-6054 feet.

(4) That the injection should be accomplished through 2 1/2-
inch plastic-lined tubing; that the casing-tubing annulus should
be filled with an inert fluid; and that a pressure gauge should
be attached to the annulus or the annulus left open at the surface
in order to determine leakage in the tubing or casing.

-2-

CASE No. 3844
Order No. R-3500

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Rice Engineering & Operating, Inc., is hereby authorized to utilize its Hobbs East San Andres SWD Well No. F-30 (formerly the Humble Oil & Refining Company S. E. Cain Well No. 1), located in Unit F of Section 30, Township 18 South, Range 39 East, NMPM, Hobbs East San Andres Pool, Lea County, New Mexico, to dispose of produced salt water into the Queen, San Andres, and Glorieta formations, injection to be through 2 1/2-inch tubing into the perforated intervals from approximately 3962-3992, 5248-5261, and 5980-6064 feet;

PROVIDED HOWEVER, that prior to said utilization, the applicant shall cause the perforated interval from 3808 feet to 3834 feet in the subject well to be squeezed with a minimum of 75 sacks of cement and the 4-inch liner set at 6480 feet to be perforated above 5200 feet and additional cementing of said liner effected to ensure the annular space is cemented from said liner shoe back into the 5 1/2-inch casing set at 4464 feet;

PROVIDED FURTHER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or casing.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan-Grisham
Governor

Melanie A. Kenderdine
Cabinet Secretary

Ben Shelton
Deputy Secretary

Erin Taylor
Deputy Secretary

Albert C. S. Chang
Division Director
Oil Conservation Division



BY ELECTRONIC MAIL ONLY

Doris Ruth
Ruthco Oil, LLC
Email contact: doristruth50@icloud.com

Re: Review of Application for Reinstate Injection Authority for Hobbs East S A No. 104
Subject Well: Hobbs East S A No. 104 (API No. 30-025-07950)
1980 feet from North line and 2310 feet from West line (Unit F), Sec 30, T18S, R39E,
NMPM, Lea County, New Mexico
Original Injection Authority: Hearing Order No. R-3500; authority lapsed September 2018
Permitted Interval: Queen, San Andres and Glorieta formations

Greetings Ms. Ruth:

Reference is made to your application (Application tracking number pEG2512757329) submitted on behalf of Ruthco Oil, LLC (OGRID 230835; "Ruthco") received by the Oil Conservation Division ("OCD") on January 28, 2025, for the subject well. Ruthco applied for reinstatement of the injection authority for the subject well which expired under 19.15.26.12(C)(1) New Mexico Administrative Code ("NMAC") following a continuous one-year period without injection. The abandonment of injection authority officially occurred in 2018 while the filing of Form C-115 for the subject well stops at the end of 2019. Review of OCD records did not reveal a written request for the extension of authority as provided in 19.15.26.12(C)(2) NMAC.

OCD reviewed the application's content and has determined the application is administratively incomplete and cannot be considered in the effort to renew a UIC permit (SWD order) for the subject well. The most significant deficiency is the lack of Form C-108 and the accompanying Administrative Application Checklist. The Form C-108 is required by regulation and contains a list of subject matters that must be provided in the application. Please review its content as there are items from the original submittal by Ruthco that can be incorporated in a revised application. The content of the Form C-108 is also detailed in the NMAC.

Application for Authority to Inject for the Hobbs East S A No. 104
Ruthco Oil, LLC
Page 2 of 3

TITLE 19 NATURAL RESOURCES AND WILDLIFE
CHAPTER 15 OIL AND GAS
PART 26 INJECTION

19.15.26.8 INJECTION OF FLUIDS INTO RESERVOIRS:

B. Method of making application.

(1) *The operator shall apply for authority to construct and operate an injection well by submitting form C-108 complete with all attachments to the division.*

(2) *The applicant shall furnish, by certified or registered mail, a copy of the application to each owner of the land surface on which each injection or disposal well is to be located and to each leasehold operator and other affected persons, as defined in Subsection A of 19.15.2.7 NMAC, within any tract wholly or partially contained within one-half mile of the well.*

C. Administrative approval.

(1) *If the application is for administrative approval rather than for a hearing, it shall be accompanied by a copy of a legal notice the applicant published in a newspaper of general circulation in the county in which the proposed injection well is located. The legal notice shall include:*

(a) the applicant's name, address, phone number and contact party;

(b) the injection well's intended purpose, with the exact location of single wells or the section, township and range location of multiple wells;

(c) the formation name and depth with expected maximum injection rates and pressures; and

(d) a notation that interested parties shall file objections or requests for hearing with the division within 15 days.

(2) *The division shall not approve an application for administrative approval until 15 days following the division's receipt of form C-108 complete with all attachments including evidence of mailing as required under Paragraph (2) of Subsection B of 19.15.26.8 NMAC and proof of publication as required by Paragraph (1) of Subsection C of 19.15.26.8 NMAC.*

Please also note the Form C-108 includes a requirement for notification that requires sending copies of the application to "affected persons" within the ½-mile Area of Review and advertisement of the application in a local newspaper located in the county where the well is located. The definition of an "affected person" is as follows:

19.15.2.7 DEFINITIONS: *These definitions apply to 19.15.2 NMAC through 19.15.39 NMAC.*

A. Definitions beginning with the letter "A".

(8) *"Affected persons" means the following persons owning interests in a spacing unit or other identified tract:*

(a) the operator, as shown in division records, of a well on the tract, or, if the tract is included in a division-approved or federal unit, the designated unit operator;

(b) in the absence of an operator, or with respect to an application wherein the operator of the spacing unit or identified tract is the applicant, each working 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 files the application;

Application for Authority to Inject for the Hobbs East S A No. 104
Ruthco Oil, LLC
Page 3 of 3

(c) as to any tract or interest therein that is not subject to an existing oil and gas lease, each 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; and

(d) if the United States or state of New Mexico owns the mineral estate in the spacing unit or identified tract or any part thereof, the BLM or state land office, as applicable; or 19.15.2 NMAC 2

(e) if the mineral estate in the spacing unit or identified tract or any part thereof is tribal land, the BLM, the United States department of the interior, bureau of Indian affairs, and the relevant tribe.

Examples of Form C-108 applications that are complete can be located on the OCD website. These are found on the webpage OCD Online:

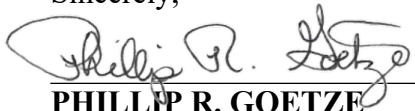
<https://ocdimaging.emnrd.nm.gov/Imaging/AEOrderCriteria.aspx>

Select the Order Type "Salt Water Disposal – (SWD)" and do not use an order number (leave blank) then search. There will appear links to orders and the associated C-108 application.

OCD will retain the original tracking number pEG2512757329 and offer the opportunity to submit a new application package. This new application package would be sent using the OCD Engineering email and used for the effort to renew the UIC permit.

Finally, if Ruthco is unable to complete the application package for resubmission, then Ruthco should consider obtaining assistance from a third-party consultant that prepares this type of document. The examples cited earlier are prepared by such consultants and contain contact information. Please review this correspondence and provide OCD with your plans to proceed with submitting a complete application.

Sincerely,


PHILLIP R. GOETZE

Date: 11/10/2025

PRG/prg

cc: Case file for Order No. R-3500
Well file 30-025-07950

ATTACHMENTS:

- Copy of PDF and Word document of Form C-108
- Copy of PDF and Word document of Administrative Application Checklist



Weatherford®

Packer Systems

Arrowset I-X, I-X 10K, and I-X HP Mechanical Packers

Weatherford's Arrowset I-X, I-X 10K, and I-X HP mechanical packers are versatile, field-proven retrievable double-grip packers for most production, stimulation, and injection. The packers can be set with tension or compression.

A large internal bypass reduces the swabbing effect during run-in and retrieval and closes securely when the packer is set. During release, the bypass is opened to equalize the pressure before the upper slips are released. A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips.

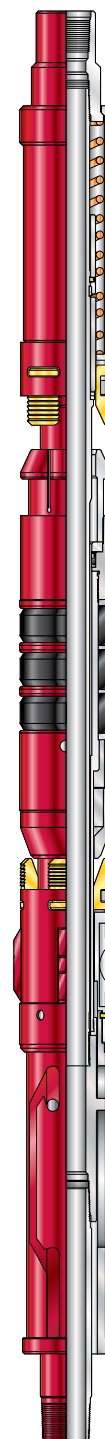
The I-X 10K packer has all the features of the I-X packer and can withstand 10,000 psi (69 MPa) of differential pressure above or below. The I-X HP packer can withstand 7,500 psi (52 MPa) of differential pressure above or below.

Applications

- Production
- Pumping
- Injection
- Fiberglass tubing
- Zonal isolation

Features, Advantages and Benefits

- The design holds high differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression, tension, or wireline, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The full opening enables unrestricted flow and the passage of wireline tools and other packer systems.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.





Arrowset I-X, I-X 10K, and I-X HP Mechanical Packers

Specifications

Casing				Packer					
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection (in.)	1-X 10K and I-X HP	Wireline Set	1-X
		Minimum	Maximum						
2-7/8 73.0	6.40 to 6.50 9.52 to 9.67	2.376 60.33	2.441 62.00	2.250 57.15	0.625 15.88	1.05 EU ¹ 10 RD ²	—	—	603-25
3-1/2 88.9	7.70 to 10.20 11.46 to 15.18	2.922 74.22	3.068 77.93	2.781 70.64	1.250 31.75	1.90 NUE ³ 10 RD	—	—	603-30
4 101.6	9.50 to 11.00 14.14 to 16.37	3.476 88.29	3.548 90.12	3.250 82.55	1.500 38.10	1.90 NUE 10 RD	—	—	603-40
4-1/2 114.3	9.50 to 13.50 14.14 to 20.09	3.920 99.57	4.090 103.89	3.750 95.25	1.938 49.23	2-3/8 EUE ⁴ 8 RD	603-45-H	603-45-HWS	603-45
	13.50 to 15.10 20.09 to 22.47	3.826 97.18	3.920 99.57	3.680 93.47			603-46-H	603-46-HWLS	603-46
5 127.0	11.50 to 15.00 17.11 to 22.32	4.408 111.96	4.560 115.82	4.125 104.78	1.938 49.23	2-3/8 EUE 8 RD	603-50-H	603-50-HWLS	603-50
	18.00 to 20.80 26.79 to 30.95	4.156 105.56	4.276 108.61	4.000 101.60			603-52-H	603-52-HWLS	603-52
5-1/2 139.7	13.00 to 17.00 19.35 to 25.30	4.892 124.26	5.044 128.12	4.625 117.48	1.938 49.23	2-3/8 EUE 8 RD	603-55-H	—	603-55
	14.00 to 20.00 20.83 to 29.76	4.882 124.00	5.991 152.17					2.000 50.80	603-55-HWLS
	20.00 to 23.00 29.76 to 34.23	4.670 118.62	4.778 121.36	4.500 114.30	1.938 49.23		603-57-H	603-57-HWLS	603-57
	9.00 to 13.00 13.39 to 19.35	5.044 128.12	5.192 131.88	4.875 123.83	2.375 60.33	2-7/8 EUE 8 RD	—		603-62
	13.00 to 14.00 19.35 to 20.83	5.012 127.30	5.044 128.12	4.500 114.30			603-58-H	—	603-58
	15.50 to 17.00 23.07 to 25.30	4.778 121.36	4.950 125.73	4.750 120.65			—		603-56
	20.00 to 23.00 29.76 to 34.23	4.670 118.62	4.778 121.36	4.500 114.30			603-56-H	603-56-HWLS	603-56
20.00 to 23.00 29.76 to 34.23	4.670 118.62	4.778 121.36	4.500 114.30	603-59-H			603-5-HWLS	603-59	
6-5/8 168.3	20.00 to 24.00 29.76 to 35.72	5.921 150.39	6.094 154.79	5.750 146.05	2.500 63.50	3-1/2 EU 8 RD	—	603-68	

¹External upset
²Round
³Nonupset end
⁴External upset end

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SAN ANDRES Interval 4205'			21 Wells Penetrate Proposed Interval.							
API	Current Operator	Well Name	Type	Status	Lease	ULSTR	Spud Dt.	Depth (V)	Plug Dt.	
<u>Subject Well</u>										
30-025-07950	RUTHCO OIL, LLC	HOBBS EAST S A #104	SWD	Active	Private	F-30-18S-39E	11/25/1968	6480'	12/31/1999	
SWD; San Andres Perfs: 4420'-6054'; 8-5/8' (12.25" hole) @ 1883' w/900 sx circ; 5-1/2" (8.25" hole) @ 4474' w/1200 sx circ; 4" LNR (5" hole) @ 6480' w/cmt to 5.5" tie-back.										
30-025-07938	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Private	N-19-18S-39E	1/1/2000	4040'	1/1/2000	
DOES NOT PENETRATE										
30-025-07953	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #004	Oil	P&A-R	Private	E-30-18S-39E	1/1/2000	4483'	1/1/2000	
P&A diagram attached.										
30-025-07955	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #002	Oil	P&A-R	Private	G-30-18S-39E	1/1/2000	4478'	1/1/2000	
P&A diagram attached.										
30-025-37814	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #207	Oil	Active	Private	H-30-18S-39E	8/12/2006	4613'	12/31/1999	
SAN ANDRES Perfs: 4498'-4599'; 8-5/8' (12.25" hole) @ 1860' w/ 700 sx circ; 5-1/2" (8.25" hole) @ 4613' w/ 950 sx circ.										
30-025-07954	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #109	INJECTOR	Active	Private	H-30-18S-39E	5/12/1997	4650'	12/31/1999	
SAN ANDRES Perfs: 4506'-4612'; 8-5/8' (12.25" hole) @ 1910' w/ 1400 sx circ; 5-1/2" (8.25" hole) @ 4470' w/ 400 sx circ.; 4.5" LNR 4367'-4650' w/ 50 sx tie-back.										
30-025-39222	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #210	Oil	Active	Private	H-30-18S-39E	1/4/2009	4615'	12/31/1999	
SAN ANDRES Perfs: 4473'-4590'; 8-5/8' (12.25" hole) @ 1901' w/ 930 sx circ; 5-1/2" (8.25" hole) @ 4613' w/ 690 sx circ.										
30-025-37815	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #407	Oil	Active	Private	I-30-18S-39E	7/15/2006	4610'	12/31/1999	
SAN ANDRES Perfs: 4434'-4590'; 8-5/8' (12.25" hole) @ 1861' w/ 700 sx circ; 5-1/2" (8.25" hole) @ 4610' w/ 1000 sx circ.										
30-025-36896	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #308	Oil	Active	Private	I-30-18S-39E	11/1/2004	4615'	12/31/1999	
SAN ANDRES Perfs: 4496'-4600'; 8-5/8' (12.25" hole) @ 1920' w/ 920 sx circ; 5-1/2" (8.25" hole) @ 4615' w/ 890 sx circ.										
30-025-34578	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #408	Oil	Active	Private	I-30-18S-39E	6/6/1999	4615'	12/31/1999	
SAN ANDRES Perfs: 4446'-4601'; 8-5/8' (12.25" hole) @ 1920' w/ 775 sx circ; 5-1/2" (8.25" hole) @ 4615' w/ 585 sx circ.										
30-025-40322	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #305	Oil	Active	Private	J-30-18S-39E	2/1/2012	4705'	12/31/1999	
SAN ANDRES Perfs: 4498'-4609'; 8-5/8' (12.25" hole) @ 1900' w/ 960 sx circ; 5-1/2" (8.25" hole) @ 4705' w/ 770 sx circ.										
30-025-07956	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #307	Oil	TA	Private	J-30-18S-39E	12/31/1999	4702'	12/31/1999	
EXPIRED TA - SAN ANDRES Perfs: 4484'-4604'; 8-5/8' (12.25" hole) @ 1896' w/ 1020 sx circ; 5-1/2" (8.25" hole) @ 4390' w/ 500 sx circ; 4.0" 0-4700' w/ 450 sx circ to surface.										
30-025-23420	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Private	J-30-18S-39E	1/1/2000	7512'	1/1/2000	
P&A diagram attached.										
30-025-24338	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #406	Oil	Active	Private	J-30-18S-39E	12/30/1972	4800'	12/31/1999	
SAN ANDRES Perfs: 4430'-4582'; 13-3/8" (17.0" hole) @ 344 w/ 375 sx circ; 9-5/8" (11.0" hole) @ 3150' w/ 150 sx TOC 849' temp; 5-1/2" (7.875" hole) @ 4850' w/ 1150 sx circ.										
30-025-36832	PENROC OIL CORP	EAST HOBBS SAN ANDRES UNIT #505	Oil	P&A-R	Private	J-30-18S-39E	10/18/2004	4615'	10/8/2024	
P&A diagram attached.										
30-025-34513	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #507	Oil	Active	Private	J-30-18S-39E	10/13/1998	4623'	12/31/1999	
SAN ANDRES Perfs: 4494'-4610'; 8-5/8' (12.25" hole) @ 1828' w/ 930 sx circ; 5-1/2" (8.25" hole) @ 4623' w/ 485 sx circ.										
30-025-07951	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #002	Oil	P&A-R	Private	K-30-18S-39E	1/1/2000	4479'	1/1/2000	
P&A diagram attached.										

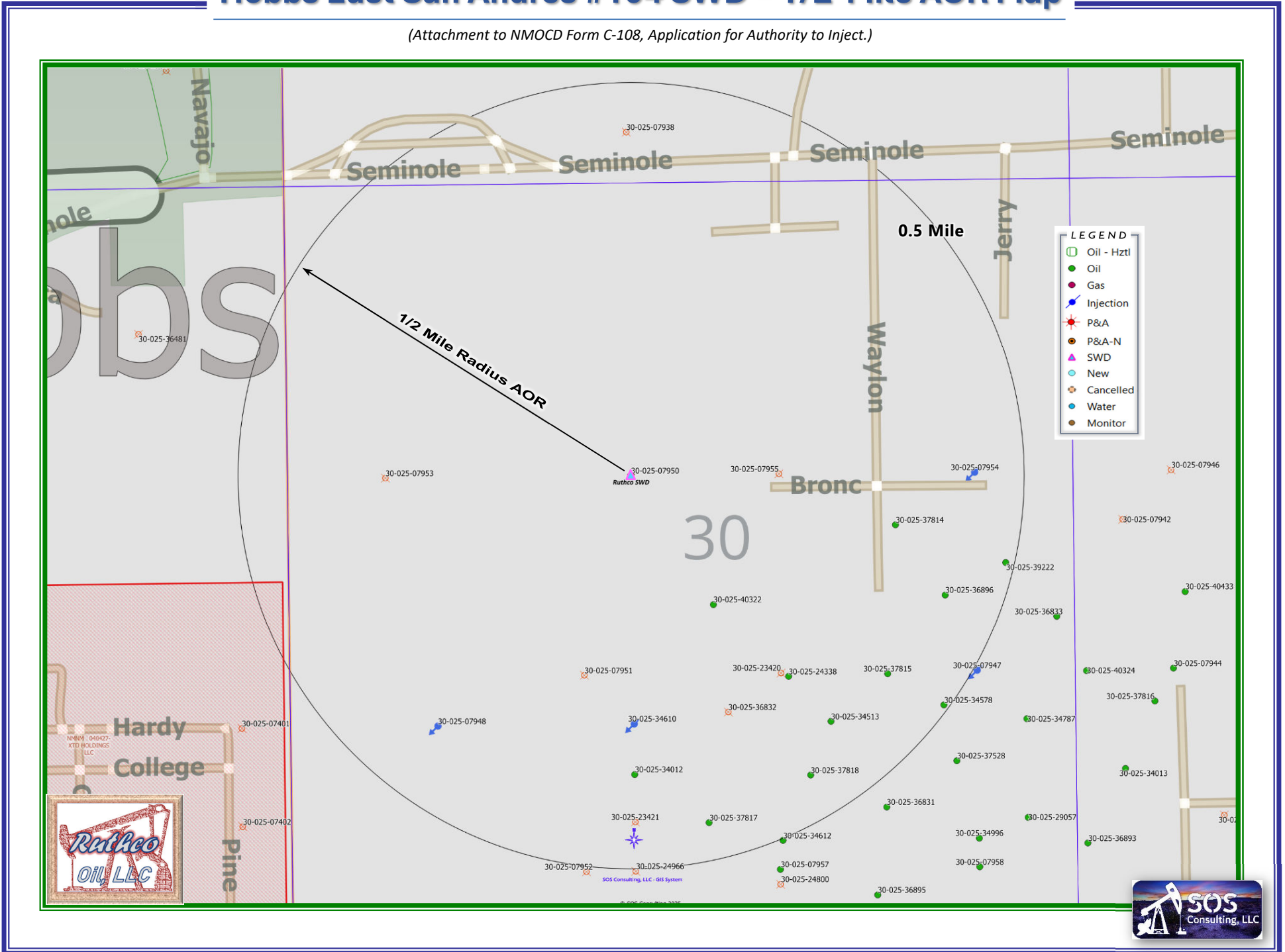
30-025-34610	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #504	INJECTOR	Active	Private	K-30-18S-39E	5/28/1999	4625'	12/31/1999
<i>SAN ANDRES Perfs: 4531'-4614'; 8-5/8' (12.25" hole) @ 1918' w/ 825 sx circ; 5-1/2" (8.25" hole) @ 4625' w/ 585 sx circ.</i>									
30-025-07948	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #502	INJECTOR	Active	Private	L-30-18S-39E	9/21/1953	4462'	12/31/1999
<i>SAN ANDRES Openhole: 4449'-4650' PB; 8-5/8' (12.25" hole) @ 1788' w/ 900 sx circ; 5-1/2" (8.25" hole) @ 4650' w/ 200 sx, TOC 3751' temp.</i>									
30-025-34012	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #604	Oil	Active	Private	N-30-18S-39E	6/28/1997	4716'	12/31/1999
<i>SAN ANDRES Perfs: 4480'-4578'; 8-5/8' (12.25" hole) @ 1860' w/ 725 sx circ; 5-1/2" (8.25" hole) @ 4716' w/ 615 sx circ.</i>									
30-025-23421	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Private	N-30-18S-39E	1/1/2000	320'	1/1/2000
<i>DRY HOLE - PLUGGED IN RED BEDS.</i>									
30-025-37818	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #607	Oil	Active	Private	O-30-18S-39E	8/2/2006	4610'	12/31/1999
<i>SAN ANDRES Perfs: 4437'-4586'; 8-5/8' (12.25" hole) @ 1864' w/ 950 sx circ; 5-1/2" (8.25" hole) @ 4710' w/ 950 sx circ.</i>									
30-025-37817	Kratos Operating, LLC	EAST HOBBS SAN ANDRES UNIT #605	Oil	Active	Private	O-30-18S-39E	7/24/2006	4564'	12/31/1999
<i>SAN ANDRES Perfs: 4442'-4600'; 8-5/8' (12.25" hole) @ 1864' w/ 500 sx circ; 5-1/2" (8.25" hole) @ 4610' w/ 1000 sx circ.</i>									

SUMMARY: 21 wells penetrate the proposed disposal interval; 5 P&A'd.



Hobbs East San Andres #104 SWD – 1/2-Mile AOR Map

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



C-108 ITEM VI

AOR Well Information

Plugged Well Schematics

There are 5 P&A'd Wells Within the AOR Which Penetrate the Proposed Injection Zone.

(Ordered to match appearance in tabulation.)

30-025-07953

30-025-07955

30-025-23420

30-025-36832

30-025-07951

Well Diagrams and Sundries (as applicable) follow this page...

P&A Diagram

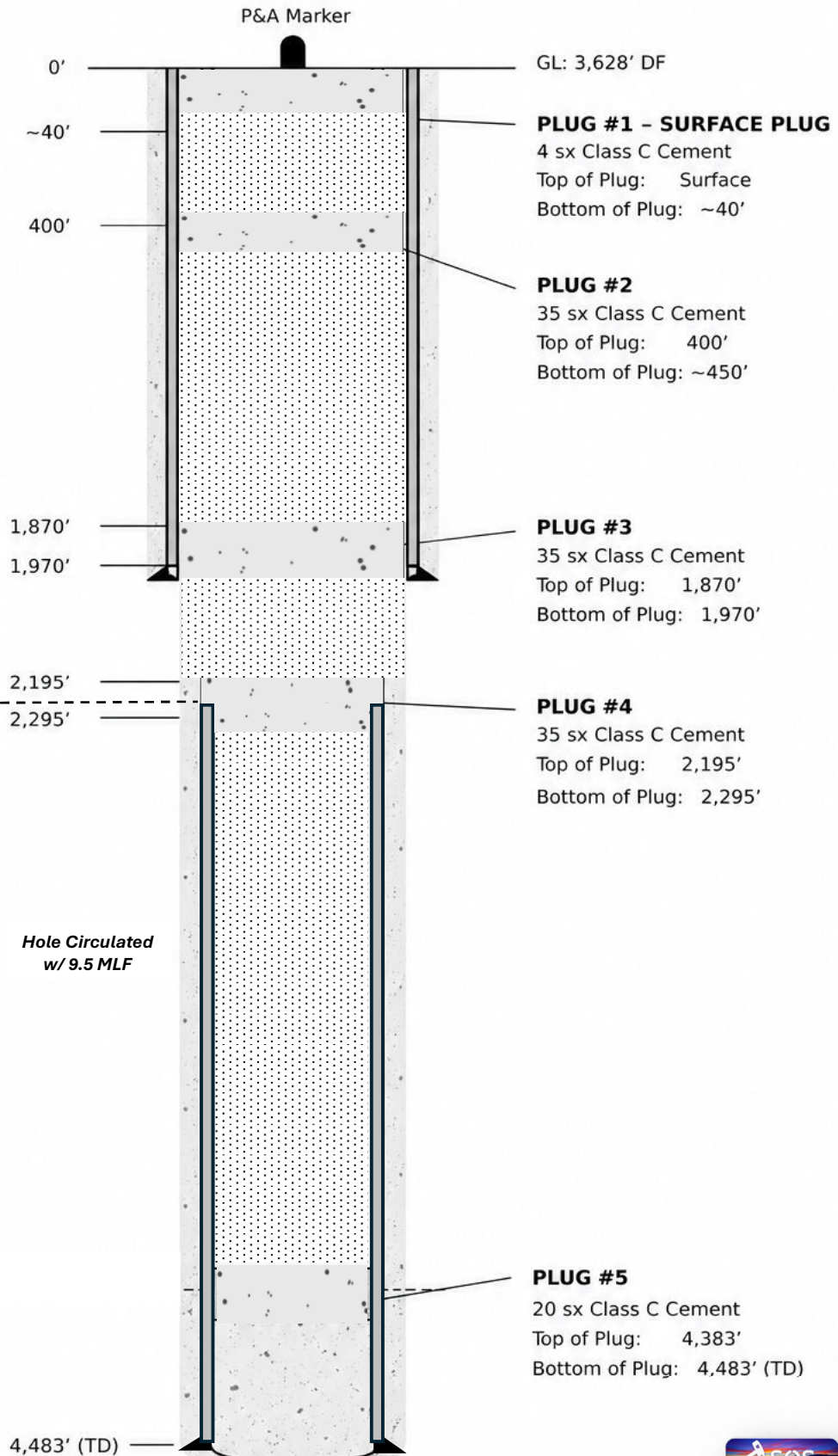
Operator: Exxon Corporation	Location: 30-18S-39E	Plugging Date: Aug. 18, 1977
Well Name & No.: Samuel E. Cain #4	API No.: 30-025-07953	

CASING STRING AND HOLE SIZE

8-5/8" Hole
 8-5/8" 29.75#
 Set @ ~1,921'
 1,000 sx Cement
 Est. Top: Surface

5-1/2" CASING PULLED FROM 2244'

6-3/4" Hole
 5-1/2" 14#
 Set @ 4,483'
 250 sx Cement
 Preflushed
 Parted out &
 Recovered



Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

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OPERATOR		

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
DO NOT USE THIS FORM FOR NOTICES TO PULL OR TO CEMENT OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT TO PUMP OIL FOR OTHER PURPOSES.

7. Unit Agreement Name

1. OIL WELL GAS WELL OTHER

8. Firm or Lease Name

2. Name of Operator

Samuel E. Cain

3. Address of Operator

9. Well No.

Box 1600, Midland, Texas 79702

4

4. Location of Well

10. Field and Pool, or Wildcat

UNIT LETTER E 660 FEET FROM THE West LINE AND 1980 FEET FROM

Hobbs San Andres East

THE North LINE, SECTION 30 TOWNSHIP 18S RANGE 39E N.M.P.M.

12. County

Lea

15. Elevation (Show whether DF, RT, GR, etc.)

3628

Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

- PERFORM REMEDIAL WORK
- TEMPORARILY ABANDON
- PULL OR ALTER CASING
- OTHER
- PLUG AND ABANDON
- CHANGE PLANS
- OTHER

- REMEDIAL WORK
- COMMENCE DRILLING OPNS.
- CASING TEST AND CEMENT JOG
- OTHER
- ALTERING CASING
- PLUG AND ABANDONMENT

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Drilled cement plug and clean out hole to 4383'.
2. Placed 20 sacks cmt. plug at 4383'.
3. 5-1/2" csg. parted 70 jts. down, rec. 2244' csg.
4. Spot 35 sacks plug from 2295' to 2195'.
5. Spot 35 sacks plug from 1970' to 1870'.
6. Spot 35 sacks plug at 400'.
7. 4 Sack plug placed at surface.
8. Marker as required by NMOCC installed.
9. C-103 will be forwarded when location is cleaned and leveled.
10. Well plugged and abandoned 8-2-77.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED A L Clemmer

TITLE Unit Head

DATE Aug. 18, 1977

APPROVED BY A. J. Statton

TITLE OIL & GAS INSPECTOR

DATE Aug 18 1977

CONDITIONS OF APPROVAL, IF ANY:

P&A Diagram

Operator:	Martindale Petroleum Corporation	Location:	G-30-18S-39E	P&A Date:	06-22-74
Well Name & No.:	D.F. Fergason #2		API No.:	30-025-07955	

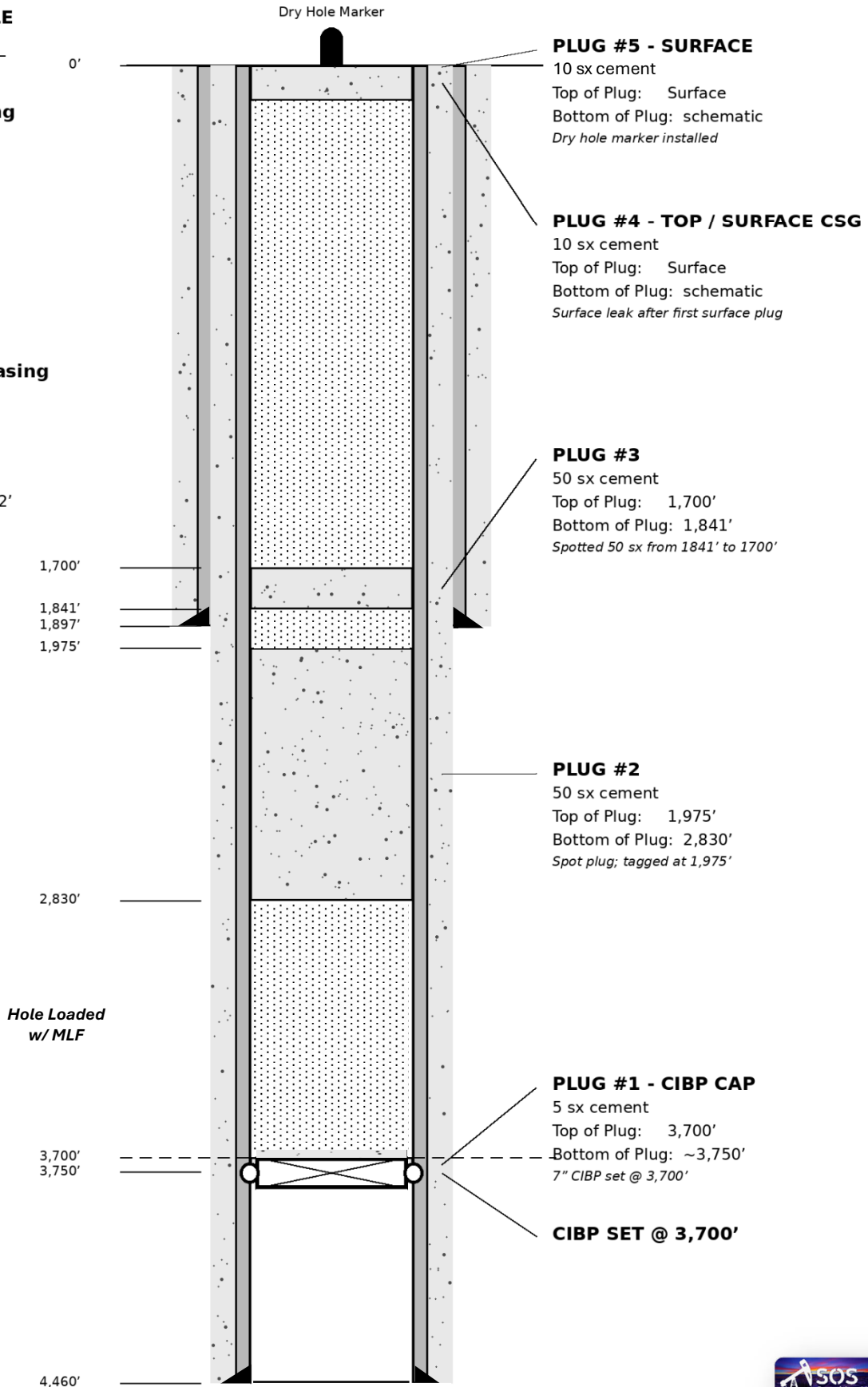
CASING / HOLE DETAILS

Surface Casing

12-1/2" Hole
 9-5/8" 36#
 Set @ 1,897'
 1,400 sx Cement

Production Casing

8-5/8" Hole
 7" 26.40#
 Set @ 4,460'
 450 sx Cement
 Perfs 4,452'-4,462'



Schematic only; plug intervals combined from reported sundry data.

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OPERATOR	

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Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY 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 -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator Martindale Petroleum Corporation	8. Farm or Lease Name D. E. Ferguson
3. Address of Operator P. O. Box 1955 Hobbs, New Mexico 88240	9. Well No. 2
4. Location of Well UNIT LETTER G 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 30 TOWNSHIP 18 S RANGE 39 E NMPM.	10. Field and Pool, or Wildcat Undesignated Queen
15. Elevation (Show whether DF, RT, GR, etc.) Unknown	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Ran and set 7" CIBP @ 3700' and capped w/5 sx. cmt.
2. Ran 2-7/8" tbg. and displaced csg. w/MLF. POH w/ 2-7/8" tbg.
3. Cut 7" csg. @ 2830' and POH.
4. Ran 2-7/8" tbg. to 2830' and spotted 50 sx. cmt. plug.
5. POH w/2-7/8" tbg. to 1976' and spotted 50 sx. cmt. plug.
6. Spotted 10 sx. cmt. plug in top of surface. Started leaking out surface some.
7. Drilled out 10 sx. plug @ surface.
8. Ran 2-7/8" tbg. to 1900', did not tag plug.
9. Spotted 50 sx. cmt. plug from 1841 to 1700'. POH w/2-7/8"
10. Pressure tested 9-5/8" to 1000 psi. Held OK.
11. Spotted 10 sx. cmt. plug in surface.
12. Installed dry hole marker.

(Work finished on 6-22-74)

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED *J. Johnson* TITLE President DATE 7-17-74

APPROVED BY *W. H. ...* TITLE Oil ... DATE _____

CONDITIONS OF APPROVAL, IF ANY:

P&A Diagram

Operator:	Hanson Oil Company	Location:	J-30-18S-39E	P&A Date:	03-09-70
Well Name & No.:	Viersen #1	API No.:	30-025-23420		

CASING / HOLE DETAILS

Surface Casing

17-1/2" Hole
 12-3/4" 42#
 Set @ 360'
 225 sx Cement
 Circ. to Surface

Intermediate Casing

11" Hole
 8-5/8" 28#
 Set @ 2,923'
 150 sx Cement
 Top 589' Pulled

8-5/8" CASING PULLED FROM 589'

Heavy Mud Between All Plugs

2923'

4,380'
4,467'

5,791'
5,878'

7,425'
7,512'

Dry Hole Marker

PLUG #7 - SURFACE

10 sx cement
 Top of Plug: 0'
 Bottom of Plug: 8'
 Dry hole marker

PLUG #6

25 sx cement
 Top of Plug: 351'
 Bottom of Plug: 382'
 12-3/4" csg set @ 360'

PLUG #5

25 sx cement
 Top of Plug: 576'
 Bottom of Plug: 640'
 8-5/8" csg shot off @ 598'

PLUG #4

25 sx cement
 Top of Plug: 2,901'
 Bottom of Plug: 2,965'
 8-5/8" csg set @ 2,923'

PLUG #3

25 sx cement
 Top of Plug: 4,380'
 Bottom of Plug: 4,467'
 Top San Andres @ 4,423'

PLUG #2

25 sx cement
 Top of Plug: 5,791'
 Bottom of Plug: 5,878'
 Top Glorieta @ 5,834'

PLUG #1 - DEEP

25 sx cement
 Top of Plug: 7,425'
 Bottom of Plug: 7,512' (TD)
 TD @ 7,512'

TD: 7,512'



Schematic only; depths and plug intervals shown from reported sundry data.

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Form C-103 1 5 17
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY 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 -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Dry Hole	7. Unit Agreement Name
2. Name of Operator Hanson Oil Company	8. Farm or Lease Name Viersen
3. Address of Operator P. O. Box 1515, Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well UNIT LETTER J, 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 30 TOWNSHIP 18-S RANGE 39-E NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 3617' KB	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3-9-70 Upon verbal approval of Mr. Joe Ramey of the NMOCC, Hobbs, the captioned well was plugged and abandoned in the following manner:

All plugs were set in heavy mud.

1. Set 25 sx. plug @ 7425-7512' (T.D. @ 7512')
2. Set 25 sx. plug @ 5791-5878' (Top of Glorietta @ 5834')
3. Set 25 sx. plug @ 4380-4467' (Top of San Andres @ 4423')
4. Set 25 sx. plug @ 2901-2965' (8-5/8" csg. set @ 2923')
5. Set 25 sx. plug @ 576-640' (8-5/8" csg. shot off @ 598')
6. Set 25 sx. plug @ 351-382' (12-3/4" csg. set @ 360')
7. Set 10 sx. plug @ 0-8' and erected a regulation dry hole marker.

The pits were then filled and the location cleaned up prior to inspection by the N.M.O.C.C.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

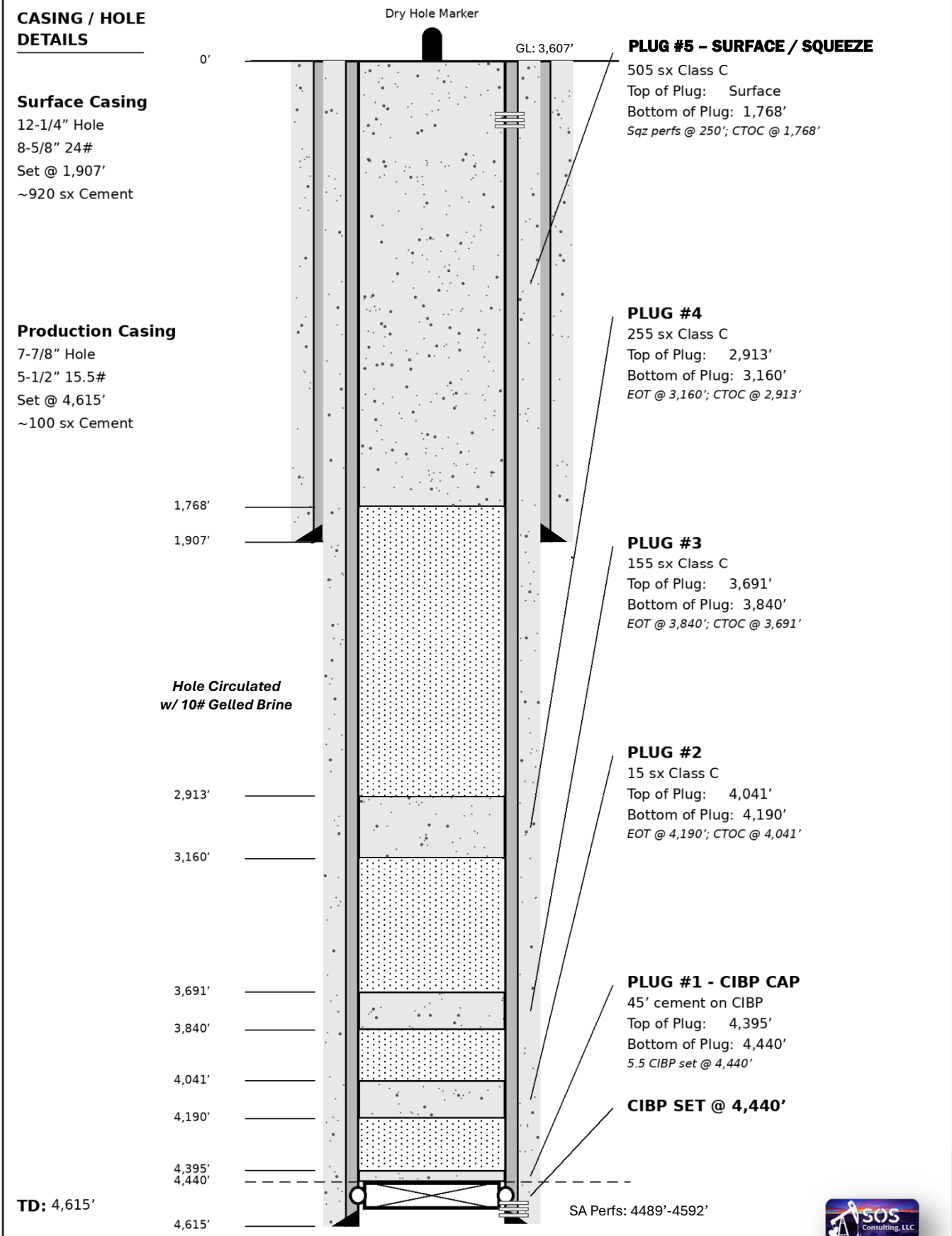
SIGNED Henry F. Johnson TITLE Exec. Vice President DATE 3-13-70

APPROVED BY John W. Runyan TITLE SUPERVISOR DISTRICT DATE MAY 20 1970

CONDITIONS OF APPROVAL, IF ANY:

P&A Diagram

Operator:	Penroc Oil Corporation	Location:	J-30-185-39E	P&A Date:	09-19-24
Well Name & No.:	East Hobbs San Andres Unit #505		API No.:	30-025-36832	



Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462
General Information
Phone: (505) 629-6116

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-36832
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name East Hobbs San Andres Unit
8. Well Number 505
9. OGRID Number 17213
10. Pool name or Wildcat Hobbs; San Andres, East
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3604' GL

SUNDRY 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" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other Injection

2. Name of Operator
Penroc Oil Corporation

3. Address of Operator
PO Box 2769, Hobbs, NM 88241

4. Well Location
Unit Letter J : 1720 feet from the South line and 2340 feet from the East line
Section 30 Township 18S Range 39E NMPM County Lea

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

9/18/2024-9/24/2024

Please see attached for detailed report

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE President DATE October 15, 2024

Type or print name M.Y. Merchant E-mail address: mymerch@penrocoil.com PHONE: 575-492-1236

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

OPERATOR : PENROC OIL CORPORATION
LEASE NAME : EAST HOBBS SAN ANDRES UNIT #505

PLUG DATE : 9/19/24
API # 30-025-36832
COUNTY : LEA
LEASE #

Description of Work:

9/18/24 24HR NOTICE
9/19/24 MIRU PULLING UNIT , N/U BOP TALLEY WORK STRING RIH W/ BIT & SCRAPER TO 4489' POOH S/B
R/U WL RUN GAUGE RING POOH SET 5.5 CIBP @ 4440' POOH DUMP BAIL 45' CMT ON TOP CIBP WOC 6 HRS SECURE
WELL SHUT DOWN.
9/20/24 MONITOR WELL NO BUBBLES OR PRESSURE. RIH W/ TBG TAG PLUG @ 3995' CIRC HOLE W/ 10 # GELLED
BRINE POOH S/B TBG . PRESSURE TEST CSG 500# 30MIN GOOD. R/U WL LOG WELL FROM 3995-SURFACE SHUT DOWN
9/23/24 RIH W/ TBG BREAK CIRC
EOT @ 4190' SPOT 15 SXS CLASS C 14.8# 3.52BBL SLURRY CTOC @ 4041' PUH
EOT @ 3840' SPOT 15SXS CLASS C 14.8 # 3.52BBL SLURRY CTOC @ 3691' PUH
EOT @ 3160' SPOT 25SXS CLASS C 14.8# 5.87BBL SLURRY CTOC @ 2913 POOH S/B WOC 6HRS SECURE WELL
SHUT DOWN
9/24/24 MONITOR WELL NO BUBBLES RIH W/ TBG TAG CMT @ 2900' POOH. R/U WL PERF @ 1957' ESTABLISH INJEC
RATE UNABLE TO INJECT SPOKE W/ KERRY OCD OK'D TO DROP DOWN TO 2007' SPOT 25SXS CLASS C 14.8# 5.87BBL
SLURRY CTOC @ 1768' WOC 6 HRS. RIH TAGGED @ 1749'. POOH L/D TBG. R/U WL RIH PERF @ 250' SQZ 50SXS CLASS
C 11.75BBL SLURRY CIRC CMT THRU 8 5/8 SURFACE CSG TOP OFF 5 1/2 RIG DOWN PULLING UNIT MOVE OFF
10/8/24 INSTALL DRY HOLE MARKER

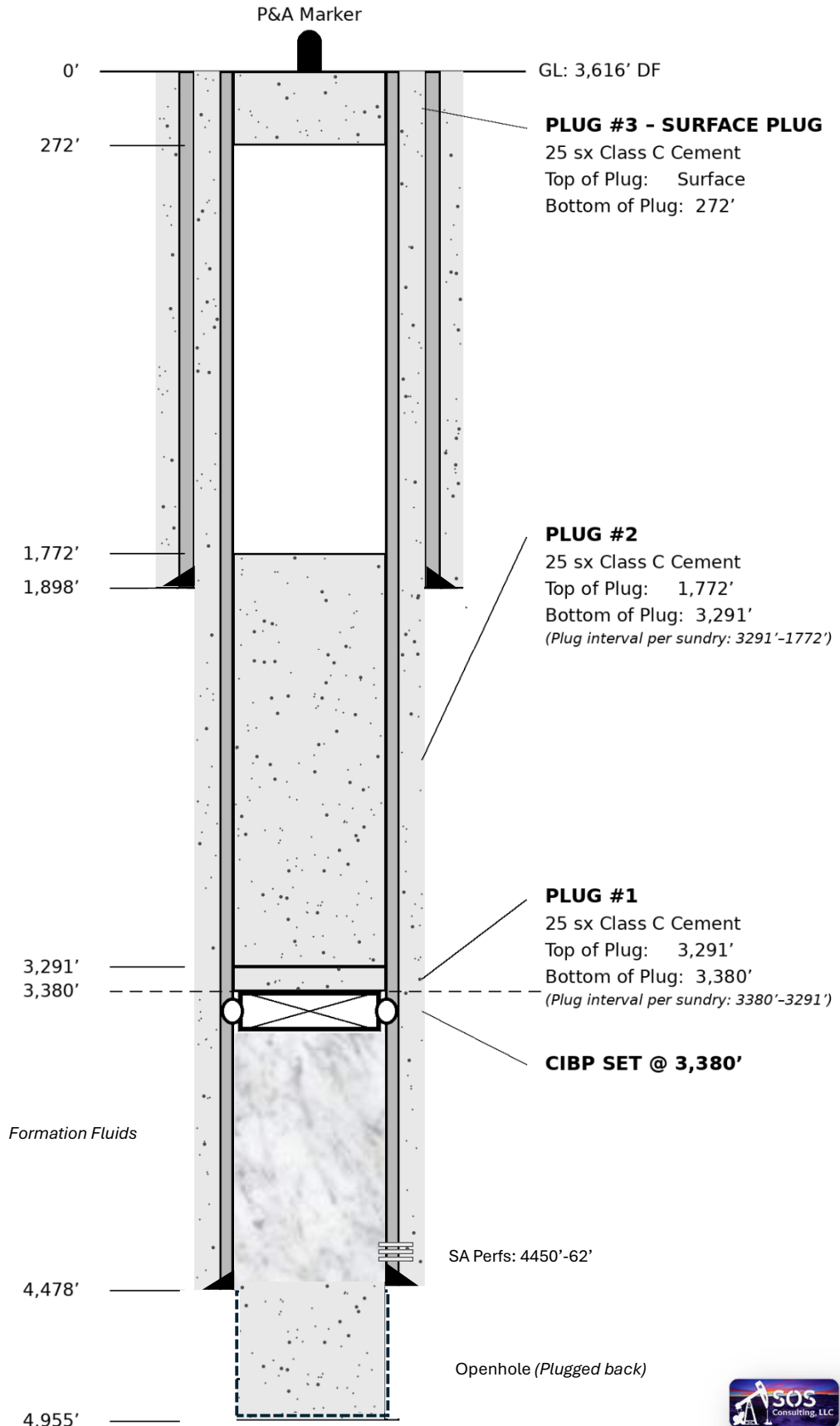
P&A Diagram

Operator:	Exxon Corporation	Location:	K-30-18S-39E	Plugging Date:	11-03-85
Well Name & No.:	Samuel E. Cain #2	API No.:	30-025-07951		

CASING STRING AND HOLE SIZE

11" Hole
 8-5/8" Casing
 29.75 lb/ft
 Set @ 1,898'
 900 sx Cement
 Est. Top: Surface

7-7/8" Hole
 5-1/2" Casing
 14 / 15.5 lb/ft
 Set @ 4,478'
 1,200 sx Cement
 Est. Top: Surface



TD:4,955'



Schematic only; depths and plug intervals shown from reported sundry data.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OPERATOR	

OIL CONSERVATION DIVISION

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SANTA FE, NEW MEXICO 87501

DEC -2 1985

O. C. D.
ARTESIA, OFFICE

Form C-103
Revised 10-1-71

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

SUNDRY 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" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Dry	7. Unit Agreement Name
2. Name of Operator Exxon Corporation	8. Farm or Lease Name Samuel E. Cain
3. Address of Operator P. O. Box 1600, Midland, TX 79702	9. Well No. 2
4. Location of Well UNIT LETTER <u>K</u> <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>30</u> TOWNSHIP <u>18S</u> RANGE <u>39E</u> NMPM.	10. Field and Pool, or Wildcat Wildcat - Queen
15. Elevation (Show whether DF, RT, GR, etc.) 3616' DF	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPER. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
		OTHER _____	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

The above well was plugged and abandoned as follows:

CIBP set at 3380'.

Plugs set 3380-3291' w/25 sx ClC, 3291-1772' w/25 sx ClC and 272' to surface.

Plugged and abandoned 11-3-85.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Michael Kruepling TITLE Unit Head DATE 11-25-85

APPROVED BY R. Wadler TITLE OIL & GAS INSPECTOR DATE APR 24 1986

CONDITIONS OF APPROVAL, IF ANY:

C-108 ITEM VII

Operational Information

Expanded Background & Engineering Justification

Hobbs East SA #104

API 30-025-07950

Section 30, T18S, R39E, Lea County, New Mexico

Disposal Permit R-3500

I. Expanded Background & Historical Summary

1. Original Drilling & Production Phase (1968 – Late 1990s)

The Hobbs East SA #104 well was spudded on November 25, 1968 as a San Andres oil producer. It was completed in the San Andres/Blinberry interval consistent with development practices of the time. Construction included 8 5/8" surface casing set at approximately 1,883 feet, 5 1/2" production casing set at approximately 4,474 feet, and a 4" liner to approximately 6,480 feet. Cement was circulated to surface on the surface casing. The well produced oil during its primary life before reaching marginal economic status typical of mature San Andres wells.

2. Conversion to Salt Water Disposal (Rice Operating – 2001–2002)

In 2001–2002, Rice Operating Company converted the well to salt water disposal service. Work included installation of an injection packer (~4,950'), cement squeeze operations, casing evaluation, pressure testing, and MIT documentation. The well was incorporated into the Hobbs East disposal system under Permit R-3500. No record of structural casing collapse or major environmental event exists in the well file.

3. Arena Resources Period

The well later transferred to Arena Resources and continued operation as a permitted SWD without major structural modification.

4. Ruthco Ownership (2005 – 2024)

Ruthco Oil, LLC acquired the well in 2005. The well continued low-volume disposal operations with routine Bradenhead testing and MIT compliance through December 2019. There is no evidence of catastrophic mechanical failure or uncontrolled migration.

5. Regulatory Attrition & Loss of Injection Authority (2020 – 2024)

Injection ceased after December 2019. Under 19.15.26.12(C)(1) NMAC, one year of non-injection results in automatic termination of injection authority. OCD issued a Formal Notice of Loss of Injection Authority in January 2024. The termination was administrative in nature rather than due to structural well failure.

II. Engineering Justification for Reactivation

The well was constructed with conventional San Andres architecture and historically passed MIT cycles. Reactivation will include tubing inspection, packer evaluation or replacement, pressure testing, Bradenhead monitoring, and MIT witnessed by OCD per current UIC standards.

The injection interval remains within the San Andres formation, a long-established disposal zone in Lea County. Nearby unit wells confirm ongoing formation suitability. The well historically injected without documented migration incident.

The well represents a structurally viable SWD whose authority lapsed due to inactivity rather than engineering failure. With appropriate testing and compliance updates, it is suitable for reactivation under current UIC standards.

C-108 ITEM VII

Operational Plan Upon Approval of Form C-108

Hobbs East SA #104

API 30-025-07950

Section 30, T18S, R39E

Lea County, New Mexico

1. Reactivation Requirements

Prior to resumption of injection, the operator will complete all required regulatory and mechanical steps, including:

- Submission and approval of Form C-108
- Updated wellbore schematic
- Tubing removal and inspection
- Packer evaluation or replacement as necessary
- Mechanical Integrity Test (MIT) witnessed by OCD
- Bradenhead testing
- Updated Form C-105 approval
- Surface facility inspection and compliance verification
- Proper signage and secondary containment
- Re-establishment of monthly reporting procedures

No injection will occur until injection authority is formally restored.

2. Injection Interval

Injection will occur within the San Andres interval, a regionally utilized disposal zone in Lea County. The formation has a documented history of use for disposal and enhanced recovery operations.

3. Operating Parameters

The well will operate as a localized disposal facility serving nearby production with the following parameters:

- Maximum Daily Injection Rate: 7,500 barrels per day
- Average Daily Injection Rate: 2,500 barrels per day
- Maximum Surface Injection Pressure: 884 psi
- Average Surface Injection Pressure: approximately 200 psi

Injection volumes and pressures will be maintained within permitted limits and monitored continuously.

4. Environmental and Compliance Posture

The operator will maintain site conditions consistent with OCD requirements and ensure mechanical integrity is demonstrated prior to injection. Environmental compliance and groundwater protection remain ongoing obligations.

C-108 Item VII.5

Section Header - Produced Water Analysis

Source Zones: Artesia Group (Tansill, Yates, Seven Rivers), Grayburg, Blinebry, Wolfcamp, Delaware

Disposal Zone: San Andres

Location: Lea County, New Mexico

Summary of Source Water Chemistry

Produced water samples from the Artesia Group (Tansill, Yates, Seven Rivers), Grayburg, Blinebry, Wolfcamp, and Delaware Formations were reviewed to define the range of source water chemistry associated with production across Lea County, New Mexico. The dataset reflects chloride-dominant formation waters with total dissolved solids ranging from approximately 13,000 mg/L in shallower shelf carbonate systems to greater than 300,000 mg/L in deeper basin intervals. Variability in salinity is attributed to differences in stratigraphic position, depth, and depositional environment; however, the overall geochemical character remains consistent across the evaluated formations.

The San Andres Formation, which serves as the disposal interval, exhibits similar chloride-dominant water chemistry and has a long-established history of produced water disposal throughout the area. Based on the representative data reviewed, commingling of produced waters from the identified source zones is compatible with the San Andres disposal zone. Minor variability in sulfate and bicarbonate concentrations is not expected to result in scale-forming or compatibility issues under typical disposal conditions.

Data Source for All Water Samples: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Source Zone: Artesia Group

Disposal Zone: San Andres

Location: T20S–21S R36–37E (Ruthco Area, Lea County, NM)

Representative Water Quality (Primary Sample)

Source Well: STATE M #003 (API: 30-025-08555)

Sample Type: Production

Sample Location: Sec 1, T21S R35E

TDS: 46,404 mg/L

pH: 7.68

Major Ions (mg/L)

Chloride (Cl): 25,925

Bicarbonate (HCO₃): 802

Sulfate (SO₄): 2,998

Supporting Data (Nearby Wells)

GRAHAM ORCUTT GAS COM #003 (Sec 6, T21S R36E)

TDS: 22,819 mg/L; Cl: 12,768 mg/L; HCO₃: 1,235 mg/L; SO₄: 412 mg/L

MEYER B-8 #006 (Sec 8, T21S R36E)

TDS: 34,913 mg/L; Cl: 19,412 mg/L; HCO₃: 1,125 mg/L; SO₄: 2,057 mg/L

MEYER B 4 #004 (Sec 4, T21S R36E)

TDS: 15,449 mg/L; Cl: 9,356 mg/L; HCO₃: 480 mg/L; SO₄: 54 mg/L

Analysis Summary

Produced water from the Artesia Group Formation(s) in the T20S–21S R36–37E area exhibits moderate to high salinity, with total dissolved solids ranging from approximately 15,000 to 46,000 mg/L in the representative dataset. Chloride is the dominant anion, indicating typical formation brine characteristics. Variability in TDS reflects localized reservoir conditions but remains consistent with regional Artesia Group produced water trends. These values are compatible with disposal into the San Andres Formation.

Data Source: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Source Zone: Grayburg / Grayburg-San Andres

Disposal Zone: San Andres

Location: Hobbs–Eunice Monument–Vacuum Trend, Lea County, NM

Representative Water Quality (Primary Sample)

Source Well: **Eunice Monument South Unit #900 (API: 30-025-04297)**

Sample Type: Production

Sample Location: Sec 23, T20S R36E

TDS: 20,611 mg/L

pH: 5.95

Major Ions (mg/L)

Chloride (Cl): 9,911

Bicarbonate (HCO₃): 1,580

Sulfate (SO₄): 1,459

Supporting Data (Nearby Wells)

Eunice Monument South Unit #856 (Sec 11, T20S R36E)

TDS: 20,716 mg/L; Cl: 11,285 mg/L; HCO₃: 1,151 mg/L; SO₄: 922 mg/L

Eunice Monument South Unit #575 (Sec 31, T20S R37E)

TDS: 18,385 mg/L; Cl: 9,523 mg/L; HCO₃: 931 mg/L; SO₄: 1,462 mg/L

Central Vacuum Unit #124 (Sec 7, T18S R35E)

TDS: 262,044 mg/L; Cl: 164,500 mg/L; HCO₃: 367 mg/L; SO₄: 829 mg/L

Analysis Summary

Produced water from the Grayburg / Grayburg-San Andres interval across the Hobbs–Eunice Monument–Vacuum trend exhibits variable salinity, ranging from moderate-salinity waters in the Hobbs and Eunice Monument areas to substantially higher-salinity brines reported from the Vacuum area. Total dissolved solids in the representative dataset range from approximately 18,000 mg/L to more than 260,000 mg/L. Chloride is the dominant anion, indicating typical formation brine characteristics. This range is considered representative of potential Grayburg / Grayburg-San Andres source waters historically available to an older-use SWD in this area. These values are compatible with disposal into the San Andres Formation.

Data Source: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Source Zone: Blinebry

Disposal Zone: San Andres

Location: T21S–22S R37–38E (Ruthco Area, Lea County, NM)

Representative Water Quality (Primary Sample)

Source Well: Northeast Drinkard Unit #217 (API: 30-025-06485)

Sample Type: Production

Sample Location: Sec 2, T21S R37E

TDS: 28,464 mg/L

pH: 7.7

Major Ions (mg/L)

Chloride (Cl): 15,035

Bicarbonate (HCO₃): 1,099

Sulfate (SO₄): 2,190

Supporting Data (Nearby Wells)

Northeast Drinkard Unit #406 (Sec 10, T21S R37E)

TDS: 37,392 mg/L; Cl: 21,216 mg/L; HCO₃: 895 mg/L; SO₄: 2,104 mg/L

Northeast Drinkard Unit #326 (Sec 3, T21S R37E)

TDS: 32,205 mg/L; Cl: 17,459 mg/L; HCO₃: 614 mg/L; SO₄: 2,426 mg/L

Northeast Drinkard Unit #401 (Sec 10, T21S R37E)

TDS: 53,498 mg/L; Cl: 32,154 mg/L; HCO₃: 739 mg/L; SO₄: 1,857 mg/L

Analysis Summary

Produced water from the Blinebry Formation in the T21S–22S R37–38E area exhibits moderate to high salinity, with total dissolved solids ranging from approximately 28,000 to 53,000 mg/L in the representative dataset. Chloride is the dominant anion, indicating typical formation brine characteristics. Variability in TDS reflects localized reservoir conditions but remains consistent with regional Blinebry produced water trends. These values are compatible with disposal into the San Andres Formation.

Data Source: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Source Zone: Wolfcamp

Disposal Zone: San Andres

Location: T17S–18S R34–35E (Vacuum Area, Lea County, NM)

Representative Water Quality (Primary Sample)

Source Well: **Sinclair State #002** (API: 30-025-03123)

Sample Type: Production

Sample Location: Sec 21, T18S R35E

TDS: 60,950 mg/L

pH: 7.08

Major Ions (mg/L)

Chloride (Cl): 33,568

Bicarbonate (HCO₃): 1,087

Sulfate (SO₄): 3,049

Supporting Data (Nearby Wells)

Tonto Deep Unit #001 (Sec 22, T18S R34E)

TDS: 145,500 mg/L; Cl: 87,300 mg/L; HCO₃: 220 mg/L; SO₄: 1,500 mg/L

New Mexico L State #006 (Sec 1, T18S R34E)

TDS: 122,516 mg/L; Cl: 74,780 mg/L; HCO₃: 488 mg/L; SO₄: 1,478 mg/L

New Mexico Q State #004 (Sec 25, T17S R34E)

TDS: 13,538 mg/L; Cl: 5,684 mg/L; HCO₃: 495 mg/L; SO₄: 2,436 mg/L

Analysis Summary

Produced water samples attributed to the Wolfcamp Formation within the broader Lea County and Vacuum field areas exhibit moderate to high total dissolved solids (TDS) concentrations, with chemistry generally dominated by sodium and chloride. Variability in sulfate and bicarbonate concentrations is present but remains within ranges typical of Permian basin fluids. The available data indicate that Wolfcamp produced waters are chemically consistent with other deeper Permian sources and are compatible with disposal into the San Andres Formation under typical operating conditions. Minor variations in constituent concentrations are not expected to result in scale formation or adverse geochemical reactions during injection.

Data Source: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Source Zone: Delaware

Disposal Zone: San Andres

Location: T20S R34E (Lea Northeast Area, Lea County, NM)

Representative Water Quality (Primary Sample)

Source Well: **Mobil Lea State #005** (API: 30-025-32466)

Sample Type: Production

Sample Location: Sec 2, T20S R34E

TDS: 340,838 mg/L

pH: 5.5

Major Ions (mg/L)

Chloride (Cl): 245,270

Bicarbonate (HCO₃): 229

Sulfate (SO₄): 147

Supporting Data (Nearby Wells)

Mobil Lea State #003 (Sec 2, T20S R34E)

TDS: 296,822 mg/L; Cl: 215,237 mg/L; HCO₃: 143 mg/L; SO₄: 294 mg/L

Mobil Lea State #001 (Sec 2, T20S R34E)

TDS: 152,064 mg/L; Cl: 102,148 mg/L; HCO₃: 404 mg/L; SO₄: 691 mg/L

Analysis Summary

Produced water samples from the Delaware Formation in the vicinity of the project area show elevated total dissolved solids (TDS) concentrations, with sodium and chloride comprising the dominant ionic constituents. The overall water chemistry is consistent with regional Delaware Basin production and reflects a mature, high-salinity fluid system. Observed variations in sulfate, bicarbonate, and divalent ions such as calcium and magnesium fall within expected ranges and do not indicate conditions likely to promote scaling or incompatibility. Based on available data, Delaware Formation produced waters are considered compatible with San Andres disposal operations, and no adverse interactions are anticipated under normal injection conditions.

Data Source: NMT Octane / NM WAIDS database



C-108 Item VII.5

Produced Water Analysis Summary

Disposal Zone: San Andres

Location: T18S R39E (Ruthco Area, Lea County, NM)

Representative Water Quality (Primary Sample)

Source Well: Samuel E Cain #002 (API: 30-025-07951)

Sample Type: DST

Sample Location: Sec 30, T18S R39E

TDS: 52,855 mg/L

pH: ~7

Major Ions (mg/L)

Chloride (Cl): 28,000

Bicarbonate (HCO₃): 3,480

Sulfate (SO₄): 1,720

Supporting Data (Nearby Wells)

Pearl Goode #001 (Sec 31, T18S R39E)

TDS: 17,124 mg/L; Cl: 6,161 mg/L; HCO₃: 2,788 mg/L; SO₄: 2,262 mg/L

Samuel E Cain #004 (Sec 30, T18S R39E)

TDS: 20,370 mg/L; Cl: 8,950 mg/L; HCO₃: 3,120 mg/L; SO₄: 1,060 mg/L

Analysis Summary

Produced water from the San Andres Formation in the T18S R39E area exhibits moderate to high salinity, with total dissolved solids ranging from approximately 17,000 to 53,000 mg/L. Chloride is the dominant anion, indicating typical formation brine characteristics. Variability in TDS reflects localized reservoir conditions but remains consistent with regional San Andres produced water trends.

Data Source: NMT Octane / NM WAIDS database



C-108 - Item VIII

Geological Section

Primary Geological Narrative

The proposed Ruthco East Hobbs San Andres #104 SWD is located on the eastern margin of the Central Basin Platform in Lea County, New Mexico, adjacent to the western extent of the High Plains. The San Andres Formation provides a laterally continuous and well-established interval for long-term produced water disposal in this area.

Regionally, the San Andres Formation consists predominantly of dolomitized carbonate rocks with interbedded limestone and minor clastic intervals. Lithologies include porous and permeable dolomite, limestone, and fine-grained sandstone, with textures ranging from skeletal grainstones to vuggy and cavernous carbonates. Depositional environments reflect open to restricted platform conditions influenced by sea-level fluctuations, evaporite development, and associated shelf processes. Reservoir quality is enhanced by dolomitization, dissolution, and localized fracturing, resulting in effective porosity and permeability suitable for fluid injection and distribution within the formation.

The San Andres Formation is overlain by the Grayburg and Queen Formations and underlain by the Glorieta Formation. While regionally extensive evaporitic and carbonate sequences provide vertical separation between shallow groundwater systems and the disposal interval, confinement is primarily achieved through the thickness of the stratigraphic section and the presence of low-permeability intervals within the overlying and underlying formations. The completed injection interval is selectively perforated to target the most suitable injection zones and to limit vertical migration of injected fluids.

Historically, production in the area has occurred from Permian-age formations including the Artesia Group (Tansill, Yates, Seven Rivers, and Queen) and the Grayburg Formation. Many of these producing intervals are now depleted or inactive within the immediate area of the proposed SWD. The San Andres Formation in this setting has been widely utilized for produced water disposal and has demonstrated the capacity to accept injected fluids under low-pressure conditions over extended periods of operation.

Based on regional geology, reservoir characteristics, and established field performance, the San Andres Formation at the Ruthco location provides a suitable and reliable interval for continued produced water disposal.



C-108 - Item VIII

Geologic Affirmation

Project: Ruthco Oil – East Hobbs SA #104 SWD
Reviewed 1/08/2026

Statement

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

Hobbs Channel / San Andres Injection Behavior

Recent OCD guidance identifies the Hobbs Channel portion of the San Andres Formation as an area where long-term lateral migration of injected fluids may warrant additional review for certain proposed SWD applications. The Ruthco East Hobbs San Andres #104 SWD is an existing disposal well with an established operating history rather than a new, untested injection point.

Historical operation of the well indicates that injection has occurred for more than 20 years under minimal surface pressure, typically under vacuum or near-vacuum conditions. Future operation is expected to remain at low surface injection pressure, and no routine operating pressure greater than approximately 200 psi is anticipated. This long-term low-pressure operating behavior indicates that the disposal interval has accepted injected fluids without significant pressure buildup at the wellbore.

Because the well has demonstrated sustained injectivity under low-pressure conditions, the potential for abnormal pressure propagation or adverse impact to nearby producing zones is considered low. The fixed-radius AOR remains appropriate for evaluating well integrity and potential conduits within the immediate review area, while the historical injection performance provides additional evidence that the proposed continued operation is not expected to create elevated lateral pressure communication within the San Andres disposal interval.

C-108 - Item VIII

Geologic Section - Seismicity

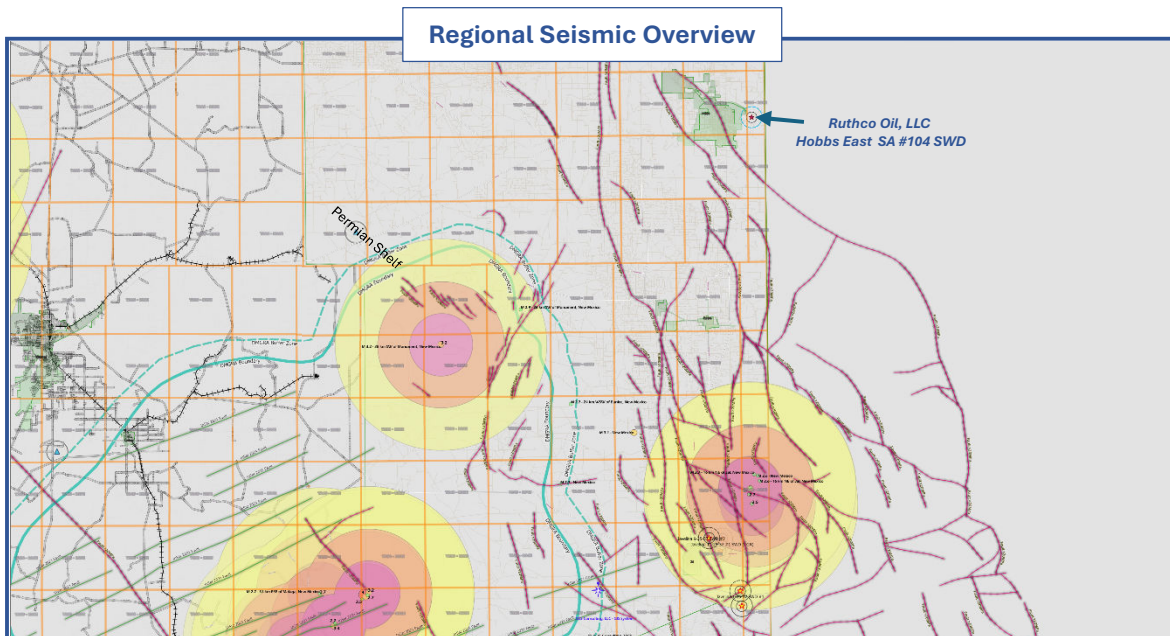
Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

Seismicity and Structural Setting

The proposed SWD is located in the Hobbs area of Lea County, New Mexico, where seismic activity has historically been minimal. Review of available seismic data indicates that the project area is situated outside of the primary zones of recent seismic response identified in southeastern New Mexico.

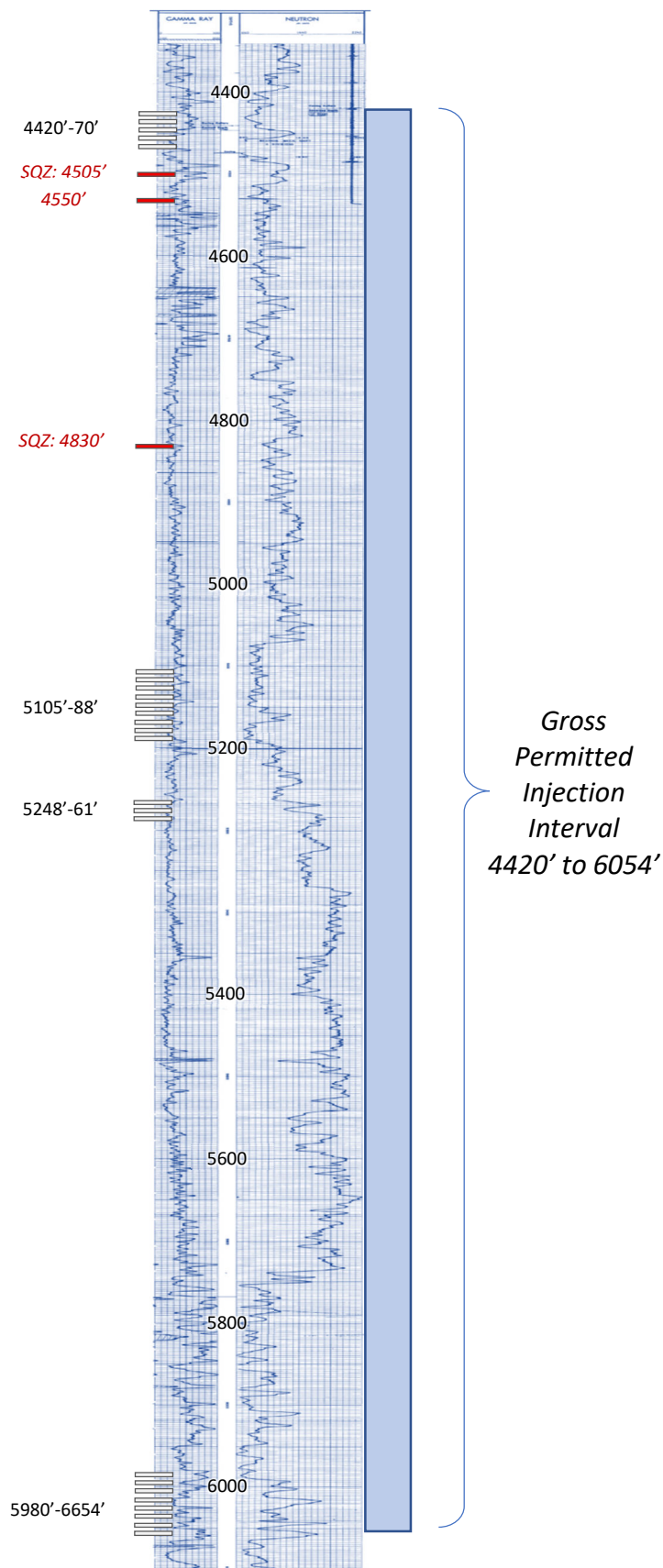
Mapped structural features in the area consist of known, regionally mapped faults typical of the Permian Basin; however, these features are not associated with documented recent seismic activity in the immediate vicinity of the proposed SWD. The nearest historically recorded seismic event in the general area was a 3.1 magnitude which occurred south of the project location, several mile southwest of Eunice in the early 1990s, with no recurring activity documented near the site since that time.

Based on the absence of recent seismicity in the immediate area, the distance from identified seismic response zones, and the routine nature of shallow San Andres disposal operations, the potential for injection-related seismic response at the proposed SWD is considered low.



C-108 ITEM X – LOGS (and Available Test Data)

Log Strip from Subject Well – Zone/Perfs Identified Hobbs East SA #104 SWD



C-108 - Item VIII

Groundwater Section

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.

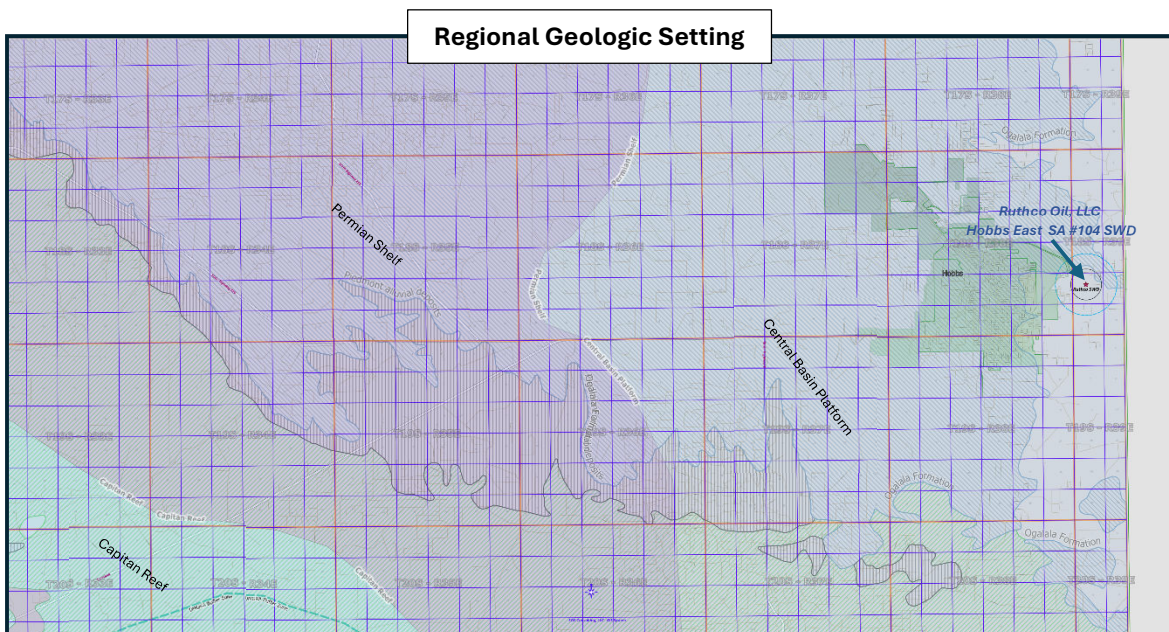
Groundwater Conditions and Area of Review

The proposed SWD is located on the eastern margin of the Hobbs area, where groundwater development is common and numerous domestic and stock water wells are present within the one-mile area of review, as illustrated on the attached map. The density of water wells in the area reflects typical land and water use patterns associated with the High Plains aquifer system and is not indicative of unusual or site-specific groundwater conditions.

Shallow groundwater in the project area is associated with the High Plains aquifer system, including unconsolidated alluvial and eolian deposits and minor Ogallala Formation remnants. These units comprise the principal water-bearing intervals and are laterally continuous across the area. State Engineer records for Townships 18 South, Ranges 38 and 39 East indicate groundwater occurs at relatively shallow depths, with average depths to water of approximately 80 to 90 feet below ground surface and typical ranges from approximately 40 to 190 feet. These groundwater zones are widely utilized for domestic and agricultural purposes throughout the area.

The San Andres Formation, which serves as the disposal interval, occurs at significantly greater depths and is hydraulically separated from shallow groundwater systems by substantial confining intervals consisting of low-permeability evaporites and carbonate strata. There are no known underground sources of drinking water present below the proposed San Andres injection interval.

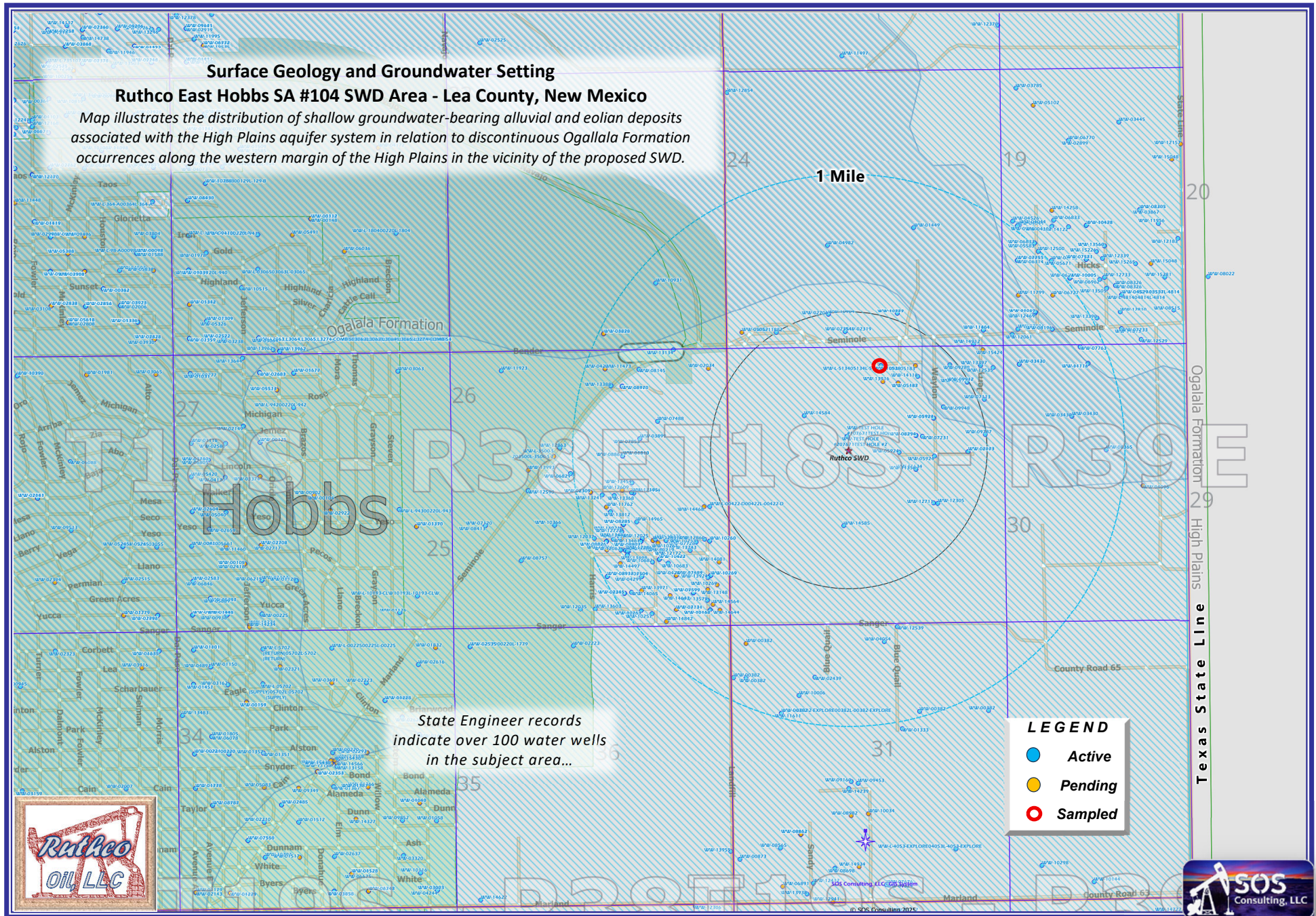
One water well was sampled and the analysis is included at the end of the groundwater section.



Additional groundwater exhibits follow...

Hobbs East San Andres #104 SWD – 1-Mile AOR Water Wells

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





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 smallest to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
L 00100		L	LE			SW	26	18S	38E	675885.0	3621215.0 *	●	103		
L 00125		L	LE	NW	SE	NW	26	18S	38E	675970.0	3621926.0 *	●	110		
L 00125	R	L	LE	NW	SE	NW	26	18S	38E	675970.0	3621926.0 *	●	110		
L 00125 POD2		L	LE	NW	SE	NW	26	18S	38E	675970.0	3621926.0 *	●	243	120	123
L 00128		L	LE		SE	NW	26	18S	38E	676071.0	3621827.0 *	●	102	40	62
L 00220 POD3		L	LE	SE	NE	NW	26	18S	38E	676163.0	3622129.0 *	●	227	60	167
L 00220 POD5		L	LE	NW	NE	SE	26	18S	38E	676783.0	3621537.0 *	●	230		
L 00225		L	LE	SW	SE	SW	26	18S	38E	675985.0	3620920.0 *	●	80		
L 00225	R	L	LE	SW	SE	SW	26	18S	38E	675985.0	3620920.0 *	●	80		
L 00277		L	LE	NW	NW	NW	26	18S	38E	675560.0	3622322.0 *	●	150		
L 00410 POD1		L	LE	SW	NW	SW	26	18S	38E	675575.0	3621316.0 *	●	112	102	10
L 00739		L	LE	SE	SW	SW	26	18S	38E	675783.0	3620913.0 *	●	125		
L 00902 POD1		L	LE				26	18S	38E	676287.0	3621617.0 *	●	125	120	5
L 00938 POD1		L	LE	SE	SW	SW	26	18S	38E	675783.0	3620913.0 *	●	209		
L 01031 POD1	R	L	LE	SW	SW	SW	26	18S	38E	675583.0	3620913.0 *	●	125	60	65
L 01031 POD2		L	LE	NW	NW	NW	26	18S	38E	675560.0	3622322.0 *	●	226	91	135
L 01084		L	LE	SW	SW	SW	26	18S	38E	675583.0	3620913.0 *	●	146		
L 01085		L	LE	SE	SW	SW	26	18S	38E	675783.0	3620913.0 *	●	125	85	40
L 01090		L	LE	SW	SW	SW	26	18S	38E	675583.0	3620913.0 *	●	80		
L 01116 POD1		L	LE	NW	SW	NW	26	18S	38E	675568.0	3621919.0 *	●	80	43	37
L 01126 POD1	R	L	LE	SW	SE	SE	26	18S	38E	676790.0	3620934.0 *	●	110		
L 01126 POD2		L	LE	SW	SE	SE	26	18S	38E	676790.0	3620934.0 *	●	200	115	85
L 01128 POD1		L	LE	NE	SE	SW	26	18S	38E	676185.0	3621120.0 *	●	146		
L 01370		L	LE		NE	SE	26	18S	38E	676884.0	3621438.0 *	●	151	65	86
L 01677 POD1		L	LE	NE	NE	NW	26	18S	38E	676163.0	3622329.0 *	●			
L 01780 POD1		L	LE		SW	NW	26	18S	38E	675669.0	3621820.0 *	●	128	60	68
L 02149		L	LE			NW	26	18S	38E	675870.0	3622021.0 *	●	110	50	60
L 02416		L	LE			SW	26	18S	38E	675885.0	3621215.0 *	●	90	56	34
L 02580		L	LE	NE	SW	NW	26	18S	38E	675768.0	3621919.0 *	●	110	55	55
L 02583		L	LE	NW	SW	SW	26	18S	38E	675583.0	3621113.0 *	●	110	66	44
L 02604		L	LE	NW	NW	SW	26	18S	38E	675575.0	3621516.0 *	●	123	60	63
L 02609		L	LE	NW	NW	SW	26	18S	38E	675575.0	3621516.0 *	●	125	75	50
L 02659		L	LE		NW	SW	26	18S	38E	675676.0	3621417.0 *	●	120	75	45
L 02683		L	LE	NW	NE	NW	26	18S	38E	675963.0	3622329.0 *	●	110	50	60
L 02979		L	LE	SE	SW	SW	26	18S	38E	675783.0	3620913.0 *	●	200	76	124
L 03063		L	LE	NW	NE	NE	26	18S	38E	676768.0	3622342.0 *	●	253	83	170

(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
smallest to
largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
L 03276		L	LE	SW	SW	SW	26	18S	38E	675583.0	3620913.0 *	●	220	68	152
L 03447		L	LE		SW	NW	26	18S	38E	675669.0	3621820.0 *	●	120	65	55
L 04130		L	LE	SE	SW	NW	26	18S	38E	675768.0	3621719.0 *	●	140	140	0
L 04724		L	LE		NE	NW	26	18S	38E	676064.0	3622230.0 *	●	204	80	124
L 05040		L	LE	NE	NW	SW	26	18S	38E	675775.0	3621516.0 *	●	180	65	115
L 05391		L	LE		SW	SW	26	18S	38E	675684.0	3621014.0 *	●	148	75	73
L 05420		L	LE	SW	SW	NW	26	18S	38E	675568.0	3621719.0 *	●	201	90	111
L 05510		L	LE	NE	NE	NW	26	18S	38E	676163.0	3622329.0 *	●	127	90	37
L 05889		L	LE		SW	SW	26	18S	38E	675684.0	3621014.0 *	●	120	85	35
L 06215		L	LE	NW	SE	SW	26	18S	38E	675985.0	3621120.0 *	●	110	60	50
L 06805		L	LE		SW	NW	26	18S	38E	675669.0	3621820.0 *	●	130	80	50
L 06846		L	LE	NW	SW	SW	26	18S	38E	675583.0	3621113.0 *	●	147	72	75
L 07173		L	LE	NW	SE	SW	26	18S	38E	675985.0	3621120.0 *	●	144	86	58
L 07183		L	LE	NW	SW	SW	26	18S	38E	675583.0	3621113.0 *	●	150	84	66
L 07881		L	LE	NW	NE	NW	26	18S	38E	675963.0	3622329.0 *	●	200	130	70
L 10193	R	L	LE		SE	SE	26	18S	38E	676891.0	3621035.0 *	●	138		
L 10193 POD2		L	LE		SE	SE	26	18S	38E	676891.0	3621035.0 *	●	200	110	90
L 10424		L	LE	SW	SW	SW	26	18S	38E	675583.0	3620913.0 *	●	210	100	110
L 11008		L	LE		SW	SW	26	18S	38E	675684.0	3621014.0 *	●	220		
L 13644 POD1		L	LE	NW	NW	NE	26	18S	38E	675861.8	3622412.6	●	160		
L 14234 POD1		L	LE	SW	SE	SW	26	18S	38E	675931.9	3620854.0	●	142		
L 14234 POD2		L	LE	SW	SE	SW	26	18S	38E	675945.2	3620839.7	●	141		
L 14234 POD3		L	LE	SW	SE	SW	26	18S	38E	675945.2	3620839.7	●	142		

Average Depth to Water: **79 feet**

Minimum Depth: **40 feet**

Maximum Depth: **140 feet**

Record Count: 59

PLSS Search:

Range: 38E

Township: 18S

Section: 26

* 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



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 smallest to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
L 01449		L	LE	NE	NW	SE	19	18S	39E	679769.0	3623199.0 *	●	110	45	65
L 02204		L	LE	NW	SE	NW	30	18S	39E	679189.0	3621984.0 *	●	123	65	58
L 02206		L	LE		SE	SW	19	18S	39E	679275.0	3622690.0 *	●	110	60	50
L 02319		L	LE	SE	SE	SW	19	18S	39E	679374.0	3622589.0 *	●	90	60	30
L 02354		L	LE	SE	SE	SW	19	18S	39E	679374.0	3622589.0 *	●	100	43	57
L 03386		L	LE				19	18S	39E	679476.0	3623286.0 *	●	100	40	60
L 04982		L	LE		NE	SW	19	18S	39E	679268.0	3623093.0 *	●	100	65	35
L 05134	R	L	LE	NW	NW	NE	30	18S	39E	679584.0	3622394.0 *	●	150	78	72
L 05134 POD2		L	LE	NW	NW	NE	30	18S	39E	679584.0	3622394.0 *	●	250		
L 05197		L	LE			NE	30	18S	39E	679893.0	3622093.0 *	●	100	70	30
L 05924 POD2	R	L	LE		SW	NE	30	18S	39E	679692.0	3621892.0 *	●	150	85	65
L 05924 POD3		L	LE	SE	SW	NE	30	18S	39E	679897.9	3621873.0	●	237		
L 06512		L	LE		NE	NE	30	18S	39E	680087.0	3622302.0 *	●	170	70	100
L 07113		L	LE	SE	NE	NE	30	18S	39E	680186.0	3622201.0 *	●	120		
L 07231	R	L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	126	72	54
L 07231 POD2	R	L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	150	50	100
L 07231 POD3	R	L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	195		
L 07231 POD4		L	LE	NE	SW	NE	30	18S	39E	679828.1	3621985.8	●	267	190	77
L 07492		L	LE			NE	30	18S	39E	679893.0	3622093.0 *	●	150	82	68
L 07671 POD1		L	LE	NE	SE	NW	30	18S	39E	679389.0	3621984.0 *	●	150		
L 07671 POD2		L	LE	NE	SE	NW	30	18S	39E	679389.0	3621984.0 *	●	150		
L 08039		L	LE		SE	NE	30	18S	39E	680095.0	3621899.0 *	●	150	50	100
L 08040		L	LE		SE	NE	30	18S	39E	680095.0	3621899.0 *	●	150	85	65
L 08294		L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	150	90	60
L 08550		L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	150	82	68
L 09289		L	LE	NW	NE	NE	30	18S	39E	679986.0	3622401.0 *	●	150	60	90
L 09787	R	L	LE	NE	SE	NE	30	18S	39E	680194.0	3621998.0 *	●	150	78	72
L 09912		L	LE		NE	NE	30	18S	39E	680087.0	3622302.0 *	●	155	95	60
L 09948	R	L	LE		NE	NE	30	18S	39E	680087.0	3622302.0 *	●	150	88	62
L 09948 POD2		L	LE	SW	NE	NE	30	18S	39E	679950.0	3622157.4	●	255		
L 10012		L	LE		SW	SW	19	18S	39E	678873.0	3622683.0 *	●	140	87	53
L 10389		L	LE			NE	30	18S	39E	679893.0	3622093.0 *	●	180	87	93
L 10538		L	LE	NW	NW	NE	30	18S	39E	679584.0	3622394.0 *	●	200		
L 10779		L	LE		SW	SE	19	18S	39E	679678.0	3622697.0 *	●	198	90	108
L 10904		L	LE		SE	SW	19	18S	39E	679275.0	3622690.0 *	●	198	90	108
L 11356		L	LE	SE	SW	NE	30	18S	39E	679791.0	3621791.0 *	●	238		

(A CLW#####

in the POD suffix

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& no longer

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(quarters are
smallest to
largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	TwS	Range	X	Y	Map	Well Depth	Depth Water	Water Column
L 11464		L	LE	SE	SE	SE	19	18S	39E	680179.0	3622604.0 *	●	228		
L 11498		L	LE	NE	SW	NE	30	18S	39E	679791.0	3621991.0 *	●	245		
L 11634		L	LE	SE	SW	NE	30	18S	39E	679791.0	3621791.0 *	●	234		
L 11639		L	LE	NW	NW	NE	30	18S	39E	679584.0	3622394.0 *	●	250		
L 11801		L	LE	SE	SE	SE	19	18S	39E	680179.0	3622604.0 *	●	230		
L 11882 POD1		L	LE	SE	SW	SW	19	18S	39E	678972.0	3622582.0 *	●	202	112	90
L 12305 POD1		L	LE	NW	NE	SE	30	18S	39E	679921.2	3621593.1	●	235		
L 12535 POD1		L	LE	NE	NE	NE	30	18S	39E	680237.6	3622387.6	●	235		
L 12711 POD1		L	LE	NE	NW	SE	30	18S	39E	679895.1	3621595.7	●	250		
L 12854 POD1		L	LE	NW	NW	NW	19	18S	39E	678674.9	3623980.0	●	215		
L 13397 POD1		L	LE	NE	NE	NE	30	18S	39E	680164.4	3622398.6	●	235	98	137
L 14118 POD1		L	LE	NE	NW	NE	30	18S	39E	679798.9	3622331.9	●	260	103	157
L 14584 POD1		L	LE	SW	NE	NW	30	18S	39E	679137.4	3622100.8	●	296	100	196
L 14585 POD1		L	LE	SE	NE	SW	30	18S	39E	679372.5	3621458.1	●	296	100	196
L 14912 POD1		L	LE	NE	NE	NE	30	18S	39E	680123.1	3622521.1	●	250	160	90
L 15424		L	LE	NE	NE	NE	30	18S	39E	680177.1	3622489.1	●	220	98	122
L 15797 POD1		L	LE	NE	NE	NE	30	18S	39E	680098.6	3622296.6	●	255	152	103
L 15965 POD1		L	LE	NW	NE	NE	30	18S	39E	680032.7	3622340.7	●	228	175	53
L 15988 POD1		L	LE	NE	NE	NE	30	18S	39E	680255.2	3622464.0	●	255	174	81

Average Depth to Water: **89 feet**

Minimum Depth: **40 feet**

Maximum Depth: **190 feet**

Record Count: 55

PLSS Search:

Range: 39E

Township: 18S

Section: 19,24,30

* 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.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 16, 2025

JOSHUA RUTH
RUTHCO
P.O. BOX 485
EUNICE, NM 88231

RE: F/W AT EAST HOBBS SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/08/25 11:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RUTHCO P.O. BOX 485 EUNICE NM, 88231	Project: F/W AT EAST HOBBS SWD Project Number: FRESH WATER AT EAST HOBBS Project Manager: JOSHUA RUTH Fax To:	Reported: 16-Dec-25 10:32
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FRESH WATER SAMPLE #1	H257607-01	Water	08-Dec-25 11:15	08-Dec-25 11:16

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RUTHCO P.O. BOX 485 EUNICE NM, 88231	Project: F/W AT EAST HOBBS SWD Project Number: FRESH WATER AT EAST HOBBS Project Manager: JOSHUA RUTH Fax To:	Reported: 16-Dec-25 10:32
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**FRESH WATER SAMPLE #1
H257607-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride*	40.0		4.00	mg/L	1	5120817	KH	08-Dec-25	4500-Cl-B	
TDS*	355		5.00	mg/L	1	5120829	KH	08-Dec-25	160.1	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RUTHCO P.O. BOX 485 EUNICE NM, 88231	Project: F/W AT EAST HOBBS SWD Project Number: FRESH WATER AT EAST HOBBS Project Manager: JOSHUA RUTH Fax To:	Reported: 16-Dec-25 10:32
--	--	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5120817 - General Prep - Wet Chem

Blank (5120817-BLK1) Prepared & Analyzed: 08-Dec-25

Chloride	ND	4.00	mg/L							
----------	----	------	------	--	--	--	--	--	--	--

LCS (5120817-BS1) Prepared & Analyzed: 08-Dec-25

Chloride	100	4.00	mg/L	100		100	80-120			
----------	-----	------	------	-----	--	-----	--------	--	--	--

LCS Dup (5120817-BSD1) Prepared & Analyzed: 08-Dec-25

Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
----------	-----	------	------	-----	--	-----	--------	------	----	--

Batch 5120829 - Filtration

Blank (5120829-BLK1) Prepared & Analyzed: 09-Dec-25

TDS	ND	5.00	mg/L							
-----	----	------	------	--	--	--	--	--	--	--

LCS (5120829-BS1) Prepared & Analyzed: 09-Dec-25

TDS	442		mg/L	495		89.3	80-120			
-----	-----	--	------	-----	--	------	--------	--	--	--

Duplicate (5120829-DUP1) Source: H257581-01 Prepared: 08-Dec-25 Analyzed: 09-Dec-25

TDS	2050	5.00	mg/L		2010			2.36	20	
-----	------	------	------	--	------	--	--	------	----	--

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

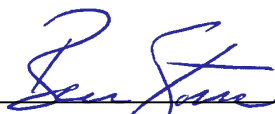
Company Name: Ruth CO Project Manager: Joshua Ruth Address: PO Box 485 City: Eunice State: NM Zip: 88231 Phone #: (575) 241-7167 Fax #: NA Project #: Fresh water at East Hobbs Project Owner: Project Name: F/10 of East Hobbs SWD Project Location: East of Hobbs Sampler Name: Fresh water sample #1		BILL TO P.O. #: Company: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. HS71607 Sample I.D. Fresh water Sample #1		(G)RAB OR (C)OMP # CONTAINERS 1 GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX ACID/BASE: ICE / COOL OTHER:	PRESERV DATE 10/8/25 TIME 11:15	SAMPLING CL TDS
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: [Signature] Date: 10-8-25 Time: 1116		Received By: [Signature] Date: 10/8/25 Time: 11:15		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l phone #: All Results are emailed. Please provide Email address: ben.sos@consulting.05 REMARKS: Joshua Ruth 1972 @ Ruth CO	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 22.5 Corrected Temp. °C 22.8		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Standard RUSH <input type="checkbox"/> Add'l phone #: Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabnm.com

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: Ruthco Oil – East Hobbs SA #104 SWD
Reviewed 1/08/2026

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

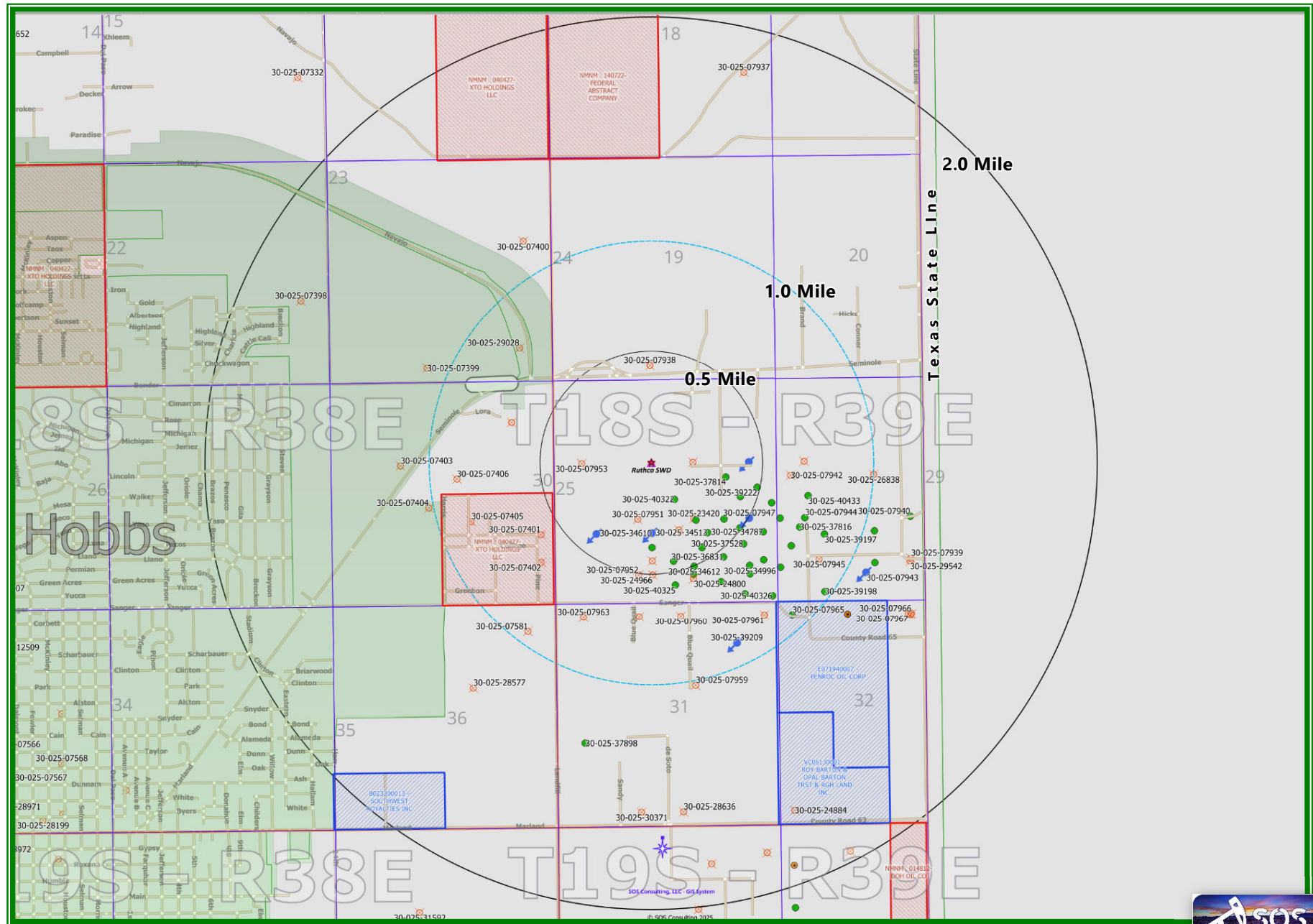
Instructions for PDF Document Access

Proof of Certified Mailing

Affidavit Published Legal Notice

Hobbs East SA #107 SWD – 2-Mile Leasehold/ Affected Parties Plat

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



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

ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL CONTAINING UNIQUE 6 CHARACTER DOCUMENT ACCESS CODES FOR SECURE DOWNLOAD OF A PDF COPY OF THE SUBJECT C-108 APPLICATION. AFFECTED PARTIES MAY ALSO REQUEST A PDF COPY VIA SENT EMAIL.

"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

NOTICE #	ENTITY	US CERTIFIED TRACKING	SOS DOC ACCESS CODE
1	COLLINS FAMILY LIVING TRUST 1100 E. Cimarron Rd. Hobbs, NM 88240	7018 2290 0001 2038 9699	<input checked="" type="checkbox"/>

OFFSET MINERALS LESSEES and/ or OPERATORS

2	KRATOS OPERATING, LLC P.O. Box 769 Hobbs, NM 88241	7018 2290 0001 2038 9705	<input checked="" type="checkbox"/>
3	XTO HOLDINGS, LLC 810 Houston St. Midland TX 76102	7018 2290 0001 2038 9712	<input checked="" type="checkbox"/>

REGULATORY

4	NM OIL CONSERVATION DIVISION 1220 S. St. Francis Dr. Santa Fe, NM 87505 U.S. DEPARTMENT OF INTERIOR Bureau of Land Management Oil & Gas Division 520 E. Greene St. Carlsbad, NM 88220-6292	<i>Filed via OCD Online e-Permitting</i> 7018 2290 0001 2038 9729	<input checked="" type="checkbox"/>
---	--	--	-------------------------------------



April 29, 2026

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

To Whom It May Concern:

Ruthco Oil, LLC, Hobbs, New Mexico, has made application to the New Mexico Oil Conservation Division to [re-]permit for salt water disposal the East Hobbs San Andres #104 SWD. (Previously authorized by OCD order R-3500 for San Andres SWD). The SWD operation will be for commercial water disposal from area operators. As indicated in the notice below, the well is located in Section 30, Township 18 South, Range 39 East in Lea County, New Mexico.

The published notice states that the interval will be from 4,420 feet to 6,054 feet into the San Andres formation. Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about March 11, 2026.

LEGAL NOTICE

Ruthco Oil, LLC, Hobbs, New Mexico is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to REINSTATE for salt water disposal its Hobbs East SA #104 SWD (API No.30-025-07950). The well is located 1980 feet from the North line and 2310 feet from the West line (Unit F) of Section 30, Township 18 South, Range 39 East, NMPM, Lea County, New Mexico. Produced water from area operators' production will be commercially disposed into the San Andres formation through perforations from 4420' to 6054' at a maximum surface pressure of 884 psi and an average surface pressure of 200 psi. (The well will generally operate on vacuum.) Maximum daily rate will be 3,750 bwpd and an average rate of 1,000 bwpd. The subject SWD well is located approximately 1.0 mile east of Hobbs, New Mexico.

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, (936)367-5950 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. SOS Consulting has deployed a new app for the explicit secure delivery of a full PDF copy of the application. Any user employed with **Affected Party** may log into the system and when prompted for a *Document Access Code*, enter **0000XX** to View or Download the document as desired. Using the *SOS Client and Affected Party Document Access* app takes about one minute, start to finish; instructions are included, and only name, email and company name are needed to access the system.

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC
Agent for Ruthco Oil, LLC
Cc: Application File

User Information for the SOS Client & Affected Party Portal

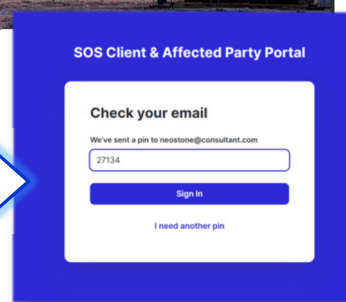
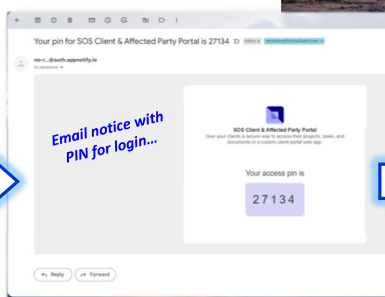
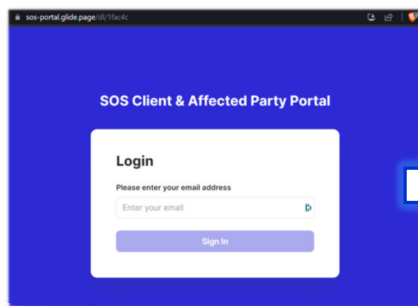
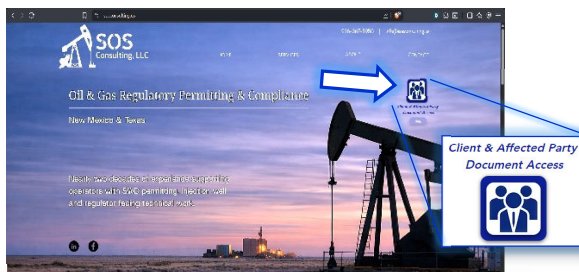
Thank you for using the new SOS Document Portal. This system allows for the **secure delivery of all types of applications and any resulting permits**. The system is built in and stored in the cloud using the best available platforms and code for a secure and robust app. We hope you appreciate our efforts to reduce printed paper copies and deliver pertinent documents in a much more efficient way. If you're a client, you may use the portal to view all the applications that SOS Consulting, LLC has generated on behalf of you or your organization.

1

Open the SOS Consulting website at: www.sosconsulting.us

Click the **App Icon** in the upper right corner of the screen...

The secure **SOS Client & Affected Party Portal** site will open...



2

Become a user of the site by entering your email address and basic info for your profile – minimal information is required although we ask that you provide your company name so we may view who and which companies have reviewed a particular document.

(Please note that nothing is done with your information – it is only for access to this portal.)

Each time you log into the SOS Portal, you will be sent a pin code for **2-Step Verification** to your email within 10 seconds. Enter the code for access to the portal.

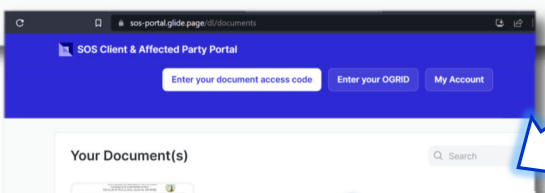
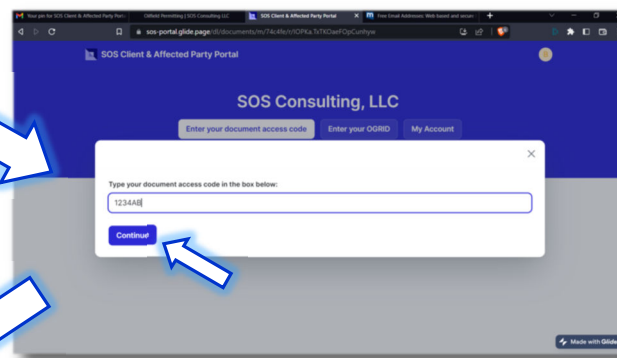
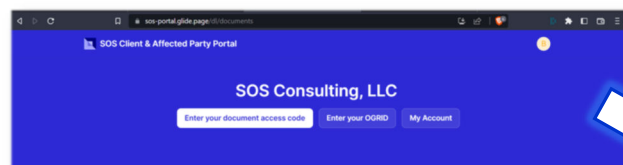


MOBILE ACCESS

3

The SOS portal will open to your user page or the portal home. If you don't see this screen, simply click on the SOS Client & Affected Party title and the home page will open. This page allows you to enter a **'Document Access Code'** or if a client, **'Enter your OGRID'**. *(When entering an OGRID, you will also be prompted for a Client ID for security – SOS Consulting will have already provided this to its clients.)*

Note: The unique Document Access Code is provided in your 'Notice Letter to Affected Parties'.



4

Click the **'Continue'** button and your document will open – click on the thumbnail image and you can **'View'** or **'Download'** the document.

Any number of users in your organization may use the same Document Access Code after signing in with their email address!

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7018 2290 0001 2038 9699

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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For delivery information, visit our website at www.usps.com®.

Hobbs, NM 88241

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Certified Mail Fee	\$5.30	0360
Extra Services & Fees (check box, add fee as appropriate)	\$4.40	?
<input type="checkbox"/> Return Receipt (hardcopy)	\$11.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.78	
Total Postage and Fees	\$10.48	04/29/2026

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City, State
PS Form

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Hobbs, NM 88240

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<input type="checkbox"/> Return Receipt (hardcopy)	\$11.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.78	
Total Postage and Fees	\$10.48	04/29/2026

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Street and
City, State
PS Form

KRATOS OPERATING, LLC
P.O. Box 769
Hobbs, NM 88241

Postmark Here

Instructions

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Fort Worth, TX 76102

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Certified Mail Fee	\$5.30	0360
Extra Services & Fees (check box, add fee as appropriate)	\$4.40	?
<input type="checkbox"/> Return Receipt (hardcopy)	\$11.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.78	
Total Postage and Fees	\$10.48	04/29/2026

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City, State
PS Form

XTO HOLDINGS, LLC
810 Houston St.
Midland TX 76102

Postmark Here

Instructions

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Carlsbad, NM 88220

OFFICIAL USE

Certified Mail Fee	\$5.30	0360
Extra Services & Fees (check box, add fee as appropriate)	\$4.40	?
<input type="checkbox"/> Return Receipt (hardcopy)	\$11.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.78	
Total Postage and Fees	\$10.48	04/29/2026

Sent To
Street and
City, State
PS Form

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

Postmark Here

Instructions

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
March 11, 2026
and ending with the issue dated
March 11, 2026.



Publisher

Sworn and subscribed to before me this
11th day of March 2026.



Business Manager

My commission expires
January 29, 2027

(Seal) STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

LEGALS

LEGAL NOTICE
March 11, 2026

Ruthco Oil, LLC, Hobbs, New Mexico is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to REINSTATE for salt water disposal its Hobbs East SA #104 SWD (API No.30-025-07950). The well is located 1980 feet from the North line and 2310 feet from the West line (Unit F) of Section 30, Township 18 South, Range 39 East, NMPM, Lea County, New Mexico. Produced water from area operators' production will be commercially disposed into the San Andres formation through perforations from 4420' to 6054' at a maximum surface pressure of 884 psi and an average surface pressure of 200 psi. (The well will generally operate on vacuum.) Maximum daily rate will be 3,750 bwpd and an average rate of 1,000 bwpd. The subject SWD well is located approximately 1.0 mile east of Hobbs, New Mexico.

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67104420

00309113

BEN STONE
SOS CONSULTING, LLC.
127 TEENA LANE
LIVINGSTON, TX 77351

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 591497

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 591497
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	6/3/2026