

**BEFORE THE OIL CONSERVATION DIVISION  
EXAMINER HEARING NOVEMBER 2, 2023**

**CASE NOS. 23614-23617**

**COVER, TOC, APPLICATIONS, EXHIBITS A THRU A-6**

*DOC GOODEN SWD #1 WELL*

*HERNANDEZ SWD #1 WELL*

*HODGES SWD #1 WELL*

*SEAVERS SWD #1 WELL*

**LEA COUNTY, NEW MEXICO**



**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATIONS OF GOODNIGHT  
MIDSTREAM PERMIAN, LLC FOR  
APPROVAL OF A SALT WATER DISPOSAL  
WELL, LEA COUNTY NEW MEXICO.**

**CASE NOS. 23614-23617**

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**Goodnight Midstream Exhibit A** – Self-Affirmed Statement of Nathan Alleman

- Goodnight Midstream Exhibit A-1: Nathan Alleman Resume
- Goodnight Midstream Exhibit A-2: Empire Administrative Protests
- Goodnight Midstream Exhibit A-3: Doc Gooden SWD #1 C-108
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- Goodnight Midstream Exhibit B-1: Preston McGuire Resume
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- Goodnight Midstream Exhibit B-15: Gulf Hearing Ex. 21, Case No. 8397

- Goodnight Midstream Exhibit B-16: Gulf Hearing Exhibit 22, Case No. 8397
- Goodnight Midstream Exhibit B-17: Hearing Tr. Case No. 8397
- Goodnight Midstream Exhibit B-18: SWD Injection Volumes
- Goodnight Midstream Exhibit B-19: EMSU #458 and #459 Flaring Request
- Goodnight Midstream Exhibit B-20: Map of EMSU Operators & Wells
- Goodnight Midstream Exhibit B-21: Empire's "BO/d Bubble Maps"
- Goodnight Midstream Exhibit B-22: Cross Section of Empire's EMSU Wells

**Goodnight Midstream Exhibit C – Affidavit of Notice**

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF GOODNIGHT  
MIDSTREAM PERMIAN, LLC FOR  
APPROVAL OF A SALTWATER DISPOSAL  
WELL, LEA COUNTY, NEW MEXICO.**

CASE NO. 23614

**APPLICATION**

Goodnight Midstream Permian, LLC (“Goodnight Midstream”) (OGRID No. 372311), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12(B)(15), for an order authorizing injection of produced salt water for purposes of disposal. In support, Goodnight Midstream states the following:

1. Attached is a complete Form C-108 application for authorization to inject which contains all the information necessary to authorize the requested approval to inject and filed with the Division for administrative approval on May 12, 2023. See C-108, attached as **Exhibit A**, and incorporated herein.

2. Goodnight Midstream proposes to drill a new commercial saltwater disposal well to be named the **Doc Gooden SWD #1 Well** (API No. pending), which will be located 1,596 feet from the south line and 1,334 feet from the east line (Unit J) in Section 3, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.

3. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 4,900 feet below the ground through a perforated completion.

4. Disposal fluid will be produced saltwater from oil and gas wells in the area producing from the Delaware Mountain Group, Wolfcamp, and Bone Spring formations.

5. The estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi.

6. Approving this application will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. The administrative application was protested. Accordingly, Goodnight Midstream hereby requests that its application be set for hearing pursuant to 19.15.26.8(E) NMAC.

WHEREFORE, Goodnight Midstream Permian, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 6, 2023, and, after notice and hearing as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP

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pmvance@hollandhart.com

**ATTORNEYS FOR GOODNIGHT MIDSTREAM  
PERMIAN, LLC**

CASE \_\_\_\_\_: **Application of Goodnight Midstream Permian, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the **Doc Gooden SWD #1 Well** (API No. pending), which will be located 1,596 feet from the south line and 1,334 feet from the east line (Unit J) in Section 3, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Injection will be into the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 4,900 feet below the ground through a perforated completion. Disposal fluid will be produced water from producing oil and gas wells in the area. Estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi. The subject well will be located approximately 7 miles northwest of Eunice, N.M.

## EXHIBIT A

# ALL CONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

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May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Doc Gooden SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Doc Gooden SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

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

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

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

\_\_\_\_\_  
 Print or Type Name

*Nathan Allen*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Phone Number

\_\_\_\_\_  
 e-mail Address




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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance   X   Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?   X   Yes \_\_\_\_\_ No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes   X   No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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: Nathan Alleman TITLE: Sr. Regulatory Specialist  
SIGNATURE:  DATE: 5/12/2023  
E-MAIL ADDRESS: nalleman@all-llc.com
- XV. 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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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.

Application for Authorization to Inject  
Well Name: Doc Gooden SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Doc Gooden SWD #1  
Location Footage Calls: 1,596 FSL & 1,334 FEL  
Legal Location: Unit Letter J, S3 T21S R36E  
Ground Elevation: 3,548'  
Proposed Injection Interval: 4,200' – 4,900'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,370'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,000'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 4,900'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,642')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,205')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are 21 wells that penetrate the injection zone, 12 of which has been properly plugged and abandoned, while the other 9 wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 4,900 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,345 feet. Water well depths in the area range from approximately 129 – 181 feet below ground surface.

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF GOODNIGHT  
MIDSTREAM PERMIAN, LLC FOR  
APPROVAL OF A SALTWATER DISPOSAL  
WELL, LEA COUNTY, NEW MEXICO.**

CASE NO. 23615

**APPLICATION**

Goodnight Midstream Permian, LLC (“Goodnight Midstream”) (OGRID No. 372311), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12(B)(15), for an order authorizing injection of produced salt water for purposes of disposal. In support, Goodnight Midstream states the following:

1. Attached is a complete Form C-108 application for authorization to inject which contains all the information necessary to authorize the requested approval to inject and filed with the Division for administrative approval on May 12, 2023. See C-108, attached as **Exhibit A**, and incorporated herein.

2. Goodnight Midstream proposes to drill a new commercial saltwater disposal well to be named the **Hernandez SWD #1 Well** (API No. pending), which will be located 326 feet from the south line and 793 feet from the east line (Unit P) in Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.

3. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion.

4. Disposal fluid will be produced saltwater from oil and gas wells in the area producing from the Delaware Mountain Group, Wolfcamp, and Bone Spring formations.

5. The estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi.

6. Approving this application will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. The administrative application was protested. Accordingly, Goodnight Midstream hereby requests that its application be set for hearing pursuant to 19.15.26.8(E) NMAC.

WHEREFORE, Goodnight Midstream Permian, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 6, 2023, and, after notice and hearing as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP

By:   
Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Paula M. Vance  
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agrarkin@hollandhart.com  
jbroggi@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR GOODNIGHT MIDSTREAM  
PERMIAN, LLC**

**CASE \_\_\_\_\_: Application of Goodnight Midstream Permian, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the **Hernandez SWD #1 Well** (API No. pending), which will be located 326 feet from the south line and 793 feet from the east line (Unit P) in Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Injection will be into the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. Disposal fluid will be produced water from producing oil and gas wells in the area. Estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi. The subject well will be located approximately 7 miles northwest of Eunice, N.M.

## EXHIBIT A

# ALL CONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

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May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hernandez SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hernandez SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist



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**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: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<u>FOR OCD ONLY</u>	
<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.**

\_\_\_\_\_  
 Print or Type Name

\_\_\_\_\_  
Date

*Nathan Aleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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.
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- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. 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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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.

Application for Authorization to Inject  
Well Name: Hernandez SWD #1

### III – Well Data (The Wellbore Diagram is included as Attachment 1)

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hernandez SWD #1  
Location Footage Calls: 326 FSL & 793 FEL  
Legal Location: Unit Letter P, S10 T21S R36E  
Ground Elevation: 3,571'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,355'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,735')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other three wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,330 feet. Water well depths in the area range from approximately 147 - 220 feet below ground surface.

## **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

## **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. One of the groundwater wells located within one mile has been sampled (CP-01696 POD 1 on 8/26/2021). The remaining three water wells were determined to not be active freshwater wells.

A water well map, details of water wells within 1-mile, and water sampling results for CP-01696 POD 1 are included in **Attachment 5**.

## **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram



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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HERNANDEZ SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3571'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	21 S	36 E		326'	SOUTH	793'	EAST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

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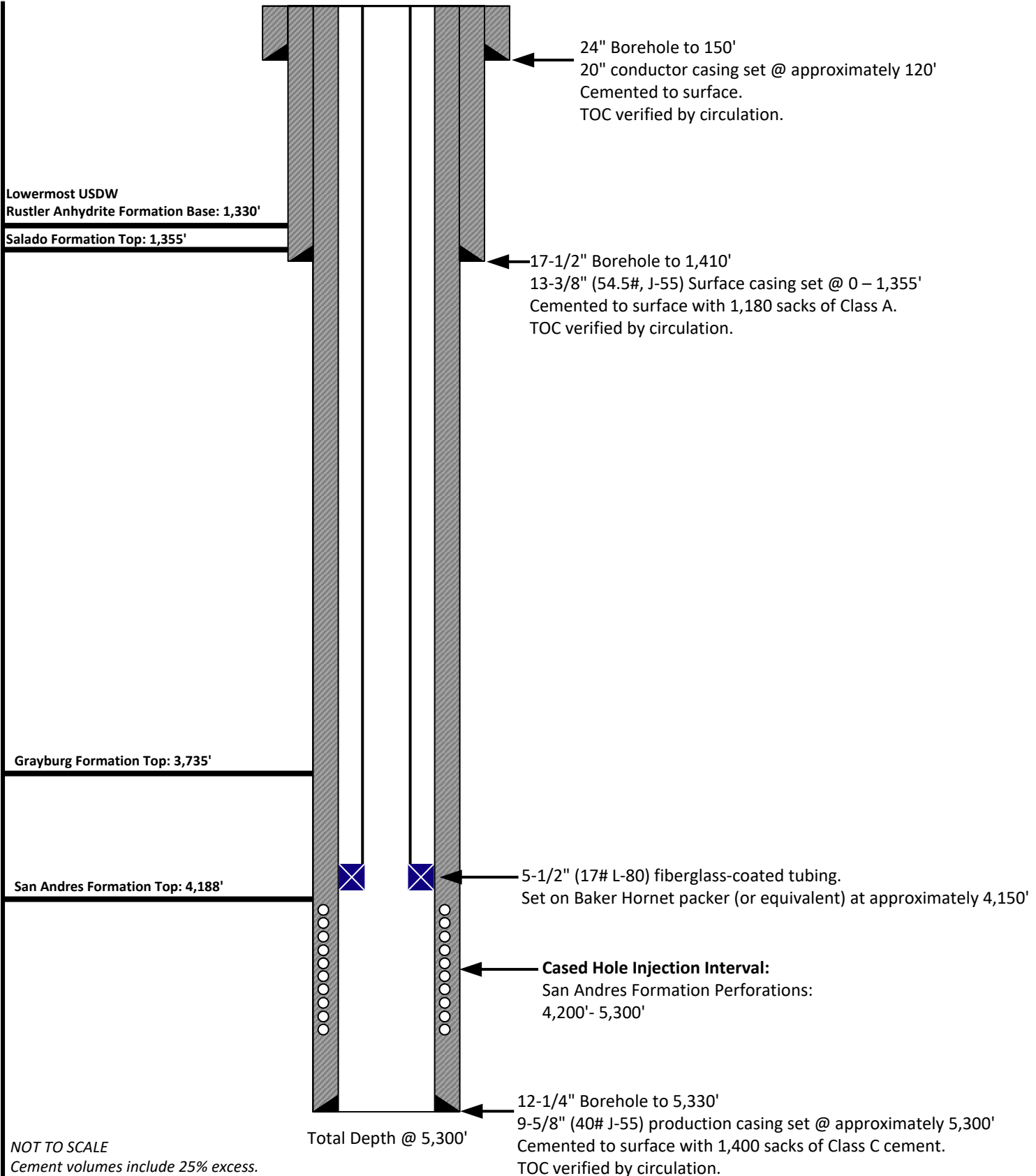
**SURVEYOR CERTIFICATION**

*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: 04/28/2023

Signature and Seal of Professional Surveyor: \_\_\_\_\_

Certificate Number: 21209  
TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor, P.E.</p>	<p><b>Goodnight Midstream Permian, LLC</b> Proposed Wellbore Diagram Hernandez SWD #1 326' FSL &amp; 793' FEL Section 10 , Twp 21 S, Rng 36 E Lea County, New Mexico</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 4/11/2023</p>	

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

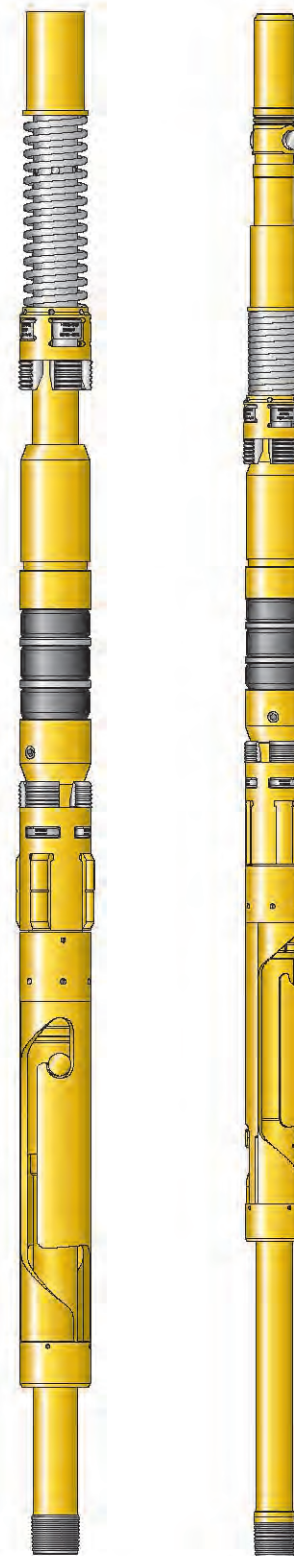
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



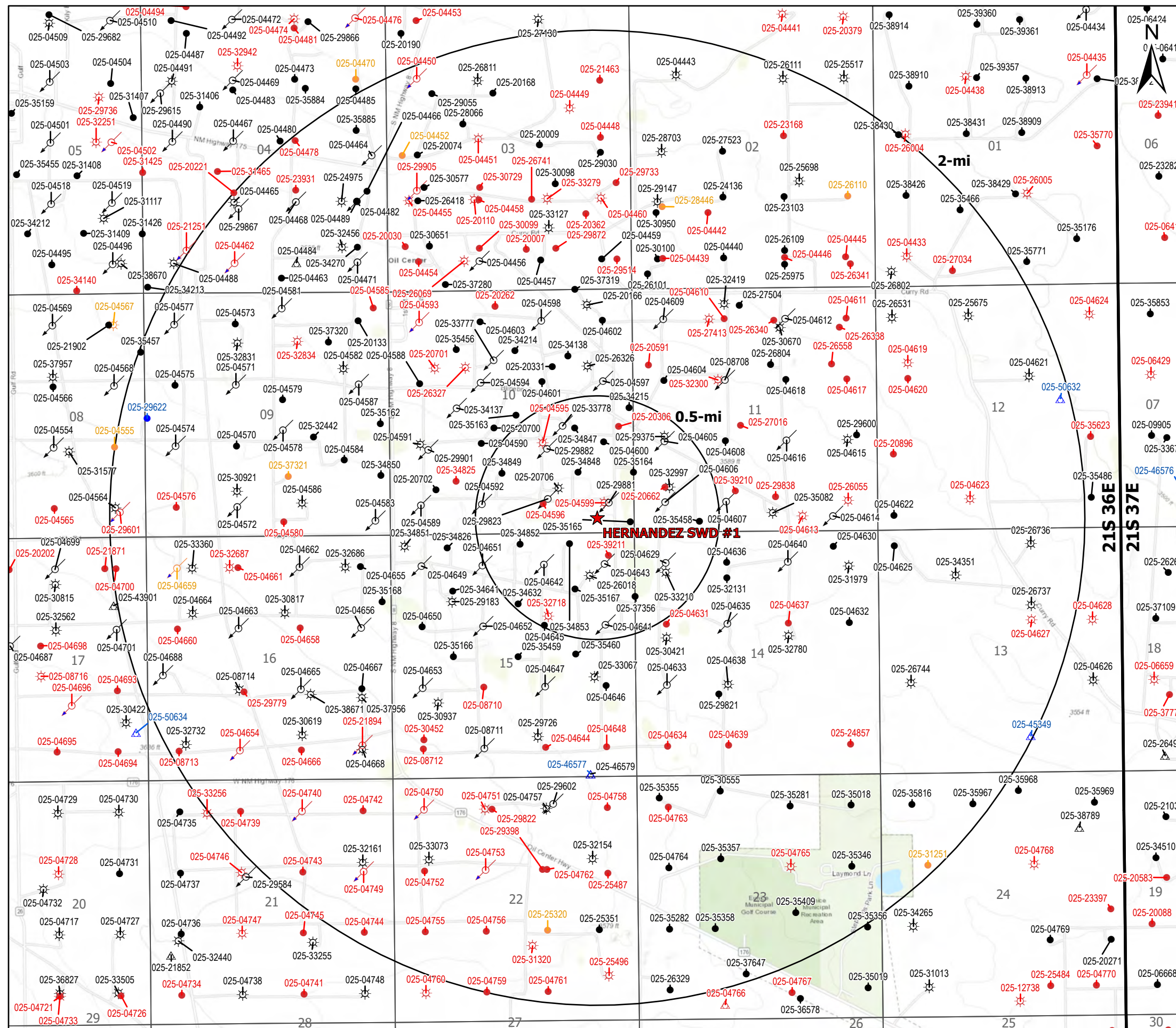
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## Attachment 2

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☀ Gas, Active (84)
- ☀ Gas, Plugged (49)
- ☀ Gas, Temporarily Abandoned (1)
- ↻ Injection, Active (72)
- ↻ Injection, Plugged (16)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (164)
- Oil, New (1)
- Oil, Plugged (107)
- Oil, Temporarily Abandoned (8)
- △ Salt Water Injection, Active (6)
- △ Salt Water Injection, New (6)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
<https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/>

<b>O&amp;G Wells Area of Review</b>		
<b>HERNANDEZ SWD #1</b>		
LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

### AOR Tabulation for Hernandez SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
STATE D #018	30-025-32718	Plugged	CONOCOPHILLIPS COMPANY	11/1/1994	G-15-21S-36E	(Plugged) 3,654	No
STATE D COM #019	30-025-32997	Gas	PENROC OIL CORP	7/5/1995	M-11-21S-36E	3,685	No
LOCKHART B #012	30-025-33210	Gas	PENROC OIL CORP	4/4/1996	D-14-21S-36E	3,700	No
STATE D COM #016	30-025-29375	Gas	PENROC OIL CORP	12/31/9999	L-11-21S-36E	3,750	No
STATE D #014	30-025-26018	Gas	PENROC OIL CORP	7/31/1978	A-15-21S-36E	3,800	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	(Plugged) 3,860	No
EUNICE MONUMENT SOUTH UNIT #358	30-025-04642	Injection	Empire New Mexico LLC	7/17/1936	B-15-21S-36E	3,865	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	(Plugged) 3,865	No
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
EUNICE MONUMENT SOUTH UNIT #357	30-025-04643	Injection	Empire New Mexico LLC	7/29/1936	A-15-21S-36E	3,875	No
EUNICE MONUMENT SOUTH UNIT #387	30-025-04645	Oil	Empire New Mexico LLC	11/1/1936	G-15-21S-36E	3,880	No
JOHN D KNOX #005	30-025-04599	Plugged	EXXON MOBIL CORPORATION	9/6/1936	P-10-21S-36E	(Plugged) 3,885	No
EUNICE MONUMENT SOUTH UNIT #315	30-025-04600	Oil	Empire New Mexico LLC	3/20/1981	I-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #699	30-025-34215	Oil	Empire New Mexico LLC	2/23/1998	H-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #739	30-025-35458	Oil	Empire New Mexico LLC	5/15/2001	N-11-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #737	30-025-34853	Oil	Empire New Mexico LLC	2/29/2000	B-15-21S-36E	3,914	No
EUNICE MONUMENT SOUTH UNIT #708	30-025-34848	Oil	Empire New Mexico LLC	2/19/2000	I-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #707	30-025-35164	Oil	Empire New Mexico LLC	10/27/2000	P-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #698	30-025-34847	Oil	Empire New Mexico LLC	4/1/2000	I-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #738	30-025-35165	Oil	Empire New Mexico LLC	11/4/2000	P-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #347	30-025-04606	Injection	Empire New Mexico LLC	9/10/1936	M-11-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #356	30-025-04629	Injection	Empire New Mexico LLC	8/21/1936	D-14-21S-36E	3,941	No
EUNICE MONUMENT SOUTH UNIT #747	30-025-35167	Oil	Empire New Mexico LLC	11/15/2000	A-15-21S-36E	3,946	No
EUNICE MONUMENT SOUTH UNIT #748	30-025-34632	Oil	Empire New Mexico LLC	7/2/1999	G-15-21S-36E	3,950	No
EUNICE MONUMENT SOUTH UNIT #388	30-025-04641	Injection	Empire New Mexico LLC	6/11/1934	H-15-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #346	30-025-29881	Injection	Empire New Mexico LLC	12/31/9999	P-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
EUNICE MONUMENT SOUTH UNIT #314	30-025-04605	Injection	Empire New Mexico LLC	8/2/1936	L-11-21S-36E	4,091	No
EUNICE MONUMENT SOUTH UNIT #746	30-025-37356	Oil	Empire New Mexico LLC	8/26/2005	H-15-21S-36E	5,455	Yes
STATE D BATTERY 2 #130	30-025-20662	Plugged	CONOCO INC	11/21/1990	M-11-21S-36E	(Plugged) 6,000	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
JOHN D KNOX #011	30-025-20306	Plugged	Empire New Mexico LLC	11/23/1963	I-10-21S-36E	(Plugged) 6,225	Yes
STATE D 15 #002	30-025-39211	Plugged	CONOCOPHILLIPS COMPANY	2/18/2009	A-15-21S-36E	(Plugged) 7,197	Yes

Notes:

### Casing Information for Wells Penetrating the Hernandez SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
EUNICE MONUMENT SOUTH UNIT #746	1274'	8.625"	Surface	Circulation	625	12.25"	5450'	5.5"	Surface	Circulation	990	7.875"
STATE D BATTERY 2 #130	1339'	7.625"	Surface	Circulation	375	11"	6000'	4.5"	2450'	Temp. Survey	370	6.75"
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	9.875"	6020'	4.5"	2500'	Temp. Survey	525	6.75"
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	12.25"	6400'	5.5"	Surface	Circulation	1200	7.875"
JOHN D KNOX #011	1318'	7.625"	Surface	Circulation	575	11"	6214'	4.5"	2400'	Temp. Survey	500	6.75"
STATE D 15 #002	1380'	8.625"	Surface	Circulation	640	12.25"	7187'	5.5"	Surface	Circulation	1485	7.875"

Well Name	Plugging Information
EUNICE MONUMENT SOUTH UNIT #746	-
STATE D BATTERY 2 #130	CIBP set at 5800' and spot 7 sacks cement on top. Perforated at 1470' and pumped 270 sacks cement to surface.
JOHN D KNOX #012	-
JOHN D KNOX #014	-
JOHN D KNOX #011	CIBP set at 5,745' with 2.5 sack cement on top. Cement plugs set at 5,288'-5,723' with 30 sks, 2510' - 2940' with 25 sks, Cement plugged squeezed at 948' - 1368' with 50 sks, cement plug set from the surface to 300'.
STATE D 15 #002	CIBP set at 6,849' and 25 sack cement placed on top. Set second CIBP at 5,648' and placed 25 sack cement on top. 50 sack Cement plug set at 3721' - 4020', 25 sack plugs set at 2471' - 2478', and 1,226'- 1,481'. Spot 45 sks cement from Surface - 413'.

Lowermost USDW  
Rustler Anhydrite Formation Base: 1,225'

Salado Formation Top: 1,250'

7-5/8" 24# surface casing set at approximately 1,339'.  
375 sacks cement circulated to surface.

270 sack cement plug squeezed at 1,470'. Top of plug at surface.

Geologic Isolation: 2,250'

Production casing top of cement 2,450'

**Hernandez SWD #1 Injection Interval:**  
San Andres Formation 4,200'- 5,300'

CIBP with cement placed on top:  
5,694'-5,800'

**Squeezed Perforated Interval:**

5,825'-5,960'

**Plugged Perforated Interval:**

5,889'-5,956'

4-1/2" 9.5# & 11.6# production casing set at approximately 6,000' using 370 sacks cement. Top of cement at 2,450' by temp survey.

**Total Depth:**  
6,000'

Not to Scale



Prepared by:

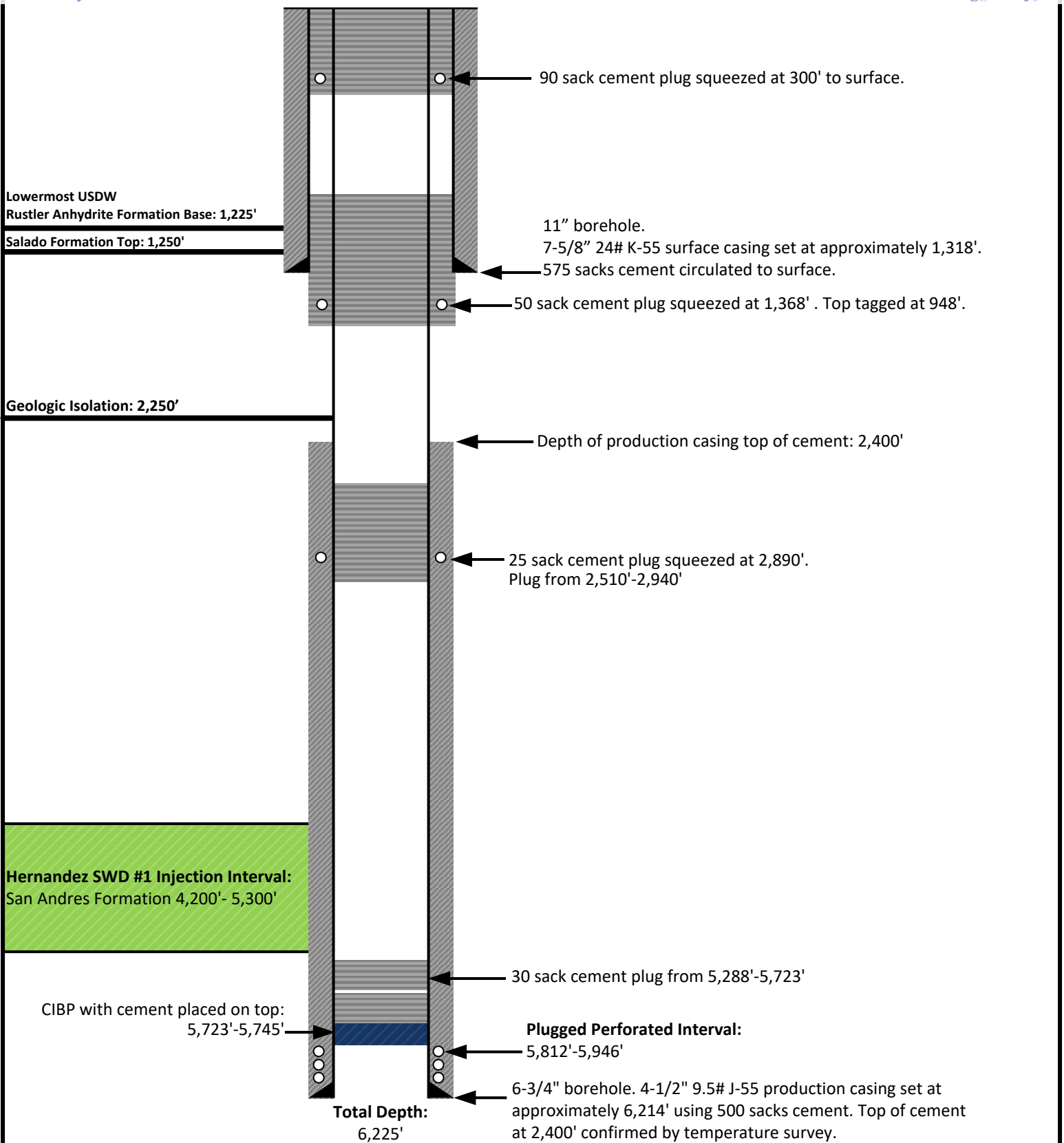
Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman



Date: 05/05/2023

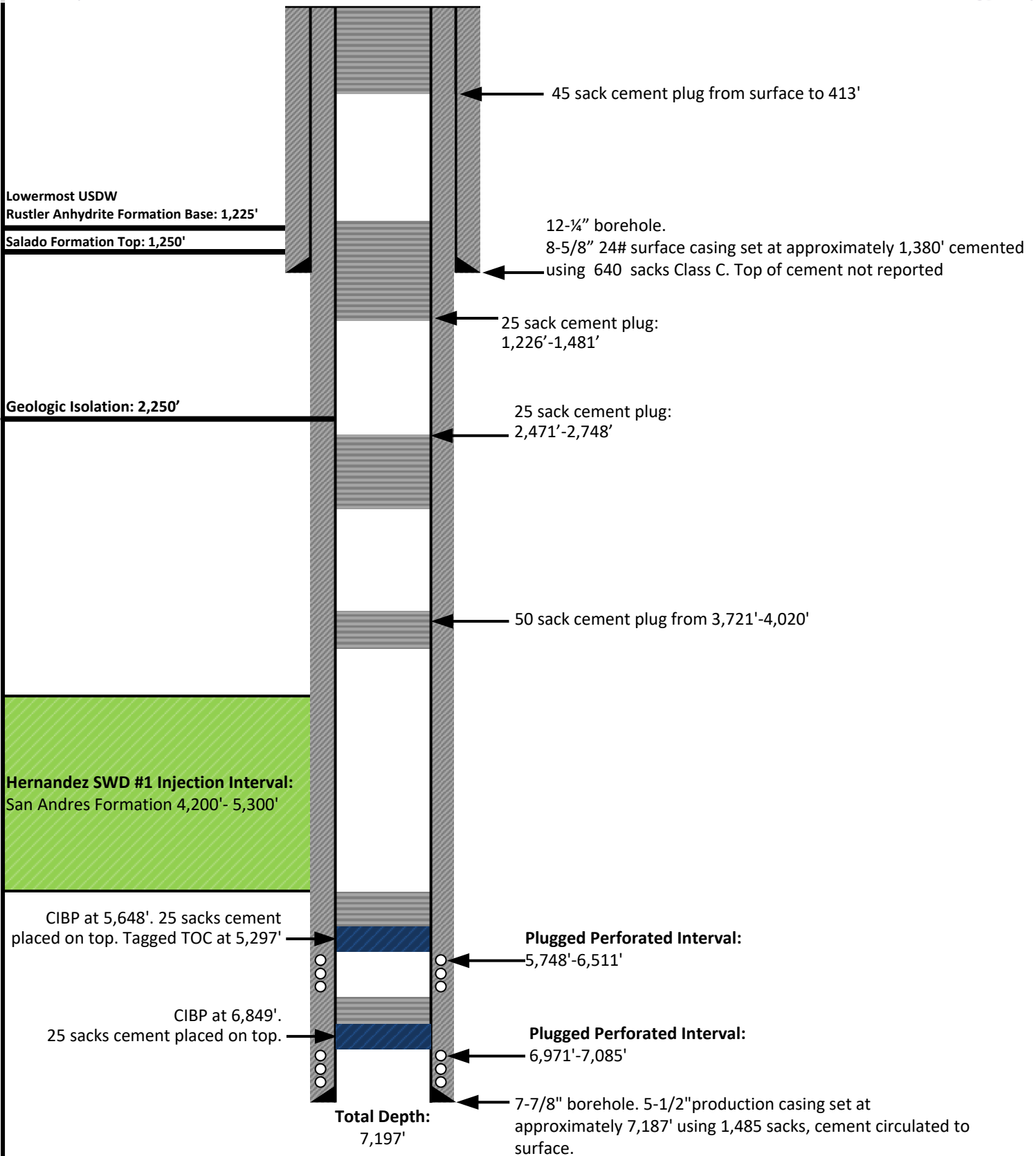
State D Battery 2 #130  
Wellbore Diagram  
API: 30-025-20662  
Spud Date: 8/28/1964  
Plugged and Abandoned: 11/21/1990  
Operated By: Conoco Inc.





Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>John D Knox #11 Wellbore Diagram API: 30-025-20306 Plugged and Abandoned: 03/11/2020 Operated By: XTO Energy Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

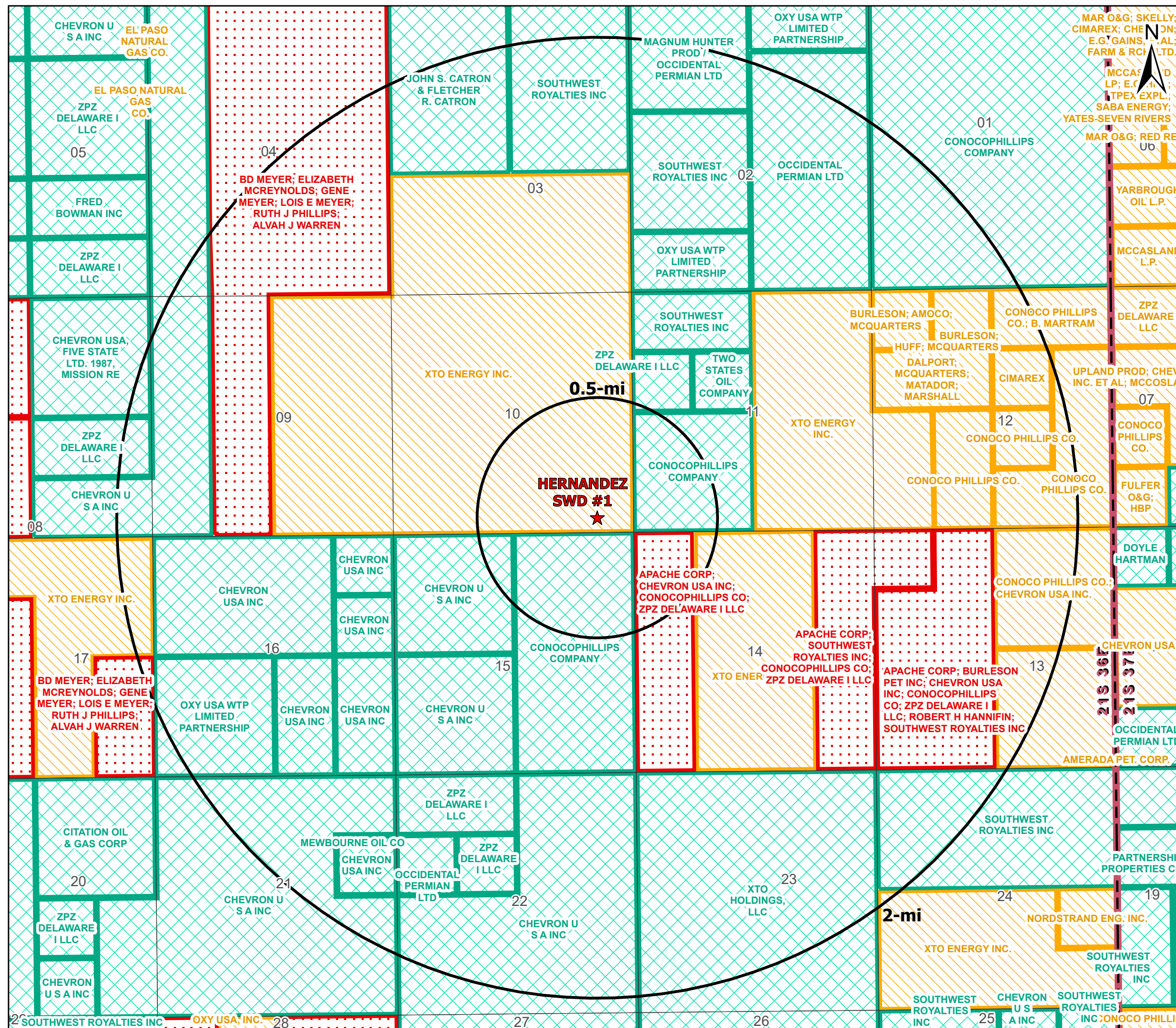
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

State D-15  
Wellbore Diagram  
API: 30-025-39211  
Spud Date: 02/18/2009  
Plugged and Abandoned: 05/9/2012  
Operated By: Conoco Phillips Company



### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

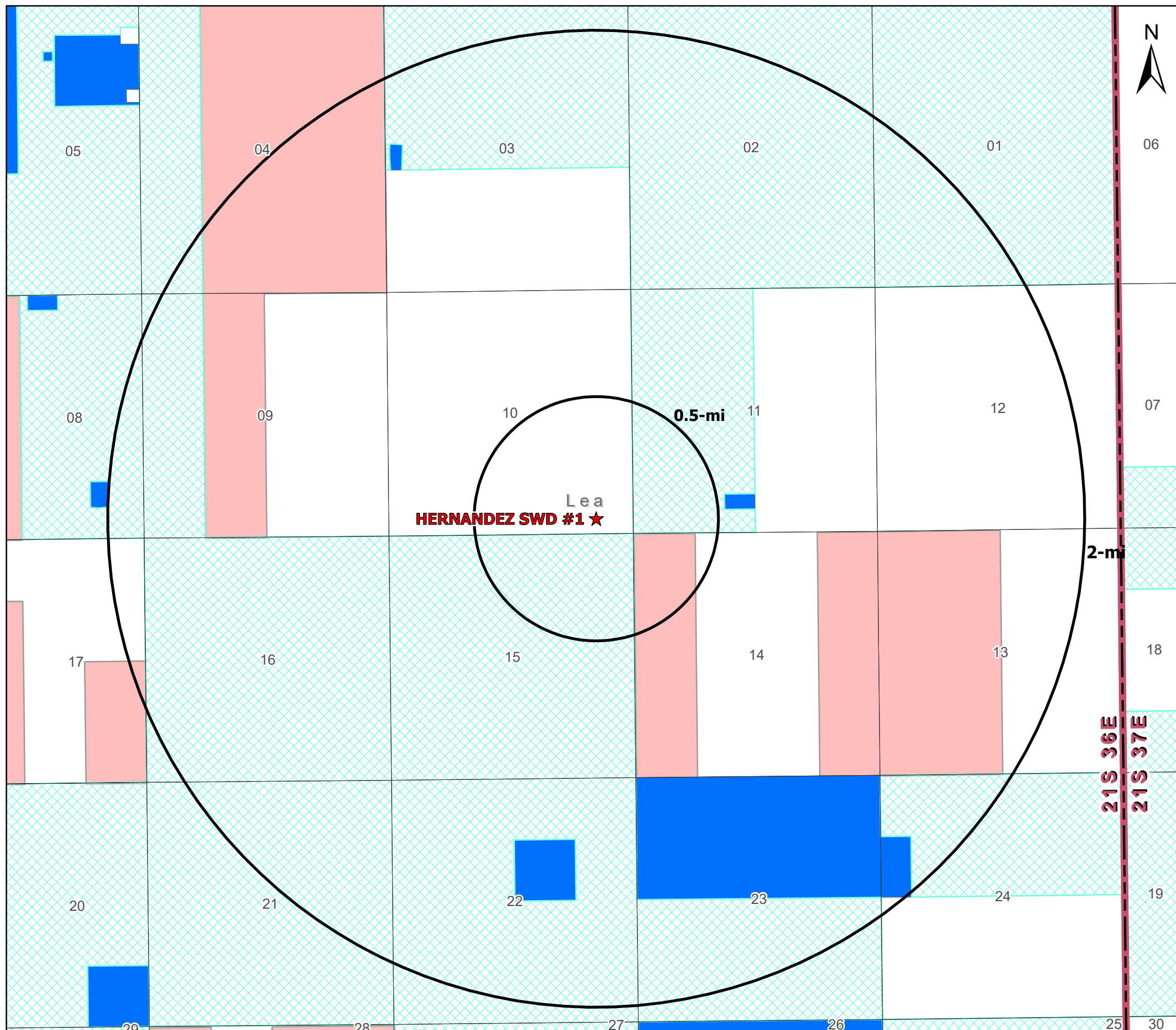
## Mineral Lease Area of Review

### HERNANDEZ SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
---------------------------	--------------	------------------------------

Prepared for: 	Prepared by: 
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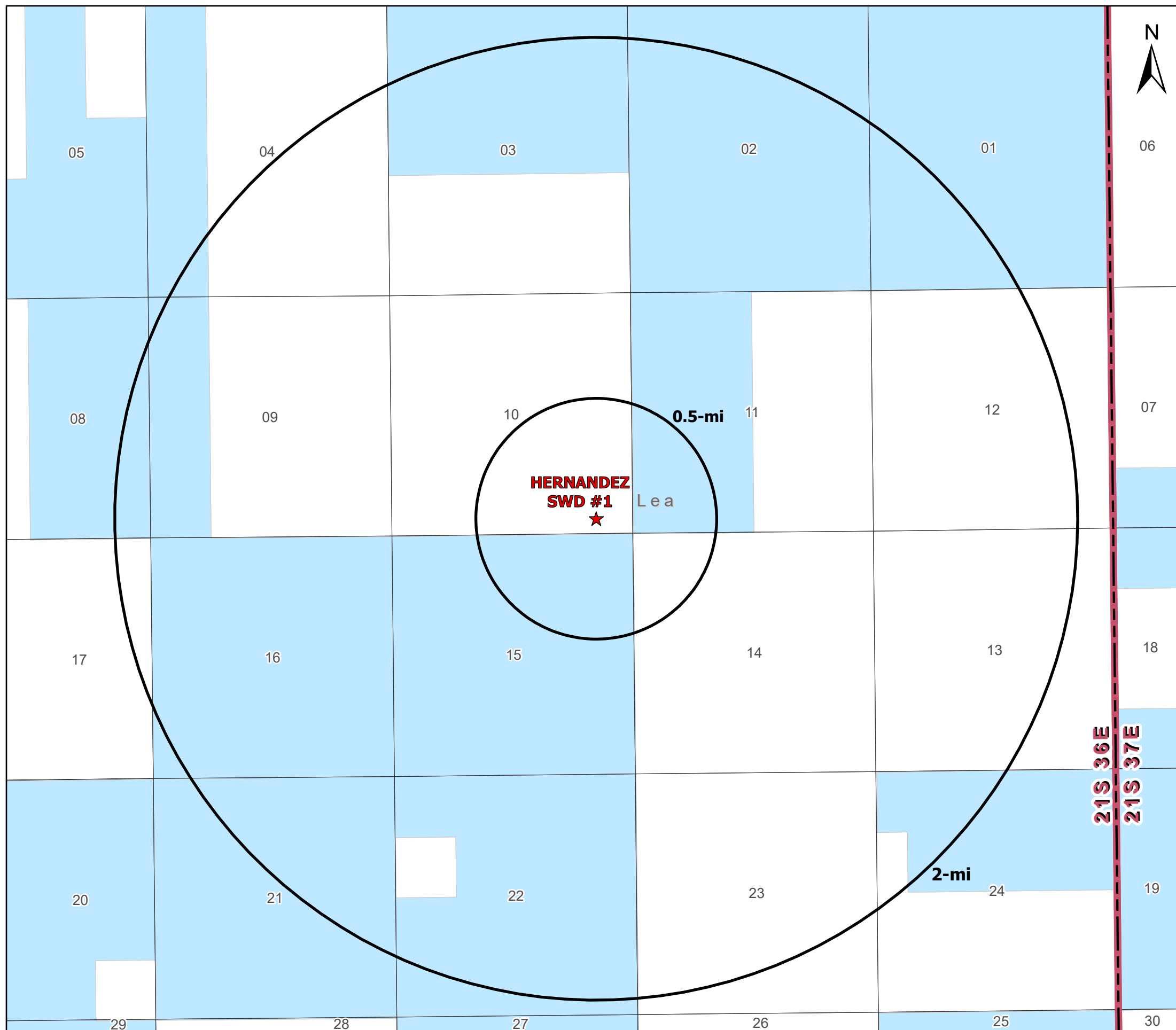




### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	



### Legend

★ Proposed SWD

### Surface Ownership

□ Private

■ State

## Surface Ownership Area of Review

### HERNANDEZ SWD #1 LEA COUNTY, NEW MEXICO

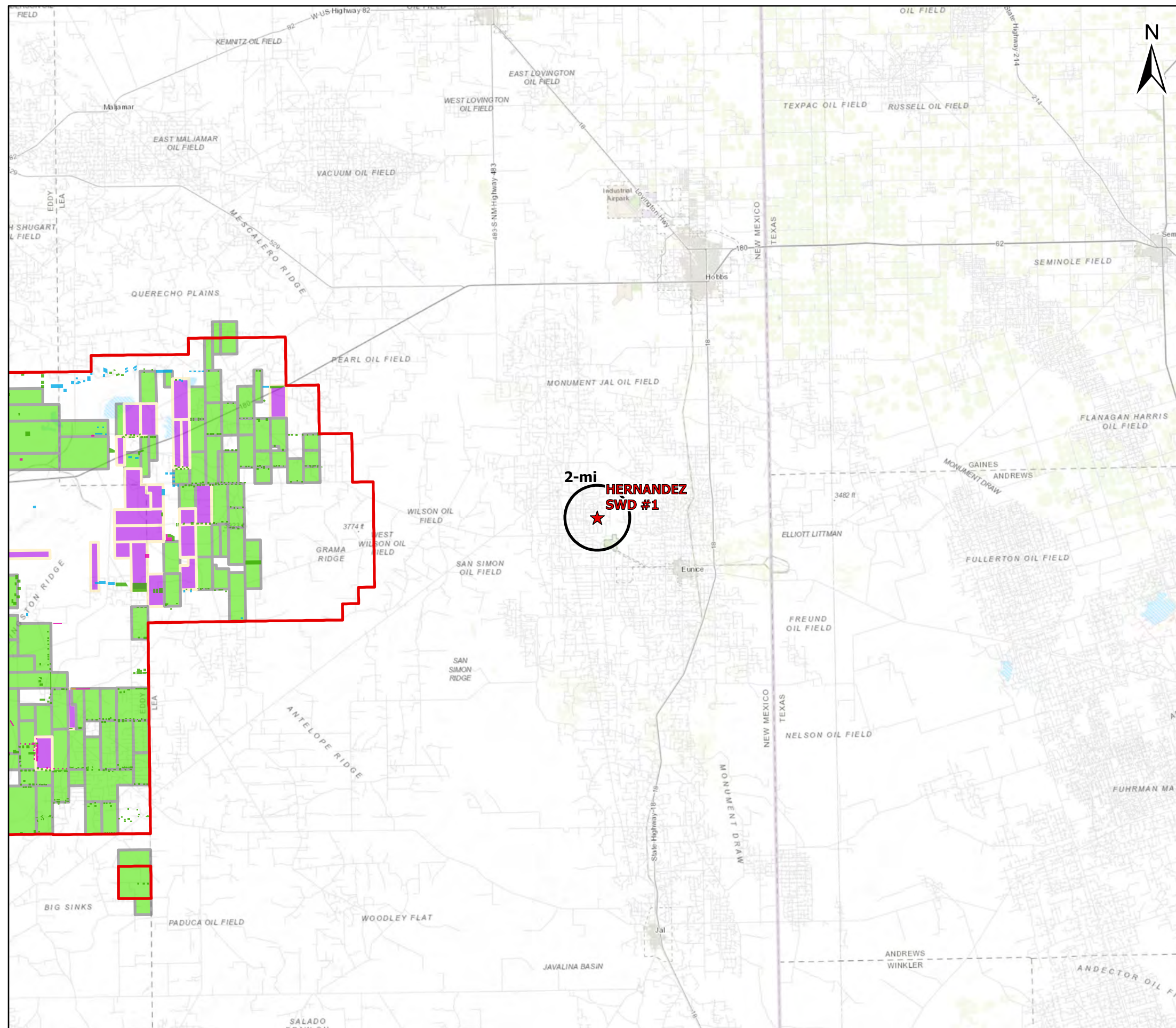
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING



### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- #### Status, Depth Buffer
- Approved, Half Mile (283)
  - Approved, Quarter Mile (26)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- #### Status
- Approved (86)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049



**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### HERNANDEZ SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  


Prepared by:  


Water Well Sampling Rationale					
Goodnight Midstream Permian- Hernandez SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00734	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	New Mexico Office of the State Engineer record confirm this well is not an active fresh water well.
CP-00685	DASCO LAND CORPORATION	P.O. BOX 2545 Hobbs, NM, 88241	Oil Production	No	Not a freshwater well
CP-00279	CONTINENTAL OIL COMPANY	P.O. BOX 460 Hobbs, NM, 88241	Industrial	No	Well currently T.A.
CP-01696	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
<b>Note:</b>					



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

September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

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

**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

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

**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
-----	-----	------	------	--	-----	--	--	------	----	--

**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
----	------	--	----------	------	--	-----	--------	--	--	--

**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
----	------	-------	----------	--	------	--	--	-------	----	--

Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
--------------	------	------	-----------------	--	------	--	--	-------	----	--

Resistivity	2.00		Ohms/m		2.00			0.200	20	
-------------	------	--	--------	--	------	--	--	-------	----	--

Temperature °C	19.6		pH Units		19.6			0.00	200	
----------------	------	--	----------	--	------	--	--	------	-----	--

**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

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

**Batch 1083009 - Filtration**

**Blank (1083009-BLK1)** Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	ND	2.00	mg/L							
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**Duplicate (1083009-DUP1)** Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	2.00	2.00	mg/L		2.00			0.00	52.7	
-----	------	------	------	--	------	--	--	------	------	--

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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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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*Celey D. Keene*

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: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Owner: _____ City: _____ State: _____ Zip: _____ Project Location: <b>Wilburta Travis</b> Phone #: _____ Fax #: _____ Sampler Name: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
Date: <b>8-24-21</b> Time: <b>3:15</b> Date: _____ Time: _____		MATRIX _____ PRESERV _____ SAMPLING _____ DATE <b>8-25-21</b> TIME <b>2:15</b> DATE _____ TIME _____	
Relinquished By: <i>[Signature]</i> Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <b>5.9</b> Corrected Temp. °C _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <b>TP</b>		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

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† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE ¼ SE ¼, Section 10, Township 21S, Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.



# 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  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



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

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**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE 1/4 SE 1/4, Section 10, Township 21S,  
Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200' - 5,300')  
EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
#00278370

67115320

00278370

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

<b>Hernandez SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
Apache Corporation (APACHE CORP)	2000 Post Oak Blvd., Suite 150	Houston	TX	77056
Bureau of Land Management	620 E Greene St.	Carlsbad	NM	88220
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
ConocoPhillips Company (CONOCOPHILLPS CO)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corpotation	P.O. Box 2769	Hobbs	NM	88241
XTO Energy Inc.	500 W. Illinois, Suite 100	Midland	TX	79701
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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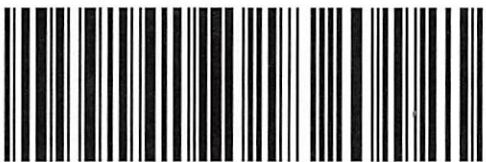
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MIDLAND TX 79701-4337

New Mexico State Land Office  
310 OLD SANTA FE TRL  
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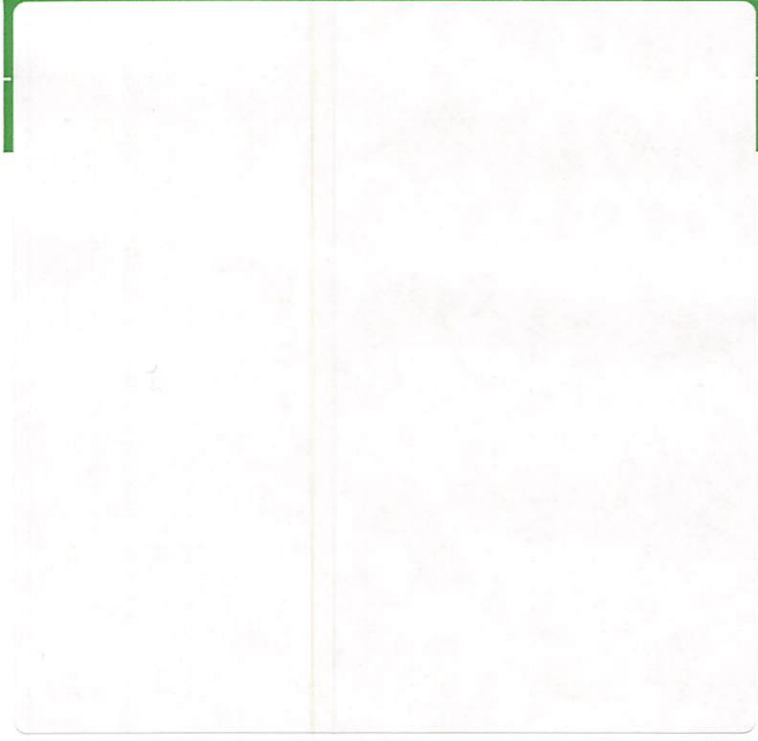
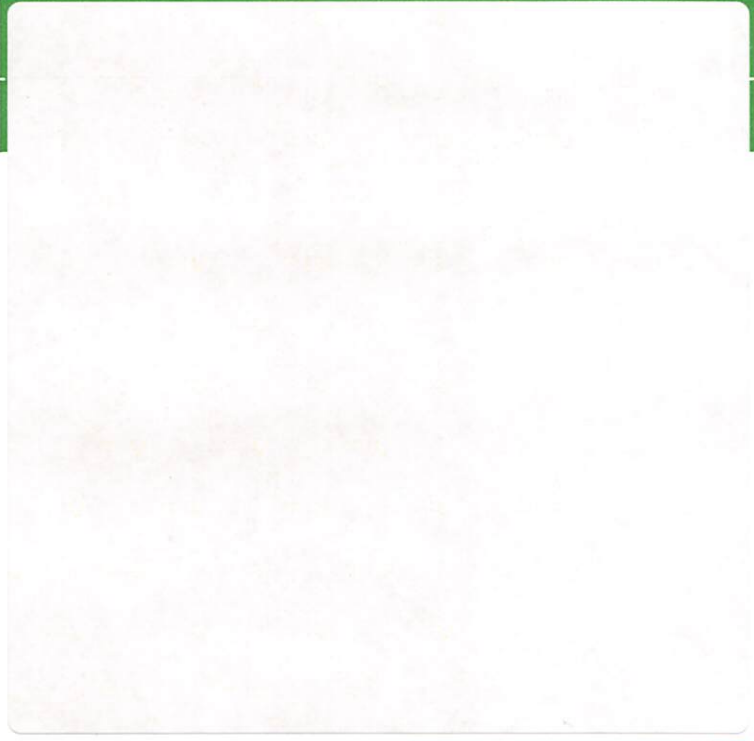
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Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
Southwest Bank Trust Department  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214



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ConocoPhillips Company  
PO BOX 2197  
HOUSTON TX 77252-2197

**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hernandez SWD well permit

Lot P, Section 10, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

Date



**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF GOODNIGHT  
MIDSTREAM PERMIAN, LLC FOR  
APPROVAL OF A SALTWATER DISPOSAL  
WELL, LEA COUNTY, NEW MEXICO.**

CASE NO. 23616

**APPLICATION**

Goodnight Midstream Permian, LLC (“Goodnight Midstream”) (OGRID No. 372311), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12(B)(15), for an order authorizing injection of produced salt water for purposes of disposal. In support, Goodnight Midstream states the following:

1. Attached is a complete Form C-108 application for authorization to inject which contains all the information necessary to authorize the requested approval to inject and filed with the Division for administrative approval on May 12, 2023. See C-108, attached as **Exhibit A**, and incorporated herein.

2. Goodnight Midstream proposes to drill a new commercial saltwater disposal well to be named the **Hodges SWD #1 Well** (API No. pending), which will be located 2,833 feet from the north line and 1,620 feet from the west line (Lot 11) in Section 4, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.

3. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,100 feet and 5,200 feet below the ground through a perforated completion.

4. Disposal fluid will be produced saltwater from oil and gas wells in the area producing from the Delaware Mountain Group, Wolfcamp, and Bone Spring formations.

5. The estimated average surface injection pressure is expected to be approximately 500 psi. The maximum surface injection pressure will be 820 psi.

6. Approving this application will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. The administrative application was protested. Accordingly, Goodnight Midstream hereby requests that its application be set for hearing pursuant to 19.15.26.8(E) NMAC.

WHEREFORE, Goodnight Midstream Permian, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 6, 2023, and, after notice and hearing as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP

By:   
Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Paula M. Vance  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
mfeldewert@hollandhart.com  
agrarkin@hollandhart.com  
jbroggi@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR GOODNIGHT MIDSTREAM  
PERMIAN, LLC**

CASE \_\_\_\_\_: **Application of Goodnight Midstream Permian, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the **Hodges SWD #1 Well** (API No. pending), which will be located 2,833 feet from the north line and 1,620 feet from the west line (Lot 11) in Section 4, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Injection will be into the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,100 feet and 5,200 feet below the ground through a perforated completion. Disposal fluid will be produced water from producing oil and gas wells in the area. Estimated average surface injection pressure is expected to be approximately 500 psi. The maximum surface injection pressure will be 820 psi. The subject well will be located approximately 10 miles northwest of Eunice, N.M.

## EXHIBIT A

# ALL CONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

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May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hodges SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hodges SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<b>FOR OCD ONLY</b>
<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.**

\_\_\_\_\_  
 Print or Type Name

*Nathan Aleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. 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

Side 2

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject  
Well Name: Hodge SWD #1

### III – Well Data (The Wellbore Diagram is included as Attachment 1)

#### A.

##### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hodge SWD #1  
Location Footage Calls: 2,833 FNL & 1,620 FWL  
Legal Location: Unit Letter 11, S4 T21S R36E  
Ground Elevation: 3,558'  
Proposed Injection Interval: 4,100' – 5,200'  
County: Lea

##### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,250'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,200'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,050'	N/A	N/A	N/A

##### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,050'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,050'

#### B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,100' – 5,200'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,610')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,233')
- Tubb (6,810')



## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged penetrating wellbore diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are eleven wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other eight wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 820 psi (surface)  
**Proposed Average Injection Pressure:** approximately 500 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,100 – 5,200 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,225 feet. Water well depths in the area range from approximately 9 - 181 feet below ground surface.

## **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

## **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. Three of the water wells have been determined to not be fresh water wells, and the owner of water well CP-01889-POD 1 has confirmed that this is not an active water well. Therefore, no water well samples were taken in association with this application.

A water well map and details of water wells within 1-mile are included in **Attachment 5**.

## **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram

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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HODGES SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3558'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11	04	21 S	36 E		2833'	NORTH	1620'	WEST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

The map shows a well location (red circle) and a surface location (black square) within a grid of sections 04, 05, 08, and 09, and ranges 32 and 33. Distances from the well to the surface are 2833' north and 1620' west. Three 2" capped iron pipes are marked with their coordinates. A calculated corner is also shown.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**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.*

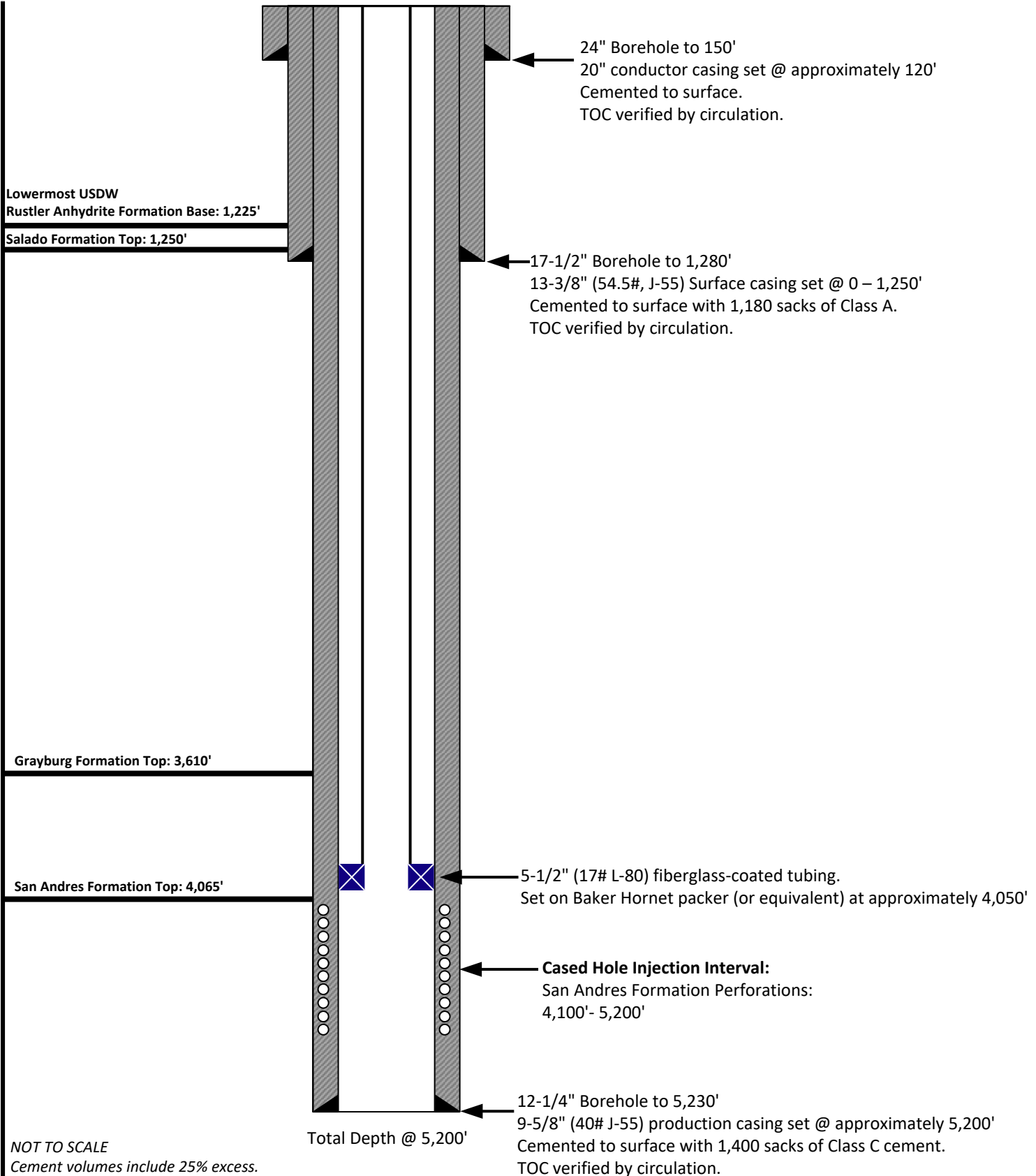
04/28/2023

Date of Survey \_\_\_\_\_

Signature and Seal of Professional Surveyor \_\_\_\_\_

Certificate Number \_\_\_\_\_

21209  
TIM C. PAPPAS



NOT TO SCALE

Cement volumes include 25% excess.

Anticipated daily maximum volume: 42,000 bwpd

Maximum surface Injection Pressure: 840 psig

(0.2 psi/ft to the top of the injection interval)

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor, P.E.  
Project Manager:  
Nathan Alleman  
Date: 4/11/2023

**Goodnight Midstream Permian, LLC**  
Hodges SWD #1  
2,833' FNL & 1,620 FWL  
Section 4, Twp 21 S, Rng 36 E  
Lea County, New Mexico

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

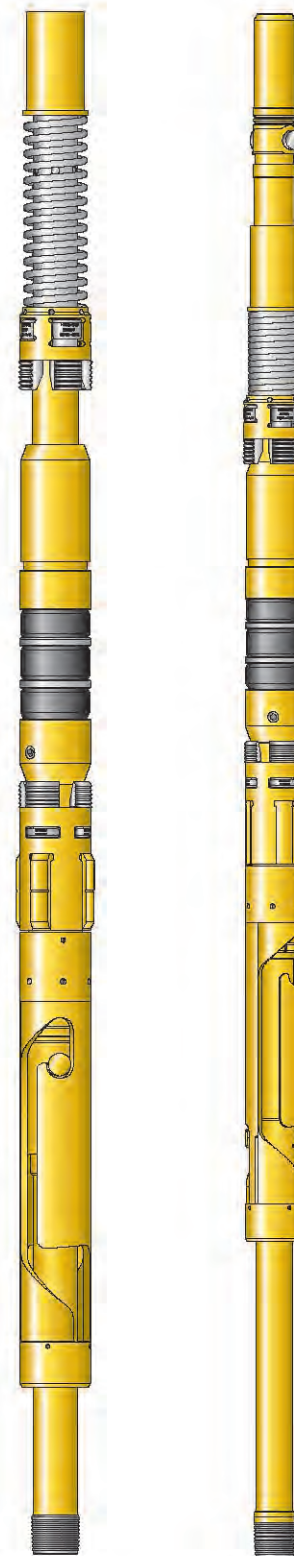
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



HORNET Packer  
Product Family  
No. H64682

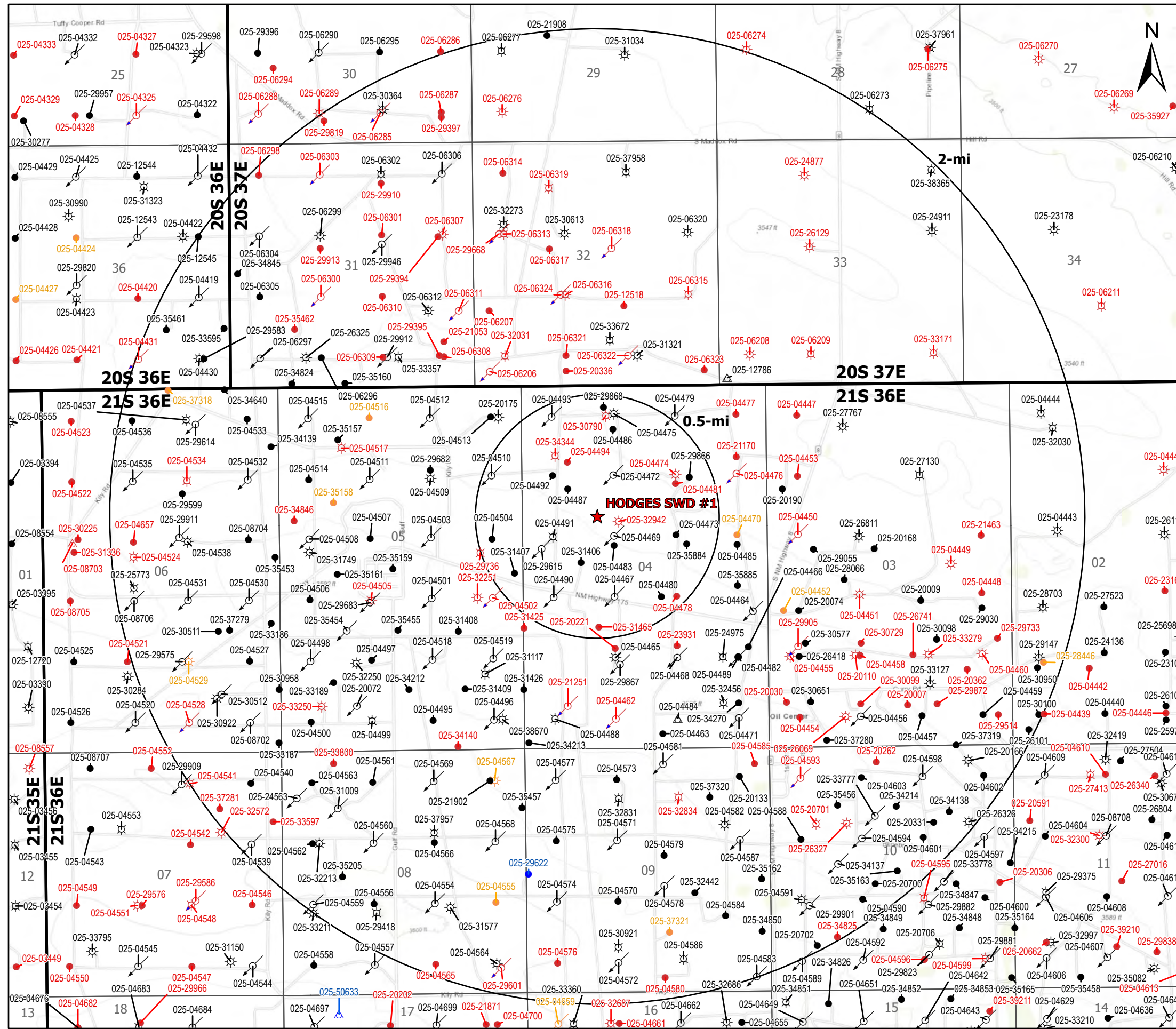
HORNET EL Packer  
Product Family  
No. H64683

## Attachment 2

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





### Legend

- ★ Proposed SWD
- ☼ Gas, Active (90)
- ☼ Gas, Plugged (50)
- ☼ Gas, Temporarily Abandoned (2)
- ↻ Injection, Active (100)
- ↻ Injection, Plugged (22)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (148)
- Oil, New (1)
- Oil, Plugged (102)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (2)
- △ Salt Water Injection, New (1)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

## AOR Tabulation for Hodges SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
FEDERAL OC COM #001	30-025-30790	Plugged	ARCO PERMIAN	11/11/1990	C-04-21S-36E	(Plugged) 12,435	Yes
BELL RAMSAY NCT A #011	30-025-04494	Plugged	CHEVRON U S A INC	4/4/1962	M-04-21S-36E	(Plugged) 6,055	Yes
H T ORCUTT NCT B COM #014	30-025-34344	Plugged	CHEVRON U S A INC	3/29/1998	E-04-21S-36E	(Plugged) 3,630	No
EUNICE MONUMENT SOUTH UNIT #230	30-025-04478	Plugged	CHEVRON U S A INC	3/8/1936	O-04-21S-36E	(Plugged) 3,852	No
MEYER B 4 #020	30-025-04481	Plugged	CONOCO INC	7/12/1962	G-04-21S-36E	(Plugged) 6,271	Yes
MEYER B 4 #031	30-025-32942	Plugged	CONOCOPHILLIPS COMPANY	6/18/1995	C-04-21S-36E	(Plugged) 3,590	No
MEYER B 4 #014	30-025-04474	Plugged	CONOCOPHILLIPS COMPANY	11/27/1953	B-04-21S-36E	(Plugged) 3,869	No
EUNICE MONUMENT SOUTH UNIT #200H	30-025-04492	Oil	Empire New Mexico LLC	5/3/1936	D-04-21S-36E	3,778	No
EUNICE MONUMENT SOUTH UNIT #183	30-025-04493	Injection	Empire New Mexico LLC	7/19/1936	D-04-21S-36E	3,844	No
EUNICE MONUMENT SOUTH UNIT #609	30-025-31406	Oil	Empire New Mexico LLC	11/26/1991	D-04-21S-36E	3,849	No
EUNICE MONUMENT SOUTH UNIT #201	30-025-04472	Injection	Empire New Mexico LLC	1/1/1900	C-04-21S-36E	3,860	No
EUNICE MONUMENT SOUTH UNIT #229	30-025-04467	Injection	Empire New Mexico LLC	2/23/1936	N-04-21S-36E	3,864	No
EUNICE MONUMENT SOUTH UNIT #210	30-025-04469	Injection	Empire New Mexico LLC	6/1/1936	C-04-21S-36E	3,870	No
EUNICE MONUMENT SOUTH UNIT #209	30-025-04473	Oil	Empire New Mexico LLC	7/19/1936	J-04-21S-36E	3,871	No
EUNICE MONUMENT SOUTH UNIT #212	30-025-04504	Oil	Empire New Mexico LLC	11/19/1935	A-05-21S-36E	3,887	No
EUNICE MONUMENT SOUTH UNIT #610	30-025-31407	Oil	Empire New Mexico LLC	12/5/1991	H-05-21S-36E	3,888	No
BELL RAMSAY NCT A #008	30-025-04491	Gas	Empire New Mexico LLC	4/5/1936	D-04-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #202	30-025-29866	Oil	Empire New Mexico LLC	12/31/9999	G-04-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #199	30-025-04510	Injection	Empire New Mexico LLC	3/17/1936	H-05-21S-36E	3,905	No
EUNICE MONUMENT SOUTH UNIT #211	30-025-29615	Injection	Empire New Mexico LLC	12/31/9999	L-04-21S-36E	4,125	No
EUNICE MONUMENT SOUTH UNIT #228	30-025-04490	Injection	Empire New Mexico LLC	12/11/1935	M-04-21S-36E	4,217	Yes
EUNICE MONUMENT SOUTH UNIT #182	30-025-29868	Oil	Empire New Mexico LLC	5/31/1987	C-04-21S-36E	4,300	Yes
EUNICE MONUMENT SOUTH UNIT #458	30-025-29618	Water	Empire New Mexico LLC	12/31/9999	I-04-21S-36E	5,000	Yes
BELL RAMSAY NCT A #012	30-025-04487	Oil	Empire New Mexico LLC	11/20/1962	E-04-21S-36E	6,050	Yes
MEYER B 4 #019	30-025-04480	Oil	PENROC OIL CORP	3/19/1981	O-04-21S-36E	12,010	Yes
MEYER B 4 #015	30-025-04475	Gas	PENROC OIL CORP	1/1/1900	C-04-21S-36E	3,857	No
MEYER B 4 #026	30-025-04486	Oil	PENROC OIL CORP	12/10/1962	C-04-21S-36E	6,040	Yes
MEYER B 4 #022	30-025-04483	Oil	PENROC OIL CORP	10/5/1962	K-04-21S-36E	6,275	Yes
MEYER B 4 #033	30-025-35884	Oil	PENROC OIL CORP	4/17/2002	B-04-21S-36E	8,790	Yes
EUNICE MONUMENT SOUTH UNIT #626	30-025-31465	Plugged	XTO ENERGY, INC	12/31/9999	F-04-21S-36E	(Plugged) 3,870	No

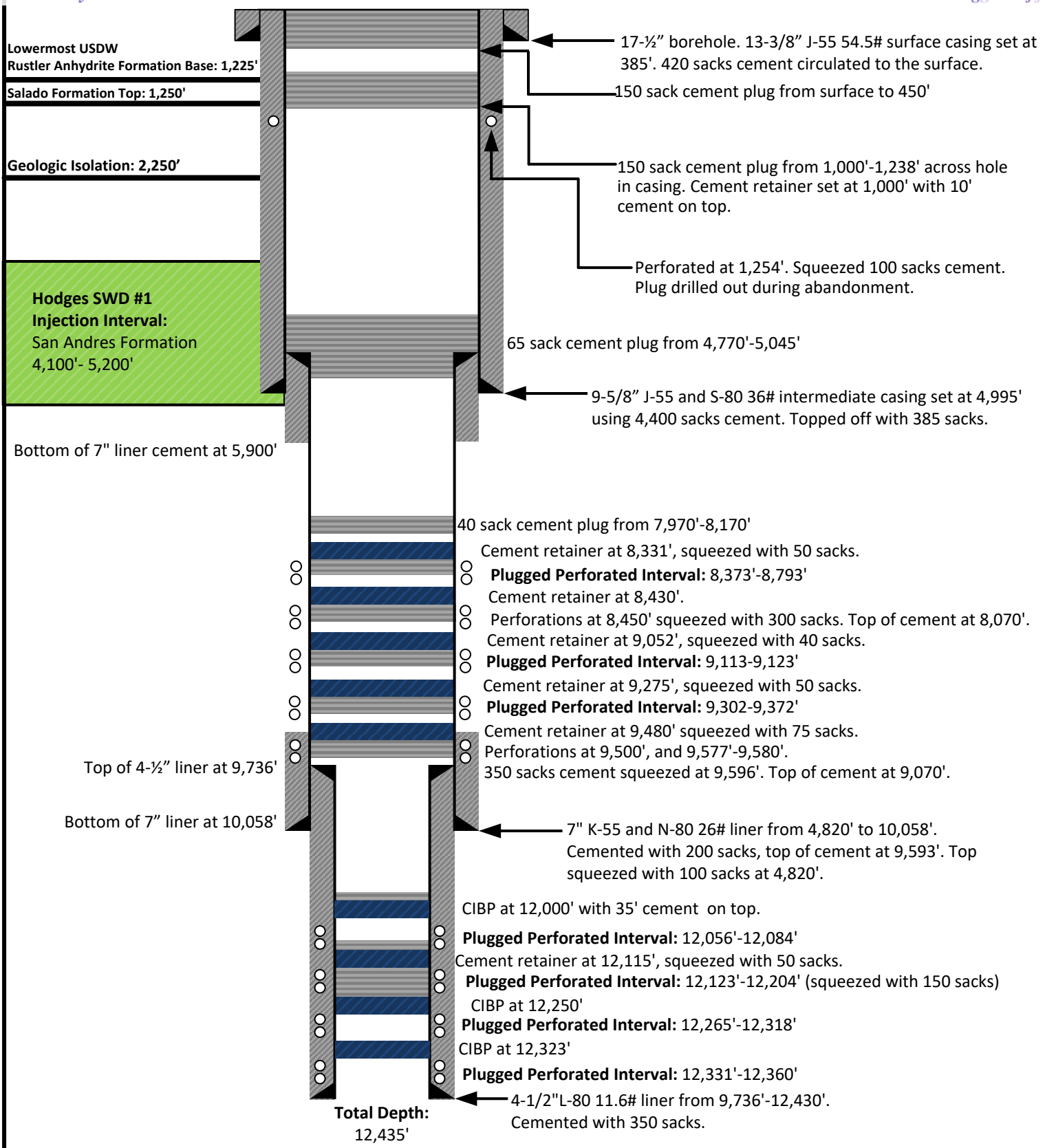
Notes:

### Casing Information for Wells Penetrating the Hodges SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	385'	13.375"	Surface	Circulation	420	17.5"	4995'	9.625"	Surface	Circulation	4400	12.25"
BELL RAMSAY NCT A #011	1288'	8.625"	Surface	Circulation	605	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	1330'	8.625"	Surface	Circulation	450	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	366'	15"	Surface	Circulation	300	17.5"	1300'	9.625"	Surface	Circulation	450	12.5"
EUNICE MONUMENT SOUTH UNIT #182	1203'	8.625"	Surface	Circulation	800	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	332'	16"	Surface	Circulation	600	20"	2546'	11.75"	Surface	Circulation	1050	14.75"
BELL RAMSAY NCT A #012	1255'	8.625"	Surface	Circulation	600	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	342'	13.375"	Surface	Circulation	300	17.5"	5144'	9.625"	2450'	Temp. Survey	525	12.5"
MEYER B 4 #026	1215'	7.625"	Surface	Circulation	500	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	1260'	8.625"	Surface	Circulation	600	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	1326'	8.625"	Surface	Circulation	50	12.25"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner						Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	4820' - 10058'	7"	N/A	N/A	300	N/A	9736' - 12430'	4.5"	N/A	N/A	350	N/A
BELL RAMSAY NCT A #011	6055'	4.5"	unknown	unknown	710	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	6271'	5.5"	2400'	Temp. Survey	720	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	3741'	7"	Surface	Circulation	500	8.625"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #182	3900'	5.5"	Surface	Circulation	450	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	5000'	8.625"	Surface	CBL	1215	10.625"	N/A	N/A	N/A	N/A	N/A	N/A
BELL RAMSAY NCT A #012	6040'	4.5"	3190'	Temp. Survey	400	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	6018'	5.5"	4833'	unknown	325	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #026	6040'	4.5"	3800'	Temp. Survey	900	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	6350'	5.5"	2400'	unknown	420	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	8790'	5.5"	Surface	Circulation	1001 bbls	7.875"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
FEDERAL OC COM #001	Plugs set at 7970' - 8170' w/ 40 sacks, 4770' - 5045' w/ 65 sacks, 1000' - 1238' with 150 sacks, and 0-450' with 150 sacks.
BELL RAMSAY NCT A #011	4.5" CIBP set at 5800' and spot 25 sacks cement on top. Plugs set at 3600' - 3900' w/30 sacks, 2600' - 2800' w/25 sacks, 1100' - 1350' w/25 sacks, & 0-300' w/30 sacks.
MEYER B 4 #020	with 35sx cement cap, 'Plugs at 4157' - 5279 w/100 sacks, 2350' - 2600' w/25 sacks, 1161' - 1261' w/30 sacks pumped below retainer, and 10 sacks placed on top, surface - 350'
EUNICE MONUMENT SOUTH UNIT #228	-
EUNICE MONUMENT SOUTH UNIT #182	-
EUNICE MONUMENT SOUTH UNIT #458	-
BELL RAMSAY NCT A #012	-
MEYER B 4 #019	-
MEYER B 4 #026	-
MEYER B 4 #022	-
MEYER B 4 #033	-



Not to Scale

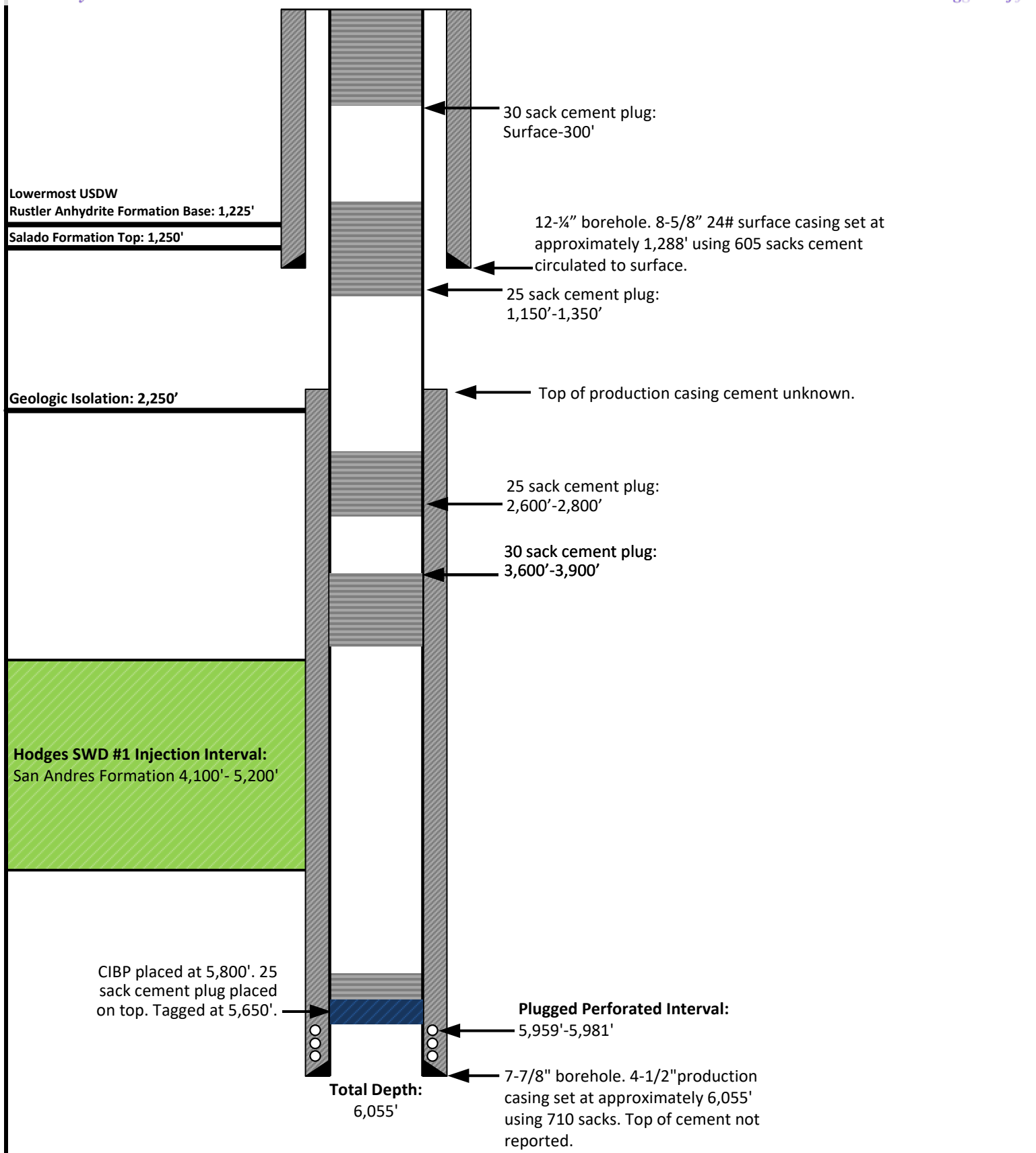
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Federal "OC" Com #1  
 Wellbore Diagram  
 API: 30-025-30790  
 Plugged and Abandoned: 12/10/1992  
 Operated By: ARCO Oil and Gas Company



Not to Scale

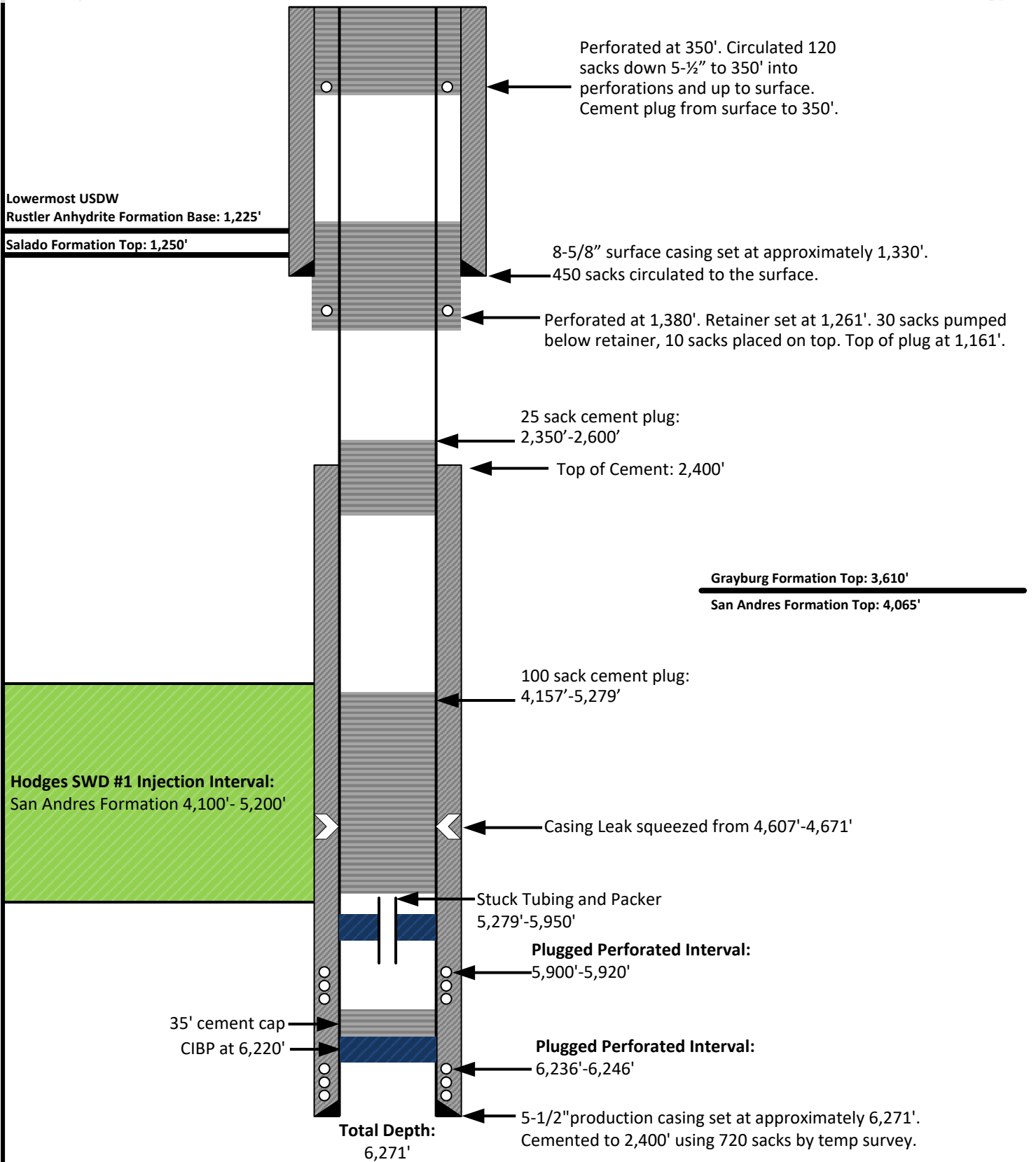
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Bell Ramsey NCT-A  
 Wellbore Diagram  
 API: 30-025-04494  
 Spud Date: 04/04/1962  
 Plugged and Abandoned: 02/28/2003  
 Operated By: Chevron USA, Inc.



Not to Scale

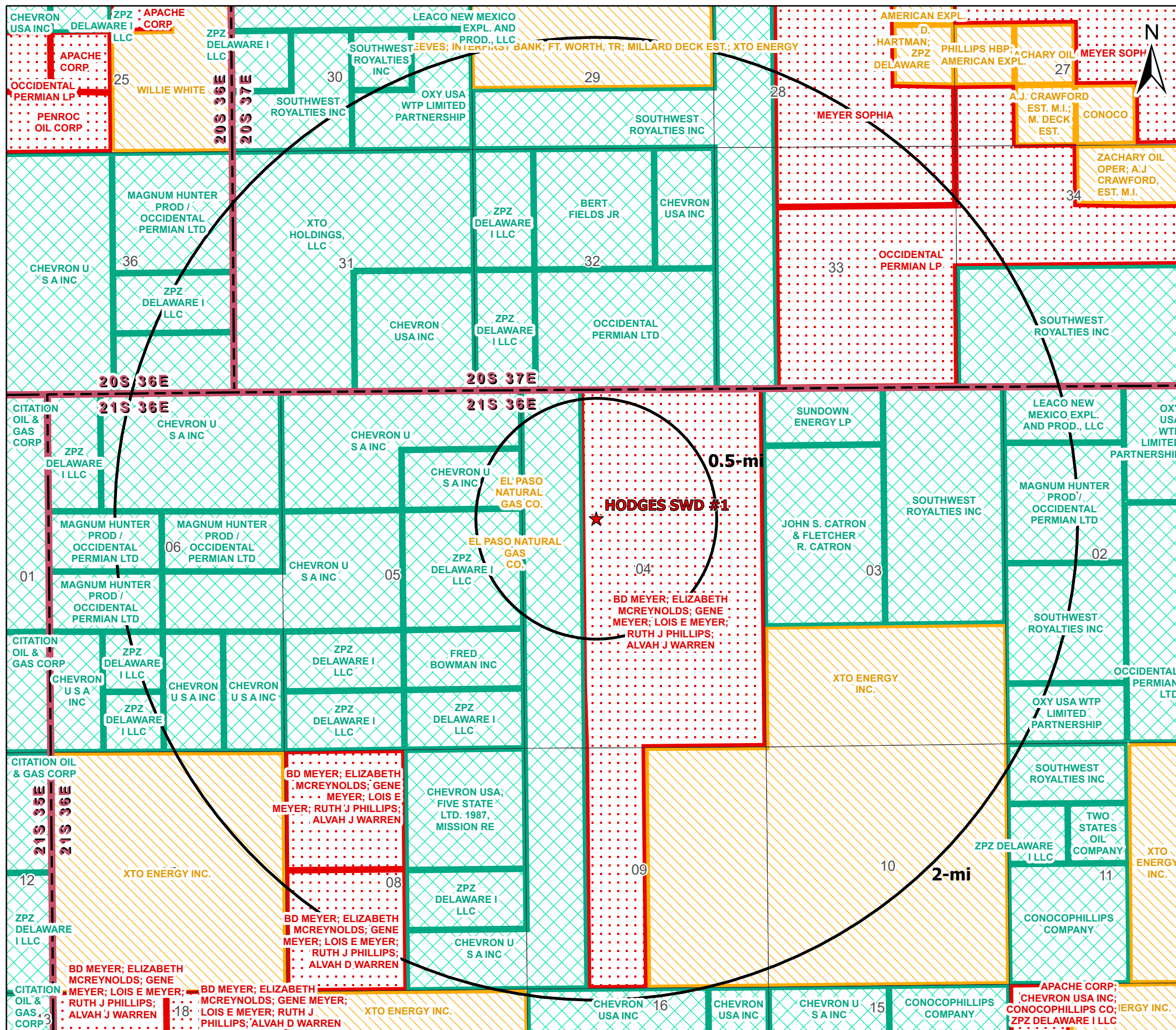
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Meyer B-4  
Wellbore Diagram  
API: 30-025-04481  
Plugged and Abandoned: 09/23/1997  
Operated By: Conoco, Inc.



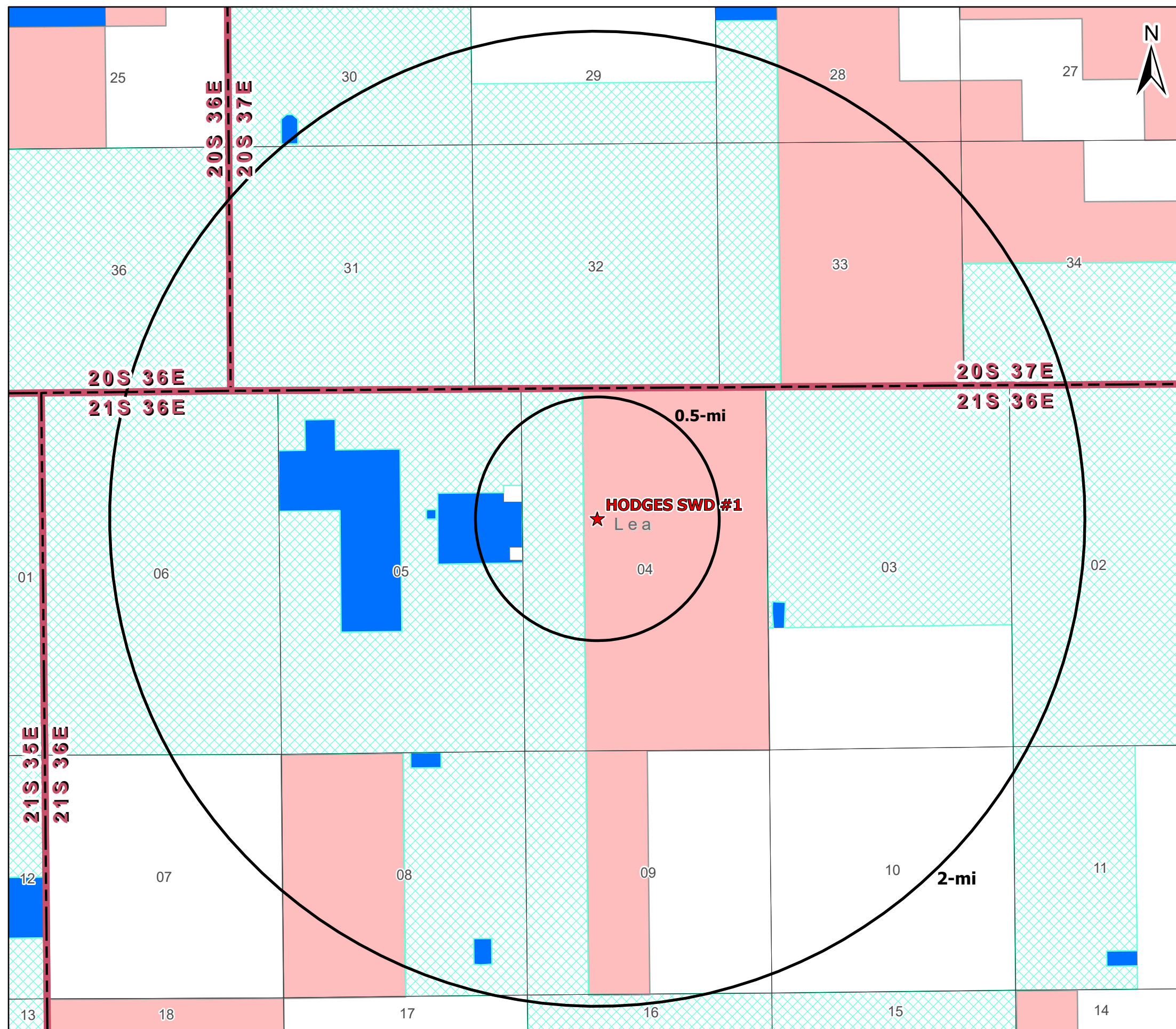
### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	





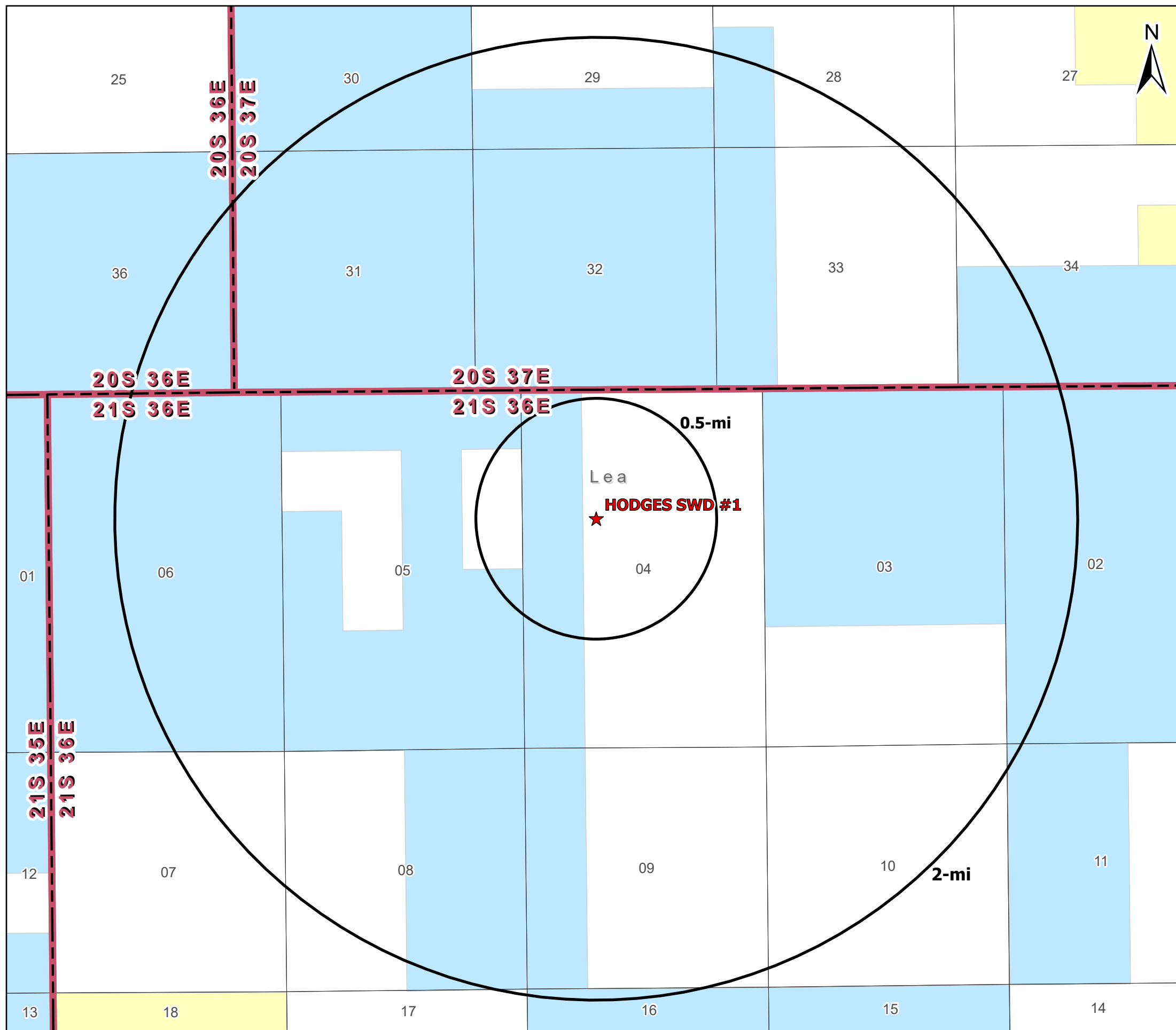


### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	

Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



### Legend

★ Proposed SWD

### Surface Ownership

- BLM
- Private
- State

## Surface Ownership Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

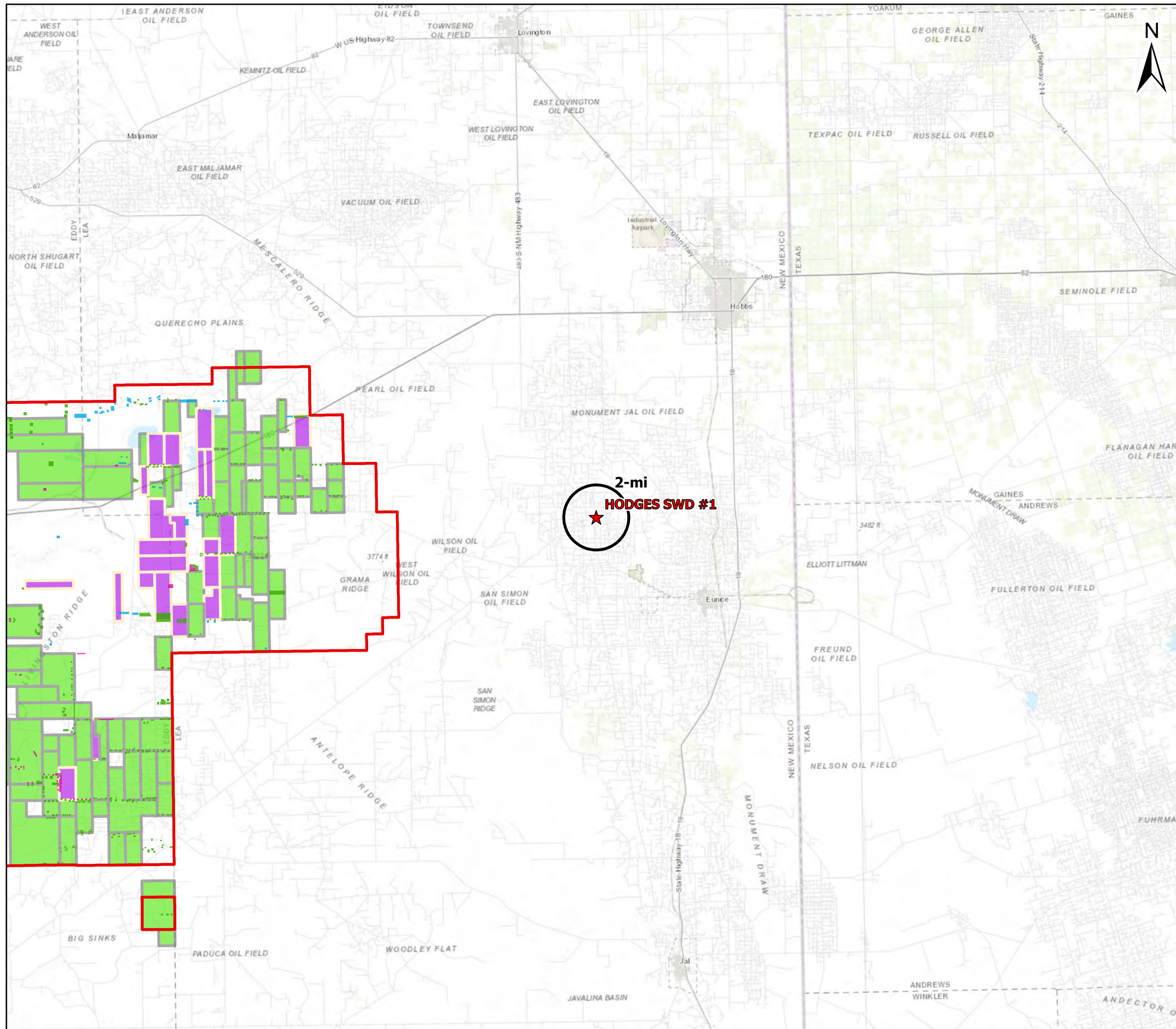
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING



### Legend

- ★ Proposed SWD (1)
- SOPA 1986 (2)
- Drill Islands**
- Status, Depth Buffer**
- Approved, Half Mile (303)
- Approved, Quarter Mile (36)
- Nominated, Half Mile (46)
- Nominated, Quarter Mile (1)
- Development Areas**
- Status**
- Approved (87)
- Pending (24)
- Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

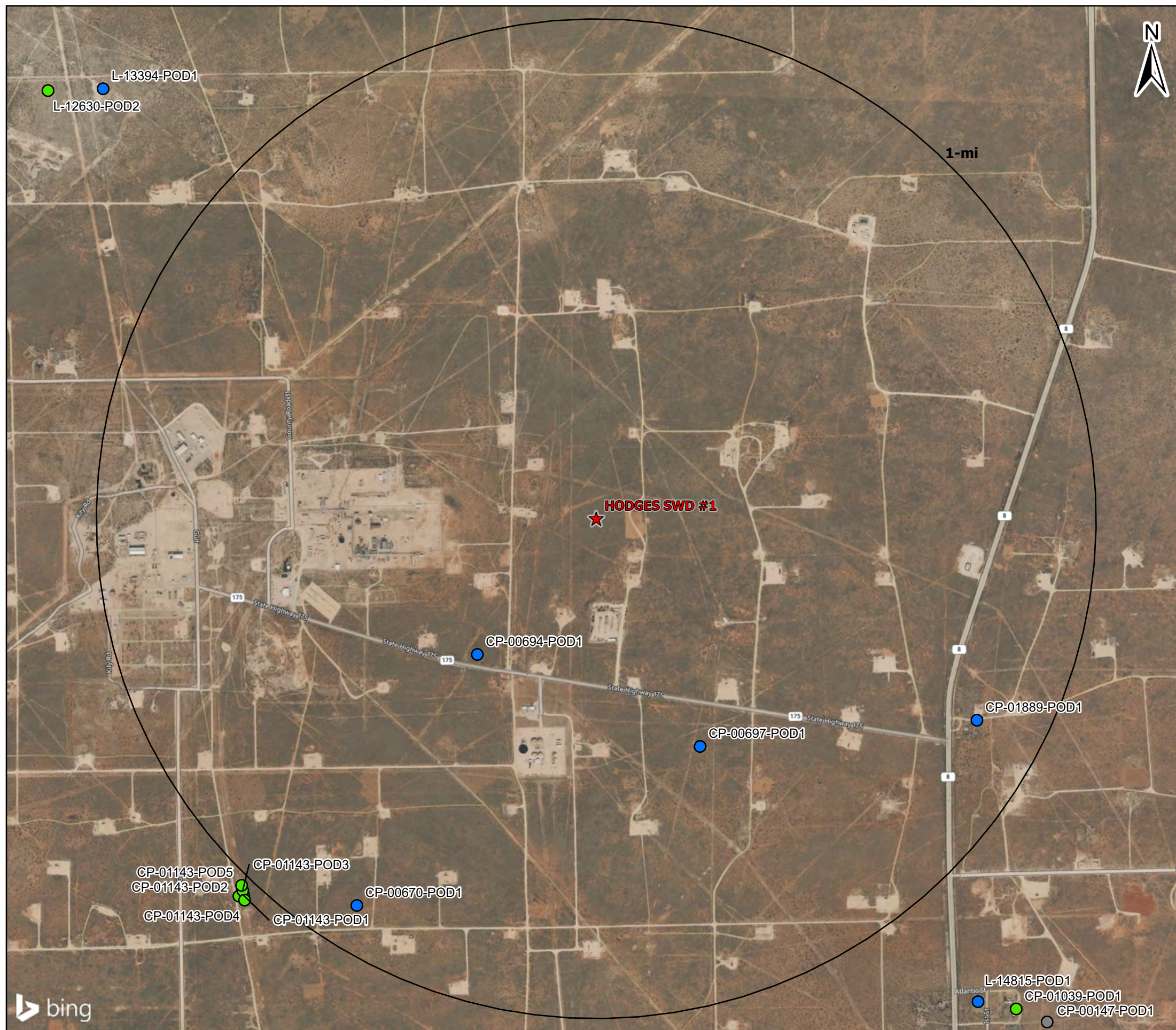
Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data





### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (6)
- Pending (7)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING

Water Well Sampling Rationale					
Goodnight Midstream Permian- Hodges SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00670-POD1	GULF OIL CORPORATION	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00694-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00697-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-01889-POD1	Mathew LUNA	P.O. Box 3032 Eunice, NM, 88231 Cell: 575-942-8473	Domestic	No	Communication with the water well owner confirmed that this well is not currently an active fresh water well. Sampling is not available.

**Note:** No active freshwater wells are located within 1-mile of the proposed Hodges SWD #1.

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hodges SWD #1  
Located 8.5 miles northwest of Eunice, NM  
LOT 11, Section 4, Township 21S, Range 36E  
2,833 FNL & 1,620' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,100' – 5,200')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 820 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# 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  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.

**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

**NOTICE IS HEREBY GIVEN:** That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

**PURPOSE:** The intended purpose of the Injection well is to dispose of salt water produced from permitted oil and gas wells.

**WELL NAME AND LOCATION:** Hodges SWD #1  
Located 8.5 miles northwest of Eunice, NM  
LOT 11, Section 4, Township 21S,  
Range 36E  
2,833 FNL & 1,620' FWL  
Lea County, NM

**NAME AND DEPTH OF DISPOSAL ZONE:** San Andres (4,100' - 5,200')  
**EXPECTED MAXIMUM INJECTION RATE:** 42,000 Bbls/day  
**EXPECTED MAXIMUM INJECTION PRESSURE:** 820 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278371**

  
Publisher

Sworn and subscribed to before me this  
9th day of May 2023.

  
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**

67115320

00278371

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE  
TULSA, OK 74119

<b>Hodges SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corporation (PENROC OIL CORP)	P.O. Box 2769	Hobbs	NM	88241
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
El Paso Natural Gas Company, LLC (EL PASO NATURAL GAS CO.)	1001 Louisiana Street, Suite 1000	Houston	TX	77002
BD Meyer	P.O. Box 428	Panhandle	TX	79068
Elizabeth McReynolds	P.O. Box 428	Panhandle	TX	79068
Lois E Meyer	P.O. Box 428	Panhandle	TX	79068
Gene Meyer	P.O. Box 428	Panhandle	TX	79068
Ruth J Phillips	P.O. Box 428	Panhandle	TX	79068
Alvah J Warren	P.O. Box 428	Panhandle	TX	79068
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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PANHANDLE TX 79068-0428

Ruth J. Phillips  
PO BOX 428  
PANHANDLE TX 79068-0428

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New Mexico BLM  
620 E GREENE ST  
CARLSBAD NM 88220-6292

Alvah J. Warren  
PO BOX 428  
PANHANDLE TX 79068-0428



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1001 LOUISIANA STREET SUITE 1000  
HOUSTON TX 77002-0000

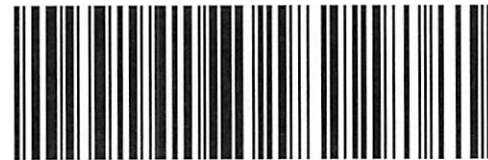
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HOBBS NM 88241-2769

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Empire New Mexico LLC  
2200 S UTICA PL STE 150  
TULSA OK 74114-7015

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

ALL Consulting, LLC  
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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

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**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hodges SWD well permit

Lot 11, Section 4, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic covering the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF GOODNIGHT  
MIDSTREAM PERMIAN, LLC FOR  
APPROVAL OF A SALTWATER DISPOSAL  
WELL, LEA COUNTY, NEW MEXICO.**

CASE NO. 23617

**APPLICATION**

Goodnight Midstream Permian, LLC (“Goodnight Midstream”) (OGRID No. 372311), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12(B)(15), for an order authorizing injection of produced salt water for purposes of disposal. In support, Goodnight Midstream states the following:

1. Attached is a complete Form C-108 application for authorization to inject which contains all the information necessary to authorize the requested approval to inject and filed with the Division for administrative approval on May 12, 2023. See C-108, attached as **Exhibit A**, and incorporated herein.

2. Goodnight Midstream proposes to drill a new commercial saltwater disposal well to be named the **Seaver SWD #1 Well** (API No. pending), which will be located 1,809 feet from the south line and 1,428 feet from the west line (Unit K) in Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.

3. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion.

4. Disposal fluid will be produced saltwater from oil and gas wells in the area producing from the Delaware Mountain Group, Wolfcamp, and Bone Spring formations.

5. The estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi.

6. Approving this application will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. The administrative application was protested. Accordingly, Goodnight Midstream hereby requests that its application be set for hearing pursuant to 19.15.26.8(E) NMAC.

WHEREFORE, Goodnight Midstream Permian, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 6, 2023, and, after notice and hearing as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP

By:   
Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Paula M. Vance  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
mfeldewert@hollandhart.com  
agrarkin@hollandhart.com  
jbroggi@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR GOODNIGHT MIDSTREAM  
PERMIAN, LLC**

**CASE \_\_\_\_\_: Application of Goodnight Midstream Permian, LLC for Approval of a Salt Water Disposal Well, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the **Seaver SWD #1 Well** (API No. pending), which will be located 1,809 feet from the south line and 1,428 feet from the west line (Unit K) in Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Injection will be into the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. Disposal fluid will be produced water from producing oil and gas wells in the area. Estimated average surface injection pressure is expected to be approximately 537 psi. The maximum surface injection pressure will be 840 psi. The subject well will be located approximately 7 miles northwest of Eunice, N.M.

**EXHIBIT A**



May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Seaver SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Seaver SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting

Nate Alleman  
Sr. Regulatory Specialist



RECEIVED:	REVIEWER:	TYPE:	APP NO:
-----------	-----------	-------	---------

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: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<u>FOR OCD ONLY</u>	
<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.**

\_\_\_\_\_  
 Print or Type Name

*Nathan Alleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number

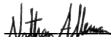
\_\_\_\_\_  
e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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: Nathan Alleman TITLE: Sr. Regulatory Specialist  
SIGNATURE:  DATE: 5/12/2023  
E-MAIL ADDRESS: nalleman@all-llc.com
- XV. 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

Side 2

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject  
Well Name: Seaver SWD #1

### III – Well Data (The Wellbore Diagram is included as Attachment 1)

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Seaver SWD #1  
Location Footage Calls: 1,809 FSL & 1,428 FWL  
Legal Location: Unit Letter K, S10 T21S R36E  
Ground Elevation: 3,575'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,380'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,707')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, one of which has been properly plugged and abandoned, while the other five wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,355 feet. Water well depths in the area range from approximately 81 – 242 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 9 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (CP-01696 POD 1 on 8/26/2021 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram



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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name SEAVER SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3575'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	10	21 S	36 E		1809'	SOUTH	1428'	WEST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**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.*

04/28/2023

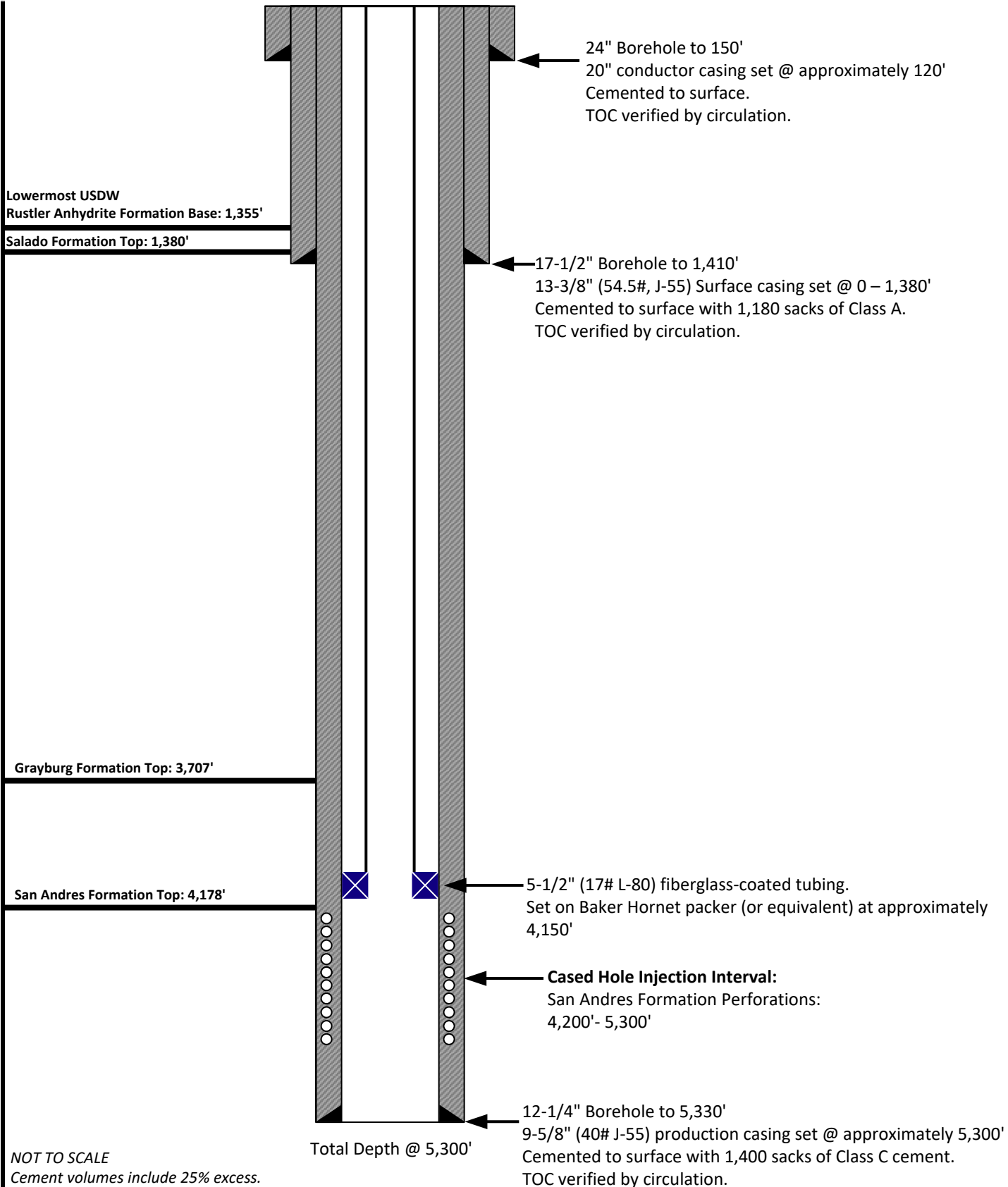
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

21209

TIM C. PAPPAS



NOT TO SCALE

Cement volumes include 25% excess.

Anticipated daily maximum volume: 42,000 bwpd

Maximum surface Injection Pressure: 840 psig

(0.2 psi/ft to the top of the injection interval)

Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor, P.E.  
 Project Manager:  
 Nathan Alleman  
 Date: 4/11/2023

**Goodnight Midstream Permian, LLC**  
 Proposed Wellbore Diagram  
 Seaver SWD #1  
 1,809' FSL & 1,428' FWL  
 Section 10, Twp 21 S, Rng 36 E  
 Lea County, New Mexico

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

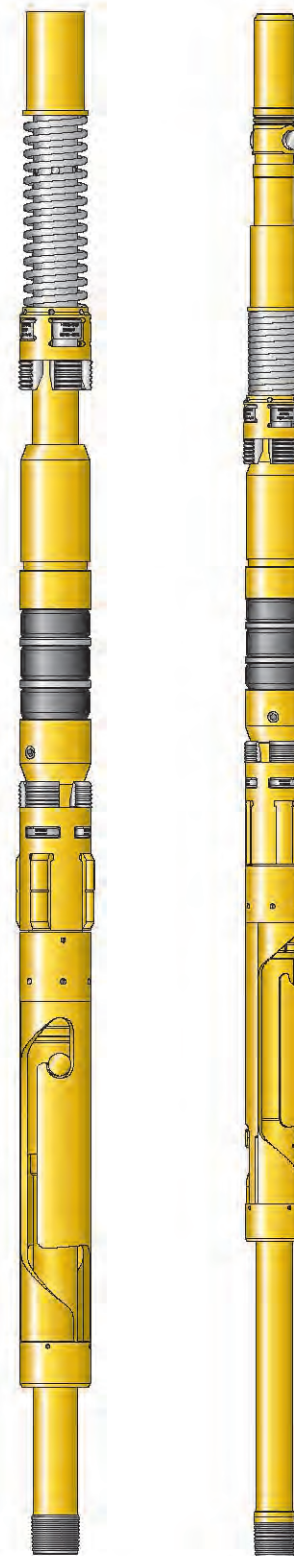
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



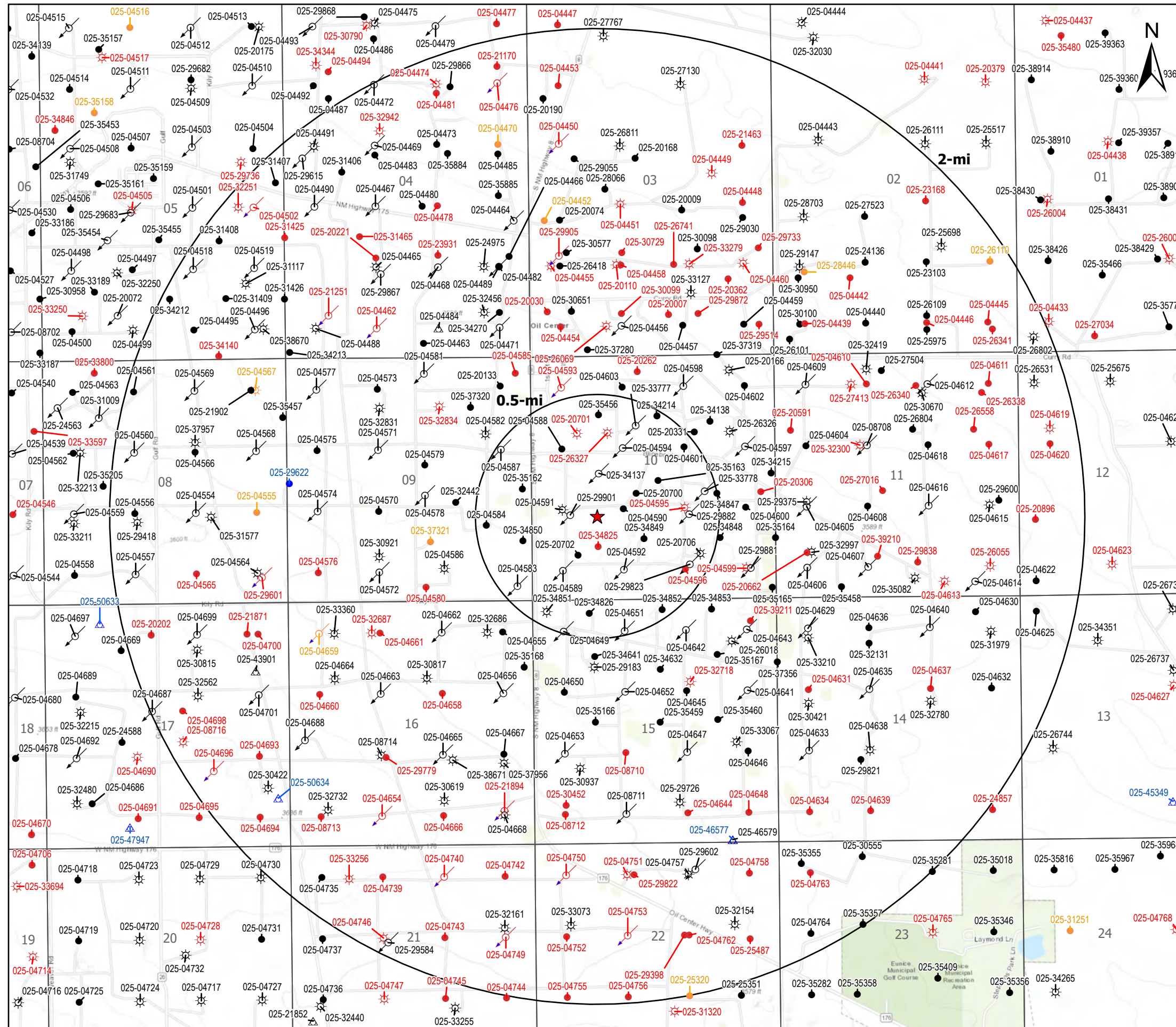
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## Attachment 2

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☼ Gas, Active (96)
- ☼ Gas, Plugged (49)
- ☼ Gas, Temporarily Abandoned (1)
- ↻ Injection, Active (94)
- ↻ Injection, Plugged (15)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (178)
- Oil, New (1)
- Oil, Plugged (99)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (4)
- △ Salt Water Injection, New (5)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

## O&G Wells Area of Review

### SEAVER SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
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Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>
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Service Layer Credits: Topographic: Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

## AOR Tabulation for Seaver SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
A J ADKINS COM #001	30-025-04591	Gas	Empire New Mexico LLC	4/7/1937	L-10-21S-36E	3,867	No
EUNICE MONUMENT SOUTH UNIT #317	30-025-04590	Oil	Empire New Mexico LLC	4/4/1936	K-10-21S-36E	3,880	No
EUNICE MONUMENT SOUTH UNIT #359	30-025-04651	Injection	Empire New Mexico LLC	8/12/1936	C-15-21S-36E	3,881	No
EUNICE MONUMENT SOUTH UNIT #360	30-025-04649	Injection	Empire New Mexico LLC	1/24/1936	D-15-21S-36E	3,885	No
EUNICE MONUMENT SOUTH UNIT #303	30-025-04594	Injection	Empire New Mexico LLC	10/26/1936	F-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #670	30-025-34214	Oil	Empire New Mexico LLC	2/17/1998	B-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #342	30-025-04583	Injection	Empire New Mexico LLC	12/23/1935	P-09-21S-36E	3,895	No
EUNICE MONUMENT SOUTH UNIT #696	30-025-34137	Injection	Empire New Mexico LLC	12/2/1997	F-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #343	30-025-04589	Injection	Empire New Mexico LLC	12/8/1935	M-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #301	30-025-04587	Injection	Empire New Mexico LLC	9/29/1957	H-09-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #735	30-025-34826	Oil	Empire New Mexico LLC	2/4/2000	D-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #671	30-025-35456	Oil	Empire New Mexico LLC	6/5/2001	C-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #695	30-025-35162	Oil	Empire New Mexico LLC	10/12/2000	I-09-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #710	30-025-34825	Plugged	Empire New Mexico LLC	1/25/2000	N-10-21S-36E	3,931	No
EUNICE MONUMENT SOUTH UNIT #304	30-025-04601	Oil	Empire New Mexico LLC	11/15/1936	G-10-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #711	30-025-34850	Oil	Empire New Mexico LLC	4/11/2000	P-09-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #318	30-025-29901	Injection	Empire New Mexico LLC	12/31/9999	L-10-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
A J ADKINS COM #009	30-025-20701	Plugged	Empire New Mexico LLC	12/31/9999	E-10-21S-36E	Plugged (5,960)	Yes
A J ADKINS COM #010	30-025-20702	Oil	Empire New Mexico LLC	10/16/1964	M-10-21S-36E	6,010	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
A J ADKINS #008	30-025-20700	Oil	Empire New Mexico LLC	12/31/9999	K-10-21S-36E	6,050	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
A J ADKINS #011	30-025-33777	Injection	Empire New Mexico LLC	12/9/1997	F-10-21S-36E	6,225	Yes
EUNICE MONUMENT SOUTH UNIT #319	30-025-04584	Oil	Empire New Mexico LLC	4/1/1936	I-09-21S-36E	3790'	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	3,865	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	3,860	No
A J ADKINS COM #002	30-025-26327	Plugged	XTO ENERGY, INC	7/5/1979	F-10-21S-36E	3,675	No
EUNICE MONUMENT SOUTH UNIT #302	30-025-04588	Oil	XTO ENERGY, INC	10/18/1935	E-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #734	30-025-34851	Gas	XTO ENERGY, INC	3/23/2000	D-15-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #697	30-025-35163	Oil	XTO ENERGY, INC	10/20/2000	J-10-21S-36E	3,942	No

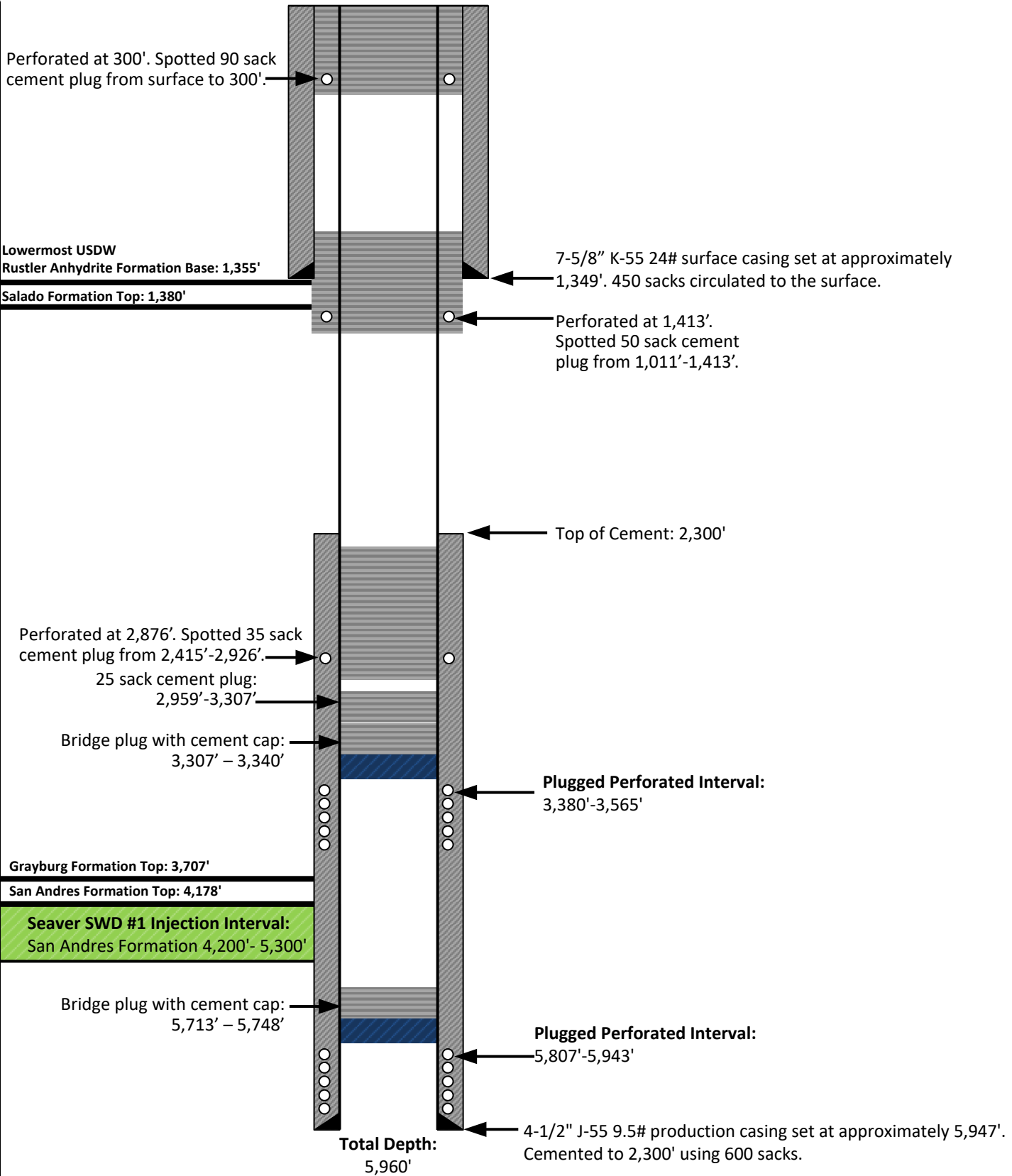
Notes:

### Casing Information for Wells Penetrating the Seaver SWD #1 Injection Zone

Well Name	Surface Casing					Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	1349'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	1413'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	1364'	7.625"	Surface	Circulation	625	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	1362'	8.625"	Surface	Circulation	640	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner					Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	5947'	4.5"	2300'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	6010'	4.5"	2285'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	6020'	4.5"	2500'	Temp. Survey	525	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	6040'	4.5"	2600'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	6400'	5.5"	Surface	Circulation	1200	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	6219'	5.5"	Surface	Circulation	1245	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
A J ADKINS COM #009	Bridge plug with cement cap 5,713' - 5,748', second bridge plug with a cement cap 3,307'-3,340'. Plugs set at 2959' - 3,307' with 25 sacks, 2,415'-2,926' with 35 sacks, 1,011' - 1,413' with 50 sacks, surface - 300' with 90 sacks.
A J ADKINS COM #010	-
JOHN D KNOX #012	-
A J ADKINS #008	-
JOHN D KNOX #014	-
A J ADKINS #011	-



Not to Scale

Prepared by:  
  
 Prepared for:  

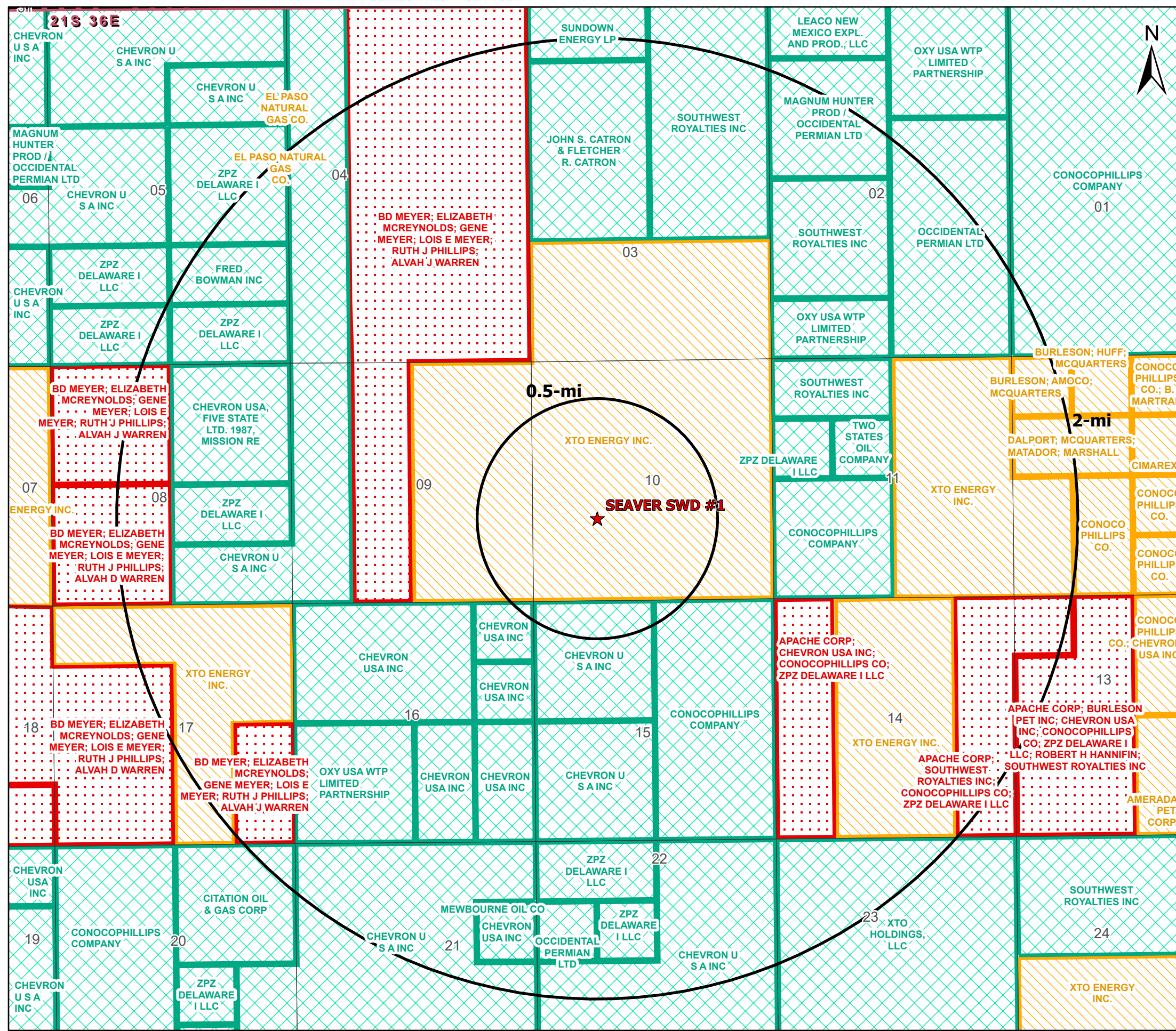

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Adkins A J 9  
 Wellbore Diagram  
 API: 30-025-20701  
 Spud Date: 11/05/1992  
 Plugged and Abandoned: 03/18/2020  
 Operated By: Exxon Mobil Corporation



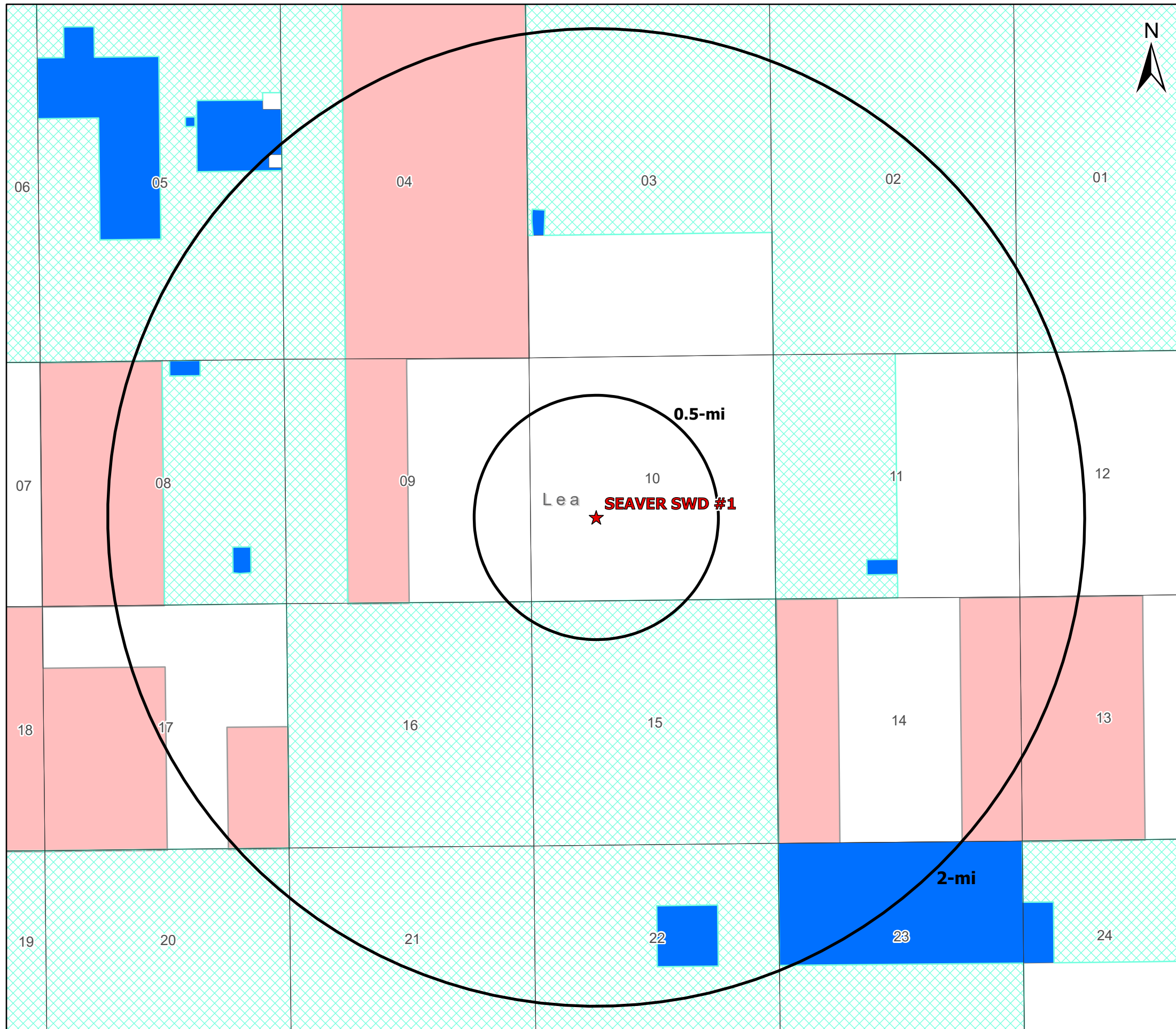


### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>SEAVER SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	



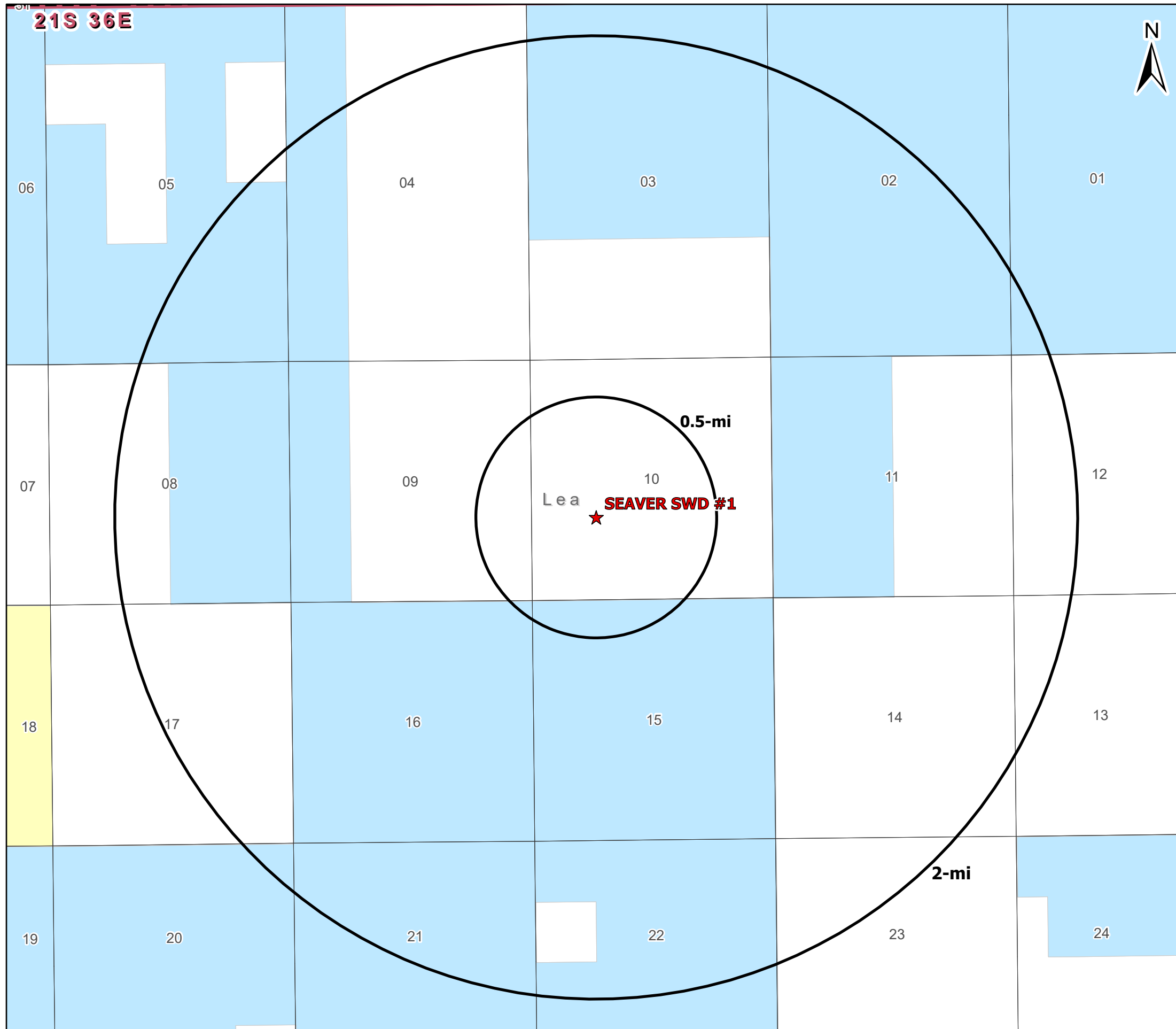


### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>		
<b>SEAVR SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>		Prepared by: <b>ALL</b> CONSULTING

Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



### Legend

★ Proposed SWD

### Surface Ownership

BLM

Private

State

## Surface Ownership Area of Review

### SEAVER SWD #1 LEA COUNTY, NEW MEXICO

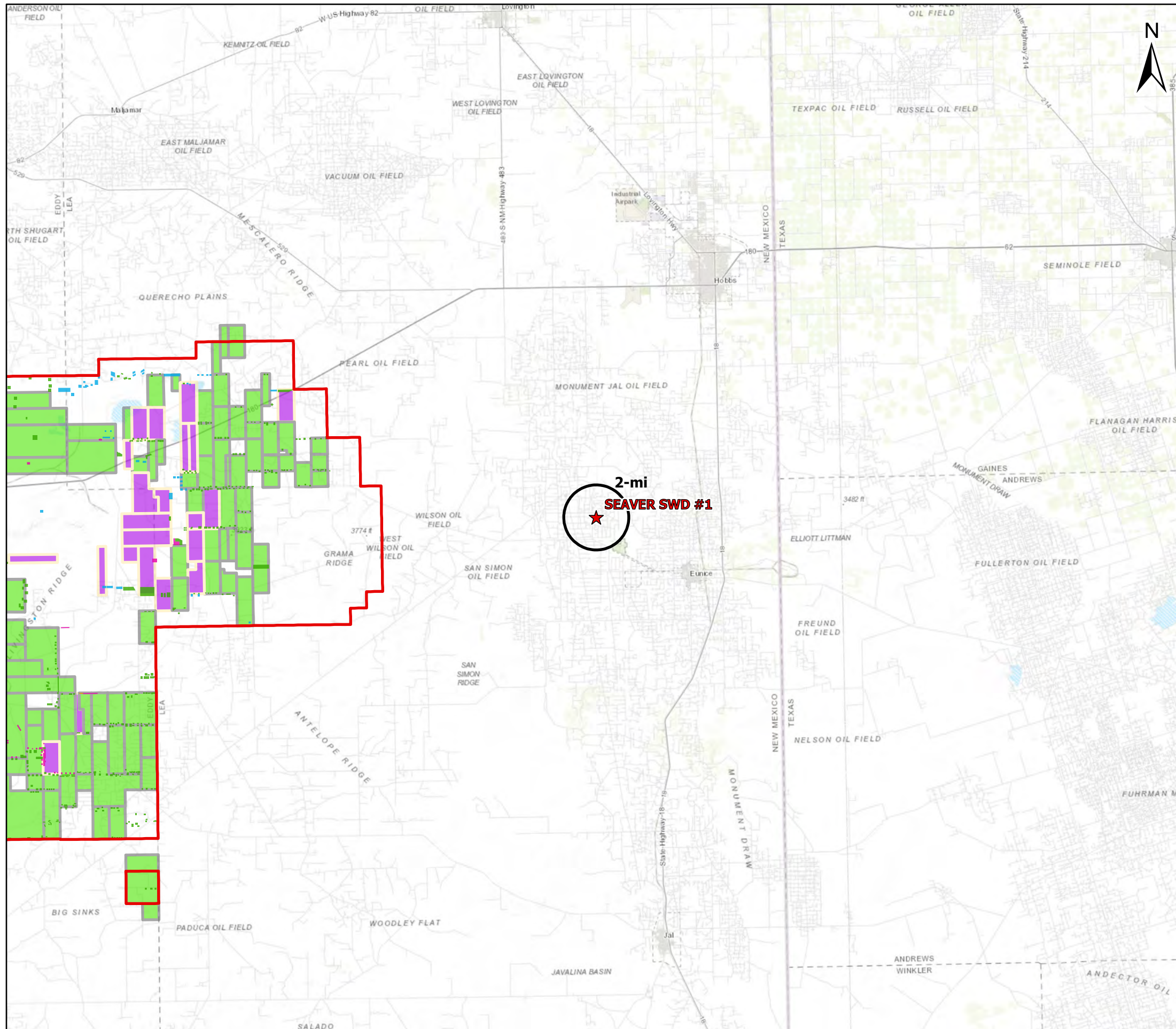
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING



### Legend

- ★ Proposed SWD (1)
- SOPA 1986 (2)

### Drill Islands

#### Status, Depth Buffer

- Approved, Half Mile (288)
- Approved, Quarter Mile (29)
- Nominated, Half Mile (46)
- Nominated, Quarter Mile (1)

### Development Areas

#### Status

- Approved (86)
- Pending (24)
- Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>SEAVR SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgn	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460



**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### SEAVER SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Water Well Sampling Rationale					
Goodnight Midstream Permian- Seaver SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00147-POD1	HUMBLE OIL & REFINING COMPANY	P.O. BOX 2100, Hobbs, NM, 88240	Commercial	No	Two water wells are already being sampled.
CP-00505	SNYDER RANCHES LTD.	P.O. BOX 726, Lovington, NM, 88260	Livestock Watering	No	Owner was unaware of a well at this location, believes there to be a caliche pit located there.
CP-00690	SUN EXPL. & PROD.	P.O. BOX 692, Tatum, NM, 88267	PRO	No	Two water wells are already being sampled.
CP-00692	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-00695-POD1	CHEVRON USA INC	P.O. BOX 670, Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well.
CP-00734	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-01039-POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	Sampled on 9/9/2021
CP-01696-POD1	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
L-14815-POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 575-390-7138 cell (carla)	Domestic	No	Two water wells are already being sampled.
<b>Note:</b>					



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

September 17, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: JERAULD ANDERSON

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01039 POD 1	H212493-01	Water	09-Sep-21 10:30	09-Sep-21 11:12

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

**CP - 01039 POD 1  
H212493-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	342		5.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Chloride*	1000		4.00	mg/L	1	1090801	GM	09-Sep-21	4500-Cl-B	
Conductivity*	5030		1.00	umhos/cm @ 25°C	1	1090914	GM	09-Sep-21	120.1	
pH*	7.21		0.100	pH Units	1	1090914	GM	09-Sep-21	150.1	
Temperature °C	19.9			pH Units	1	1090914	GM	09-Sep-21	150.1	
Resistivity	1.99			Ohms/m	1	1090914	GM	09-Sep-21	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	1090915	GM	09-Sep-21	SM 2710F	
Sulfate*	1220		250	mg/L	25	1090803	GM	10-Sep-21	375.4	
TDS*	3420		5.00	mg/L	1	1090811	GM	13-Sep-21	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
TSS*	3.00		2.00	mg/L	1	1091005	GM	14-Sep-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Calcium*	199		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Hardness as CaCO3	971		3.31	mg/L	5	[CALC]	AES	16-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Magnesium*	115		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Potassium*	29.1		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Sodium*	787		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Strontium*	5.72		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

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

**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1090801 - General Prep - Wet Chem**

<b>Blank (1090801-BLK1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1090801-BS1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	104	4.00	mg/L	100		104	80-120			

<b>LCS Dup (1090801-BSD1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

**Batch 1090803 - General Prep - Wet Chem**

<b>Blank (1090803-BLK1)</b>		Prepared: 08-Sep-21 Analyzed: 10-Sep-21								
Sulfate	ND	10.0	mg/L							

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090803 - General Prep - Wet Chem**

**LCS (1090803-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	22.0	10.0	mg/L	20.0		110	80-120			
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**LCS Dup (1090803-BSD1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	13.4	20	
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**Batch 1090811 - Filtration**

**Blank (1090811-BLK1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	ND	5.00	mg/L							
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**LCS (1090811-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	275		mg/L	300		91.7	80-120			
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**Duplicate (1090811-DUP1)** Source: H212440-02 Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	661	5.00	mg/L		699			5.59	20	
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**Batch 1090914 - General Prep - Wet Chem**

**LCS (1090914-BS1)** Prepared & Analyzed: 09-Sep-21

pH	7.04		pH Units	7.00		101	90-110			
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Conductivity	494		uS/cm	500		98.8	80-120			
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**Duplicate (1090914-DUP1)** Source: H212493-01 Prepared & Analyzed: 09-Sep-21

pH	7.23	0.100	pH Units		7.21			0.277	20	
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Conductivity	5060	1.00	umhos/cm @ 25°C		5030			0.595	20	
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Resistivity	1.98		Ohms/m		1.99			0.595	20	
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Temperature °C	20.0		pH Units		19.9			0.501	200	
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\*=Accredited Analyte

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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090915 - General Prep - Wet Chem**

<b>Duplicate (1090915-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared &amp; Analyzed: 09-Sep-21</b>							
Specific Gravity @ 60° F	1.012	0.000	[blank]		1.004			0.806	20	

**Batch 1091005 - Filtration**

<b>Blank (1091005-BLK1)</b>	<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>									
TSS	ND	2.00	mg/L							

<b>Duplicate (1091005-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>							
TSS	4.00	2.00	mg/L		3.00			28.6	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212168 - Total Rec. 200.7/200.8/200.2**

**Blank (B212168-BLK1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

**LCS (B212168-BS1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	9.98	0.100	mg/L	10.0		99.8	85-115			
Iron	1.95	0.050	mg/L	2.00		97.6	85-115			
Barium	0.983	0.050	mg/L	1.00		98.3	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.53	1.00	mg/L	1.62		94.6	85-115			
Calcium	1.95	0.100	mg/L	2.00		97.3	85-115			
Strontium	1.90	0.100	mg/L	2.00		95.1	85-115			

**LCS Dup (B212168-BSD1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Iron	1.95	0.050	mg/L	2.00		97.7	85-115	0.137	20	
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115	0.568	20	
Magnesium	9.96	0.100	mg/L	10.0		99.6	85-115	0.237	20	
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115	1.19	20	
Sodium	1.55	1.00	mg/L	1.62		95.5	85-115	0.984	20	
Strontium	1.93	0.100	mg/L	2.00		96.3	85-115	1.22	20	
Barium	0.944	0.050	mg/L	1.00		94.4	85-115	4.10	20	

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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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*Celey D. Keene*

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: <u>Lab. Services</u> Project Manager: <u>Dustin Armstrong</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Terraud Anderson</u> Project Location: <u>32.50083, -103.259567</u> Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: <u>all cards</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H012493</u> Sample I.D. <u>CP-01039 Pod 1</u>		MATRIX (G)RAB OR (C)OMP. <u>GA</u> # CONTAINERS <u>1</u> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> OTHER: _____	
Date: <u>9-9-21</u> Time: <u>1112</u> Date: _____ Time: _____		RECEIVED BY: <u>Jawana White</u> Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>5.8</u> Corrected Temp. °C _____		CHECKED BY: (Initials) <u>JD</u> Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	
REMARKS: _____ t Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com			



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

September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

LCS (1081913-BS1) Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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Duplicate (1081913-DUP1) Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

LCS (1082704-BS1) Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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Duplicate (1082704-DUP1) Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

Blank (1083008-BLK1) Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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LCS (1083008-BS1) Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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LCS Dup (1083008-BSD1) Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

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

**Batch 1083009 - Filtration**

<b>Blank (1083009-BLK1)</b>				Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	ND	2.00	mg/L							
<b>Duplicate (1083009-DUP1)</b>				Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	2.00	2.00	mg/L		2.00			0.00	52.7	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

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

**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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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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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: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Owner: _____ City: _____ State: _____ Zip: _____ Project Location: <b>Wilburta Tiwis</b> Project Name: _____ Phone #: _____ Fax #: _____ Sampler Name: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <b>2+5-8-26</b> TIME: <b>2:15</b>	
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.		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Relinquished By: _____ Date: <b>8-26-21</b> Time: <b>3:15</b>		Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <b>5.9</b> Corrected Temp. °C _____		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <b>TD</b> Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Seaver SWD #1  
Located 6.8 miles northwest of Eunice, NM  
UL K, Section 10, Township 21S, Range 36E  
1,809 FSL & 1,428' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

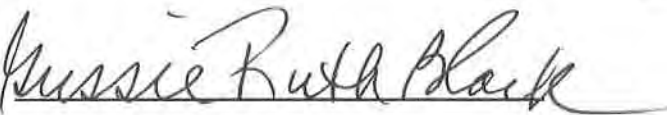
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



Business Manager

My commission expires  
January 29, 2027

(Seal)

**STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087528  
COMMISSION EXPIRES 01/29/2027**

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

**PURPOSE:** The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

**WELL NAME AND LOCATION:** Seaver SWD #1  
Located 6.8 miles northwest of Eunice, NM  
UL K, Section 10, Township 21S, Range 36E  
1,809 FSL & 1,428' FWL  
Lea County, NM

**NAME AND DEPTH OF DISPOSAL ZONE:** San Andres (4,200'– 5,300')  
**EXPECTED MAXIMUM INJECTION RATE:** 42,000 Bbls/day  
**EXPECTED MAXIMUM INJECTION PRESSURE:** 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278374**

67115320

00278374

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119



<b>Seaver SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
XTO Energy Inc. (XTO ENERGY INC.)	500 W. Illinois, Suite 100	Midland	TX	79701
ConocoPhillips Company (CONOCOPHILLIPS COMPANY)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC) (CHEVRON USA INC)	6301 Deauville Blvd.	Midland	TX	79706
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

ALL Consulting, LLC  
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Tulsa OK 74119

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New Mexico State Land Office  
310 OLD SANTA FE TRL  
SANTA FE NM 87501-2708

ConocoPhillips Company  
PO BOX 2197  
HOUSTON TX 77252-2197

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Chevron USA Inc.  
6301 DEAUVILLE  
MIDLAND TX 79706-2964

Empire New Mexico LLC  
2200 S UTICA PL STE 150  
TULSA OK 74114-7015

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1718 S Cheyenne Ave  
Tulsa OK 74119

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9414 8118 9956 2266 2757 71

XTO Energy Inc  
500 W ILLINOIS AVE STE 100  
MIDLAND TX 79701-4337

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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1718 S Cheyenne Ave  
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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Seaver SWD well permit

Lot K, Section 10, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

Date

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATIONS OF GOODNIGHT MIDSTREAM PERMIAN, LLC  
FOR APPROVAL OF A SALTWATER DISPOSAL WELL,  
LEA COUNTY, NEW MEXICO**

**CASE NOS. 23614-23617**

**SELF-AFFIRMED STATEMENT OF NATHAN ALLEMAN**

1. My name is Nathan Alleman. I am the President and Chief Regulatory Advisor for Ace Energy Advisors. I supported Goodnight Midstream Permian, LLC (“Goodnight Midstream”) (OGRID No. 372311) by managing the preparation and submission of the C-108 administrative applications in each of these cases.

2. I have previously testified before the New Mexico Oil Conservation Division (“Division” or “NMOCD”) as an expert witness in regulatory matters and permitting of saltwater disposal wells. My credentials as an expert in regulatory matters and permitting of saltwater disposal wells have been accepted by the Division and made a matter of record. I have attached my current curriculum vitae as **Goodnight Exhibit A-1**. I believe these credentials qualify me to testify as an expert in these areas.

3. I am familiar with the applications filed by Goodnight Midstream in these cases, and I am familiar with the status of the lands in the subject area.

4. These applications were originally filed for administrative approval but were protested during the administrative review period by Empire Petroleum Corporation (“Empire”). **Goodnight Exhibit A-2** is a copy of the protests filed by Empire. As a result of Empire’s protest in each of these cases, Goodnight Midstream requested that these applications be set for hearing before a Division Examiner. Empire is the only entity that objected to these applications.

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A**

**Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: November 2, 2023  
Case Nos. 23614-23617**

5. Each of these cases is located within the boundaries of the Eunice Monument South Unit (“EMSU”). **Goodnight Exhibit B-3** is a general overview map showing the location of each of the proposed injection wells within the EMSU.

**Case No. 23614: Doc Gooden SWD #1 Well**

6. **Goodnight Exhibit A-3** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

7. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Doc Gooden SWD #1 Well** (API No. pending), which will be located 1,596 feet from the south line and 1,334 feet from the east line (Unit J), Section 3, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-3** contains a C-102 depicting the location for the proposed injection well.

8. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 4,900 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

9. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

10. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

11. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

12. A copy of the well bore diagram for the proposed Doc Gooden SWD #1 is included at page 11 of **Goodnight Exhibit A-3**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

13. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

14. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

15. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

16. Thirty-five wells are located within the half-mile area of review. Fifteen of those wells are active producers, eighteen have been plugged and abandoned, and two are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-3**. Twenty-one wells within the area of review penetrate the injection interval; twelve have been properly plugged and abandoned and the other nine are active wells that have been properly cased and cemented to isolate them from the San Andres formation.



17. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 17-29 of **Goodnight Exhibit A-3**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

18. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 35 in **Goodnight Exhibit A-3**. In addition, water samples from the injection formation in the San Andres are located at page 37. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

19. The surface at the location of the proposed injection well consists of privately owned lands. Page 30 in **Goodnight Exhibit A-3** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

20. **Goodnight Exhibit A-3**, page 39, contains a map depicting the location of the proposed injection well and the relative location of five active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at pages 40-58 in the exhibit.

21. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 62 of **Goodnight Exhibit A-3**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD and NMSLO operator records as of the time the application was filed. See **Goodnight Exhibit A-3**, pages 30-32.

22. **Goodnight Exhibit A-3** pages 63-65 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 61.

23. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

**Case No. 23615: Hernandez SWD #1 Well**

24. **Goodnight Exhibit A-4** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

25. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Hernandez SWD #1 Well** (API No. pending), which will be located 326 feet from the south line and 793 feet from the east line (Unit

P), Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-4** contains a C-102 depicting the location for the proposed injection well.

26. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

27. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

28. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

29. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

30. A copy of the well bore diagram for the proposed Hernandez SWD #1 is included at page 11 of **Goodnight Exhibit A-4**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

31. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

32. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

33. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

34. Thirty-seven wells are located within the half-mile area of review. Nineteen of those wells are active producers, seven have been plugged and abandoned, and eleven are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-4**. Six wells within the area of review penetrate the injection interval; three have been properly plugged and abandoned and the other three are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

35. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-19 of **Goodnight Exhibit A-4**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

36. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 25 in **Goodnight Exhibit A-4**. In addition, water

samples from the injection formation in the San Andres are located at page 27. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

37. The surface at the location of the proposed injection well consists of privately owned lands. Page 20 in **Goodnight Exhibit A-4** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

38. **Goodnight Exhibit A-4**, page 29, contains a map depicting the location of the proposed injection well and the relative location of three active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at pages 30-39 in the exhibit.

39. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 43 of **Goodnight Exhibit A-4**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD, NMSLO and BLM operator records as of the time the application was filed. See **Goodnight Exhibit A-4**, pages 20-22.

40. **Goodnight Exhibit A-4** pages 44-47 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 42.

41. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

**Case No. 23616: Hodges SWD #1 Well**

42. **Goodnight Exhibit A-5** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

43. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Hodges SWD #1 Well** (API No. pending), which will be located 2,833 feet from the north line and 1,620 feet from the west line (Lot 11), Section 4, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-5** contains a C-102 depicting the location for the proposed injection well.

44. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,100 feet and 5,200 feet below the ground through a perforated completion. The maximum surface injection pressure will be 820 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 500 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

45. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

46. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

47. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

48. A copy of the well bore diagram for the proposed Hodges SWD #1 is included at page 11 of **Goodnight Exhibit A-5**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

49. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

50. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

51. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

52. Thirty wells are located within the half-mile area of review. Fourteen of those wells are active producers, eight have been plugged and abandoned, and seven are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-5**. Eleven wells within the area of review penetrate the injection interval; three have been properly plugged and abandoned and the other eight are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

53. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-20 of **Goodnight Exhibit A-5**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

54. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 26 in **Goodnight Exhibit A-5**. In addition, water samples from the injection formation in the San Andres are located at page 28. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

55. The surface at the location of the proposed injection well consists of privately owned lands. Page 21 **Goodnight Exhibit A-5** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

56. **Goodnight Exhibit A-5**, page 30, contains a map depicting the location of the proposed injection well and the relative location of four water wells within a one-mile radius; however, three of these wells are not freshwater wells and one is not currently active. *See* page 31 in the exhibit.



57. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 35 of **Goodnight Exhibit A-5**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD, NMSLO and BLM operator records as of the time the application was filed. See **Goodnight Exhibit A-5**, pages 21-23.

58. **Goodnight Exhibit A-5** pages 36-39 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 34.

59. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

#### **Case No. 23617: Seaver SWD #1 Well**

60. **Goodnight Exhibit A-6** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

61. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Seaver SWD #1 Well** (API No. pending), which will be located 1,809 feet from the south line and 1,428 feet from the west line (Unit K),

Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-6** contains a C-102 depicting the location for the proposed injection well.

62. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

63. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

64. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

65. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

66. A copy of the well bore diagram for the proposed Seaver SWD #1 is included at page 11 of **Goodnight Exhibit A-6**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

67. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

68. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

69. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

70. Thirty-five wells are located within the half-mile area of review. Seventeen of those wells are active producers, five have been plugged and abandoned, and thirteen are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-6**. Six wells within the area of review penetrate the injection interval; one has been properly plugged and abandoned and the other five are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

71. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-17 of **Goodnight Exhibit A-6**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

72. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 23 in **Goodnight Exhibit A-6**. In addition, water

samples from the injection formation in the San Andres are located at page 25. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

73. The surface at the location of the proposed injection well consists of privately owned lands. Page 18 in **Goodnight Exhibit A-6** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

74. **Goodnight Exhibit A-6**, page 27, contains a map depicting the location of the proposed injection well and the relative location of seven active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at page 28-46 in the exhibit.

75. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 50 of **Goodnight Exhibit A-6**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD and NMSLO operator records as of the time the application was filed. See **Goodnight Exhibit A-6**, pages 18-20.

76. **Goodnight Exhibit A-6** pages 51-52 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 49.

77. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

78. In my opinion, granting this application will help conserve resources, and will avoid waste and protect correlative rights.

79. **Goodnight Exhibits A-1 through A-6** were prepared by me or compiled under my direction from company business records or from the public records of the OCD.

80. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.



\_\_\_\_\_  
Nathan Alleman

10/25/2023

\_\_\_\_\_  
Date



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## **Nate Alleman**

### **President & Chief Regulatory Advisor**

### **Ace Energy Advisors**

#### **Education**

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M.A.S., Environmental Policy and Management, University of Denver  
B.S., Biology, Pittsburg State University

#### **Distinguishing Qualifications**

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Mr. Alleman has a Bachelor's Degree in Biology and a Master's Degree in Environmental Policy and Management and currently serves as President & Chief Regulatory Advisor for Ace Energy Advisors. Mr. Alleman has gained experience in the oil and gas industry through 15 years of research, policy review and development, field operations, and project management. Mr. Alleman's experience includes analysis and resolution of both operational and multi-jurisdictional regulatory issues in the areas of well construction and siting; well permitting; contractor management; water sourcing, storage, treatment, transportation, and disposal; spill response and cleanup; stray gas investigation; and public affairs. Mr. Alleman has managed the permitting of over 500 oil and gas wells and has conducted due diligence audits on over 2,000 oil and gas production facilities and over 150 saltwater disposal (SWD) facilities. Mr. Alleman oversees a team of interdisciplinary experts (engineers, geologists, landmen, and regulatory specialists) and has managed the permitting of over 150 SWDs across the country including planning, site selection, well design, seismic and geologic reviews, and coordination with regulatory agencies. Mr. Alleman has testified as the regulatory expert in over 25 hearings related to the permitting and operations of SWDs.

#### **Relevant Experience**

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The following information is intended to demonstrate Mr. Alleman's experience and qualifications:

For multiple operators, including Goodnight Midstream, Marathon Oil Corporation, Solaris Midstream, Blackbuck Resources, WaterBridge, Pilot Water Solutions, and Select Energy Services, Mr. Alleman has served as a contract regulatory advisor for water midstream projects and has been responsible for managing the purchasing, designing, permitting, building, and/or operating of commercial and non-commercial water treatment systems, fresh and saltwater storage and transportation systems, and salt water disposal wells. In this role, Mr. Alleman has managed the permitting and/or overseen the construction of over 150 SWDS, water pipelines, pits, water treatment/recycling facilities, and gas plants with a majority of these projects taking place in New Mexico, Texas, Oklahoma, and Louisiana. As a part of this support, Mr. Alleman has testified as a regulatory expert in over 25 hearings related to the permitting and operations of SWDs.

For **Marathon Oil Corporation**, Mr. Alleman served as a contract disposal permitting coordinator for their water disposal operations in Oklahoma, Louisiana, and Texas. Mr. Alleman has assisted Marathon in identifying subsurface geological formations suitable for high volume injection. For this effort, Mr. Alleman led a team that assessed potential injection zones in a six (6) County area of Oklahoma (i.e., Kingfisher, Garvin, Canadian, Stephens, Grady, and Blaine). For the

## Nate Alleman

project, over a thousand injection wells were evaluated, including review of operational data, geophysical logs, well completion details, and other information. For the first phase of the project, high confidence areas were identified, including prospective target zones and various other details in what is currently Oklahoma's most actively drilled area of the state. This led to the successful permitting of multiple saltwater disposal wells in the Stack play.

For **Alta Mesa**, Mr. Alleman served as the permitting coordinator and field supervisor for a large water infrastructure project in Kingfisher County, Oklahoma. The project includes planning, design, construction, and operation of water infrastructure for approximately 100,000 acres that are being developed by Alta Mesa. This includes in excess of 100 miles of water pipeline, water access from the Cimarron River, multiple water impoundments, various pumps, manifolds, and various other components. The project was completed on a full design-build (or turnkey) basis with an overall budget of approximately \$100 million.

For **Primexx Operating Corporation**, Mr. Alleman served as the permitting coordinator and field supervisor for multiple produced water recycling projects located in West Texas. The projects generally include design/construction of freshwater storage impoundments; construction of multiple recycling systems designed to manage 30,000-45,000 barrels of water per day (BWPD); surface facilities required for treatment systems, disposal wells, and production operations; components for conditioning water for direction to either disposal wells or recycling systems; and other related infrastructure. The project also included overall planning for water to assure drilling and completion operations were fully supported.

For multiple companies in Pennsylvania (including Seneca Resources, PGE, and others), Mr. Alleman managed projects pertaining to induced seismicity for Class II disposal wells being permitted in the State. Mr. Alleman and his team worked with industry and the Pennsylvania Department of Environmental Protection (DEP) in the development of custom permit conditions related to induced seismic monitoring and mitigation planning. The conditions negotiated with DEP became the standard methodology and permit conditions used for seismic monitoring in Pennsylvania.

Mr. Alleman served as a researcher and regulatory specialist for a litigation case between a midstream company and landowner involving an oil spill in Stephens County, Oklahoma. Although the case settled, Mr. Alleman supported the client with review and analysis of existing technical data and technical reports prepared by the Plaintiff's expert. Mr. Alleman visited the site, conducted analysis, and supported preparation of an expert report, and supported settlement negotiations from a technical basis. The primary issue at hand in this case was a large release of crude oil from a pipeline and related impacts to the plaintiff's property. This support required knowledge of soils, soil chemistry, remediation of crude oil in soils (e.g., land farming), soil handling/blending, related state guidance & requirements, as well as understanding Oklahoma's oil & gas historical operations as well as water well construction and related area geology/hydrogeology.

Mr. Alleman served as a researcher and writer for a U.S Department of Energy (DOE) research project involving the preparation of a Primer on shale gas development throughout the United States. The project involved analysis of natural gas supplies, the regulatory framework applicable to the oil & gas industry, geology and development approaches applicable to shale gas, and research related to a broad array of environmental issues. The environmental review included research on issues such as horizontal drilling, hydraulic fracturing, water sourcing, water management, water treatment/disposal, and other issues and impacts pertaining to issues such as transportation, wildlife, stormwater, underground injection, noise, visual impacts, drilling in rural versus metropolitan areas, etc. Mr. Alleman is currently serving as Project Manager for an update to this report.

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For a confidential client, Mr. Alleman is served in multiple roles for a 30-wellpad-per-year exploration and production operation in the Utica Shale of southeastern Ohio.

- **Baseline Sampling:** Mr. Alleman managed the field operations and report submission for the client's 30-well-pad-per-year baseline sampling operation. He developed a standard operating procedure based on U.S. Environmental Protection Agency (USEPA) and Ohio Department of Natural Resource (ODNR) requirements, along with the client's internal sampling protocols that exceed the state and federal requirements and best management practices (BMPs).
- **Incident Response:** Mr. Alleman managed responses to groundwater, surface water, and soil contamination complaints for the client. This work involved interviewing landowners, collecting samples from the complaint area and any nearby pads as needed, and working with engineers, hydrologists, and attorneys to determine whether any further action (e.g., remediation, water source replacement, or remuneration) is needed.
- **Policy Support:** Mr. Alleman worked with high level staff and multiple functional groups to review, comment, and augment the client's policies and procedures. The programs involved in the scope of the task range from on-boarding for new hires and contractors, health and safety, air compliance program, general Health, Safety, and the Environment (HSE) plans, incident management, water management, waste management, and operations (transitions and controls between phases). As the policies and procedures are finalized, associated training will be developed and finalized as a way to transfer the information to the field personnel.
- **Construction Oversight:** In support of a compliance agreement with ODNR, Mr. Alleman performed oversight during the construction of a dozen well pads and associated roads to ensure that contractors built the improvements as specified in the approved plans.

Mr. Alleman served as a primary researcher in an expert witness case regarding New Mexico's pit rules. Research included analyzing previous, current, and proposed regulations and practices in New Mexico and comparing those regulations to other states' rules as support for a colleague's expert witness testimony.

For a confidential client, Mr. Alleman served as the Project Coordinator for their Eagle Ford (EF) operations, involving Health, Safety, and Environmental Regulatory (HSE-R) oversight and coordination during the planning, construction, drilling, completion, and production phases of development operations for ten drilling rigs. Mr. Alleman worked out of the client's offices to facilitate the coordination of the various ongoing projects and to help with strategic development of operation efficiencies and inter-office coordination. Mr. Alleman served as the primary client interface and was in charge of ensuring the following projects were performed properly and in a timely manner:

- **Waste Management:** Mr. Alleman has assisted in the development of a waste management protocol for wastes generated during the drilling, completion, and operations processes. The waste management protocol includes identification of the proper methods for storage, handling, spill cleanup and reporting, transportation, and disposal. Mr. Alleman has also assisted in identifying the most appropriate disposal facilities based on location, transportation costs, disposal costs, and compliance of the disposal facility in question. Additionally, a disposal facility and hauling contractor audit process was developed and implemented to ensure compliance and efficiency in the client's waste management operations.



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- **Well Pad Siting:** Mr. Alleman developed a Regulatory Site Assessment (RSA) process to determine construction and operation opportunities based on regulatory constraints associated with existing pipelines, wetlands, surface water bodies, floodplains, residential properties, air permits, threatened and endangered species, and other criteria. These assessments were successful in identifying and avoiding issues that would have otherwise slowed down or stopped development based on regulatory requirements had they not been identified prior to initiating survey and construction field work.
- **Environmental Assessments:** Mr. Alleman tracked and managed the execution of Environmental Assessments prior to construction of well pads, pipelines, access roads, pits, and water wells and instituted changes in the field procedures to increase the efficiency of responding to issues identified in the assessments. Mr. Alleman also reviewed the Environmental Assessments and managed follow-up actions to mitigate issues based on the findings. Such mitigation included revising the location and timing of construction and obtaining necessary permits.
- **Process Management:** With the various projects he has managed, Mr. Alleman has instituted many inter-departmental processes to standardize the methods by which work was completed and tracked. The process management tasks included coordination between the various departments to determine preferred methods for commissioning work, communicating findings, and recording final decisions and actions. The processes were then formalized and recorded in a client-approved format and distributed to the applicable groups, and training was developed and provided as necessary.
- **Ground Water Conservation Districts:** Mr. Alleman was in charge of bringing the client's groundwater well permitting program into compliance with the Texas Water Code and Groundwater Conservation District (GCD) rules. Work included identifying the location and permit status of the client's current groundwater wells, developing a process to bring existing wells into compliance, developing a process to permit new groundwater wells as they were drilled, and developing a system to track the progress of each of the aforementioned items. Mr. Alleman was the lead contact and liaison between the client and the GWCDs and was in charge of successfully permitting 34 groundwater wells.
- **Permitting Support:** Mr. Alleman assisted the client's regulatory department in obtaining the necessary permits and giving necessary notification required throughout the life of oil and gas wells, including submitting drill permits and completion reports through the Railroad Commission of Texas (RRC). Aside from actually completing the regulatory paperwork, Mr. Alleman worked with the client's regulatory, drilling, completions, land, and geology groups to develop a process to improve inter-office coordination and increase the efficiency of the permitting and reporting processes going forward.
- **Emergency Response:** Mr. Alleman researched and documented the spill reporting and notification requirements in Texas based on Texas Commission on Environmental Quality (TCEQ), RRC, USEPA, National Response Center (NRC), Bureau of Land Management (BLM), and Texas Department of Transportation (TxDOT) rules. Mr. Alleman developed a spill reporting policy for the client that identifies the chemical-specific threshold reporting values to determine the appropriate reporting agency, method, and timeframe based on the volume and type of material spilled.
- **Department of Transportation (DOT) Pipelines:** Mr. Alleman coordinated with other ALL staff specialists to determine the regulatory jurisdiction of the client's production and gathering lines throughout the EF. The work included mapping the pipelines and determining the proximity to residential structures to determine the class location of the

## Nate Alleman

pipeline. Mr. Alleman then worked with the client's facilities engineers to obtain operational information used to determine the regulatory jurisdiction of the pipeline.

- **Chemical Disclosure:** Mr. Alleman was in charge of the review and ultimate submission of chemical disclosure reports to FracFocus. Mr. Alleman coordinated with the completions contractor to ensure that the chemical information was obtained in a timely manner, then reviewed and revised the reports in accordance with RRC regulations and FracFocus formatting requirements prior to submission.
- **Impoundment Permitting:** Mr. Alleman assisted the client in determining pit location and design based on operational needs and regulatory requirements. The location of the proposed pits and ponds was evaluated to determine the need for U.S. Army Corps of Engineers (USACE) or other permits prior to construction. Often, due to an expedited drilling schedule, sufficient time was not available to obtain the necessary permits for pit construction. In these situations, Mr. Alleman assisted the client in identifying alternatives to the proposed location or identifying other water sourcing solutions to fit the need. An operations and maintenance plan (with inspection procedures) was developed to ensure construction, maintenance, and closure were carried out in accordance with state regulations.

For a confidential client, Mr. Alleman was the lead researcher in identifying spill response and notification requirements for the client's operations in each of five states. After researching and compiling the spill-requirement information, Mr. Alleman developed a guide to help field personnel make quick and informed decisions and to provide information regarding initial and follow-up notifications to make in the case of various types of oilfield-related spills.

Mr. Alleman supported Newalta Corporation in assessing the feasibility of new salt water disposal (SWD) well sites in the Marcellus, Utica, Eagle Ford, and Bakken shale plays. This included evaluating the presence of appropriate geologic characteristics and depths and potential liabilities associated with underground sources of drinking water, documenting costs associated with well drilling and facility construction/operation, identifying existing facilities, and determining potential disposal volumes and transportation issues. The findings of these evaluations were used to identify the most operationally and economically appropriate disposal locations in each of the areas of interest.

For several confidential clients, Mr. Alleman supported acquisitions of assets in the Rocky Mountain and Gulf Coast Basins. The work included analyzing regulatory compliance of the prospective properties and operators, coordinating with state agencies to identify all of the assets in question, and determining requirements and filing appropriate paperwork to notify the proper agencies of the transfer of oil wells and gas plants. The findings of the acquisition support efforts were used by the client to determine fitness of the assets to be purchased and to negotiate prices based on expected liabilities.

In East Texas, Mr. Alleman supported a confidential client in a litigation case where their operations were being accused of contaminating groundwater in the area. The work consisted of collecting gas samples from area water wells and gas wells and conducting isotopic analyses to determine if the production or back-side gas found in the gas wells originated from the same formation as the gas found in the plaintiff's water well. Mr. Alleman also coordinated and conducted pressure tests to determine if the annuli of the surface and production casings of the gas wells in question were in communication which would indicate a failed cement job or failed casing.

## Nate Alleman

Mr. Alleman completed a project with a confidential client to assess the water resources and management issues in the Eagle Ford Shale in south Texas. By performing a regulatory review in the state of Texas, Mr. Alleman became intimately familiar with Texas's regulations associated with drilling and production, groundwater withdrawals, surface water withdrawals, water management and reporting, and waste disposal. Additionally, Mr. Alleman is familiar with the jurisdictions and authorities of, and has contacts with, the RRC, TCEQ, Watermaster, GCDs, and River Authorities in the EF area.

Mr. Alleman acted as the primary researcher and author for a project that summarized oil and gas waste regulations from nine states containing major shale gas basins. The research resulted in the creation of an easily accessible database of regulations for each of the states. The database summarizes usage, reporting, storage, transportation, and disposal regulations associated with various oil and gas waste streams including produced water, drilling mud, waste oil, stormwater, and solid wastes. Through the preliminary research and revising the database with updated regulations, Mr. Alleman has become knowledgeable on the subject of waste regulations and has used this knowledge to support oil and gas operators in compliance and regulatory issues.

Mr. Alleman served as a co-researcher on two U.S. Department of Energy research efforts involving water resources, water treatment, and produced water. One of the projects involved assessing non-traditional water supply alternatives for coal-fired power plants. The other project includes evaluating options for the oil & gas industry to assess alternatives for managing produced water, including evaluating the effectiveness of numerous treatment options for produced water.

As a lead researcher and writer, Mr. Alleman has prepared papers for oil and gas clients associated with state and federal issues. The issues being evaluated had resulted in delays and challenges to important permitting processes and resource development. The research involved talking with multiple regulatory agencies to determine the current status of the regulations and how these regulations affect development in the area and summarizing the issues and potential paths forward for the client.

### Short Course Completed

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8-hr HAZWOPER Refresher – March 2015

Remediation and Restoration of Hydrocarbon and Brine Contaminated Soils – February 2015

### Recent Publications

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- Nate Alleman, J.D. Arthur P.E. SPEC, Gavin James P.E., Ben Bockelmann (ALL Consulting). “Alternative Produced Water Management Strategies in a Seismically Restricted World: Issues & Opportunities”. Presented at the North American Oil & Gas Shale Water Management 2022. Houston, TX. August 22, 2022.
- Nate Alleman, J.D. Arthur P.E. SPEC (ALL Consulting). “Data-Driven Process for Selecting Production and Salt Water Disposal Well Locations Based on Site Specific and Regional Factors”. Presented at IPEC Connect. May 6, 2021.
- Nate Alleman (ALL Consulting). Produced Water Society Seminar. “Data-Driven Process and Regional Considerations for Optimal SWD Planning and Permitting”. September 8, 2021.
- Nate Alleman, J.D. Arthur P.E. SPEC, Mark Kidder, and Tom Tomastik (ALL Consulting). “Application of Recycling & Reuse Technologies to Minimize the Cost of Water Management”. Oklahoma Shale Production Optimization Congress SCOOP & STACK 2019. Oklahoma City, OK. May 1, 2019.

## Nate Alleman

- Nate Alleman, J.D. Arthur P.E. SPEC, Gavin James P.E., Bill Hochheiser (ALL Consulting). “*Produced Water Recycling in the Delaware Basin of New Mexico*”. Presented at the 2018 International Petroleum Environmental Conference. Tulsa, OK. October 31, 2018.
- Nate Alleman and J. Daniel Arthur, P.E., SPEC. “*Induced Seismic Monitoring: A Regulatory and Technical Update*”. Presented at the IOGANY 2017 Annual Summer Meeting. Clymer, NY. July 12, 2017.
- Nate Alleman, J. Daniel Arthur, P.E., SPEC, and Mark Faucher (ALL Consulting). “*Innovation in the Oilfield: How Best Management Practices Have Reduced the Impacts of Shale Development*.” Presented at the SPE Mid-Continent Section Luncheon. Denver, CO. January 13, 2016.

3077772\_v1

PADILLA LAW FIRM, P.A.

STREET ADDRESS  
1512 S. ST. FRANCIS DRIVE  
SANTA FE, NM 87505

MAILING ADDRESS  
P.O. BOX 2523

SANTA FE, NEW MEXICO 87504-2523

EMAIL ADDRESS  
[padillalawnm@outlook.com](mailto:padillalawnm@outlook.com)

TELEPHONE  
505-988-7577

FACSIMILE  
505-988-7592

May 24, 2023

**VIA EMAIL & USMAIL**

[Dylan.Fuge@emnrd.nm.gov](mailto:Dylan.Fuge@emnrd.nm.gov)  
[OCD.Hearings@emnrd.nm.gov](mailto:OCD.Hearings@emnrd.nm.gov)

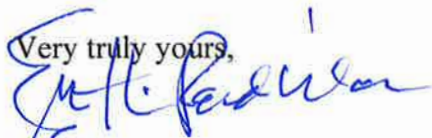
Mr. Dylan Fuge, Acting Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Mineral and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

Re: Administrative Applications of Goodnight Midstream Permian, LLC for salt water disposal wells in Lea County, NM of the following wells;  
Hernandez SWD #1 Class IID;  
Hodge SWD #1 Class IID;  
Seavers SWD #1 Class IID;  
Doc Gooden SWD #1 Class IID.

Dear Director Fuge:

Empire New Mexico LLC is an interest owner and operator within the area of the proposed Salt Water Disposal well. It therefore, objects to Goodnight Midstream Permian, LLC's administrative applications to convert the referenced wells to a SWD. This action could cause potential damage to Empire's correlative rights.

Empire requests that these administrative applications be set for hearing.

Very truly yours,  


ERNEST L. PADILLA

ELP:jbg

xc: Eugene Sweeney  
cc: All Consulting

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-2

Submitted by: Goodnight Midstream Permian, LLC Hearing  
Date: November 2, 2023  
Case Nos. 23614-23617

**EXHIBIT A**

**ALLCONSULTING**

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

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May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Doc Gooden SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Doc Gooden SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-3  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: November 2, 2023  
Case Nos. 23614-23617

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ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** \_\_\_\_\_ **OGRID Number:** \_\_\_\_\_  
**Well Name:** \_\_\_\_\_ **API:** \_\_\_\_\_  
**Pool:** \_\_\_\_\_ **Pool Code:** \_\_\_\_\_

**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

<b>FOR OCD ONLY</b>	
<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.**

\_\_\_\_\_ Date

Print or Type Name

*Nathan Allen*  
\_\_\_\_\_

Signature

\_\_\_\_\_ Phone Number

\_\_\_\_\_ e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:  Nathan Alleman  DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. 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



Side 2

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject  
Well Name: Doc Gooden SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Doc Gooden SWD #1  
Location Footage Calls: 1,596 FSL & 1,334 FEL  
Legal Location: Unit Letter J, S3 T21S R36E  
Ground Elevation: 3,548'  
Proposed Injection Interval: 4,200' – 4,900'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,370'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,000'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 4,900'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,642')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,205')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are 21 wells that penetrate the injection zone, 12 of which has been properly plugged and abandoned, while the other 9 wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 4,900 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,345 feet. Water well depths in the area range from approximately 129 – 181 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 8 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (L-14815 POD 1 on 05/05/2023 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results for CP-011039 POD 1 and L-14815 POD 1 are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram

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: (505) 748-1283 Fax: (505) 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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name DOC GOOGEN SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3548'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	21 S	36 E		1596'	SOUTH	1334'	EAST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**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.*

05/02/2023

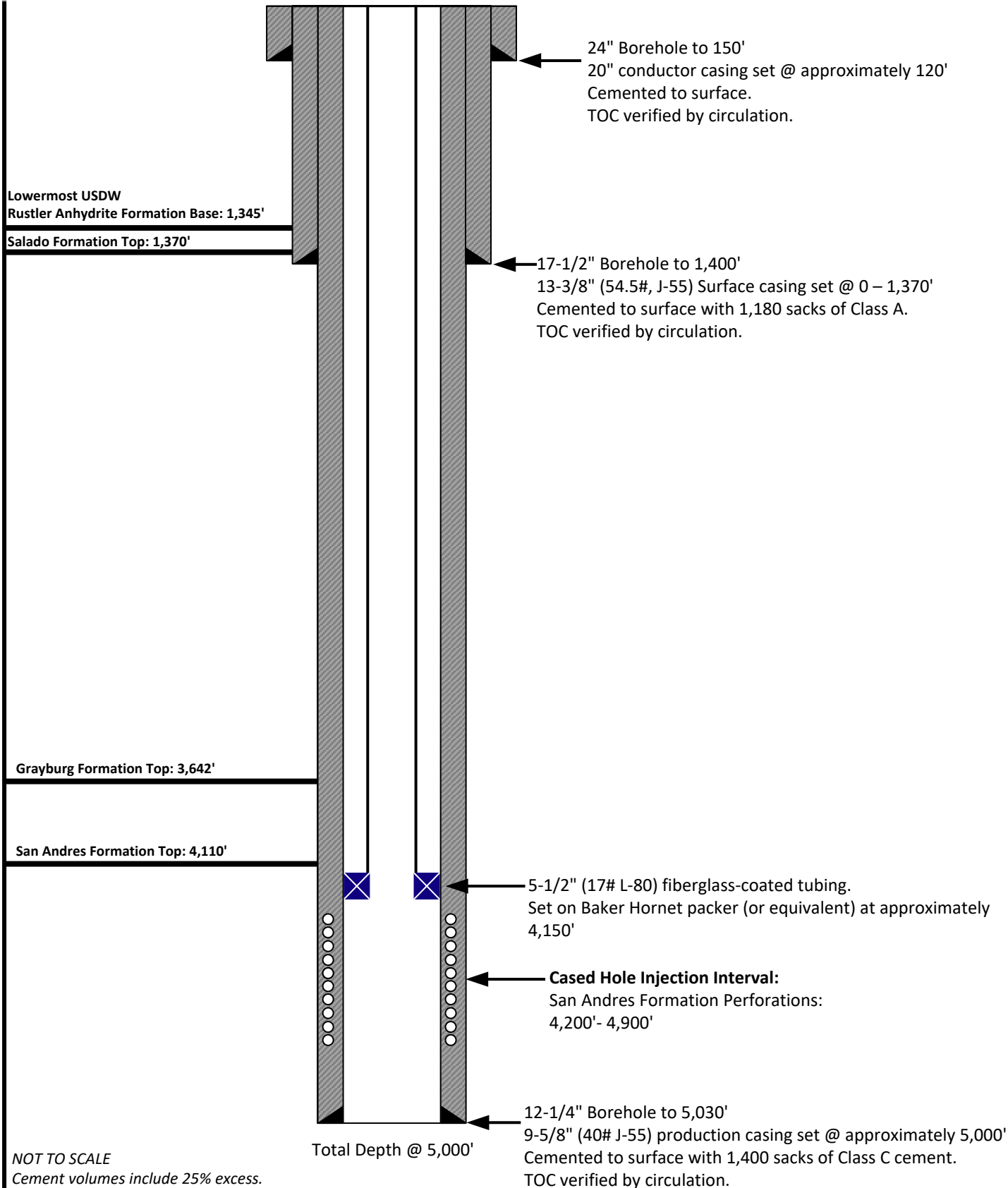
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number

21209

TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

<p>Prepared by:</p> <p>Prepared for:</p>	<p>Drawn by: Joshua Ticknor, P.E.</p>	<p><b>Goodnight Midstream Permian, LLC</b> Proposed Wellbore Diagram Doc Gooden SWD #1 1,596' FSL &amp; 1,334' FEL Section 3, Twp 21 S, Rng 36 E Lea County, New Mexico</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 4/11/2023</p>	



## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



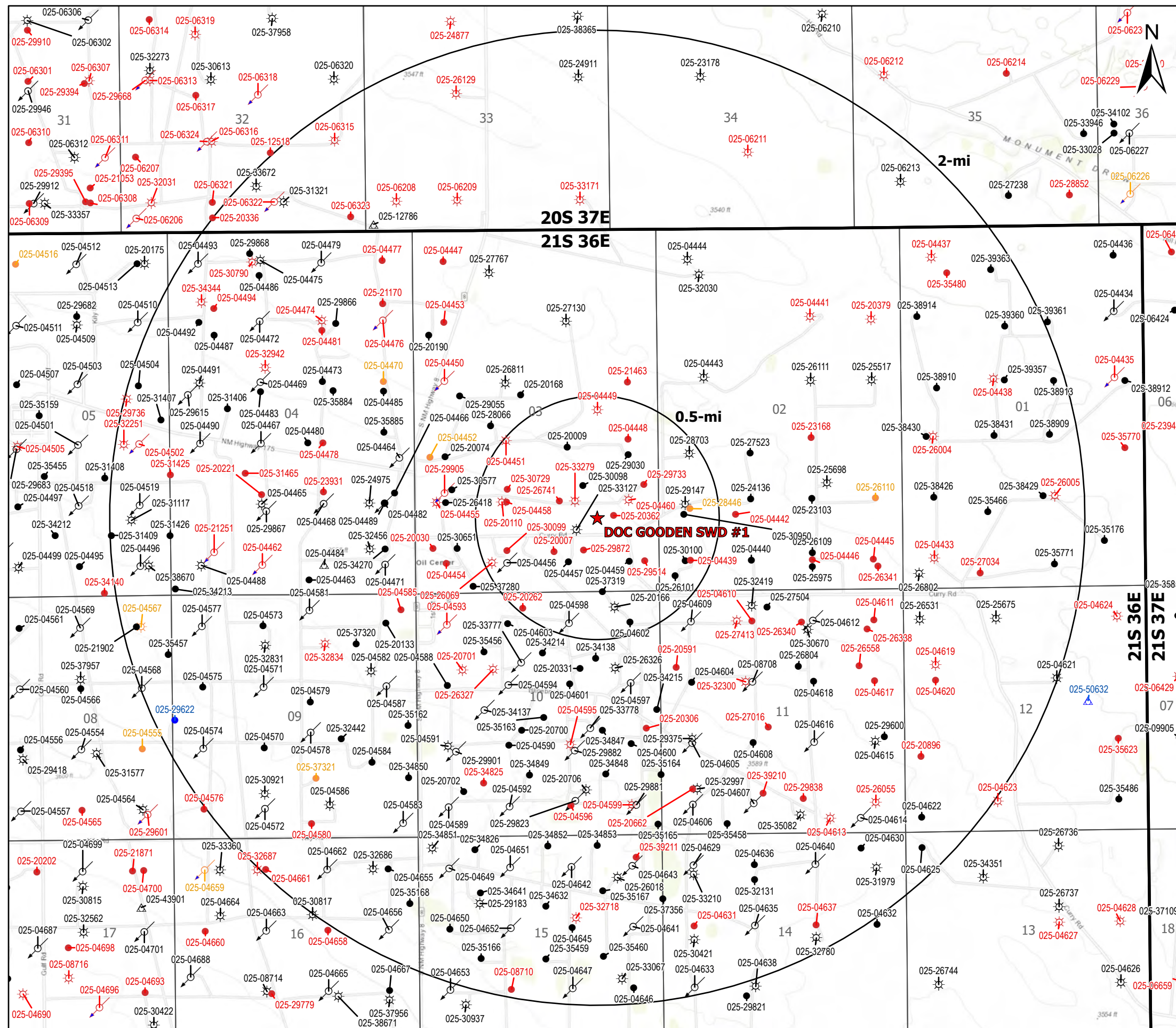
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☼ Gas, Active (85)
- ☼ Gas, Plugged (54)
- ☼ Gas, Temporarily Abandoned (1)
- ↻ Injection, Active (81)
- ↻ Injection, Plugged (19)
- ↻ Injection, Temporarily Abandoned (2)
- Oil, Active (148)
- Oil, New (1)
- Oil, Plugged (89)
- Oil, Temporarily Abandoned (7)
- △ Salt Water Injection, Active (3)
- △ Salt Water Injection, New (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

### AOR Tabulation for Doc Gooden SWD #1 (Injection Interval: 4,200' - 4,900')

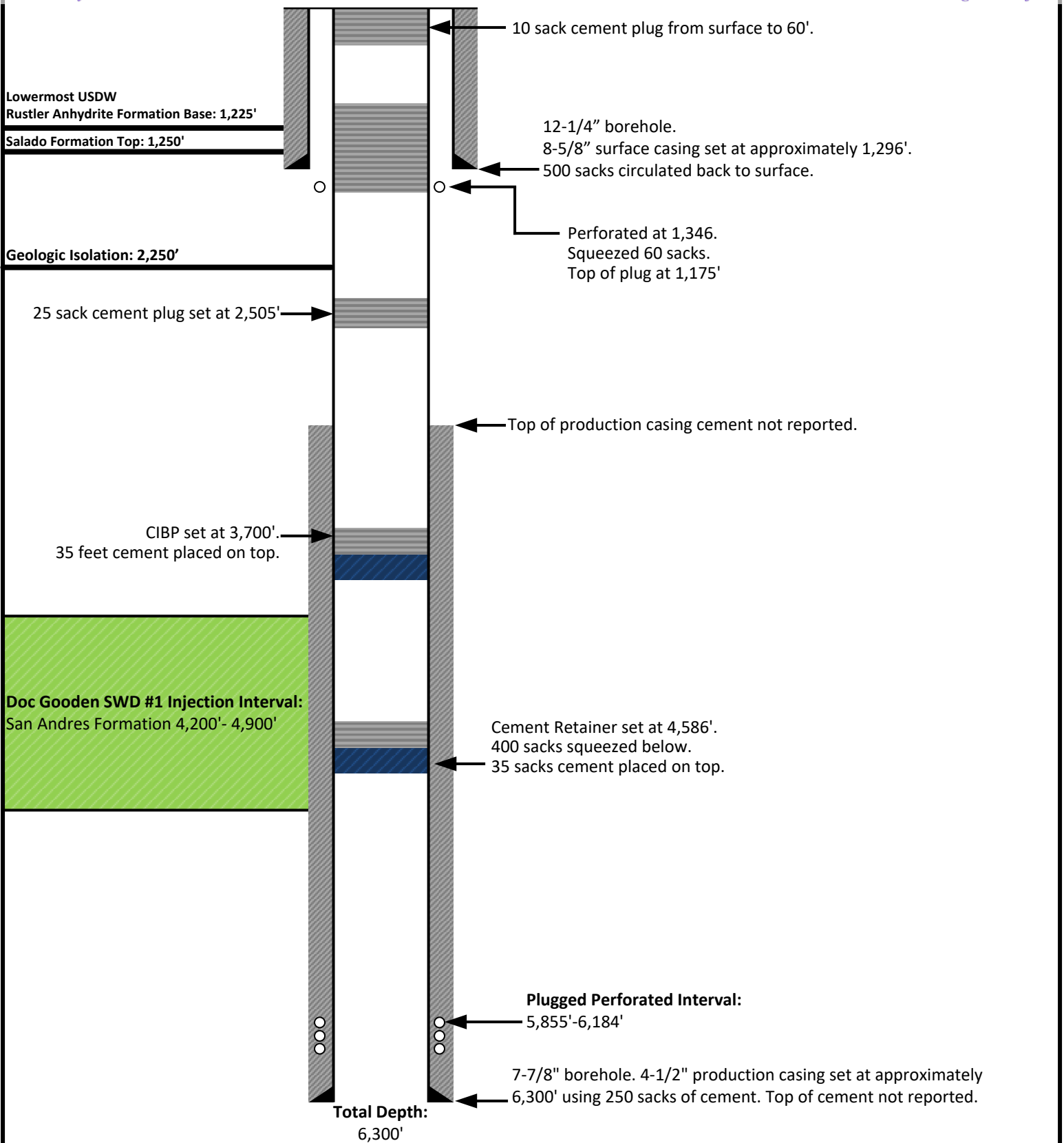
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
J A AKENS #008	30-025-20007	Plugged	CHESAPEAKE OPERATING, INC.	6/17/1963	W-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #007	30-025-20110	Plugged	CHESAPEAKE OPERATING, INC.	12/12/1969	S-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #011	30-025-26741	Plugged	CHESAPEAKE OPERATING, INC.	5/29/1980	R-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #014	30-025-29872	Plugged	CHESAPEAKE OPERATING, INC.	3/24/1987	W-03-21S-36E	(Plugged) 7,000	Yes
STATE G #001	30-025-04439	Plugged	CHEVRON U S A INC	5/1/1937	U-02-21S-36E	(Plugged) 3,852	No
EVANS STATE #003	30-025-04449	Plugged	CHEVRON U S A INC	9/19/1953	P-03-21S-36E	(Plugged) 3,587	No
EUNICE MONUMENT SOUTH UNIT #233	30-025-04451	Plugged	CHEVRON U S A INC	1936	F-03-21S-36E	(Plugged) 3,875	No
J A AKENS #006	30-025-04460	Plugged	CHEVRON U S A INC	10/2/1937	I-03-21S-36E	(Plugged) 3,834	No
USA J A AKENS #009	30-025-20362	Plugged	CHEVRON U S A INC	9/25/1963	I-03-21S-36E	(Plugged) 6,296	Yes
J A AKENS #010	30-025-26069	Plugged	CHEVRON U S A INC	9/16/1978	N-03-21S-36E	(Plugged) 6,319	Yes
USA J A AKENS #012	30-025-29514	Plugged	CHEVRON U S A INC	12/3/1985	P-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #013	30-025-29733	Plugged	CHEVRON U S A INC	8/29/1996	I-03-21S-36E	(Plugged) 6,950	Yes
J A AKENS #016	30-025-30099	Plugged	CHEVRON U S A INC	12/8/1987	N-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #019	30-025-30729	Plugged	CHEVRON U S A INC	11/27/1989	K-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #021	30-025-33279	Plugged	CHEVRON U S A INC	2/17/1996	J-03-21S-36E	(Plugged) 3,700	No
Evens-State #002	30-025-04448	Plugged	Devonian Oil Company	3/31/1937	P-03-21S-36E	(Plugged) 3,848	No
EVANS STATE #004	30-025-20009	Oil	DIAMOND S ENERGY COMPANY	7/12/1963	G-03-21S-36E	6,916	Yes
EVANS STATE #007	30-025-29030	Oil	DIAMOND S ENERGY COMPANY	12/20/1984	H-03-21S-36E	6,900	Yes
EUNICE MONUMENT SOUTH UNIT #263	30-025-04456	Injection	Empire New Mexico LLC	8/19/1936	N-03-21S-36E	3,872	No
EUNICE MONUMENT SOUTH UNIT #236	30-025-04458	Plugged	Empire New Mexico LLC	4/24/1972	S-03-21S-36E	(Plugged) 3,963	No
EUNICE MONUMENT SOUTH UNIT #265	30-025-04459	Oil	Empire New Mexico LLC	12/14/1936	P-03-21S-36E	3,852	No
EUNICE MONUMENT SOUTH UNIT #275	30-025-04598	Injection	Empire New Mexico LLC	8/6/1936	B-10-21S-36E	3,901	No
EUNICE MONUMENT SOUTH UNIT #274	30-025-04602	Oil	Empire New Mexico LLC	12/12/1936	A-10-21S-36E	3,865	No
JOHN D KNOX #009	30-025-20166	Gas	Empire New Mexico LLC	10/6/1963	A-10-21S-36E	6,220	Yes
EUNICE MONUMENT SOUTH UNIT #266	30-025-26101	Oil	Empire New Mexico LLC	10/31/1978	U-02-21S-36E	3,923	No
J F JANDA NCT D #003	30-025-28446	Oil	Empire New Mexico LLC	11/15/1983	T-02-21S-36E	(TA) 5,929	Yes
J F JANDA NCT D #004	30-025-28703	Gas	Empire New Mexico LLC	5/23/1984	M-02-21S-36E	6,794	Yes
J F JANDA NCT D #005	30-025-29147	Gas	Empire New Mexico LLC	2/28/1985	L-02-21S-36E	6,900	Yes
EUNICE MONUMENT SOUTH UNIT #660	30-025-37319	Oil	Empire New Mexico LLC	10/19/2005	P-03-21S-36E	4,450	Yes
BLINEBRY OIL COM NO 1 #001	30-025-20262	Plugged	EXXON MOBIL CORPORATION	7/26/1963	C-10-21S-36E	(Plugged) 6,180	Yes
J A AKENS #015	30-025-30098	Oil	SOUTHWEST ROYALTIES INC	11/16/1987	J-03-21S-36E	7,000	Yes
NEW MEXICO G STATE #001	30-025-30100	Oil	SOUTHWEST ROYALTIES INC	10/15/1987	M-02-21S-36E	7,030	Yes
J A AKENS #020	30-025-33127	Gas	SOUTHWEST ROYALTIES INC	10/23/1995	R-03-21S-36E	3,700	No
EUNICE MONUMENT SOUTH UNIT #264	30-025-04457	Oil	XTO ENERGY, INC	9/26/1936	W-03-21S-36E	3,859	No
J F JANDA NCT D #006	30-025-30950	Oil	XTO ENERGY, INC	9/9/1990	L-02-21S-36E	5,350	Yes

**Note:** A review of available NMOCD well records for 30-025-04451 did not identify an exact spud date, however drilling records did state that the well was spudded and completed in 1936.

Well Name	Casing Information for Wells Penetrating the Doc Gooden SWD #1 Injection Zone											
	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
J A AKENS #008	1296'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #004	1279'	8.625"	Surface	Circulation	400	11"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #007	1288'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #009	1316'	7.625"	Surface	Circulation	450	9.875"	N/A	N/A	N/A	N/A	N/A	N/A
BLINEBRY OIL COM NO 1 #001	1333'	7.625"	Surface	Circulation	450	9.875"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #009	1280'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #010	1304'	8.625"	Surface	Circulation	600	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #011	1290'	8.625"	Surface	Circulation	600	11"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #003	1145'	8.625"	Surface	Circulation	550	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #004	418'	13.375"	Surface	Circulation	450	17.5"	2707'	8.625"	Surface	Circulation	850	11"
EVANS STATE #007	474'	13.375"	Surface	Circulation	500	17.5"	2686'	8.625"	Surface	Circulation	850	11"
J F JANDA NCT D #005	425'	11.75"	Surface	Circulation	350	14.75"	2680'	8.625"	Surface	Circulation	750	11"
USA J A AKENS #012	407'	13.375"	Surface	Circulation	450	17.5"	2700'	8.625"	Surface	Circulation	1350	11"
J A AKENS #013	404'	13.375"	Surface	Circulation	475	17.5"	2690'	8.625"	Surface	Circulation	1150	11"
J A AKENS #014	416'	13.375"	Surface	Circulation	425	17.5"	2700'	8.625"	Surface	Circulation	1100	11"
J A AKENS #015	1345'	13.375"	Surface	Circulation	1425	17.5"	4900'	8.625"	Surface	Circulation	1200	11"
J A AKENS #016	1363'	13.375"	Surface	Circulation	1425	17.5"	4900'	8.625"	Surface	Circulation	1750	11"
NEW MEXICO G STATE #001	1350'	13.375"	Surface	Circulation	1425	17.5"	4758'	8.625"	2400'	Temp. Survey	1375	11"
J A AKENS #019	400'	13.375"	Surface	Circulation	525	17.5"	3970'	8.625"	Surface	Circulation	1450	11"
J F JANDA NCT D #006	1303'	8.625"	Surface	Circulation	870	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #660	1200'	8.625"	Surface	Circulation	565	12.25"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner						Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
J A AKENS #008	6300'	4.5"	Unknown	Unknown	250	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #004	5990'	4.5"	2750'	Temp. Survey	500	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #007	6300'	4.5"	2625'	Temp. Survey	700	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #009	6220'	4.5"	2500'	Temp. Survey	500	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
BLINEBRY OIL COM NO 1 #001	6168'	4.5"	2400'	Temp. Survey	500	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #009	6296'	5.5"	3308'	Temp. Survey	550	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #010	6319'	5.5"	550'	Temp. Survey	1450	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #011	6300'	5.5"	Surface	Circulation	1950	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #003	4343'	5.5"	Surface	Circulation	2550	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #004	6793'	5.5"	Surface	Circulation	1700	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #007	6900'	5.5"	1390'	Temp. Survey	1350	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #005	6900'	5.5"	Surface	Circulation	1300	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #012	7000'	5.5"	1200'	Temp. Survey	1100	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #013	6950'	5.5"	2700'	Temp. Survey	1050	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #014	7000'	5.5"	2500'	Temp. Survey	1000	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #015	7000'	5.5"	3272'	Temp. Survey	675	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #016	7000'	5.5"	Surface	Circulation	1270	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
NEW MEXICO G STATE #001	7030'	5.5"	3694'	Temp. Survey	800	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #019	7000'	5.5"	3630'	Temp. Survey	600	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #006	5350'	5.5"	Surface	Circulation	1825	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #660	5450'	5.5"	Surface	Circulation	660	7.875"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
J A AKENS #008	Pumped 400 sks cement at 4586'. Set CIBP at 4586' and set 35 sks cement on top. Set CIBP at 3700' and set 35 sks cement on top. Plugs set at 2505' with 25 sks, perfed at 1346' and plugged with 60 sks cement, 0 - 60' with 10
EVANS STATE #004	-
J A AKENS #007	Spot 55 sks ar 3350'. Tag cement at 2793'. Perf at 1338' and pump 375 sks. TOC at surface. CIBP set at 3532' with 35 sks cement. Plugged perforated intervals at 2919' - 3350' and 5849' - 6173'.
JOHN D KNOX #009	-
BLINEBRY OIL COM NO 1 #001	Set CIBP @ 5758' with 25 sks cement on top. Spot 25 sks cement from 2345' - 2703'. Perforate 4.5" casing at 1400' and squeeze 55 sks from 1285' - 1400'. Perforate 4.5" casing at 400' and circulate 95 sks cement to surface.
USA J A AKENS #009	Set CIBP at 5145'. Set plugs at 3941' - 4925' with 90 sks. Perfed and squeezed cement from 2401' - 2657' with 35 sks, Perfed and squeezed at 1330' with 75 sks, perfed and circulated 115 sks from 0 - 350'.
J A AKENS #010	Cement bridge plugs at 5825 - 5862, 5205 - 5227, 3255 - 3292. Spot 175 sks from 2337' - 3454' and 1089' - 2337' with 125 sks. Perfed and circulated cement from 0 - 350' with 70sks.
J A AKENS #011	Plugs set at 5605'' - 5792' with 25 sks, 3760' - 3954' with 25 sks, 2571' - 2615' with 25 sks, 1054' - 1401' with 35 sks, 0 - 404' with 45 sks.
J F JANDA NCT D #003	TA with CIBP set @3,670' with 4 sx. TOC @3,633'
J F JANDA NCT D #004	-
EVANS STATE #007	-
J F JANDA NCT D #005	-
USA J A AKENS #012	Set CIBP at 3400' with 36 ft cement. Spot cement at 3109' - 3357' with 25 sks & 2551' - 2800' with 25 sks. Perf and squeeze 75 sks cement from 1111' - 1325' and 165 sks from 0 - 450'.
J A AKENS #013	Set CIBP at 6475' with 50 sks cement (TOC at 6118'. Spot cement at 5005' - 5232' with 25 sks, 3250' - 3932' with 75 sks, perf at 2695' and pumped 40 sks from 2435' - 2770'. Perf and squeeex 105 sks from 794' - 1450' and 85 sks
J A AKENS #014	Could not get past 2138' during abandonment. Pumped 800 sks cement displaced to 2077'. Perf and squeeze cement at 1200' with 115 sks (TOC at 1108') and 466' with 170 sks to surface.
J A AKENS #015	-
J A AKENS #016	Set CIBP at 6491' with 50 sks cement, Spot cement from 4762' - 5305' 55 sks, 2280' - 3932' with 150 sks, 1049' - 1448' with 45 sks, and 0- 350' with 44 sks.
NEW MEXICO G STATE #001	-
J A AKENS #019	Set CIBP at 6400' with 100 sks cement. Spot cement at 5020' - 5245' with 25 sks, and 3542' - 4020' with 55 sks. Perf and squeeze 330 sks from 2274' - 3400'. Perfed at 1450' and pumped 360 sks cement to surface.
J F JANDA NCT D #006	-
EUNICE MONUMENT SOUTH UNIT #660	-



Not to Scale

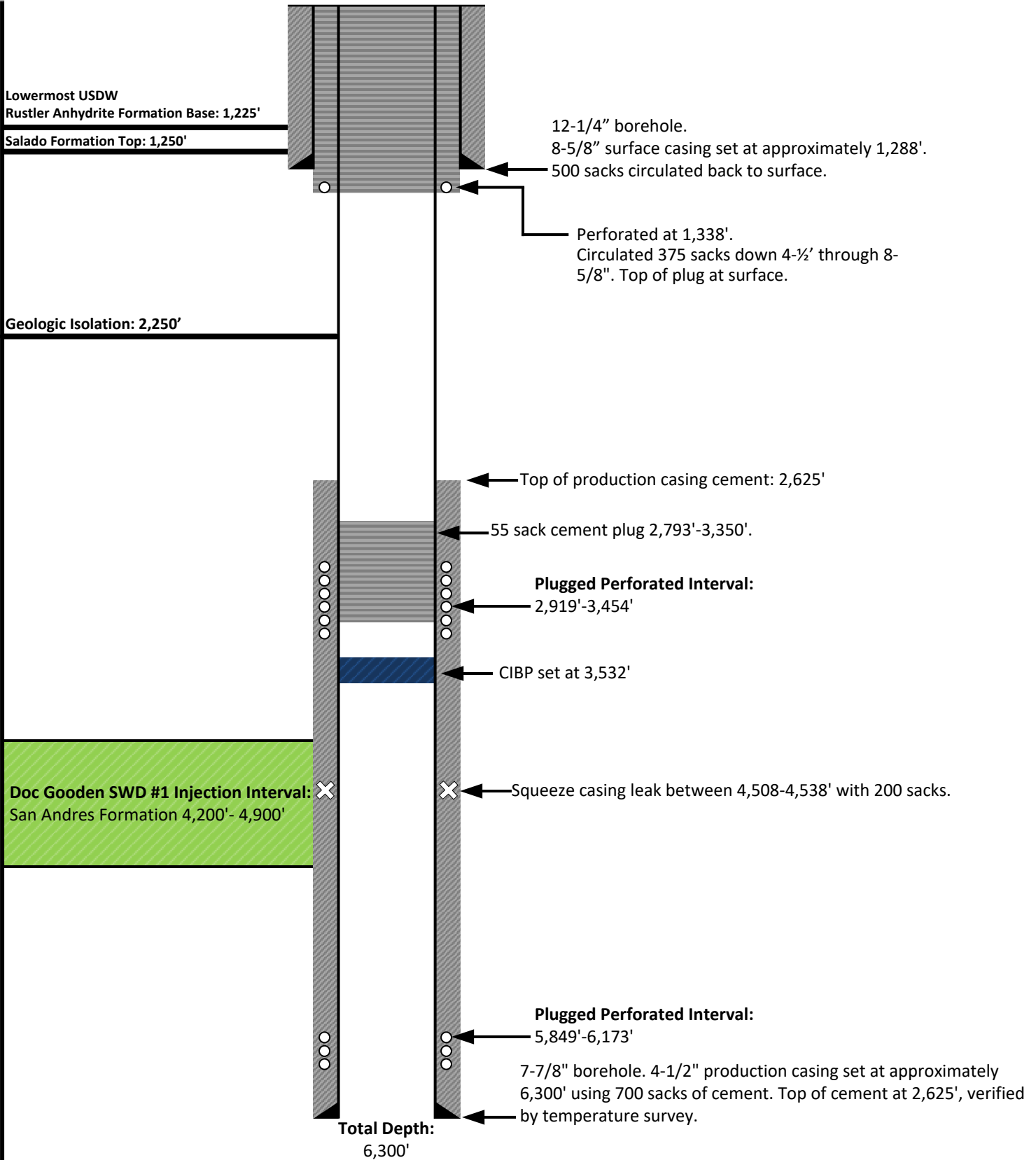
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A Akens #008  
 Wellbore Diagram  
 API: 30-025-20007  
 Spud Date: 06/17/1963  
 Plugged and Abandoned: 07/23/2008  
 Operated By: Chesapeake Operating Inc.



Not to Scale

Prepared by:  
  
 Prepared for:  

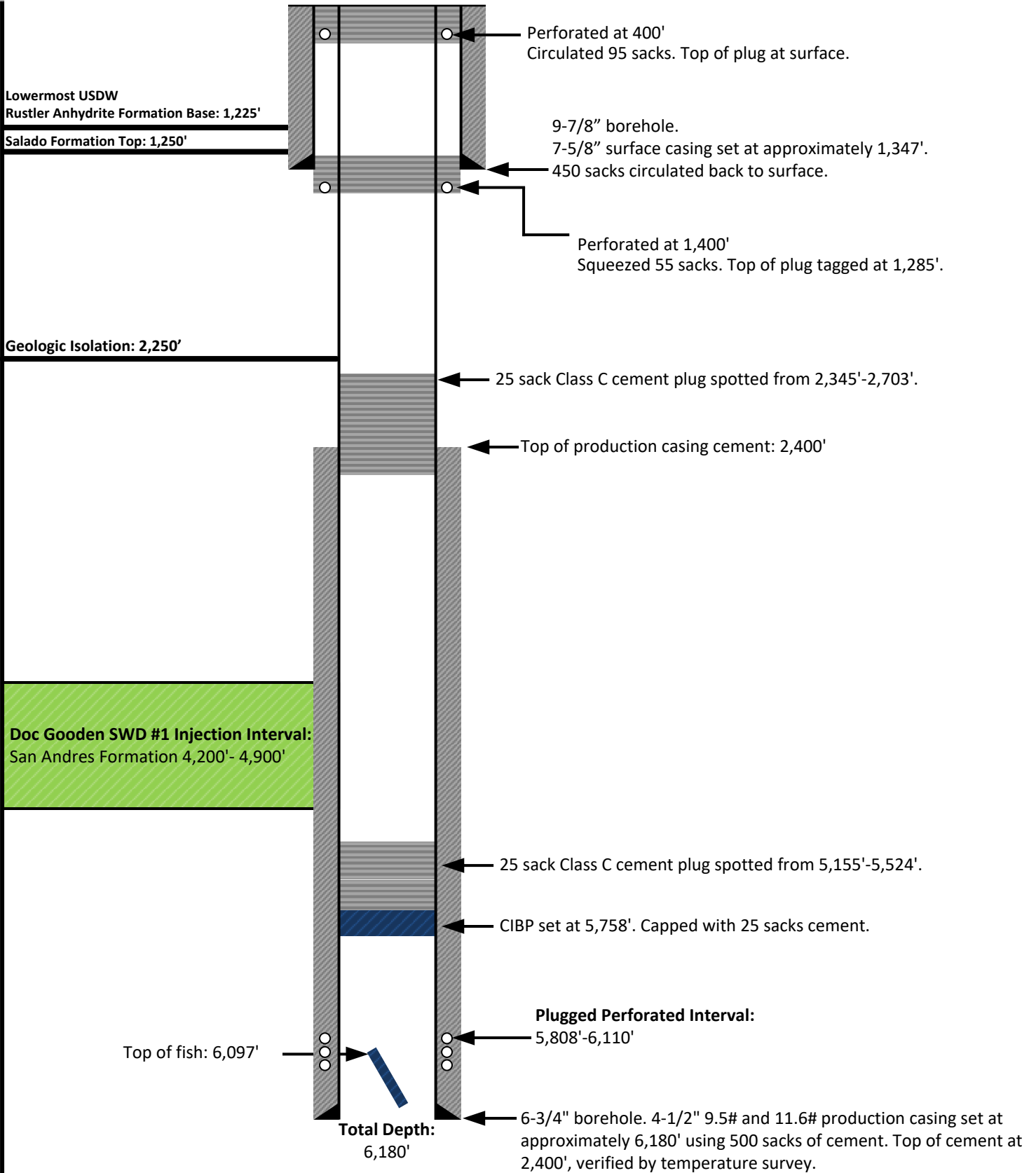

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A Akens #007  
Wellbore Diagram  
API: 30-025-20110  
Spud Date: 12/12/1969  
Plugged and Abandoned: 04/29/2008  
Operated By: Chesapeake Operating Inc.





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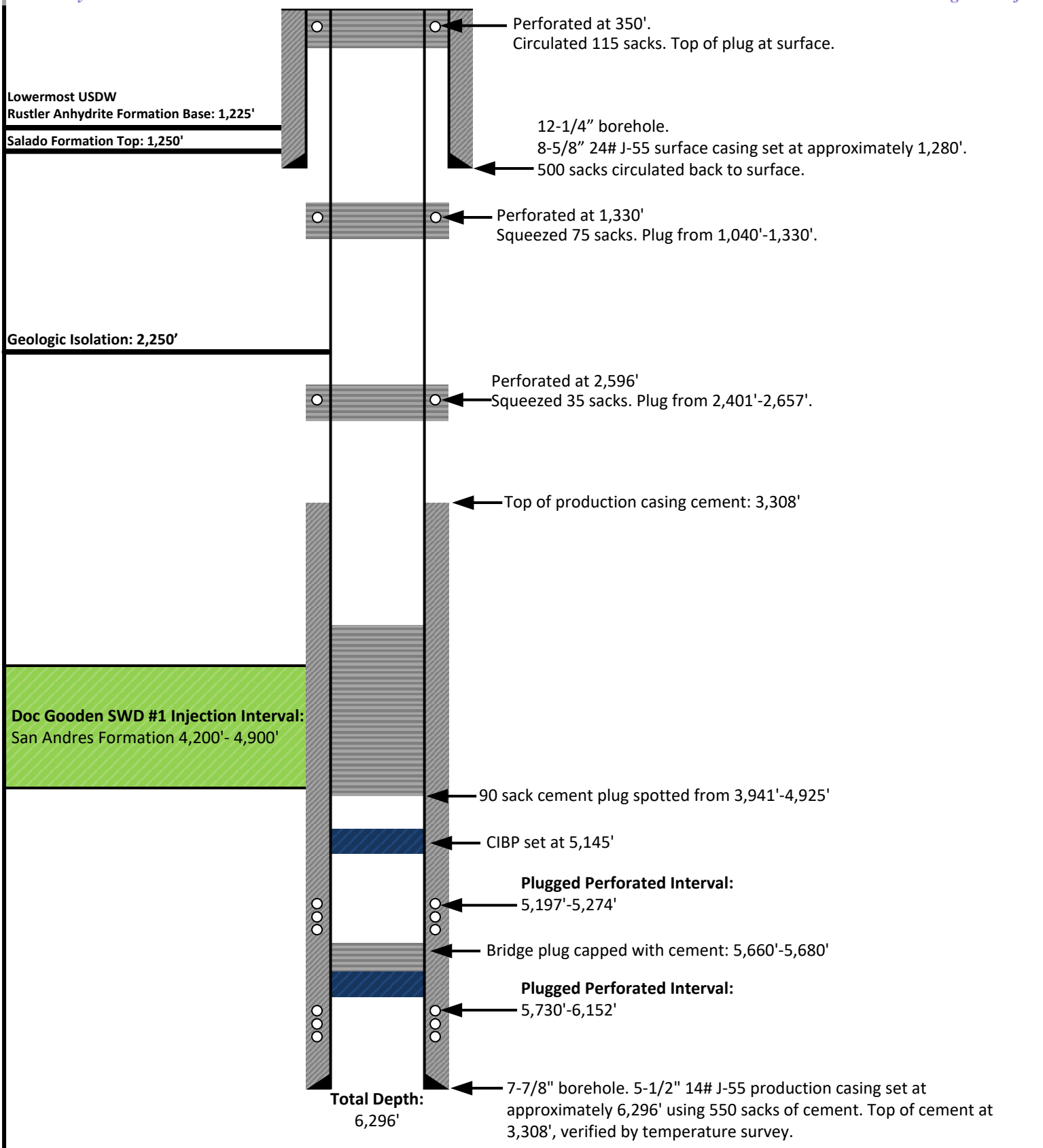
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

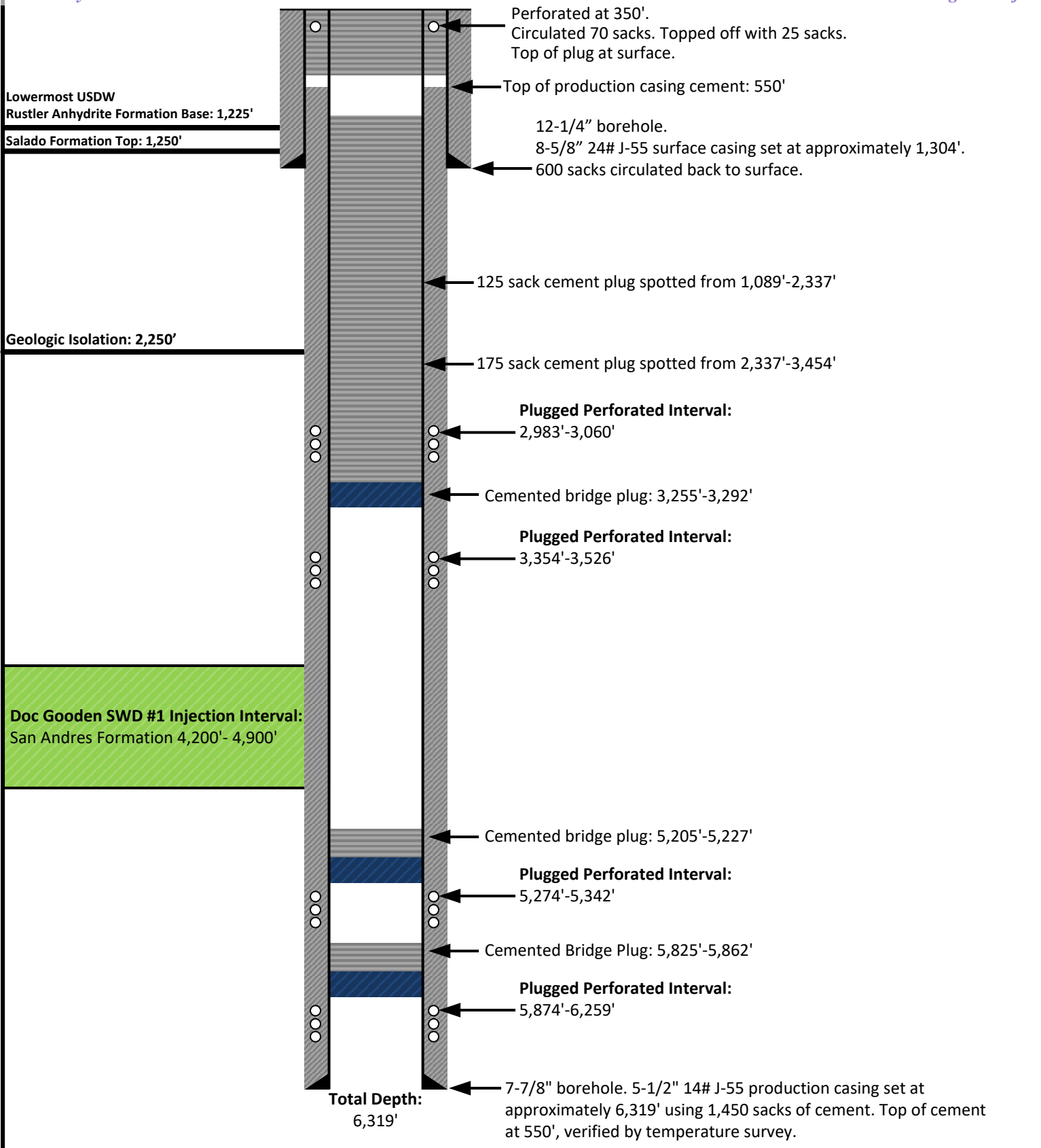
Date: 05/05/2023

BLINEBRY OIL COM NO 1 #001  
Wellbore Diagram  
API: 30-025-20262  
Spud Date: 07/26/1963  
Plugged and Abandoned: 07/17/2008  
Operated By: Exxon Mobil Corporation



Not to Scale

 Prepared for: 	Drawn by: Joshua Ticknor	USA J A AKENS #009 Wellbore Diagram API: 30-025-20362 Spud Date: 09/25/1963 Plugged and Abandoned: 06/13/2014 Operated By: Chevron USA Inc.
	Project Manager: Nathan Alleman	
	Date: 05/05/2023	



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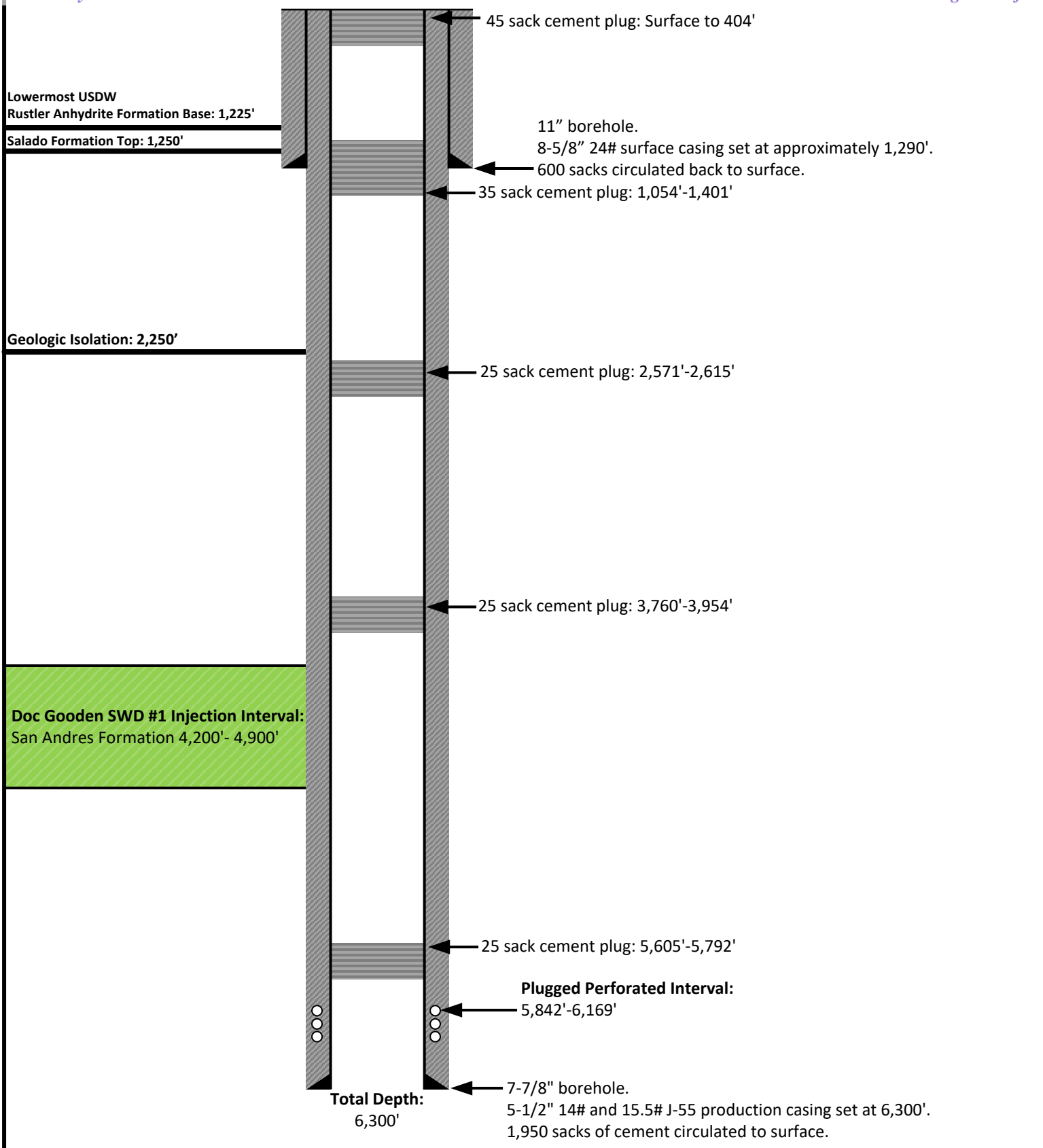
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor



Project Manager:  
Nathan Alleman

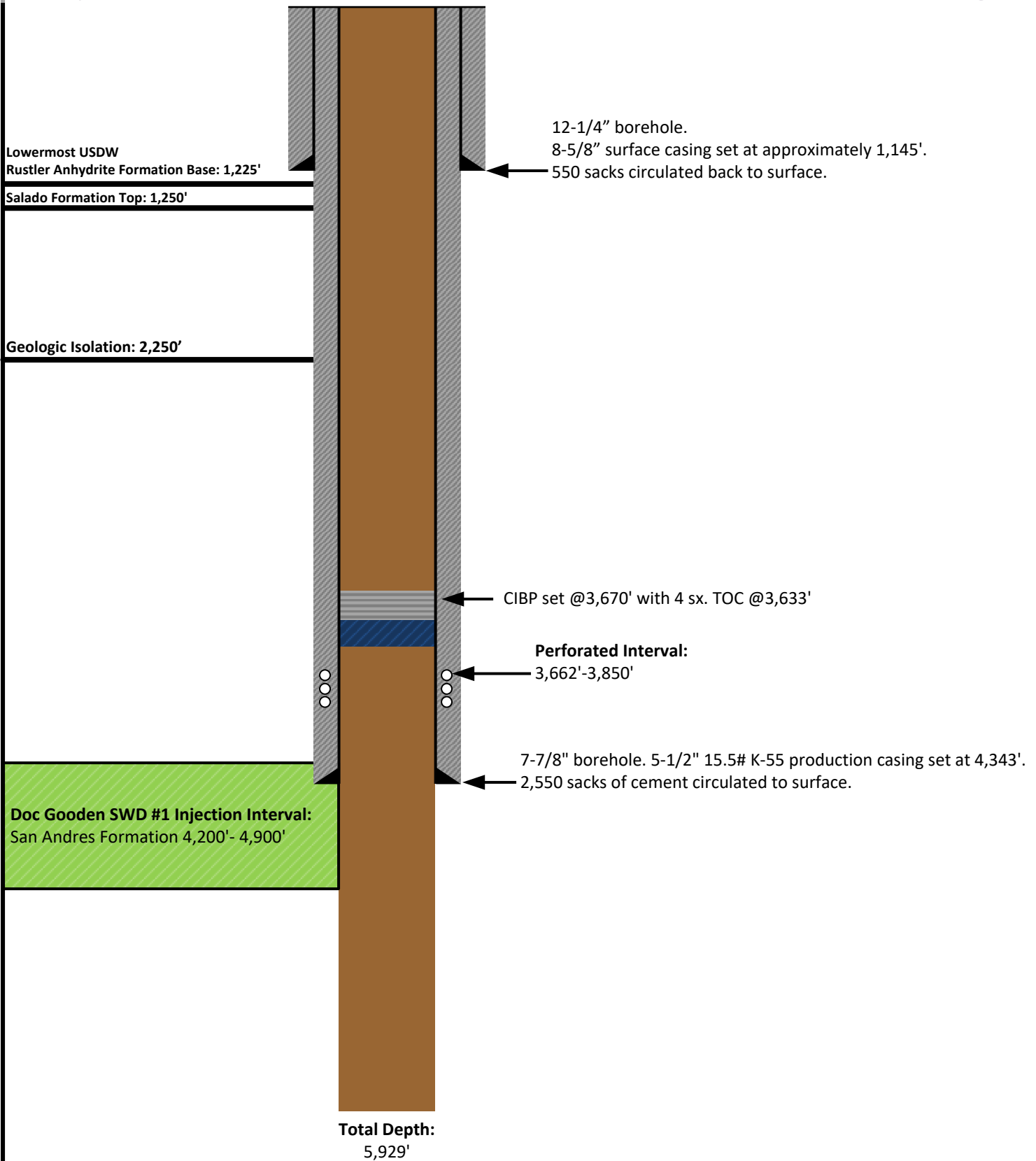
Date: 05/05/2023

J A AKENS #010  
Wellbore Diagram  
API: 30-025-26069  
Spud Date: 09/16/1978  
Plugged and Abandoned: 03/26/2014  
Operated By: Chevron USA Inc.



Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #011 Wellbore Diagram API: 30-025-26741 Spud Date: 05/29/1980 Plugged and Abandoned: 01/14/2010 Operated By: Chesapeake Operating, Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



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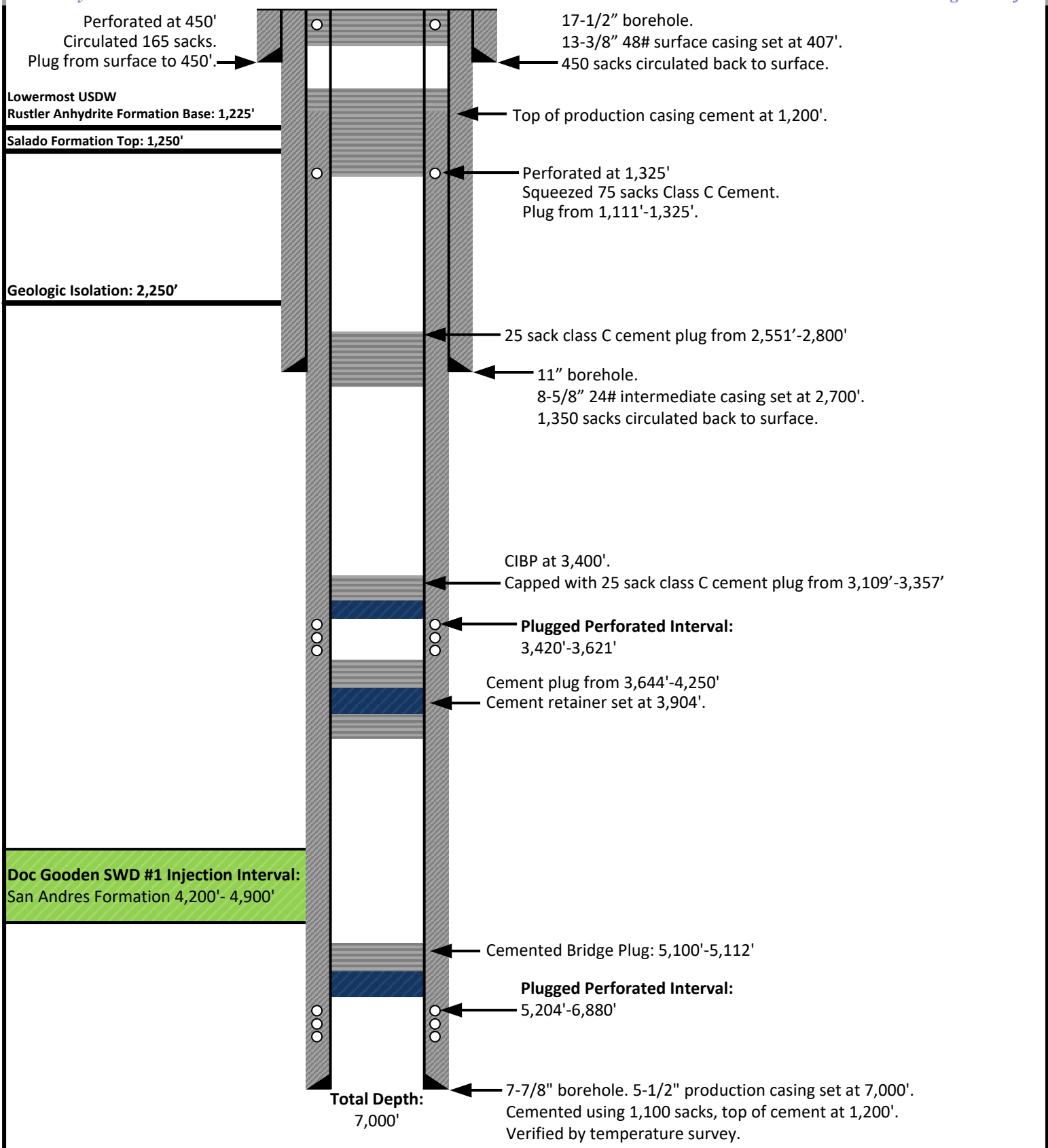
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J F JANDA NCT D #003  
 Wellbore Diagram  
 API: 30-025-28446  
 Spud Date: 11/15/1983  
 Temporarily Abandoned  
 Operated By: Empire New Mexico LLC



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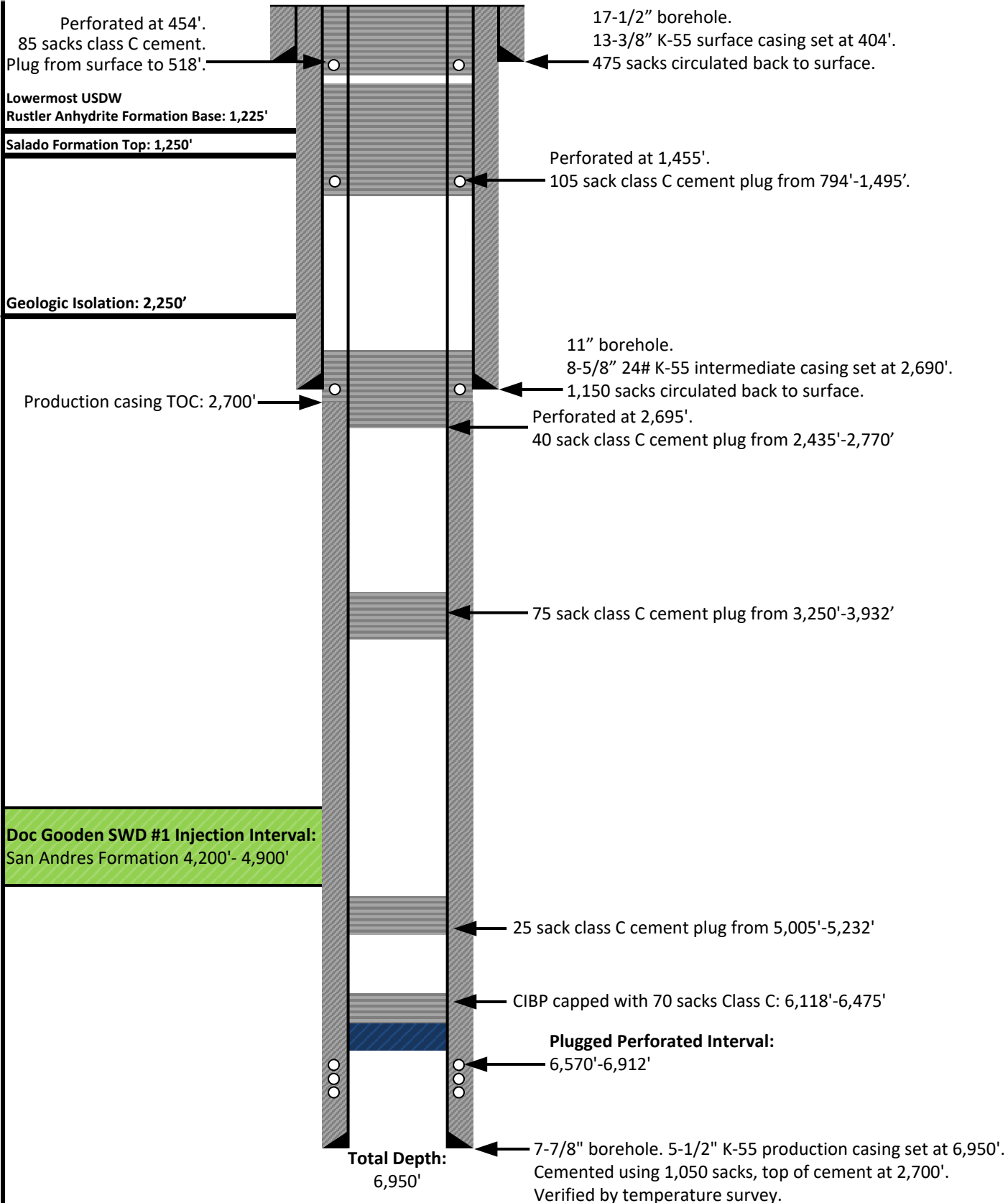
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

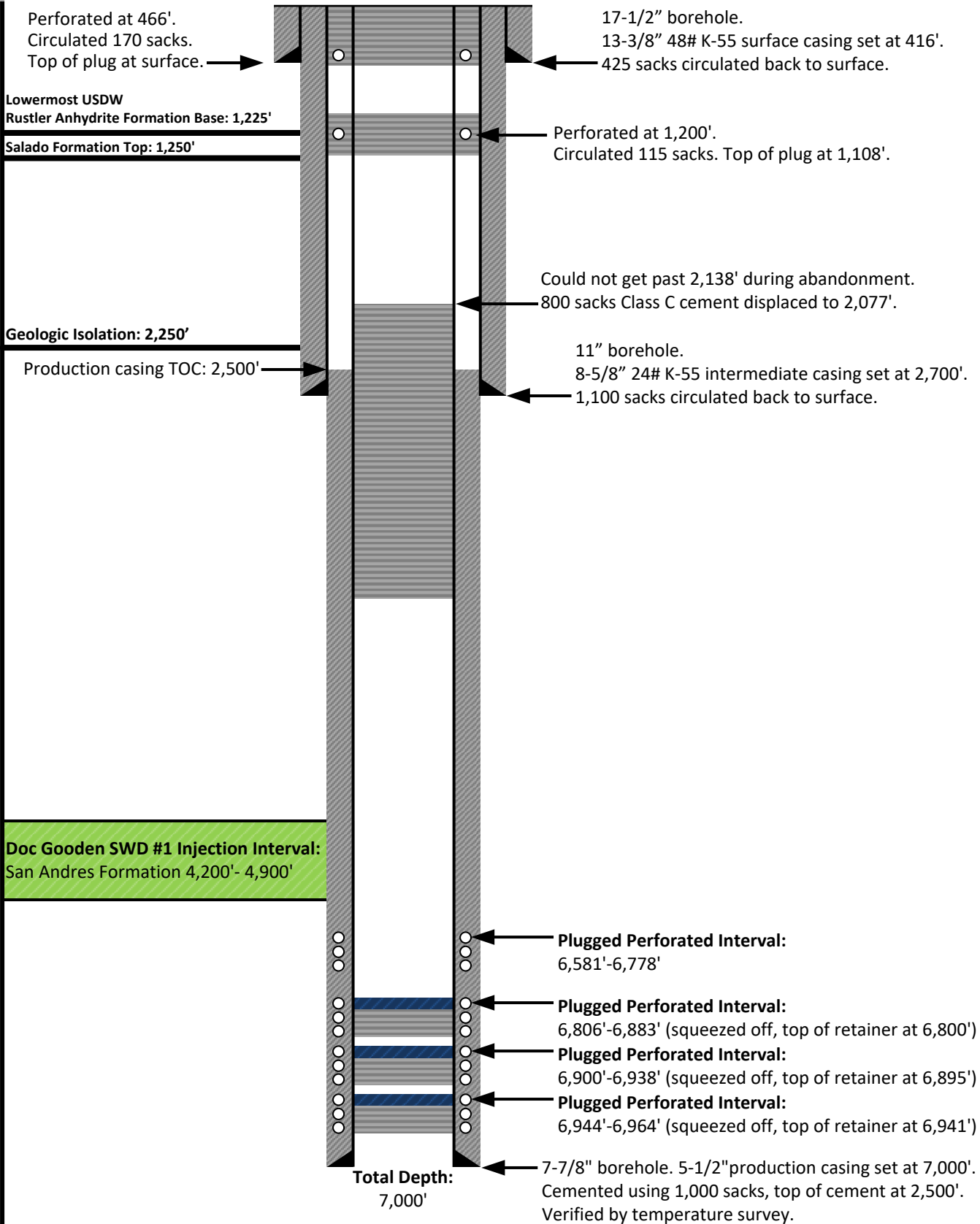
Date: 05/05/2023

USA J A AKENS #012  
Wellbore Diagram  
API: 30-025-29514  
Spud Date: 12/3/1985  
Plugged and Abandoned: 01/12/2016  
Operated By: Chevron USA Inc.





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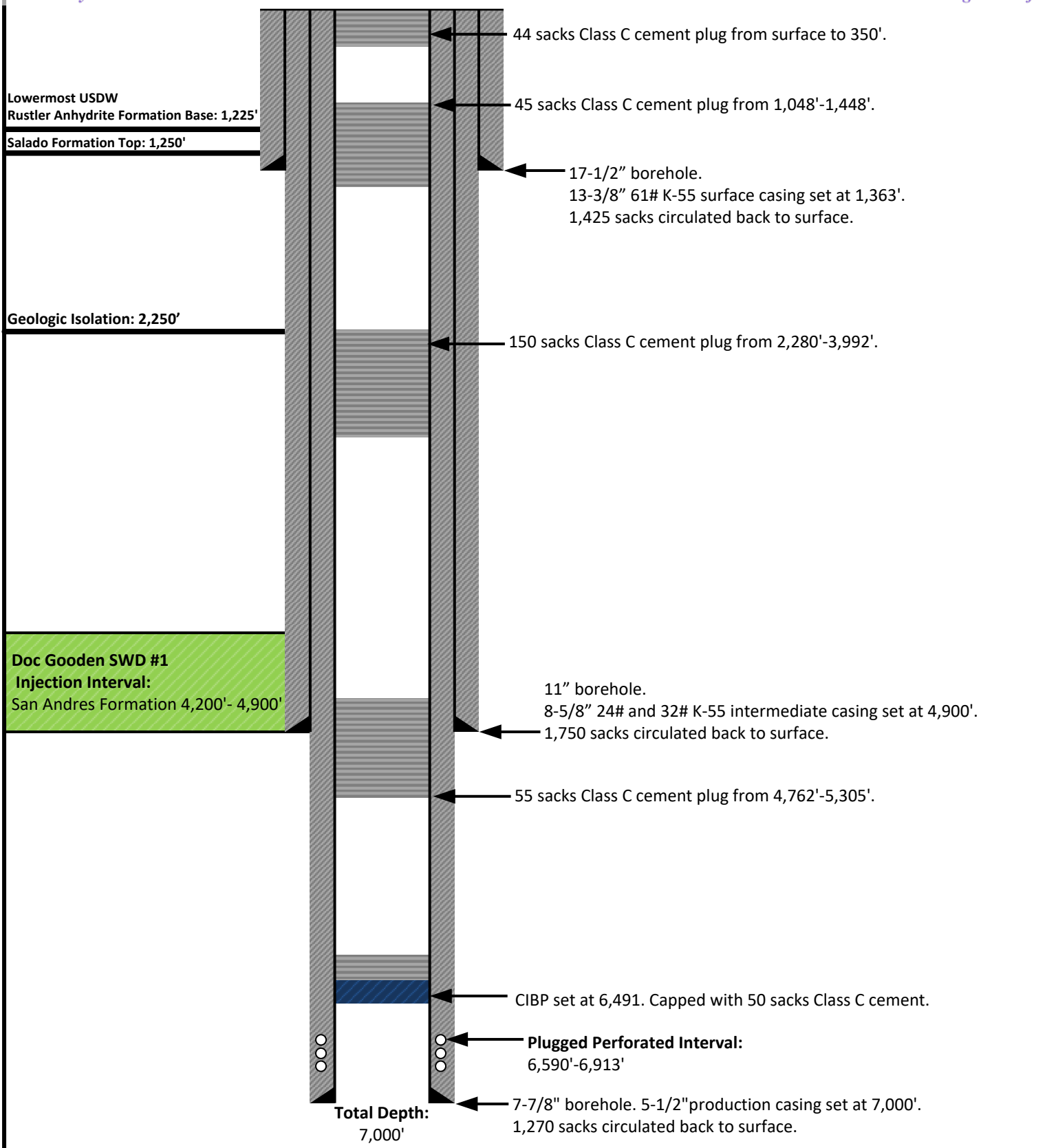
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	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



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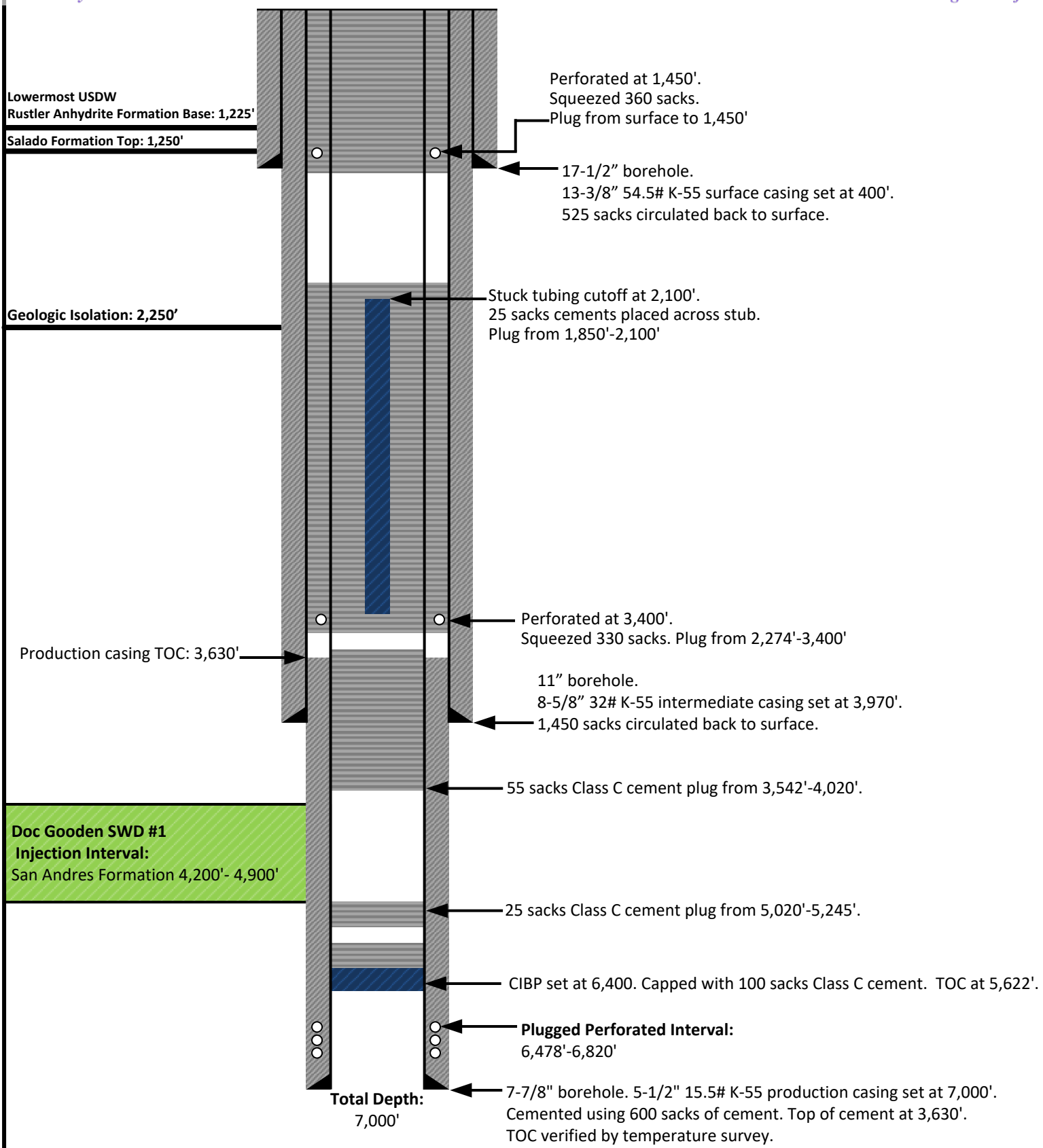
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	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	





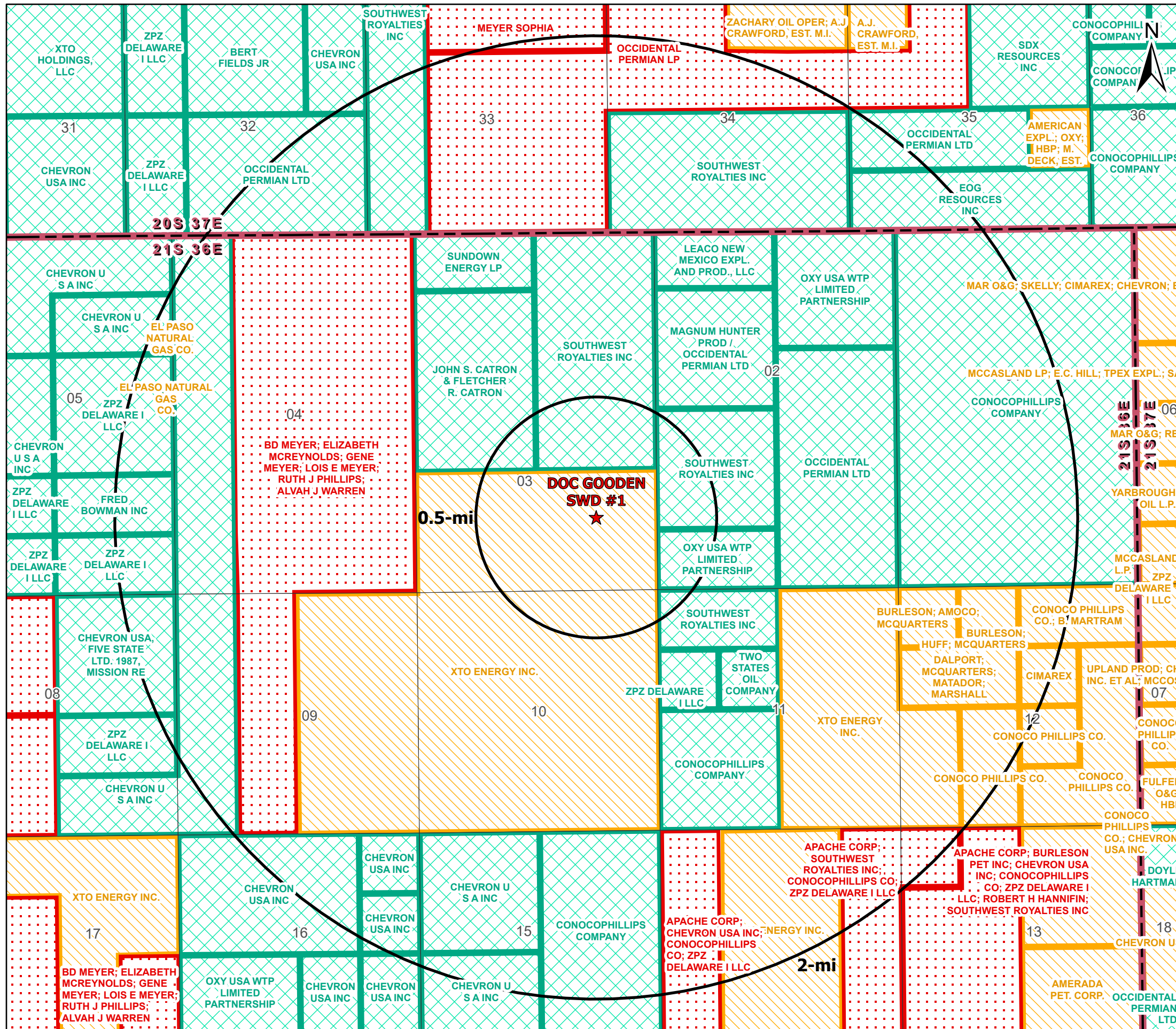
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<p>Prepared by:</p> <p>Prepared for:</p>	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #016 Wellbore Diagram API: 30-025-30099 Spud Date: 12/08/1987 Plugged and Abandoned: 08/02/2018 Operated By: Chevron USA Inc</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

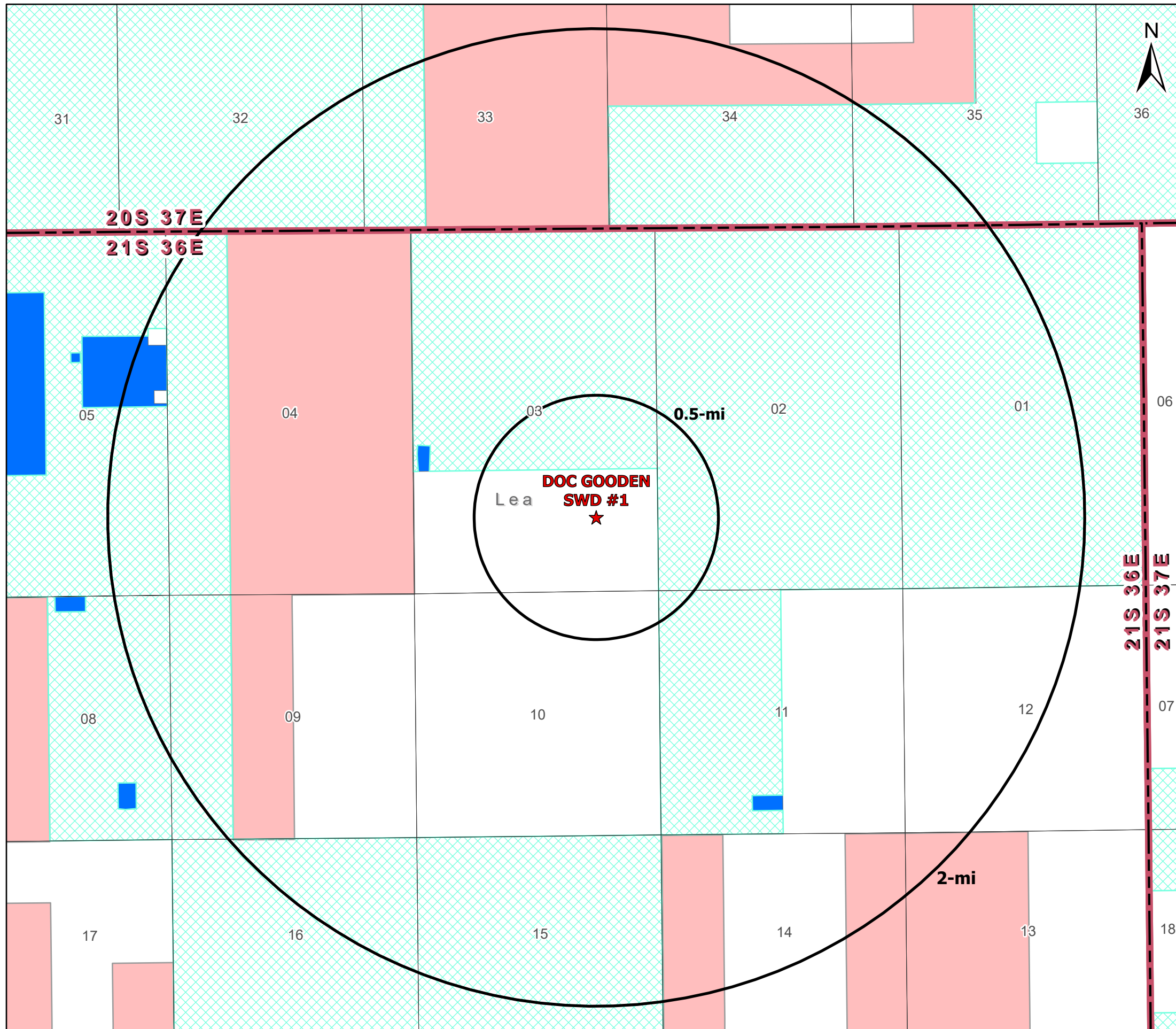
<p>Prepared by:</p> <p>Prepared for:</p>	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #019 Wellbore Diagram API: 30-025-30729 Spud Date: 11/27/1989 Plugged and Abandoned: 08/21/2018 Operated By: Chevron USA Inc</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



### Legend

- ★ Proposed SWD
- ▨ NMSLO Mineral Leases
- ▨ BLM Mineral Leases
- ▨ Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	



### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

## Mineral Ownership Area of Review

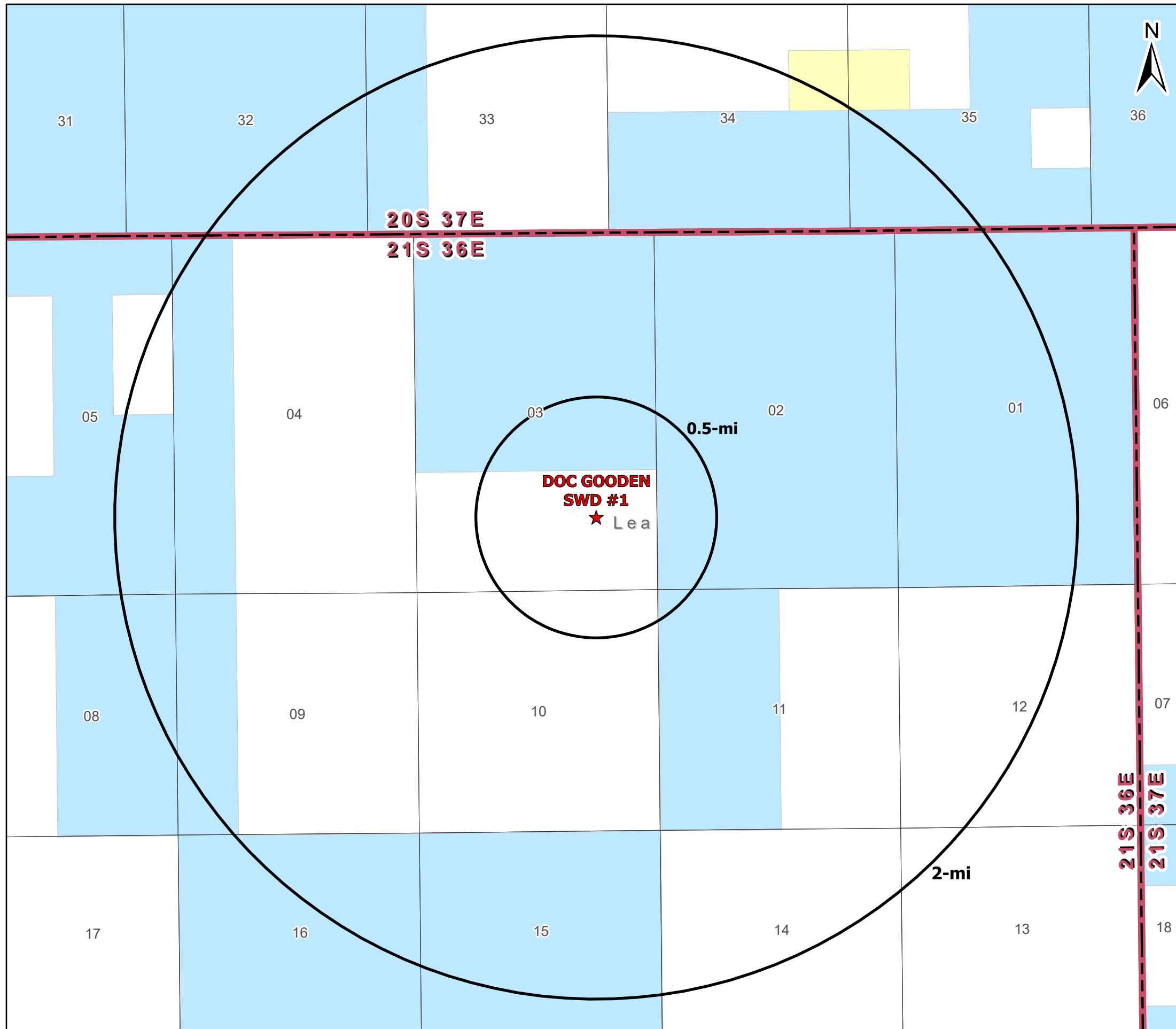
### DOC GOODEN SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

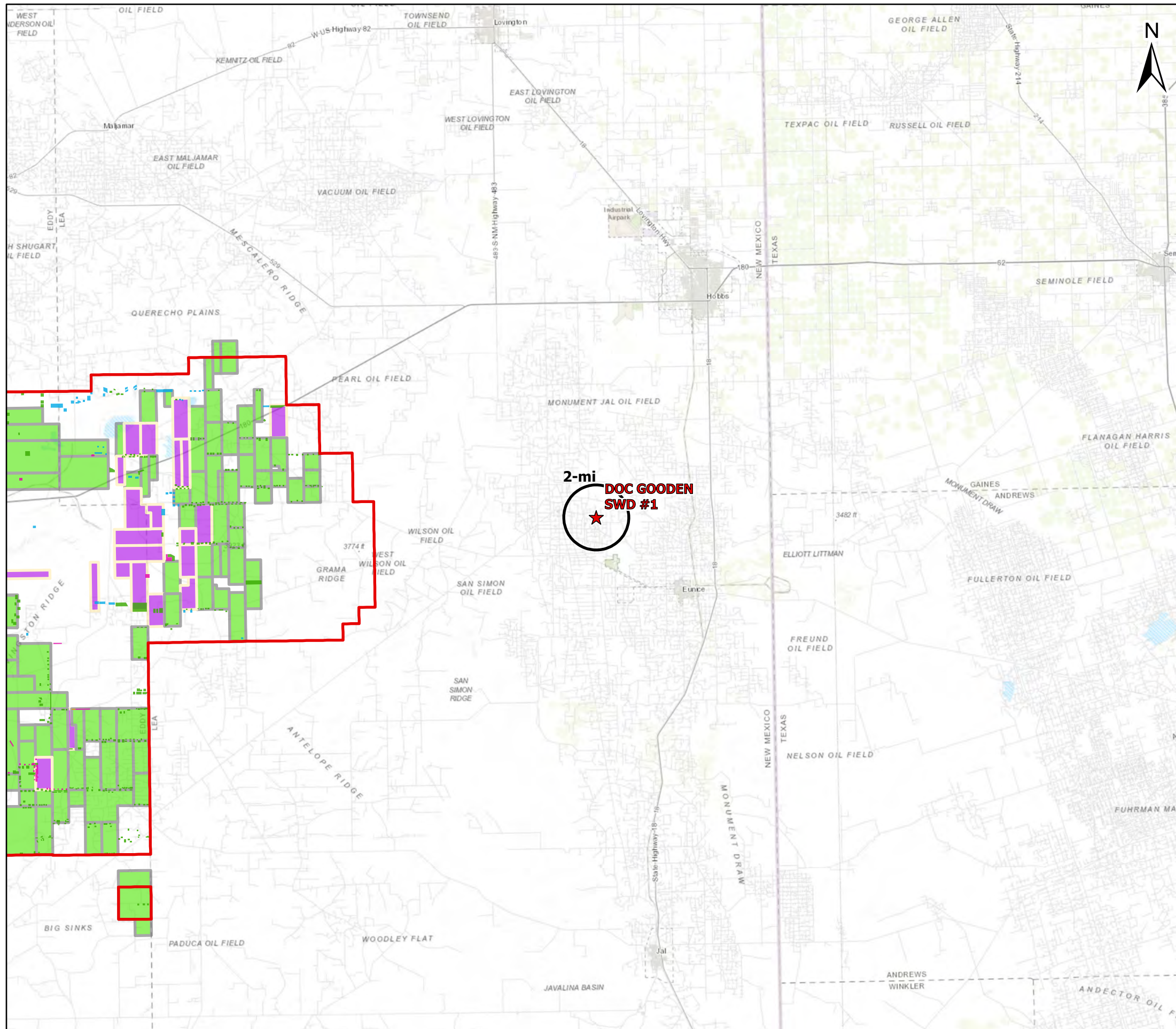




### Legend

- ★ Proposed SWD
- Surface Ownership
- BLM
  - Private
  - State

<b>Surface Ownership Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	



### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- #### Status, Depth Buffer
- Approved, Half Mile (283)
  - Approved, Quarter Mile (26)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- #### Status
- Approved (86)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049



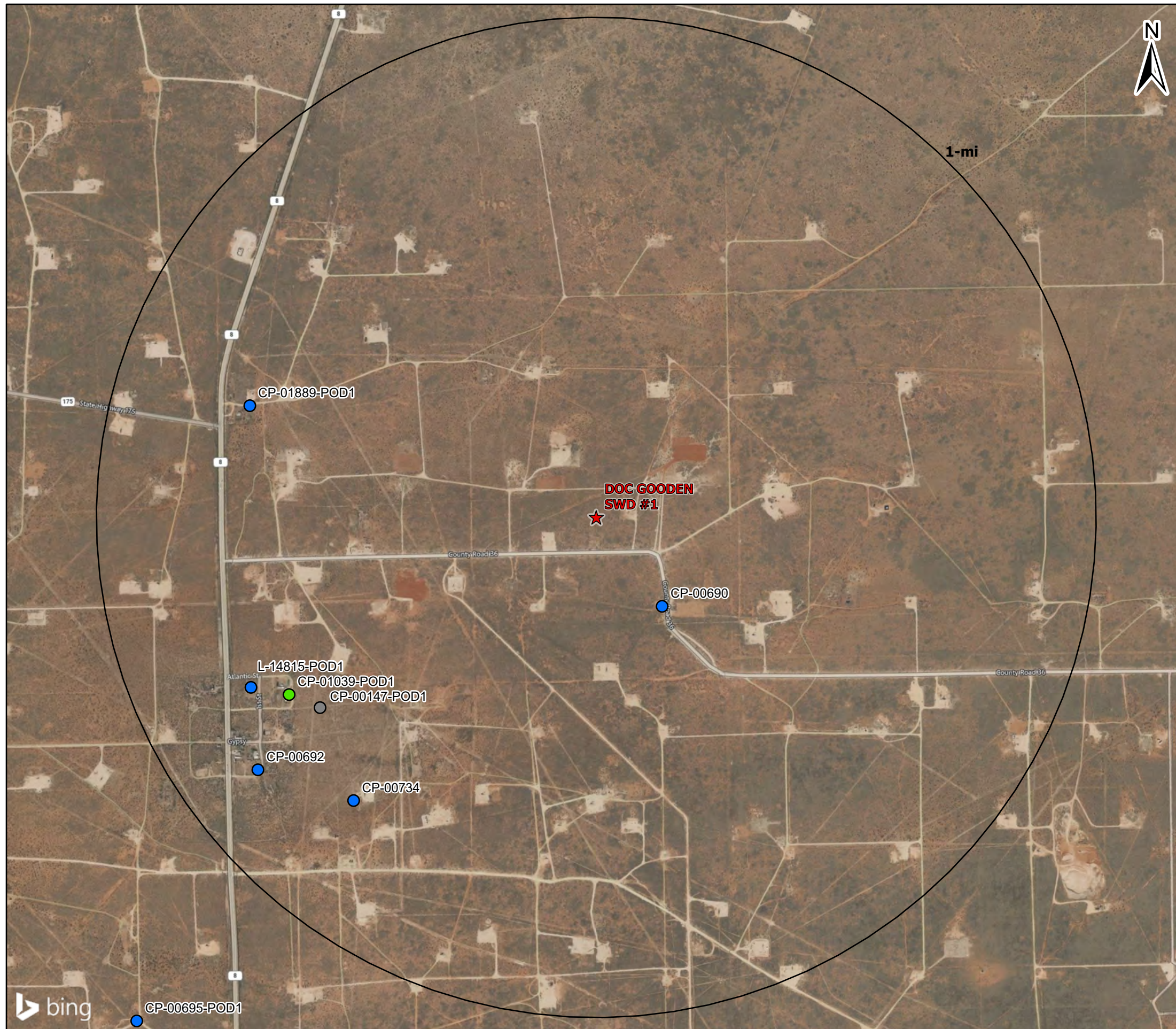
**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (6)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

### DOC GOODEN SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  


Prepared by:  


Water Well Sampling Rationale					
Goodnight Midstream Permian- Doc Gooden SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00147-POD1	HUMBLE OIL & REFINING COMPANY	P.O. BOX 2100, Hobbs, NM, 88240	Commercial	No	NMOSE records have no listed meter readings for this well. CP-00147 is not an active fresh water well.
CP-00690	SUN EXPL. & PROD.	P.O. BOX 692, Tatum, NM, 88267	Prospecting or Development of Natural Resources	No	NMOSE notes indicate this well was a dry hole.
CP-00692	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells have already been sampled.
CP-00695-POD1	CHEVRON USA INC	P.O. BOX 670, Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well.
CP-00734	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	NMOSE records state this is not an active water well.
CP-01039-POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	Sampled on 9/9/2021.
CP-01889-POD1	Mathew LUNA	P.O. Box 3032 Eunice, NM, 88231 Cell: 575-942-8473	Domestic	No	Communications with the water well owner, confirmed that this is not an active fresh water well
L-14815-POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 Cell phone: 14322696670.	Domestic	Yes	Sampled on 5/5/2023.
<b>Note:</b>					



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

September 17, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: JERAULD ANDERSON

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01039 POD 1	H212493-01	Water	09-Sep-21 10:30	09-Sep-21 11:12

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**CP - 01039 POD 1  
H212493-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	342		5.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Chloride*	1000		4.00	mg/L	1	1090801	GM	09-Sep-21	4500-Cl-B	
Conductivity*	5030		1.00	umhos/cm @ 25°C	1	1090914	GM	09-Sep-21	120.1	
pH*	7.21		0.100	pH Units	1	1090914	GM	09-Sep-21	150.1	
Temperature °C	19.9			pH Units	1	1090914	GM	09-Sep-21	150.1	
Resistivity	1.99			Ohms/m	1	1090914	GM	09-Sep-21	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	1090915	GM	09-Sep-21	SM 2710F	
Sulfate*	1220		250	mg/L	25	1090803	GM	10-Sep-21	375.4	
TDS*	3420		5.00	mg/L	1	1090811	GM	13-Sep-21	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
TSS*	3.00		2.00	mg/L	1	1091005	GM	14-Sep-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Calcium*	199		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Hardness as CaCO3	971		3.31	mg/L	5	[CALC]	AES	16-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Magnesium*	115		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Potassium*	29.1		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Sodium*	787		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Strontium*	5.72		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1090801 - General Prep - Wet Chem**

<b>Blank (1090801-BLK1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1090801-BS1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	104	4.00	mg/L	100		104	80-120			

<b>LCS Dup (1090801-BSD1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

**Batch 1090803 - General Prep - Wet Chem**

<b>Blank (1090803-BLK1)</b>		Prepared: 08-Sep-21 Analyzed: 10-Sep-21								
Sulfate	ND	10.0	mg/L							

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090803 - General Prep - Wet Chem**

**LCS (1090803-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	22.0	10.0	mg/L	20.0		110	80-120			
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**LCS Dup (1090803-BSD1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	13.4	20	
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**Batch 1090811 - Filtration**

**Blank (1090811-BLK1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	ND	5.00	mg/L							
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**LCS (1090811-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	275		mg/L	300		91.7	80-120			
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**Duplicate (1090811-DUP1)** Source: H212440-02 Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	661	5.00	mg/L		699			5.59	20	
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**Batch 1090914 - General Prep - Wet Chem**

**LCS (1090914-BS1)** Prepared & Analyzed: 09-Sep-21

pH	7.04		pH Units	7.00		101	90-110			
Conductivity	494		uS/cm	500		98.8	80-120			

**Duplicate (1090914-DUP1)** Source: H212493-01 Prepared & Analyzed: 09-Sep-21

pH	7.23	0.100	pH Units		7.21			0.277	20	
Conductivity	5060	1.00	umhos/cm @ 25°C		5030			0.595	20	
Resistivity	1.98		Ohms/m		1.99			0.595	20	
Temperature °C	20.0		pH Units		19.9			0.501	200	

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090915 - General Prep - Wet Chem**

<b>Duplicate (1090915-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared &amp; Analyzed: 09-Sep-21</b>							
Specific Gravity @ 60° F	1.012	0.000	[blank]		1.004			0.806	20	

**Batch 1091005 - Filtration**

<b>Blank (1091005-BLK1)</b>	<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>									
TSS	ND	2.00	mg/L							

<b>Duplicate (1091005-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>							
TSS	4.00	2.00	mg/L		3.00			28.6	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212168 - Total Rec. 200.7/200.8/200.2**

**Blank (B212168-BLK1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

**LCS (B212168-BS1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	9.98	0.100	mg/L	10.0		99.8	85-115			
Iron	1.95	0.050	mg/L	2.00		97.6	85-115			
Barium	0.983	0.050	mg/L	1.00		98.3	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.53	1.00	mg/L	1.62		94.6	85-115			
Calcium	1.95	0.100	mg/L	2.00		97.3	85-115			
Strontium	1.90	0.100	mg/L	2.00		95.1	85-115			

**LCS Dup (B212168-BSD1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Iron	1.95	0.050	mg/L	2.00		97.7	85-115	0.137	20	
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115	0.568	20	
Magnesium	9.96	0.100	mg/L	10.0		99.6	85-115	0.237	20	
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115	1.19	20	
Sodium	1.55	1.00	mg/L	1.62		95.5	85-115	0.984	20	
Strontium	1.93	0.100	mg/L	2.00		96.3	85-115	1.22	20	
Barium	0.944	0.050	mg/L	1.00		94.4	85-115	4.10	20	

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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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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: <u>Lab. Services</u> Project Manager: <u>Dustin Armstrong</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Terraud Anderson</u> Project Location: <u>32.50083, -103.259567</u> Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: <u>Cell Central</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H012493</u> Sample I.D. <u>CP-01039 Pod 1</u>		MATRIX (G)RAB OR (C)OMP. <u>GA</u> # CONTAINERS <u>1</u> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> OTHER: _____	
Date: <u>9-9-21</u> Time: <u>1112</u> Date: _____ Time: _____ Retinquished By: <u>[Signature]</u> Retinquished By: _____		Received By: <u>[Signature]</u> Received By: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) <u>5.8</u> Observed Temp. °C <u>5.8</u> Corrected Temp. °C _____ Sampler - UPS - Bus - Other: _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> CHECKED BY: <u>[Signature]</u> (Initials)		Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C _____	
REMARKS: _____ t Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com			



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May 12, 2023

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: DOC GOODEN WATER SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L - 14815-POD1	H232243-01	Water	05-May-23 11:50	05-May-23 12:20

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\*=Accredited Analyte

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**L - 14815-POD1  
H232243-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	259		5.00	mg/L	1	3050428	AC	08-May-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3050428	AC	08-May-23	310.1	
Chloride*	680		4.00	mg/L	1	3050143	AC	08-May-23	4500-Cl-B	
Conductivity*	4060		1.00	umhos/cm @ 25°C	1	3050807	AC	08-May-23	120.1	
pH*	7.47		0.100	pH Units	1	3050807	AC	08-May-23	150.1	
Temperature °C	16.7			pH Units	1	3050807	AC	08-May-23	150.1	
Resistivity	0.246			Ohms/m	1	3050807	AC	08-May-23	120.1	
Specific Gravity @ 60° F	1.000		0.000	[blank]	1	3051131	GM	11-May-23	SM 2710F	
Sulfate*	1070		250	mg/L	25	3050510	AC	05-May-23	375.4	
TDS*	2640		5.00	mg/L	1	3050222	AC	10-May-23	160.1	
Alkalinity, Total*	212		4.00	mg/L	1	3050428	AC	08-May-23	310.1	
TSS*	<2.00		2.00	mg/L	1	3050808	AC	09-May-23	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Calcium*	103		1.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Hardness as CaCO3	580		4.56	mg/L	5	[CALC]	AES	10-May-23	2340 B	
Iron*	<0.250		0.250	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Magnesium*	78.4		0.500	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Potassium*	22.6		5.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Sodium*	582		5.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Strontium*	4.06		0.500	mg/L	5	B231206	AES	10-May-23	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3050143 - General Prep - Wet Chem**

<b>Blank (3050143-BLK1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	ND	4.00	mg/L							
<b>LCS (3050143-BS1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	104	4.00	mg/L	100		104	80-120			
<b>LCS Dup (3050143-BSD1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	

**Batch 3050222 - Filtration**

<b>Blank (3050222-BLK1)</b>		Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	5.00	5.00	mg/L							
<b>LCS (3050222-BS1)</b>		Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	849		mg/L	1000		84.9	80-120			
<b>Duplicate (3050222-DUP1)</b>		Source: H232099-03 Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	1390	5.00	mg/L		1400			0.930	20	

**Batch 3050428 - General Prep - Wet Chem**

<b>Blank (3050428-BLK1)</b>		Prepared & Analyzed: 04-May-23								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3050428 - General Prep - Wet Chem**

**LCS (3050428-BS1)** Prepared & Analyzed: 04-May-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

**LCS Dup (3050428-BSD1)** Prepared & Analyzed: 04-May-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 3050510 - General Prep - Wet Chem**

**Blank (3050510-BLK1)** Prepared & Analyzed: 05-May-23

Sulfate	ND	10.0	mg/L							
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**LCS (3050510-BS1)** Prepared & Analyzed: 05-May-23

Sulfate	19.1	10.0	mg/L	20.0		95.6	80-120			
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**LCS Dup (3050510-BSD1)** Prepared & Analyzed: 05-May-23

Sulfate	22.3	10.0	mg/L	20.0		111	80-120	15.2	20	
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**Batch 3050807 - General Prep - Wet Chem**

**LCS (3050807-BS1)** Prepared & Analyzed: 08-May-23

pH	7.09		pH Units	7.00		101	90-110			
Conductivity	508		uS/cm	500		102	80-120			

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3050807 - General Prep - Wet Chem**

Duplicate (3050807-DUP1)	Source: H232243-01			Prepared & Analyzed: 08-May-23						
pH	7.54	0.100	pH Units		7.47			0.933	20	
Conductivity	4070	1.00	umhos/cm @ 25°C		4060			0.246	20	
Resistivity	0.246		Ohms/m		0.246			0.246	20	
Temperature °C	16.7		pH Units		16.7			0.00	200	

**Batch 3050808 - Filtration**

Blank (3050808-BLK1)	Prepared: 08-May-23 Analyzed: 09-May-23									
TSS	ND	2.00	mg/L							
Duplicate (3050808-DUP1)	Source: H232204-01			Prepared: 08-May-23 Analyzed: 09-May-23						
TSS	3060	2.00	mg/L		3830			22.4	52.7	

**Batch 3051131 - General Prep - Wet Chem**

Duplicate (3051131-DUP1)	Source: H232243-01			Prepared & Analyzed: 11-May-23						
Specific Gravity @ 60° F	1.008	0.000	[blank]		1.000			0.710	20	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
---	--	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

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

**Batch B231206 - Total Recoverable by ICP**

**Blank (B231206-BLK1) Prepared & Analyzed: 10-May-23**

Magnesium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Calcium	ND	0.200	mg/L							

**LCS (B231206-BS1) Prepared & Analyzed: 10-May-23**

Magnesium	9.99	0.100	mg/L	10.0		99.9	85-115			
Iron	1.93	0.050	mg/L	2.00		96.4	85-115			
Sodium	1.69	1.00	mg/L	1.62		105	85-115			
Strontium	1.98	0.100	mg/L	2.00		99.2	85-115			
Calcium	1.99	0.200	mg/L	2.00		99.6	85-115			
Potassium	3.95	1.00	mg/L	4.00		98.8	85-115			
Barium	0.957	0.050	mg/L	1.00		95.7	85-115			

**LCS Dup (B231206-BSD1) Prepared & Analyzed: 10-May-23**

Sodium	1.67	1.00	mg/L	1.62		103	85-115	1.47	20	
Potassium	3.90	1.00	mg/L	4.00		97.4	85-115	1.40	20	
Barium	0.937	0.050	mg/L	1.00		93.7	85-115	2.10	20	
Iron	1.89	0.050	mg/L	2.00		94.4	85-115	2.09	20	
Strontium	1.96	0.100	mg/L	2.00		98.0	85-115	1.18	20	
Calcium	1.95	0.200	mg/L	2.00		97.4	85-115	2.20	20	
Magnesium	9.81	0.100	mg/L	10.0		98.1	85-115	1.81	20	

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations



**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Doc Gooden SWD #1  
Located 7.1 miles northwest of Eunice, NM  
NW ¼ SE ¼, Section 3, Township 21S, Range 36E  
1,596 FSL & 1,334' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'–4,900')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# 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  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



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

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Doc Gooden SWD #1  
Located 7.1 miles northwest of Eunice, NM  
NW 1/4 SE 1/4, Section 3, Township 21S,  
Range 36E  
1,596 FSL & 1,334' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'- 4,900')  
EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
#00278368

67115320

00278368

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

<b>Doc Gooden SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
XTO Energy Inc.	500 W. Illinois, Suite 100	Midland	TX	79701
Southwest Royalties, Inc. (SOUTHWEST ROYALTIES INC.)	6 Desta Drive, Suite 2100	Midland	TX	79705
John S. Catron & Fletcher R. Catron	P.O. Box 788	Sante Fe	NM	87504
OXY USA WTP Limited Partnership	5 E. Greenway Plaza, Suite 110	Houston	TX	77046
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Diamond S Energy Company	6608 Bryant Irvin Rd.	Ft. Worth	TX	76132
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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6 DESTRA DRIVE SUITE 2100  
MIDLAND TX 79705-0000

Empire New Mexico LLC  
2200 S UTICA PL STE 150  
TULSA OK 74114-7015

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XTO Energy Inc  
500 W ILLINOIS AVE STE 100  
MIDLAND TX 79701-4337

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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New Mexico State Land Office  
310 OLD SANTA FE TRL  
SANTA FE NM 87501-2708

John S Catron & Fletcher R. Catron  
PO BOX 788  
SANTA FE NM 87504-0788

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Diamond S Energy Company  
6608 BRYANT IRVIN RD  
FT WORTH TX 76132-4217

Oxy USA WTP Limited Partnership  
5 GREENWAY PLZ STE 110  
HOUSTON TX 77046-0521

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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

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**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Doc Gooden SWD well permit

Lot P, Section 3, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date



## EXHIBIT A

# ALLCONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

---

May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hernandez SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hernandez SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-4  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: November 2, 2023  
Case Nos. 23614-23617

---

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

RECEIVED:	REVIEWER:	TYPE:	APP NO:
-----------	-----------	-------	---------

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: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<u>FOR OCD ONLY</u>	
<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.

\_\_\_\_\_  
 Print or Type Name

*Nathan Aleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. 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

Side 2

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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.

Application for Authorization to Inject  
Well Name: Hernandez SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hernandez SWD #1  
Location Footage Calls: 326 FSL & 793 FEL  
Legal Location: Unit Letter P, S10 T21S R36E  
Ground Elevation: 3,571'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,355'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,735')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other three wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,330 feet. Water well depths in the area range from approximately 147 - 220 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. One of the groundwater wells located within one mile has been sampled (CP-01696 POD 1 on 8/26/2021). The remaining three water wells were determined to not be active freshwater wells.

A water well map, details of water wells within 1-mile, and water sampling results for CP-01696 POD 1 are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement



**Attachment 1**

- C-102
- Wellbore Diagram

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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HERNANDEZ SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3571'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	21 S	36 E		326'	SOUTH	793'	EAST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

The diagram shows a grid of sections 03, 09, 10, 11, 15, and 16. A well location is marked with a red circle and labeled 'SURFACE LOCATION NEW MEXICO EAST NAD 1983'. Two '2" CAPPED IRON PIPE' locations are also marked with red circles and labeled with their respective coordinates. Two 'CALC. CORNER' points are also shown with their coordinates. Distances of 326' and 793' are indicated from the well location to the grid lines.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

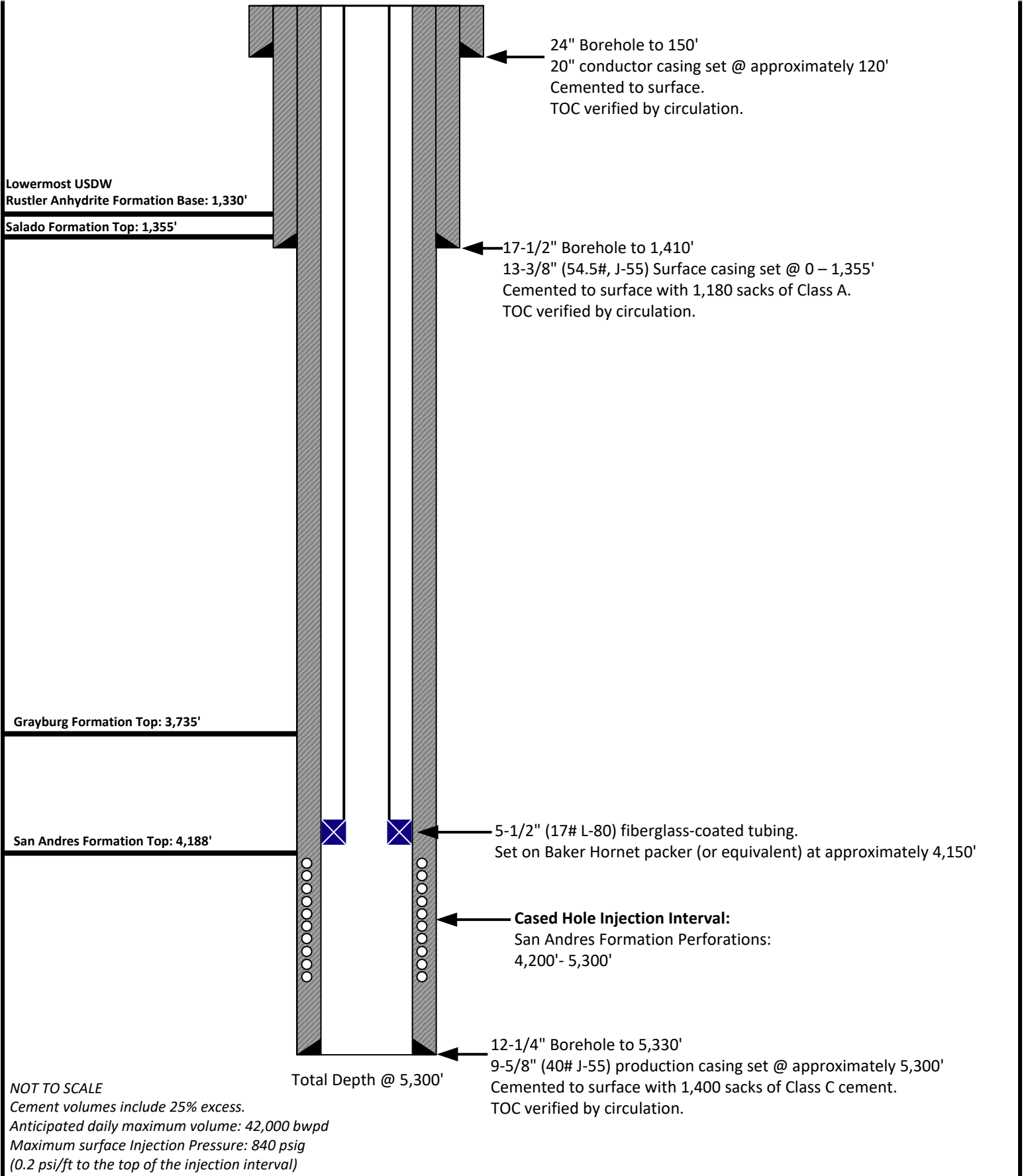
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**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey 04/28/2023

Signature and Seal of Professional Surveyor \_\_\_\_\_

Certificate Number  
21209  
TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor, P.E.  
Project Manager:  
Nathan Alleman  
Date: 4/11/2023

**Goodnight Midstream Permian, LLC**  
Proposed Wellbore Diagram  
Hernandez SWD #1  
326' FSL & 793' FEL  
Section 10 , Twp 21 S, Rng 36 E  
Lea County, New Mexico

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

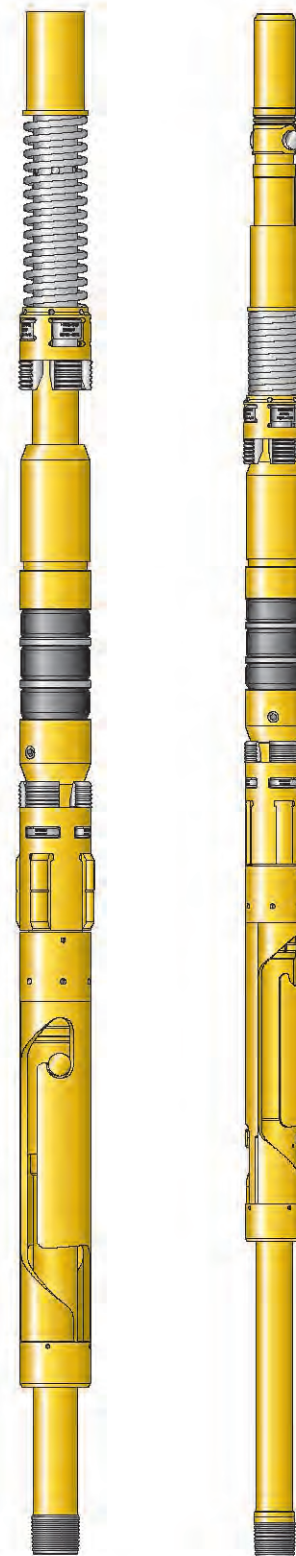
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



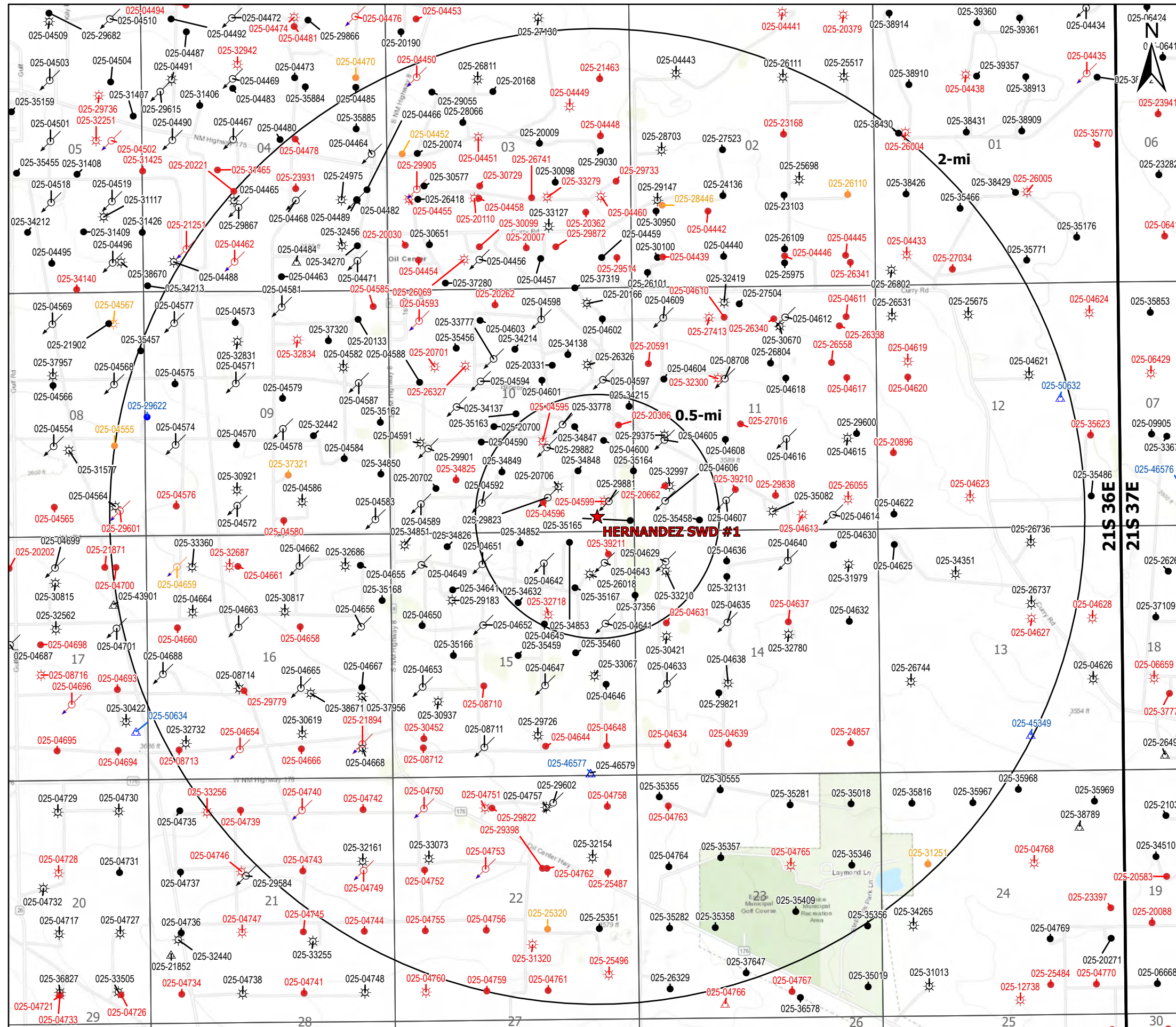
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☀ Gas, Active (84)
- ☀ Gas, Plugged (49)
- ☀ Gas, Temporarily Abandoned (1)
- ⊙ Injection, Active (72)
- ⊙ Injection, Plugged (16)
- ⊙ Injection, Temporarily Abandoned (1)
- Oil, Active (164)
- Oil, New (1)
- Oil, Plugged (107)
- Oil, Temporarily Abandoned (8)
- △ Salt Water Injection, Active (6)
- △ Salt Water Injection, New (6)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

### AOR Tabulation for Hernandez SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
STATE D #018	30-025-32718	Plugged	CONOCOPHILLIPS COMPANY	11/1/1994	G-15-21S-36E	(Plugged) 3,654	No
STATE D COM #019	30-025-32997	Gas	PENROC OIL CORP	7/5/1995	M-11-21S-36E	3,685	No
LOCKHART B #012	30-025-33210	Gas	PENROC OIL CORP	4/4/1996	D-14-21S-36E	3,700	No
STATE D COM #016	30-025-29375	Gas	PENROC OIL CORP	12/31/9999	L-11-21S-36E	3,750	No
STATE D #014	30-025-26018	Gas	PENROC OIL CORP	7/31/1978	A-15-21S-36E	3,800	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	(Plugged) 3,860	No
EUNICE MONUMENT SOUTH UNIT #358	30-025-04642	Injection	Empire New Mexico LLC	7/17/1936	B-15-21S-36E	3,865	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	(Plugged) 3,865	No
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
EUNICE MONUMENT SOUTH UNIT #357	30-025-04643	Injection	Empire New Mexico LLC	7/29/1936	A-15-21S-36E	3,875	No
EUNICE MONUMENT SOUTH UNIT #387	30-025-04645	Oil	Empire New Mexico LLC	11/1/1936	G-15-21S-36E	3,880	No
JOHN D KNOX #005	30-025-04599	Plugged	EXXON MOBIL CORPORATION	9/6/1936	P-10-21S-36E	(Plugged) 3,885	No
EUNICE MONUMENT SOUTH UNIT #315	30-025-04600	Oil	Empire New Mexico LLC	3/20/1981	I-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #699	30-025-34215	Oil	Empire New Mexico LLC	2/23/1998	H-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #739	30-025-35458	Oil	Empire New Mexico LLC	5/15/2001	N-11-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #737	30-025-34853	Oil	Empire New Mexico LLC	2/29/2000	B-15-21S-36E	3,914	No
EUNICE MONUMENT SOUTH UNIT #708	30-025-34848	Oil	Empire New Mexico LLC	2/19/2000	I-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #707	30-025-35164	Oil	Empire New Mexico LLC	10/27/2000	P-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #698	30-025-34847	Oil	Empire New Mexico LLC	4/1/2000	I-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #738	30-025-35165	Oil	Empire New Mexico LLC	11/4/2000	P-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #347	30-025-04606	Injection	Empire New Mexico LLC	9/10/1936	M-11-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #356	30-025-04629	Injection	Empire New Mexico LLC	8/21/1936	D-14-21S-36E	3,941	No
EUNICE MONUMENT SOUTH UNIT #747	30-025-35167	Oil	Empire New Mexico LLC	11/15/2000	A-15-21S-36E	3,946	No
EUNICE MONUMENT SOUTH UNIT #748	30-025-34632	Oil	Empire New Mexico LLC	7/2/1999	G-15-21S-36E	3,950	No
EUNICE MONUMENT SOUTH UNIT #388	30-025-04641	Injection	Empire New Mexico LLC	6/11/1934	H-15-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #346	30-025-29881	Injection	Empire New Mexico LLC	12/31/9999	P-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
EUNICE MONUMENT SOUTH UNIT #314	30-025-04605	Injection	Empire New Mexico LLC	8/2/1936	L-11-21S-36E	4,091	No
EUNICE MONUMENT SOUTH UNIT #746	30-025-37356	Oil	Empire New Mexico LLC	8/26/2005	H-15-21S-36E	5,455	Yes
STATE D BATTERY 2 #130	30-025-20662	Plugged	CONOCO INC	11/21/1990	M-11-21S-36E	(Plugged) 6,000	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
JOHN D KNOX #011	30-025-20306	Plugged	Empire New Mexico LLC	11/23/1963	I-10-21S-36E	(Plugged) 6,225	Yes
STATE D 15 #002	30-025-39211	Plugged	CONOCOPHILLIPS COMPANY	2/18/2009	A-15-21S-36E	(Plugged) 7,197	Yes

**Notes:**

### Casing Information for Wells Penetrating the Hernandez SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
EUNICE MONUMENT SOUTH UNIT #746	1274'	8.625"	Surface	Circulation	625	12.25"	5450'	5.5"	Surface	Circulation	990	7.875"
STATE D BATTERY 2 #130	1339'	7.625"	Surface	Circulation	375	11"	6000'	4.5"	2450'	Temp. Survey	370	6.75"
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	9.875"	6020'	4.5"	2500'	Temp. Survey	525	6.75"
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	12.25"	6400'	5.5"	Surface	Circulation	1200	7.875"
JOHN D KNOX #011	1318'	7.625"	Surface	Circulation	575	11"	6214'	4.5"	2400'	Temp. Survey	500	6.75"
STATE D 15 #002	1380'	8.625"	Surface	Circulation	640	12.25"	7187'	5.5"	Surface	Circulation	1485	7.875"

Well Name	Plugging Information
EUNICE MONUMENT SOUTH UNIT #746	-
STATE D BATTERY 2 #130	CIBP set at 5800' and spot 7 sacks cement on top. Perforated at 1470' and pumped 270 sacks cement to surface.
JOHN D KNOX #012	-
JOHN D KNOX #014	-
JOHN D KNOX #011	CIBP set at 5,745' with 2.5 sack cement on top. Cement plugs set at 5,288'-5,723' with 30 sks, 2510' - 2940' with 25 sks, Cement plugged squeezed at 948' - 1368' with 50 sks, cement plug set from the surface to 300'.
STATE D 15 #002	CIBP set at 6,849' and 25 sack cement placed on top. Set second CIBP at 5,648' and placed 25 sack cement on top. 50 sack Cement plug set at 3721' - 4020', 25 sack plugs set at 2471' - 2478', and 1,226'- 1,481'. Spot 45 sks cement from Surface - 413'.



Lowermost USDW  
Rustler Anhydrite Formation Base: 1,225'

Salado Formation Top: 1,250'

7-5/8" 24# surface casing set at approximately 1,339'.

375 sacks cement circulated to surface.

270 sack cement plug squeezed at 1,470' . Top of plug at surface.

Geologic Isolation: 2,250'

Production casing top of cement 2,450'

**Hernandez SWD #1 Injection Interval:**  
San Andres Formation 4,200'- 5,300'

CIBP with cement placed on top:  
5,694'-5,800'

**Squeezed Perforated Interval:**

5,825'-5,960'

**Plugged Perforated Interval:**

5,889'-5,956'

4-1/2" 9.5# & 11.6# production casing set at approximately 6,000' using 370 sacks cement. Top of cement at 2,450' by temp survey.

**Total Depth:**  
6,000'

Not to Scale

Prepared by:



Prepared for:

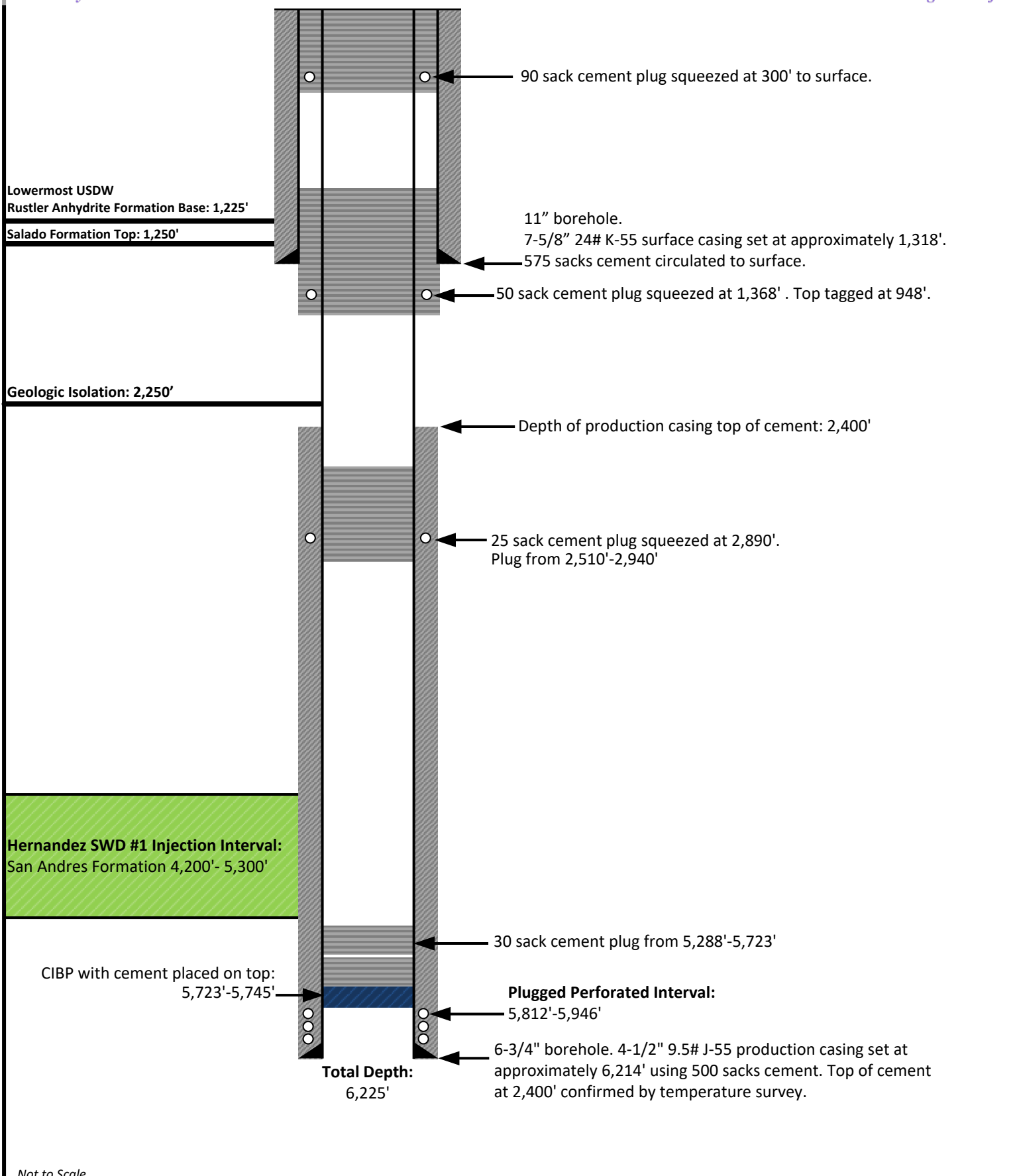


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

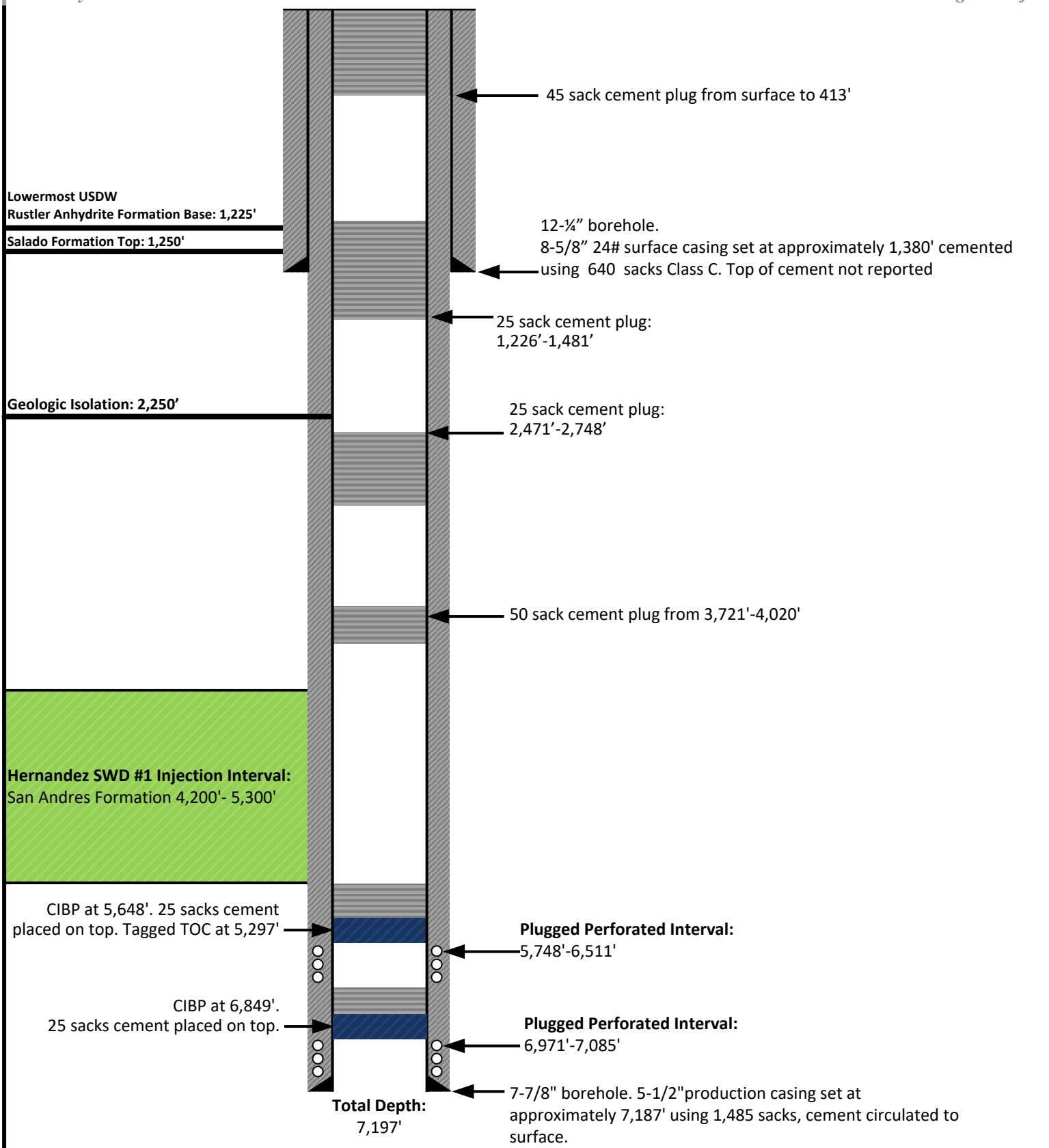
Date: 05/05/2023

State D Battery 2 #130  
Wellbore Diagram  
API: 30-025-20662  
Spud Date: 8/28/1964  
Plugged and Abandoned: 11/21/1990  
Operated By: Conoco Inc.





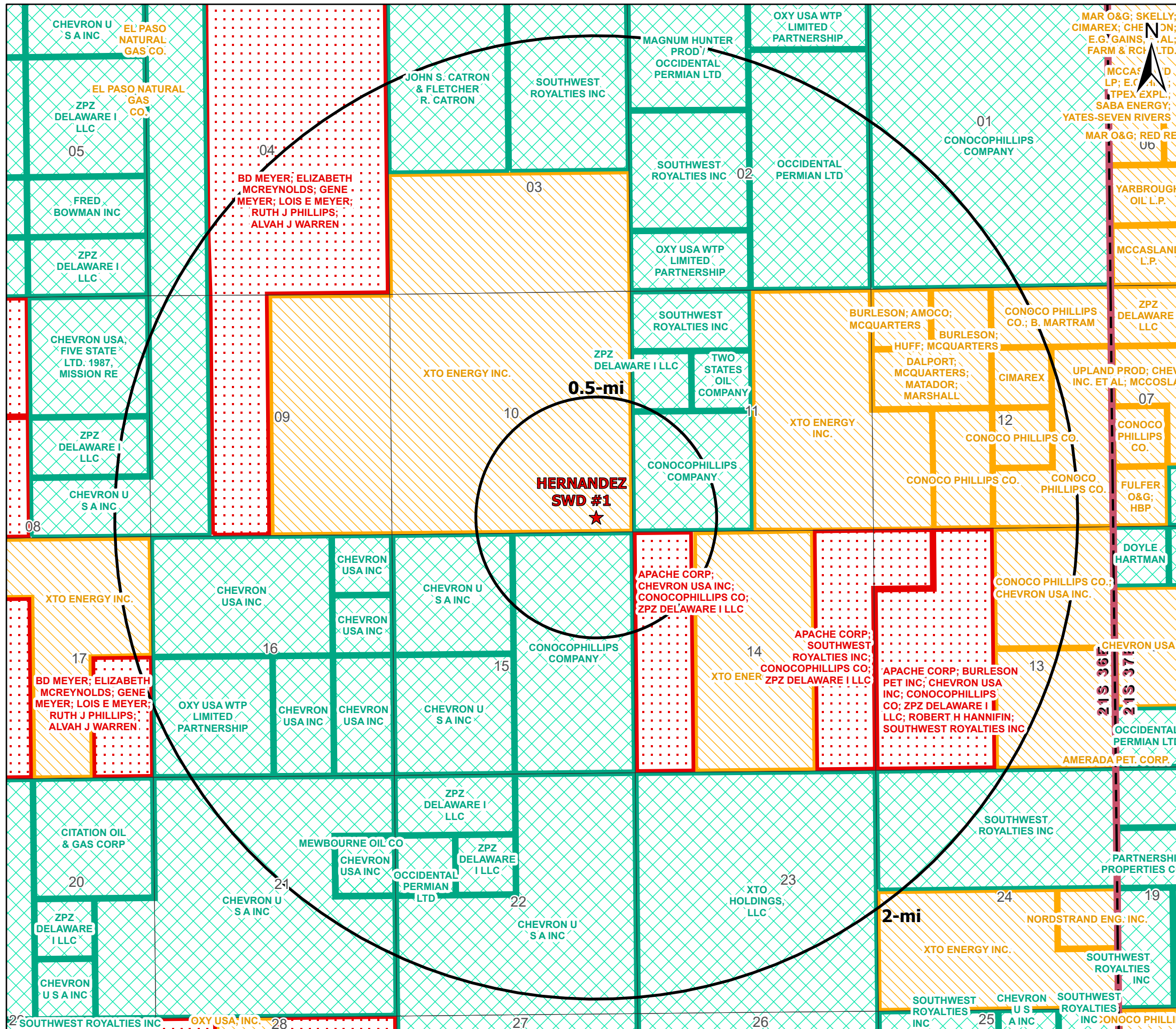
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 Prepared for: 	Drawn by: Joshua Ticknor	John D Knox #11 Wellbore Diagram API: 30-025-20306 Plugged and Abandoned: 03/11/2020 Operated By: XTO Energy Inc.
	Project Manager: Nathan Alleman	
	Date: 05/05/2023	



Not to Scale

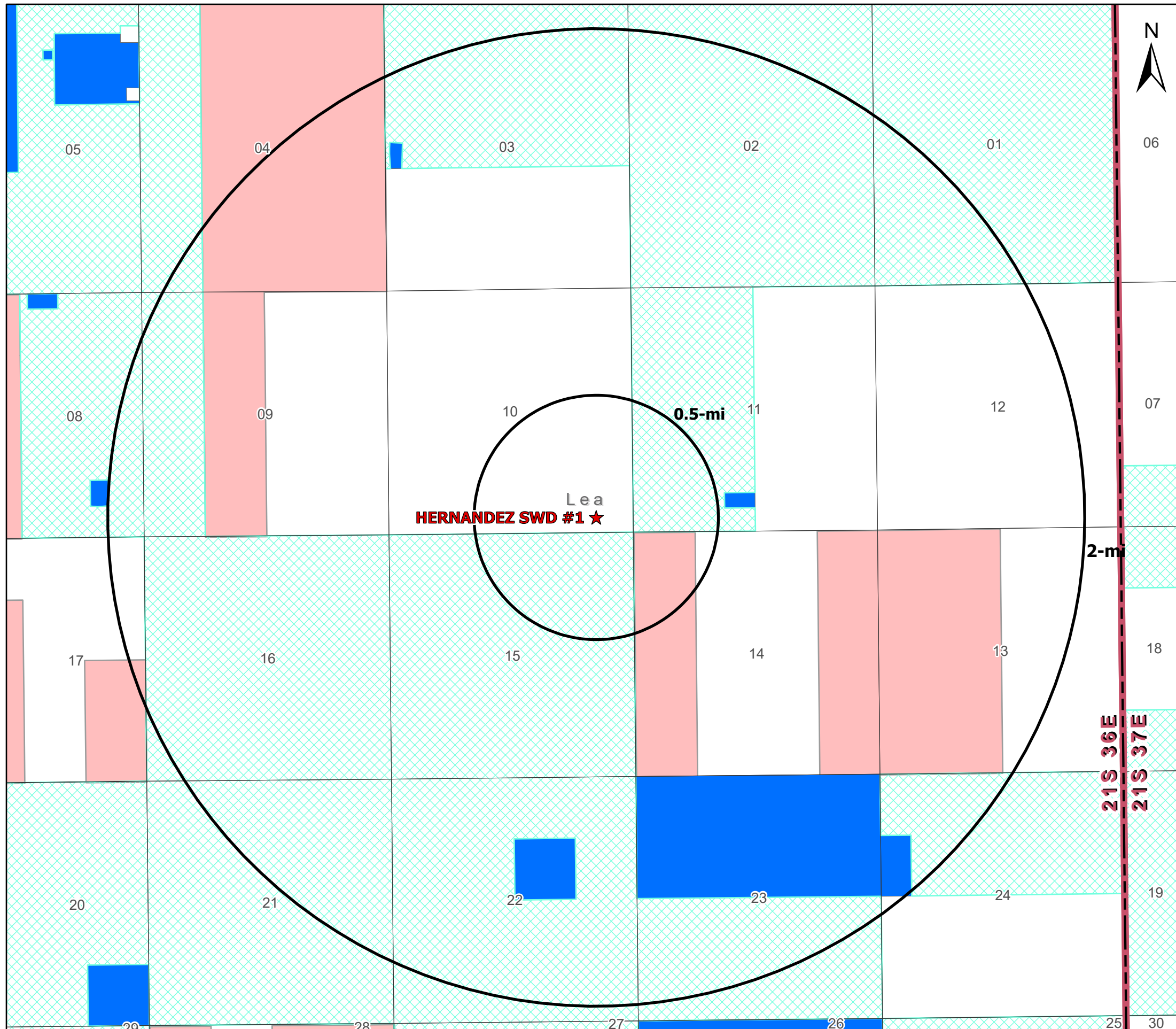
<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>State D-15 Wellbore Diagram API: 30-025-39211 Spud Date: 02/18/2009 Plugged and Abandoned: 05/9/2012 Operated By: Conoco Phillips Company</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	



### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

## Mineral Ownership Area of Review

### HERNANDEZ SWD #1 LEA COUNTY, NEW MEXICO

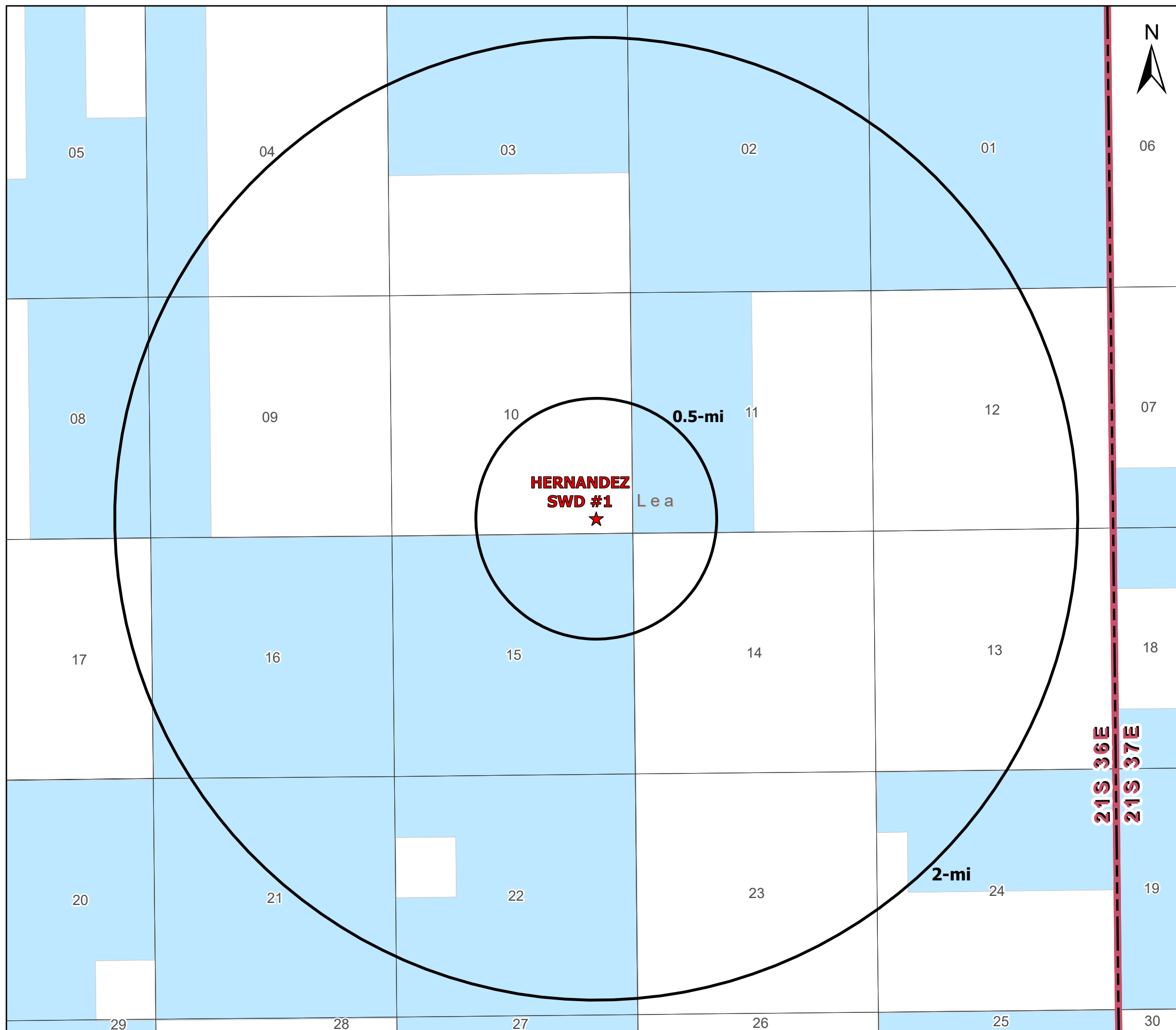
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



**Legend**

★ Proposed SWD

**Surface Ownership**

□ Private

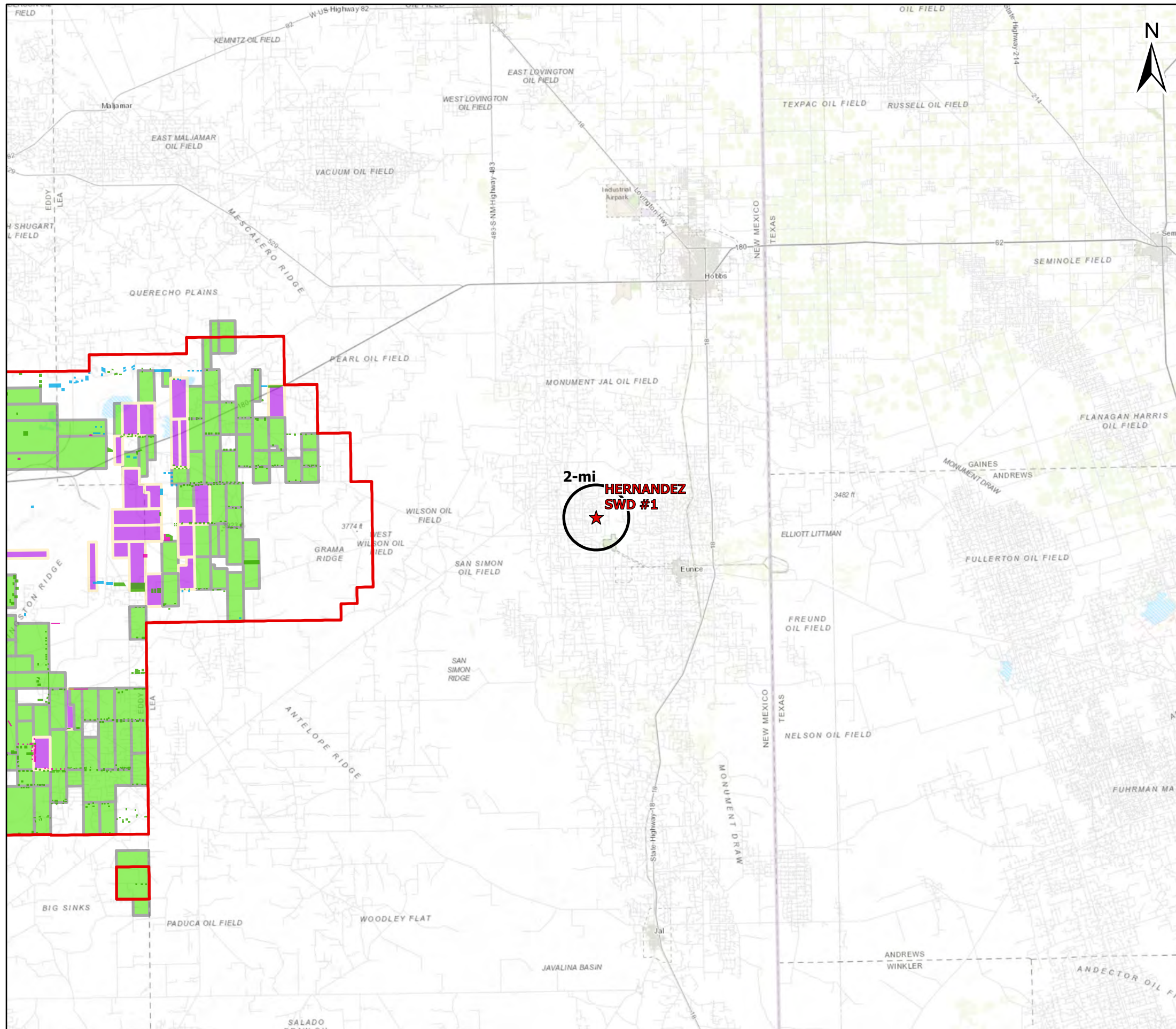
■ State

**Surface Ownership  
Area of Review**

**HERNANDEZ SWD #1  
LEA COUNTY, NEW MEXICO**

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
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Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALL</b> CONSULTING
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### Legend

- ★ Proposed SWD (1)
- SOPA 1986 (2)
- Drill Islands**
- Status, Depth Buffer**
- Approved, Half Mile (283)
- Approved, Quarter Mile (26)
- Nominated, Half Mile (46)
- Nominated, Quarter Mile (1)
- Development Areas**
- Status**
- Approved (86)
- Pending (24)
- Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses



Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### HERNANDEZ SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Water Well Sampling Rationale					
Goodnight Midstream Permian- Hernandez SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00734	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	New Mexico Office of the State Engineer record confirm this well is not an active fresh water well.
CP-00685	DASCO LAND CORPORATION	P.O. BOX 2545 Hobbs, NM, 88241	Oil Production	No	Not a freshwater well
CP-00279	CONTINENTAL OIL COMPANY	P.O. BOX 460 Hobbs, NM, 88241	Industrial	No	Well currently T.A.
CP-01696	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
<b>Note:</b>					



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

September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

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

**Batch 1083009 - Filtration**

**Blank (1083009-BLK1)** Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	ND	2.00	mg/L							
-----	----	------	------	--	--	--	--	--	--	--

**Duplicate (1083009-DUP1)** Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	2.00	2.00	mg/L		2.00			0.00	52.7	
-----	------	------	------	--	------	--	--	------	------	--

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

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

**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	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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*Celey D. Keene*

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: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Project #: _____ Project Owner: _____ Project Location: <b>Wilburta Travis</b> City: _____ State: _____ Zip: _____ Sampler Name: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>	(G)RAB OR (C)OMP. <b>GA</b> # CONTAINERS <b>1</b> MATRIX GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	PRESERV _____ DATE <b>2+5-8-26</b> TIME <b>2:15</b>	SAMPLING Cation/Anions Ba, Fe, Sr Resistivity Total Hardness TSS
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: <i>[Signature]</i> Date: <b>8-26-21</b> Time: <b>3:15</b>	Received By: <i>[Signature]</i> Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <b>5.9</b> Corrected Temp. °C _____	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <b>TP</b>	Turnaround Time: <b>Standard</b> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	CHECKED BY: _____ Initials: _____

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

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations



**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE ¼ SE ¼, Section 10, Township 21S, Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

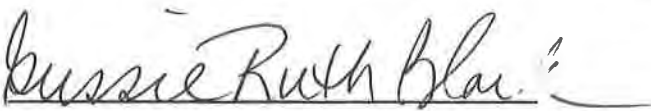
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



Business Manager

My commission expires  
January 29, 2027

(Seal)  
**STATE OF NEW MEXICO  
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**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE 1/4 SE 1/4, Section 10, Township 21S,  
Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200' - 5,300')  
EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278370**

67115320

00278370

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

<b>Hernandez SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
Apache Corporation (APACHE CORP)	2000 Post Oak Blvd., Suite 150	Houston	TX	77056
Bureau of Land Management	620 E Greene St.	Carlsbad	NM	88220
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
ConocoPhillips Company (CONOCOPHILLPS CO)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corpotation	P.O. Box 2769	Hobbs	NM	88241
XTO Energy Inc.	500 W. Illinois, Suite 100	Midland	TX	79701
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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MIDLAND TX 79701-4337

New Mexico State Land Office  
310 OLD SANTA FE TRL  
SANTA FE NM 87501-2708

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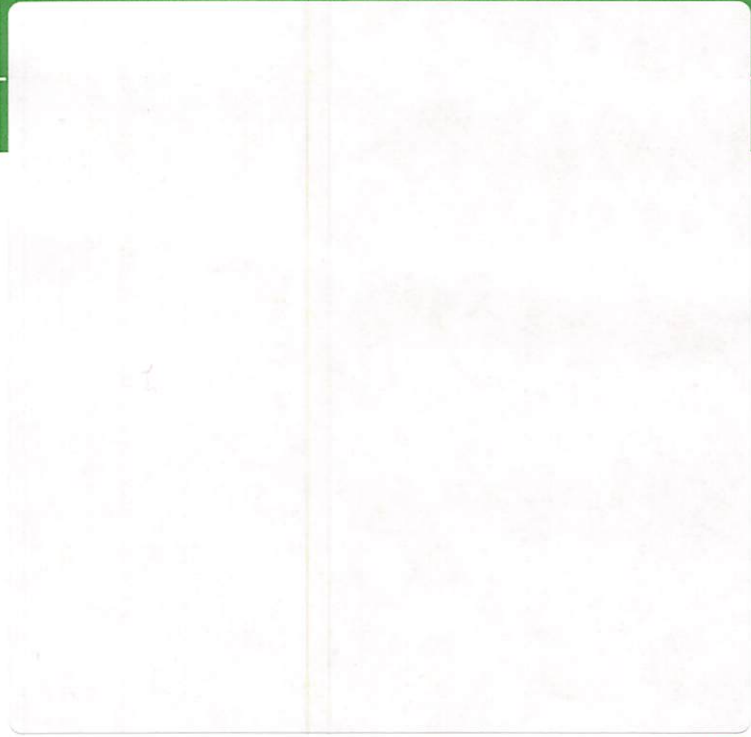
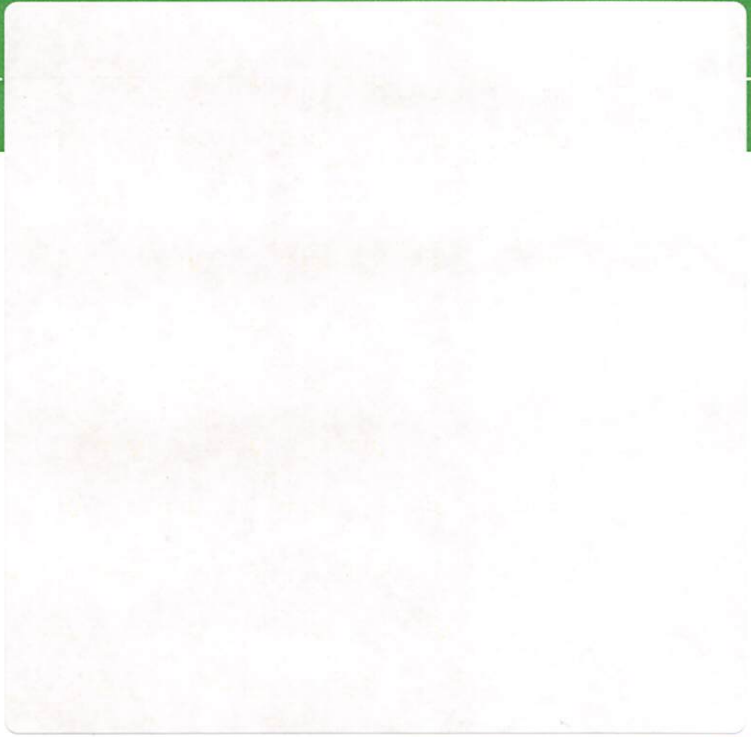
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Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
Southwest Bank Trust Department  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214



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ConocoPhillips Company  
PO BOX 2197  
HOUSTON TX 77252-2197

**Attachment 7**

Signed No Hydrological Connection Statement





Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hernandez SWD well permit

Lot P, Section 10, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

Date

**EXHIBIT A**

**ALLCONSULTING**

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

---

May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hodges SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hodges SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-5  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: November 2, 2023  
Case Nos. 23614-23617

---

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

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 - 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: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<u>FOR OCD ONLY</u>	
<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.**

\_\_\_\_\_  
 Print or Type Name

*Nathan Aleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. 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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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.

Application for Authorization to Inject  
Well Name: Hodge SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hodge SWD #1  
Location Footage Calls: 2,833 FNL & 1,620 FWL  
Legal Location: Unit Letter 11, S4 T21S R36E  
Ground Elevation: 3,558'  
Proposed Injection Interval: 4,100' – 5,200'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,250'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,200'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,050'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,050'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,050'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,100' – 5,200'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,610')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,233')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged penetrating wellbore diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are eleven wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other eight wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 820 psi (surface)  
**Proposed Average Injection Pressure:** approximately 500 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,100 – 5,200 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,225 feet. Water well depths in the area range from approximately 9 - 181 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. Three of the water wells have been determined to not be fresh water wells, and the owner of water well CP-01889-POD 1 has confirmed that this is not an active water well. Therefore, no water well samples were taken in association with this application.

A water well map and details of water wells within 1-mile are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.



# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram

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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HODGES SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3558'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11	04	21 S	36 E		2833'	NORTH	1620'	WEST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

The map shows a well location (red circle) in Section 04, Township 20S, Range 37E. The well is located 2833' from the north line and 1620' from the west line. Three capped iron pipes are marked with their coordinates. A calculated corner is also shown. The map is bounded by sections 31, 32, 33, 03, 04, 05, 08, and 09.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**SURVEYOR CERTIFICATION**

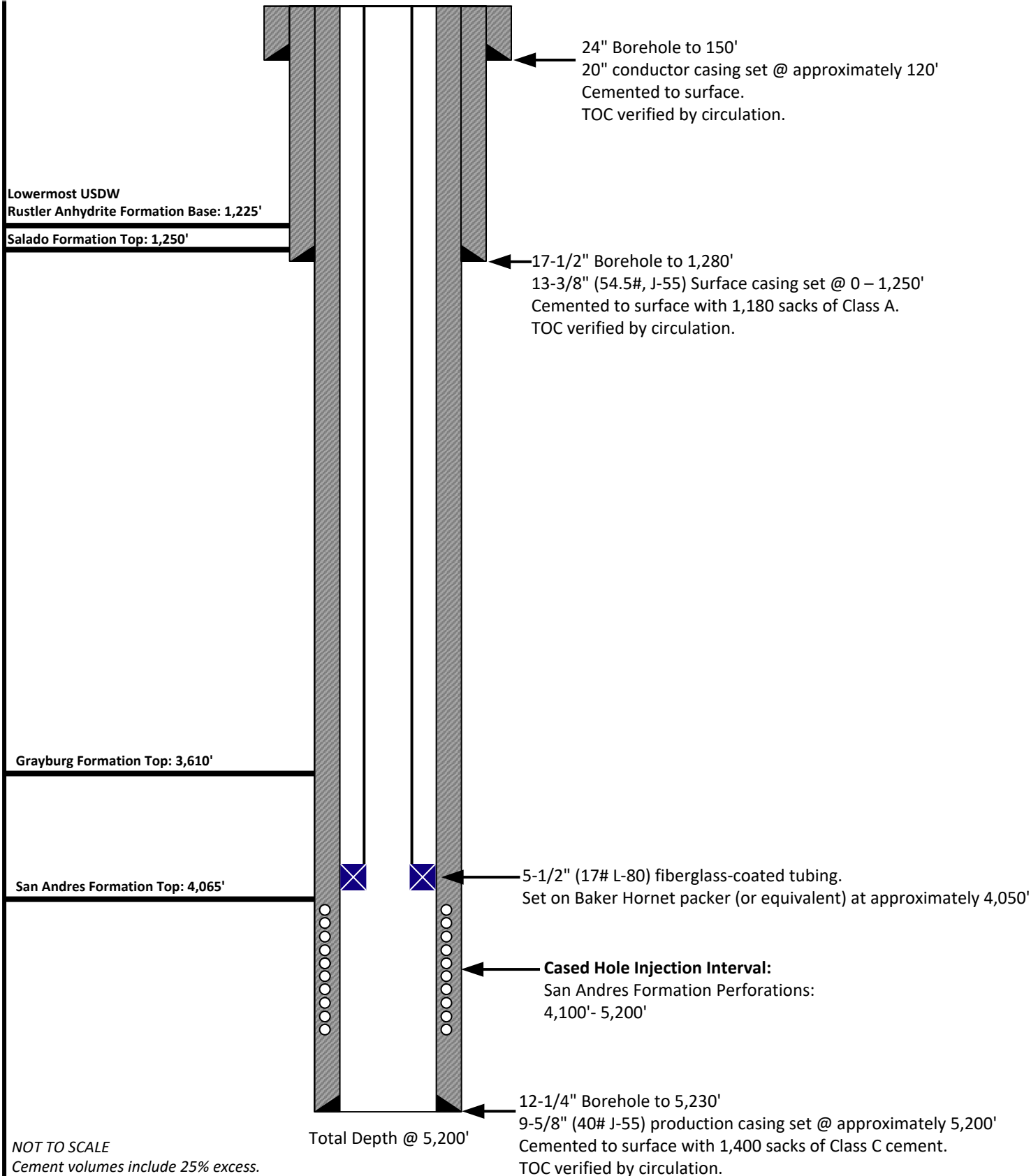
*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.*

Date of Survey 04/28/2023

Signature and Seal of Professional Surveyor \_\_\_\_\_

Certificate Number 21209

TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

 Prepared for: 	Prepared by: Drawn by: Joshua Ticknor, P.E.	<b>Goodnight Midstream Permian, LLC</b> Hodges SWD #1 2,833' FNL & 1,620 FWL Section 4 , Twp 21 S, Rng 36 E Lea County, New Mexico
	Project Manager: Nathan Alleman	
	Date: 4/11/2023	

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

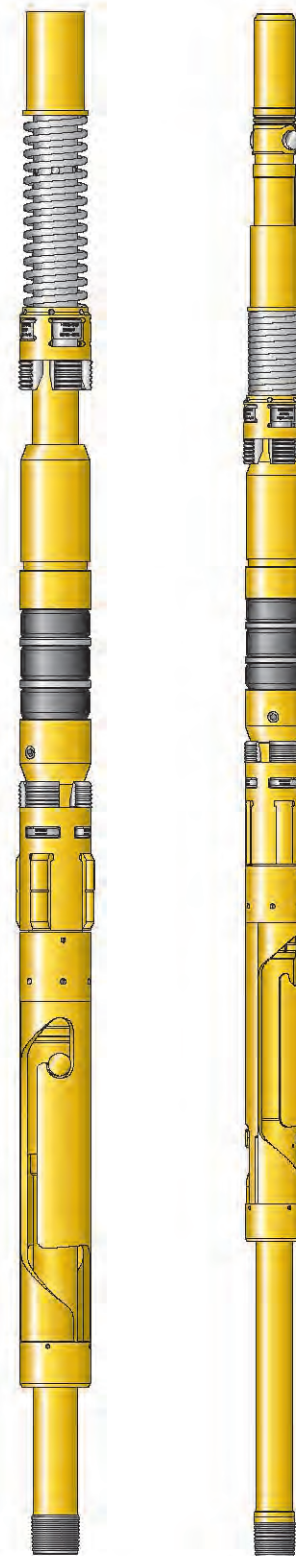
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



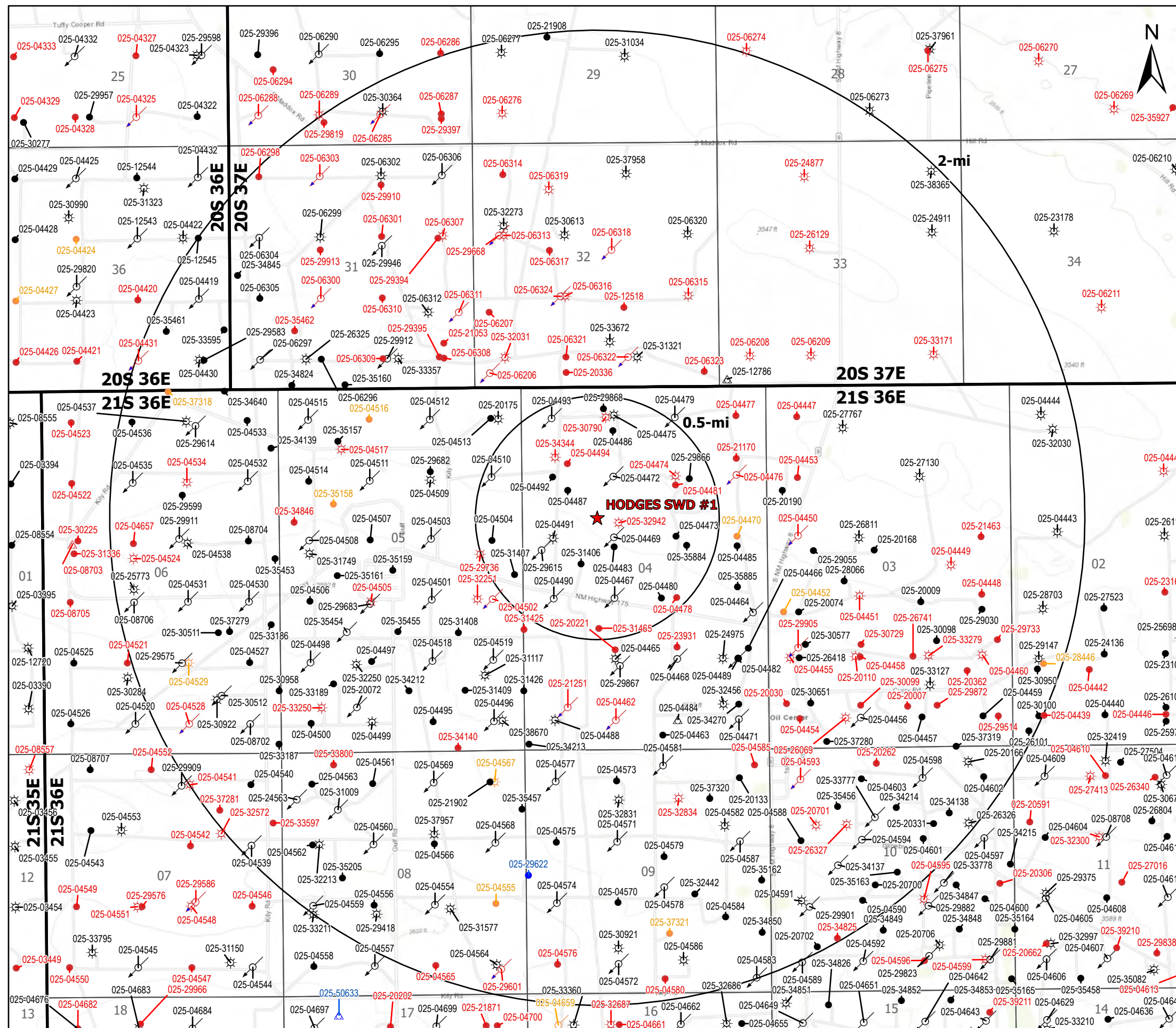
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☼ Gas, Active (90)
- ☼ Gas, Plugged (50)
- ☼ Gas, Temporarily Abandoned (2)
- ↻ Injection, Active (100)
- ↻ Injection, Plugged (22)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (148)
- Oil, New (1)
- Oil, Plugged (102)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (2)
- △ Salt Water Injection, New (1)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

## AOR Tabulation for Hodges SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
FEDERAL OC COM #001	30-025-30790	Plugged	ARCO PERMIAN	11/11/1990	C-04-21S-36E	(Plugged) 12,435	Yes
BELL RAMSAY NCT A #011	30-025-04494	Plugged	CHEVRON U S A INC	4/4/1962	M-04-21S-36E	(Plugged) 6,055	Yes
H T ORCUTT NCT B COM #014	30-025-34344	Plugged	CHEVRON U S A INC	3/29/1998	E-04-21S-36E	(Plugged) 3,630	No
EUNICE MONUMENT SOUTH UNIT #230	30-025-04478	Plugged	CHEVRON U S A INC	3/8/1936	O-04-21S-36E	(Plugged) 3,852	No
MEYER B 4 #020	30-025-04481	Plugged	CONOCO INC	7/12/1962	G-04-21S-36E	(Plugged) 6,271	Yes
MEYER B 4 #031	30-025-32942	Plugged	CONOCOPHILLIPS COMPANY	6/18/1995	C-04-21S-36E	(Plugged) 3,590	No
MEYER B 4 #014	30-025-04474	Plugged	CONOCOPHILLIPS COMPANY	11/27/1953	B-04-21S-36E	(Plugged) 3,869	No
EUNICE MONUMENT SOUTH UNIT #200H	30-025-04492	Oil	Empire New Mexico LLC	5/3/1936	D-04-21S-36E	3,778	No
EUNICE MONUMENT SOUTH UNIT #183	30-025-04493	Injection	Empire New Mexico LLC	7/19/1936	D-04-21S-36E	3,844	No
EUNICE MONUMENT SOUTH UNIT #609	30-025-31406	Oil	Empire New Mexico LLC	11/26/1991	D-04-21S-36E	3,849	No
EUNICE MONUMENT SOUTH UNIT #201	30-025-04472	Injection	Empire New Mexico LLC	1/1/1900	C-04-21S-36E	3,860	No
EUNICE MONUMENT SOUTH UNIT #229	30-025-04467	Injection	Empire New Mexico LLC	2/23/1936	N-04-21S-36E	3,864	No
EUNICE MONUMENT SOUTH UNIT #210	30-025-04469	Injection	Empire New Mexico LLC	6/1/1936	C-04-21S-36E	3,870	No
EUNICE MONUMENT SOUTH UNIT #209	30-025-04473	Oil	Empire New Mexico LLC	7/19/1936	J-04-21S-36E	3,871	No
EUNICE MONUMENT SOUTH UNIT #212	30-025-04504	Oil	Empire New Mexico LLC	11/19/1935	A-05-21S-36E	3,887	No
EUNICE MONUMENT SOUTH UNIT #610	30-025-31407	Oil	Empire New Mexico LLC	12/5/1991	H-05-21S-36E	3,888	No
BELL RAMSAY NCT A #008	30-025-04491	Gas	Empire New Mexico LLC	4/5/1936	D-04-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #202	30-025-29866	Oil	Empire New Mexico LLC	12/31/9999	G-04-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #199	30-025-04510	Injection	Empire New Mexico LLC	3/17/1936	H-05-21S-36E	3,905	No
EUNICE MONUMENT SOUTH UNIT #211	30-025-29615	Injection	Empire New Mexico LLC	12/31/9999	L-04-21S-36E	4,125	No
EUNICE MONUMENT SOUTH UNIT #228	30-025-04490	Injection	Empire New Mexico LLC	12/11/1935	M-04-21S-36E	4,217	Yes
EUNICE MONUMENT SOUTH UNIT #182	30-025-29868	Oil	Empire New Mexico LLC	5/31/1987	C-04-21S-36E	4,300	Yes
EUNICE MONUMENT SOUTH UNIT #458	30-025-29618	Water	Empire New Mexico LLC	12/31/9999	I-04-21S-36E	5,000	Yes
BELL RAMSAY NCT A #012	30-025-04487	Oil	Empire New Mexico LLC	11/20/1962	E-04-21S-36E	6,050	Yes
MEYER B 4 #019	30-025-04480	Oil	PENROC OIL CORP	3/19/1981	O-04-21S-36E	12,010	Yes
MEYER B 4 #015	30-025-04475	Gas	PENROC OIL CORP	1/1/1900	C-04-21S-36E	3,857	No
MEYER B 4 #026	30-025-04486	Oil	PENROC OIL CORP	12/10/1962	C-04-21S-36E	6,040	Yes
MEYER B 4 #022	30-025-04483	Oil	PENROC OIL CORP	10/5/1962	K-04-21S-36E	6,275	Yes
MEYER B 4 #033	30-025-35884	Oil	PENROC OIL CORP	4/17/2002	B-04-21S-36E	8,790	Yes
EUNICE MONUMENT SOUTH UNIT #626	30-025-31465	Plugged	XTO ENERGY, INC	12/31/9999	F-04-21S-36E	(Plugged) 3,870	No

Notes:

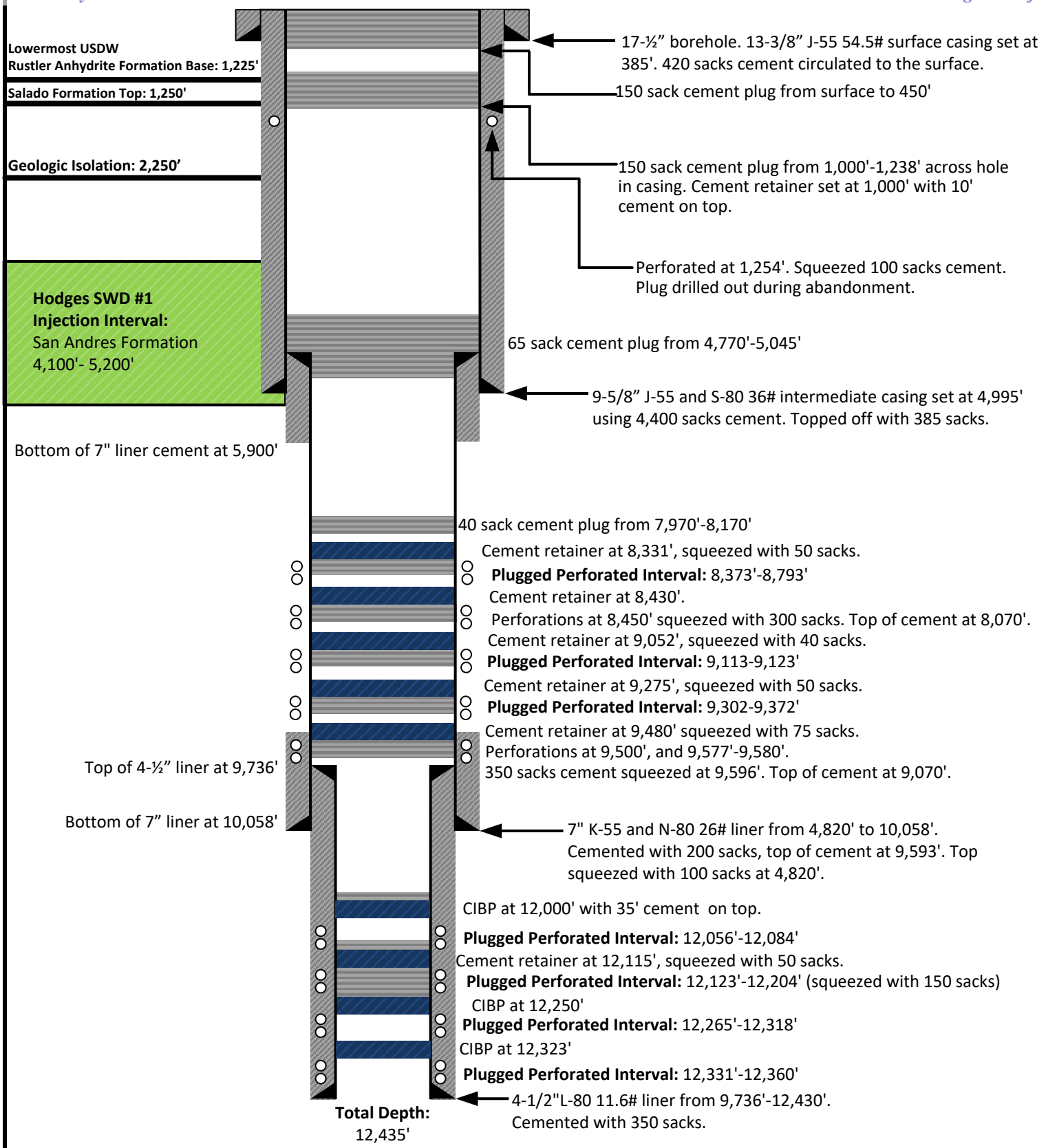


### Casing Information for Wells Penetrating the Hodges SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	385'	13.375"	Surface	Circulation	420	17.5"	4995'	9.625"	Surface	Circulation	4400	12.25"
BELL RAMSAY NCT A #011	1288'	8.625"	Surface	Circulation	605	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	1330'	8.625"	Surface	Circulation	450	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	366'	15"	Surface	Circulation	300	17.5"	1300'	9.625"	Surface	Circulation	450	12.5"
EUNICE MONUMENT SOUTH UNIT #182	1203'	8.625"	Surface	Circulation	800	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	332'	16"	Surface	Circulation	600	20"	2546'	11.75"	Surface	Circulation	1050	14.75"
BELL RAMSAY NCT A #012	1255'	8.625"	Surface	Circulation	600	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	342'	13.375"	Surface	Circulation	300	17.5"	5144'	9.625"	2450'	Temp. Survey	525	12.5"
MEYER B 4 #026	1215'	7.625"	Surface	Circulation	500	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	1260'	8.625"	Surface	Circulation	600	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	1326'	8.625"	Surface	Circulation	50	12.25"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner						Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	4820' - 10058'	7"	N/A	N/A	300	N/A	9736' - 12430'	4.5"	N/A	N/A	350	N/A
BELL RAMSAY NCT A #011	6055'	4.5"	unknown	unknown	710	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	6271'	5.5"	2400'	Temp. Survey	720	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	3741'	7"	Surface	Circulation	500	8.625"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #182	3900'	5.5"	Surface	Circulation	450	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	5000'	8.625"	Surface	CBL	1215	10.625"	N/A	N/A	N/A	N/A	N/A	N/A
BELL RAMSAY NCT A #012	6040'	4.5"	3190'	Temp. Survey	400	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	6018'	5.5"	4833'	unknown	325	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #026	6040'	4.5"	3800'	Temp. Survey	900	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	6350'	5.5"	2400'	unknown	420	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	8790'	5.5"	Surface	Circulation	1001 bbls	7.875"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
FEDERAL OC COM #001	Plugs set at 7970' - 8170' w/ 40 sacks, 4770' - 5045' w/ 65 sacks, 1000' - 1238' with 150 sacks, and 0-450' with 150 sacks.
BELL RAMSAY NCT A #011	4.5" CIBP set at 5800' and spot 25 sacks cement on top. Plugs set at 3600' - 3900' w/30 sacks, 2600' - 2800' w/25 sacks, 1100' - 1350' w/25 sacks, & 0-300' w/30 sacks.
MEYER B 4 #020	with 35sx cement cap, 'Plugs at 4157' - 5279 w/100 sacks, 2350' - 2600' w/25 sacks, 1161' - 1261' w/30 sacks pumped below retainer, and 10 sacks placed on top, surface - 350'
EUNICE MONUMENT SOUTH UNIT #228	-
EUNICE MONUMENT SOUTH UNIT #182	-
EUNICE MONUMENT SOUTH UNIT #458	-
BELL RAMSAY NCT A #012	-
MEYER B 4 #019	-
MEYER B 4 #026	-
MEYER B 4 #022	-
MEYER B 4 #033	-



Not to Scale

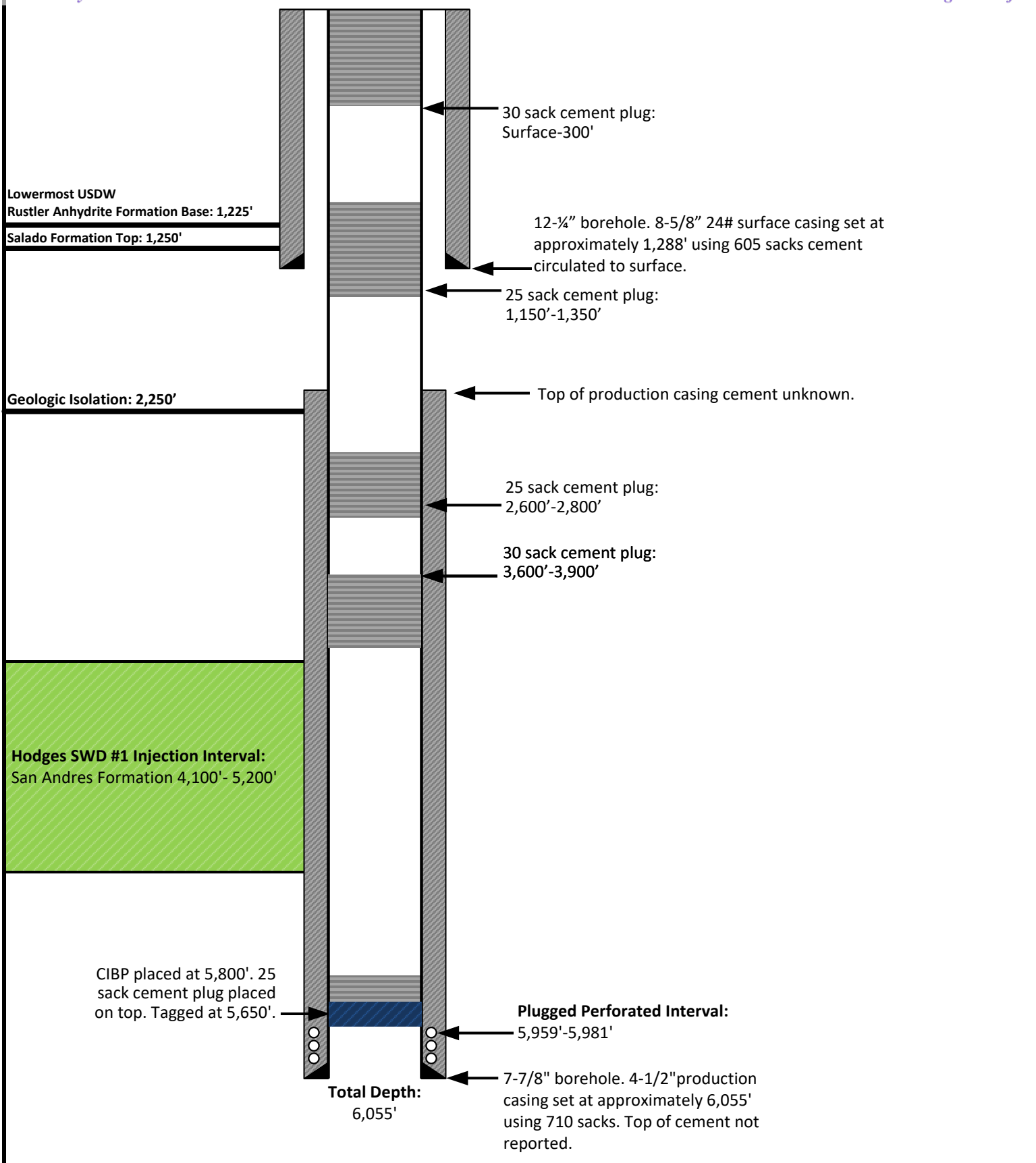
Prepared by:  
  
 Prepared for:

Drawn by: Joshua Ticknor



Project Manager:  
Nathan Alleman

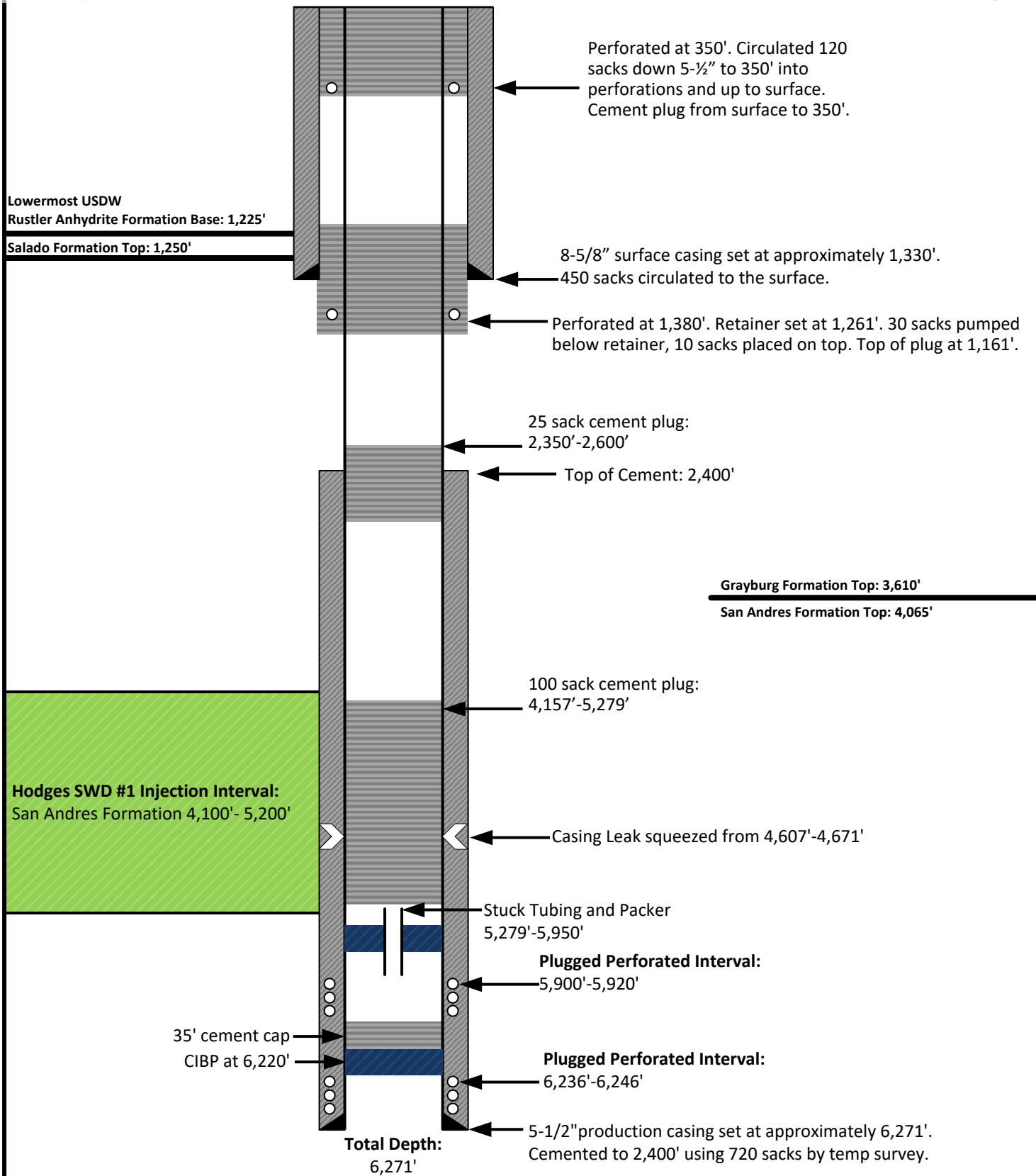
Date: 05/05/2023

Federal "OC" Com #1  
 Wellbore Diagram  
 API: 30-025-30790  
 Plugged and Abandoned: 12/10/1992  
 Operated By: ARCO Oil and Gas Company



Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>Bell Ramsey NCT-A Wellbore Diagram API: 30-025-04494 Spud Date: 04/04/1962 Plugged and Abandoned: 02/28/2003 Operated By: Chevron USA, Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

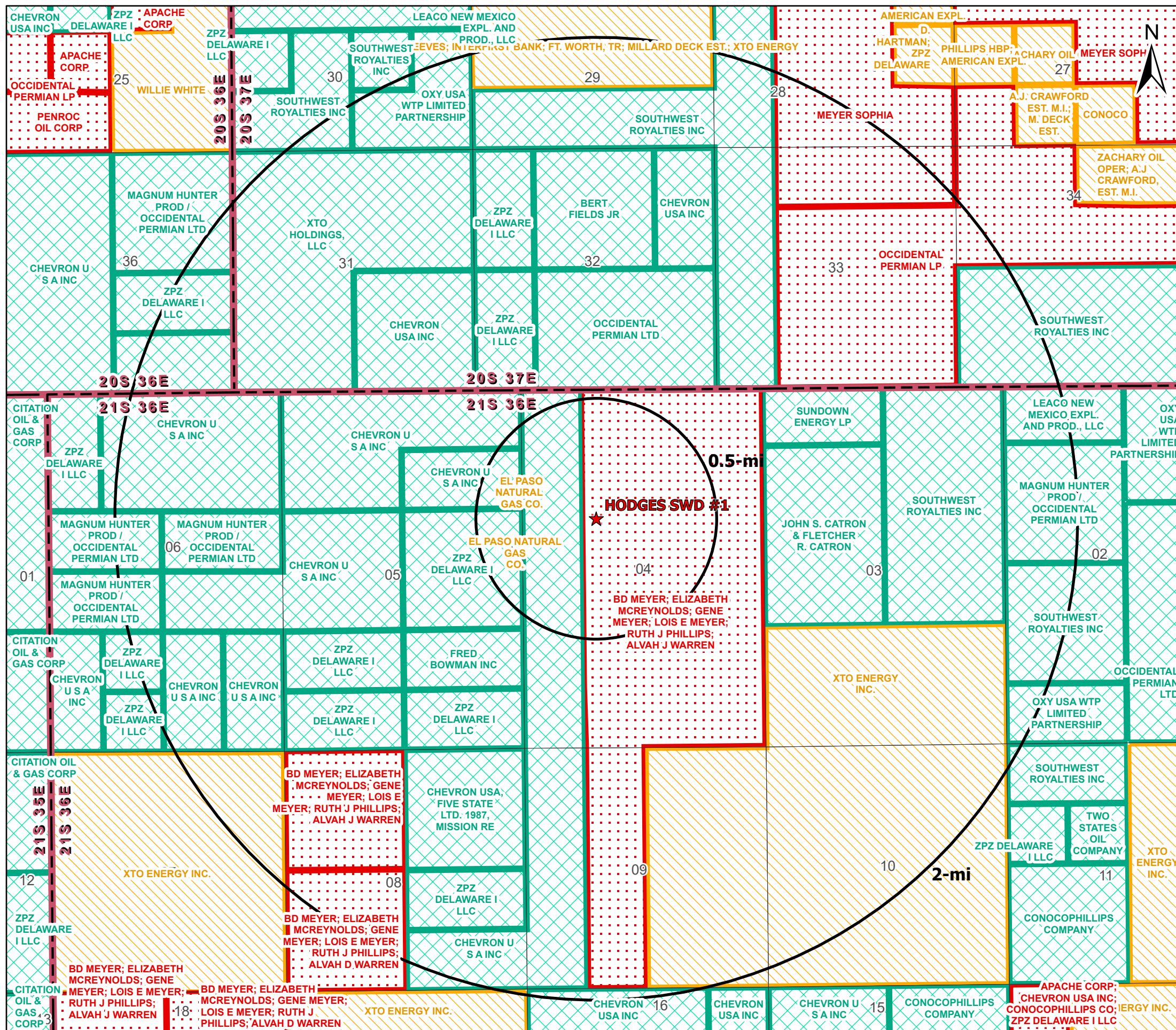
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

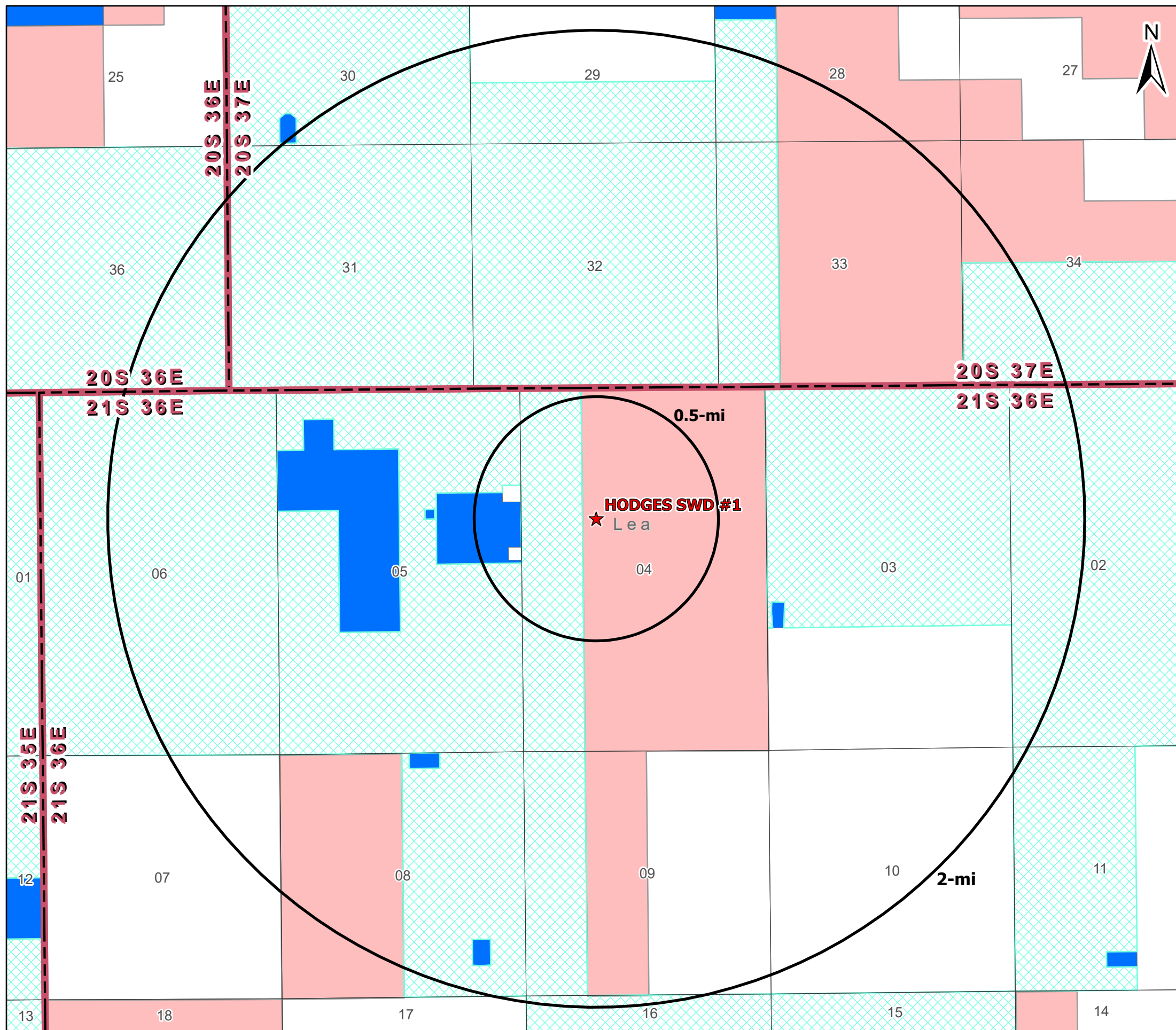
Meyer B-4  
Wellbore Diagram  
API: 30-025-04481  
Plugged and Abandoned: 09/23/1997  
Operated By: Conoco, Inc.



### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	



### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

## Mineral Ownership Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

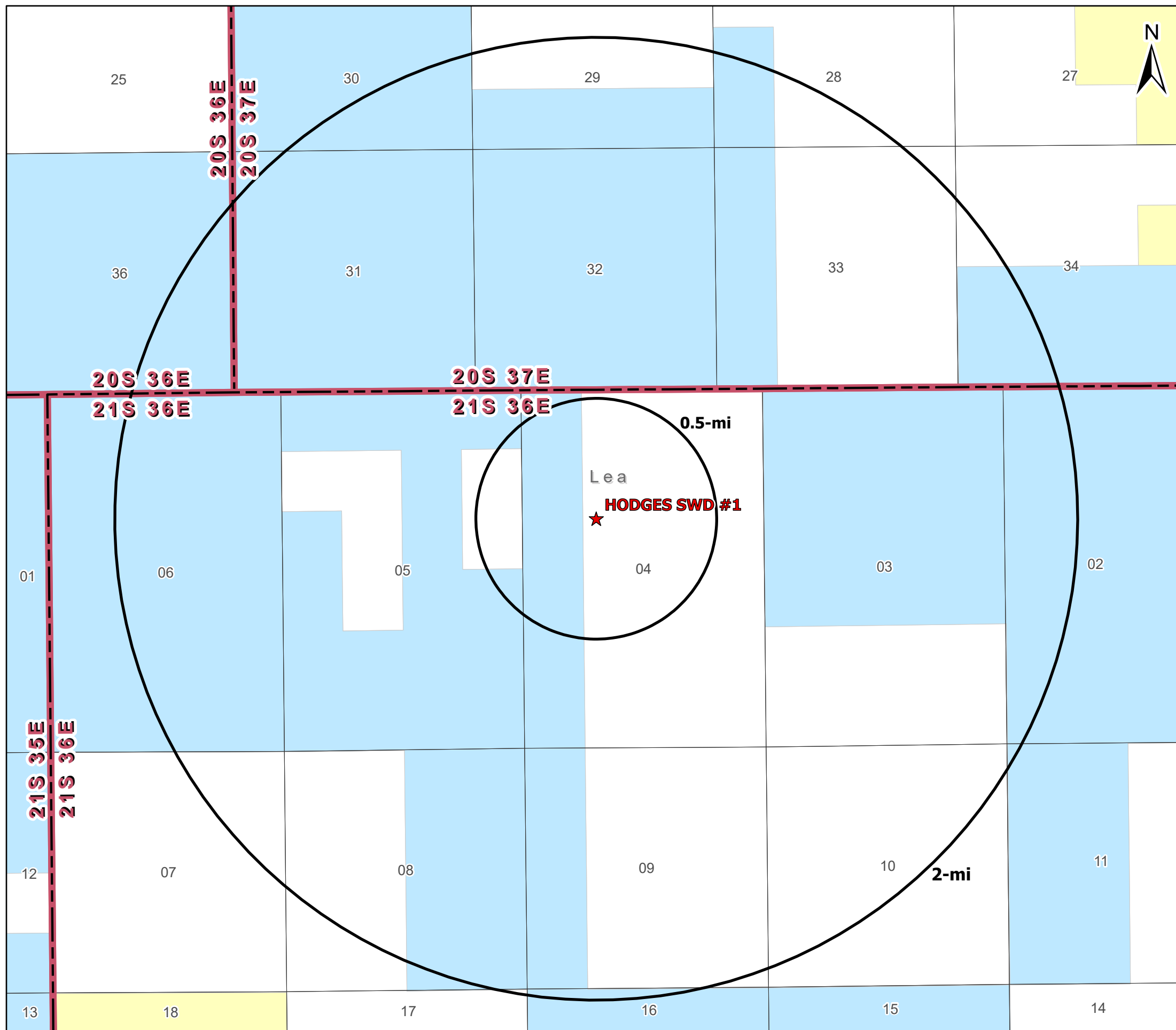
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)

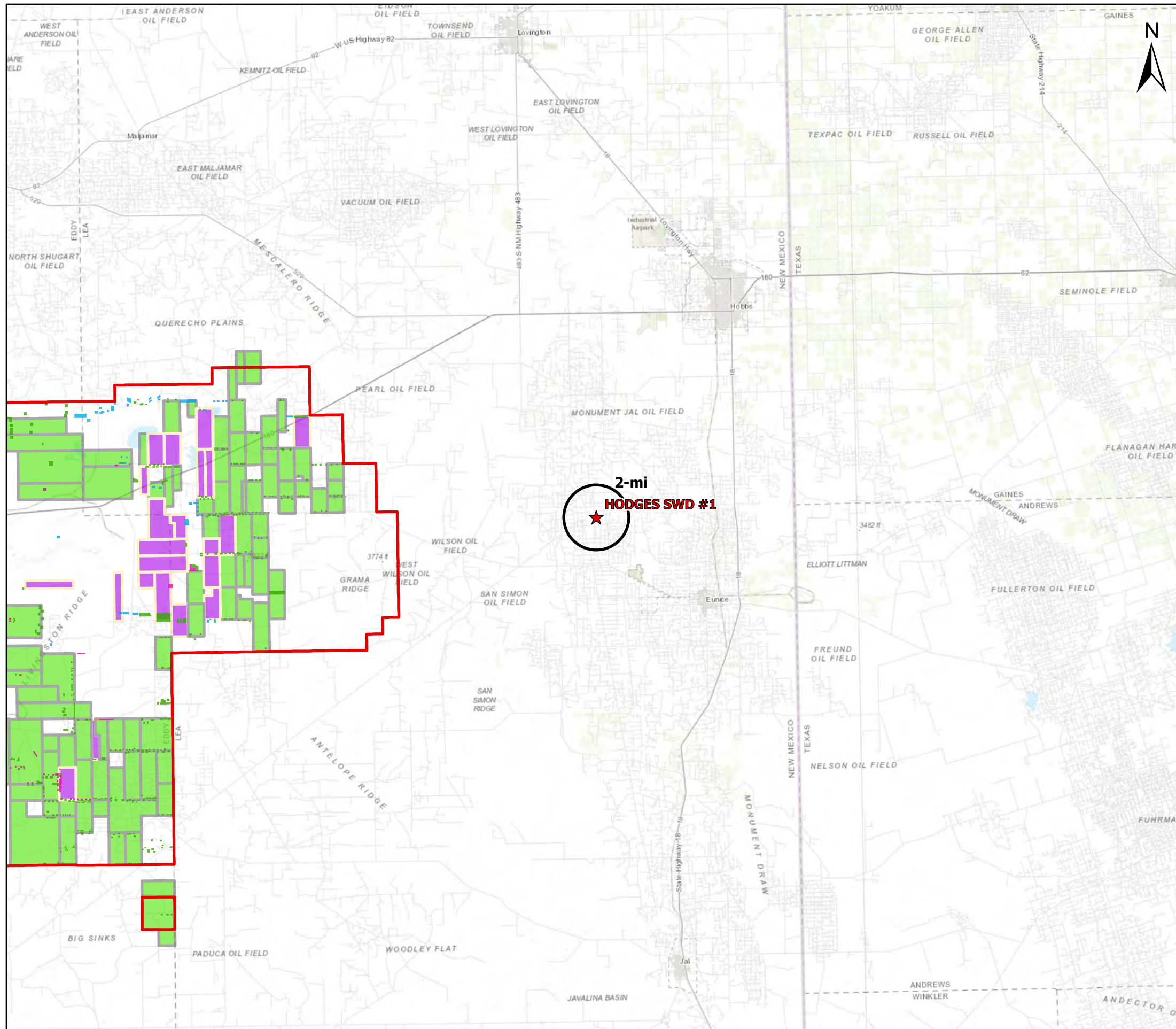


### Legend

- ★ Proposed SWD
- Surface Ownership**
- BLM
- Private
- State

<b>Surface Ownership Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	





### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- Status, Depth Buffer
- Approved, Half Mile (303)
  - Approved, Quarter Mile (36)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- Status
- Approved (87)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

Service Layer Credits: Topographic: Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (6)
- Pending (7)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
---------------------------	--------------	------------------------------



Water Well Sampling Rationale					
Goodnight Midstream Permian- Hodges SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00670-POD1	GULF OIL CORPORATION	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00694-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00697-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-01889-POD1	Mathew LUNA	P.O. Box 3032 Eunice, NM, 88231 Cell: 575-942-8473	Domestic	No	Communication with the water well owner confirmed that this well is not currently an active fresh water well. Sampling is not available.
<b>Note:</b> No active freshwater wells are located within 1-mile of the proposed Hodges SWD #1.					



**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hodges SWD #1  
Located 8.5 miles northwest of Eunice, NM  
LOT 11, Section 4, Township 21S, Range 36E  
2,833 FNL & 1,620' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,100'– 5,200')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 820 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# 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  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.

**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

**NOTICE IS HEREBY GIVEN:** That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

**PURPOSE:** The intended purpose of the Injection well is to dispose of salt water produced from permitted oil and gas wells.

**WELL NAME AND LOCATION:** Hodges SWD #1  
Located 8.5 miles northwest of Eunice, NM  
LOT 11, Section 4, Township 21S,  
Range 36E  
2,833 FNL & 1,620' FWL  
Lea County, NM

**NAME AND DEPTH OF DISPOSAL ZONE:** San Andres (4,100'- 5,200')  
**EXPECTED MAXIMUM INJECTION RATE:** 42,000 Bbls/day  
**EXPECTED MAXIMUM INJECTION PRESSURE:** 820 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278371**

  
Publisher

Sworn and subscribed to before me this  
9th day of May 2023.

  
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**

67115320

00278371

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE  
TULSA, OK 74119

<b>Hodges SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corportation (PENROC OIL CORP)	P.O. Box 2769	Hobbs	NM	88241
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
El Paso Natural Gas Company, LLC (EL PASO NATURAL GAS CO.)	1001 Louisiana Street, Suite 1000	Houston	TX	77002
BD Meyer	P.O. Box 428	Panhandle	TX	79068
Elizabeth McReynolds	P.O. Box 428	Panhandle	TX	79068
Lois E Meyer	P.O. Box 428	Panhandle	TX	79068
Gene Meyer	P.O. Box 428	Panhandle	TX	79068
Ruth J Phillips	P.O. Box 428	Panhandle	TX	79068
Alvah J Warren	P.O. Box 428	Panhandle	TX	79068
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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Tulsa OK 74119

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SANTA FE NM 87501-2708

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MIDLAND TX 79706-2964

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Ruth J. Phillips  
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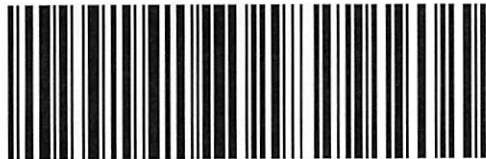
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CARLSBAD NM 88220-6292

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Alvah J. Warren  
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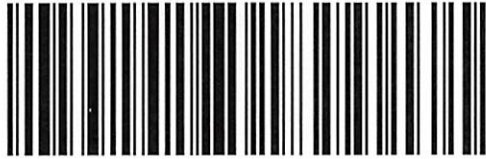
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Elizabeth McReynolds  
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PANHANDLE TX 79068-0428

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Tulsa OK 74119

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El Paso Natural Gas Company, LLC  
1001 LOUISIANA STREET SUITE 1000  
HOUSTON TX 77002-0000

ALL Consulting, LLC  
1718 S Cheyenne Ave  
Tulsa OK 74119

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Penroc Oil Corporation  
PO BOX 2769  
HOBBS NM 88241-2769

ALL Consulting, LLC  
1718 S Cheyenne Ave  
Tulsa OK 74119

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Empire New Mexico LLC  
2200 S UTICA PL STE 150  
TULSA OK 74114-7015

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

ALL Consulting, LLC  
1718 S Cheyenne Ave  
Tulsa OK 74119

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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214



**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hodges SWD well permit

Lot 11, Section 4, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic covering the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date

**EXHIBIT A**

**ALLCONSULTING**

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

---

May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Seaver SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Seaver SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. A-6  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: November 2, 2023  
Case Nos. 23614-23617

---

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**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

<b>FOR OCD ONLY</b>	
<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.**

\_\_\_\_\_  
 Print or Type Name

*Nathan Alleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number

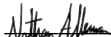
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e-mail Address

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: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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: Nathan Alleman TITLE: Sr. Regulatory Specialist  
SIGNATURE:  DATE: 5/12/2023  
E-MAIL ADDRESS: nalleman@all-llc.com
- XV. 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

Side 2

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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.

Application for Authorization to Inject  
Well Name: Seaver SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Seaver SWD #1  
Location Footage Calls: 1,809 FSL & 1,428 FWL  
Legal Location: Unit Letter K, S10 T21S R36E  
Ground Elevation: 3,575'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,380'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,707')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, one of which has been properly plugged and abandoned, while the other five wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,355 feet. Water well depths in the area range from approximately 81 – 242 feet below ground surface.



### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 9 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (CP-01696 POD 1 on 8/26/2021 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram

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

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name SEAVER SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3575'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	10	21 S	36 E		1809'	SOUTH	1428'	WEST	LEA

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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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.

**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 \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**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.*

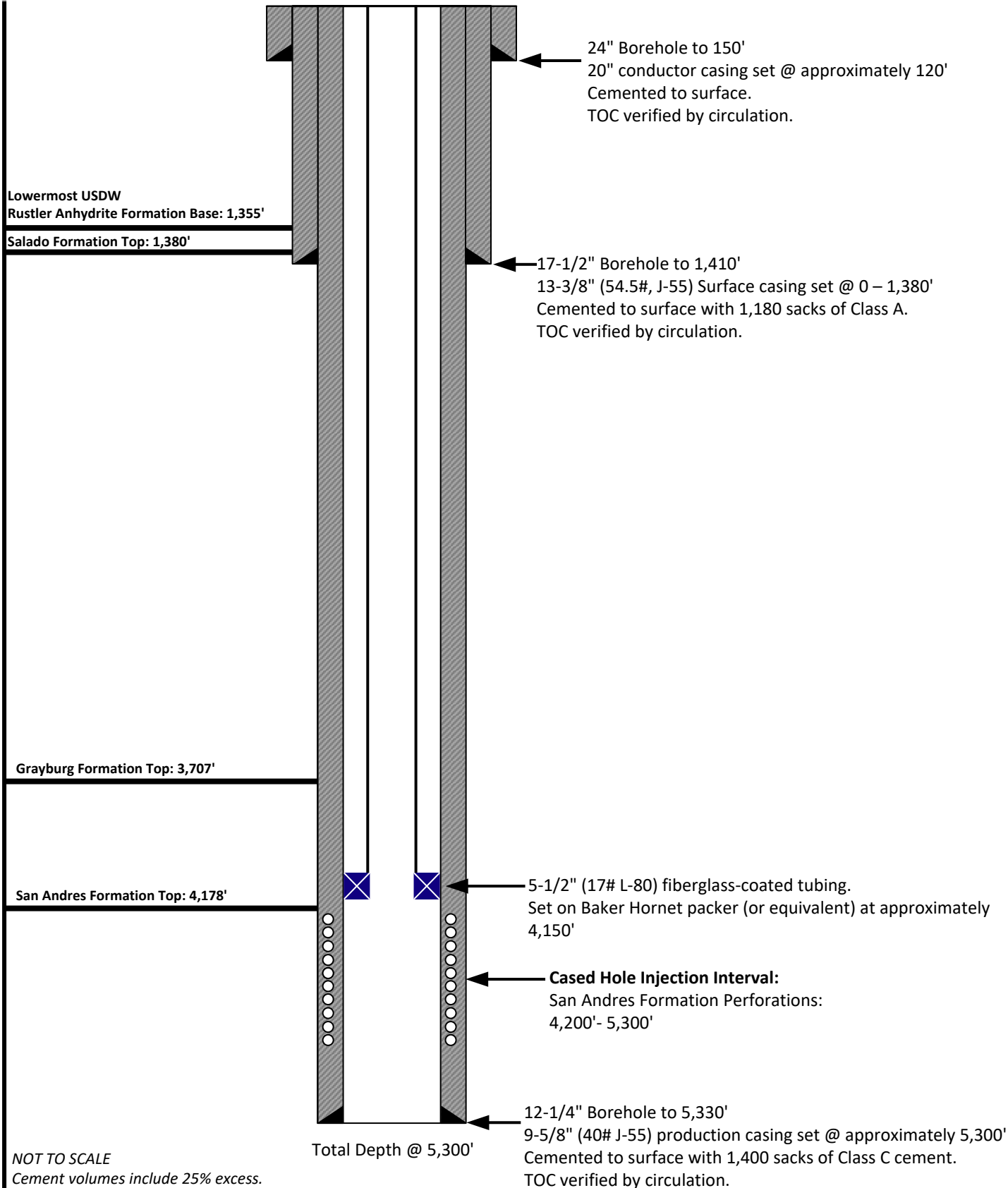
04/28/2023

Date of Survey \_\_\_\_\_

Signature and Seal of Professional Surveyor \_\_\_\_\_

Certificate Number \_\_\_\_\_

21209  
TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

<p>Prepared by:</p> <p>Prepared for:</p>	<p>Drawn by: Joshua Ticknor, P.E.</p>	<p><b>Goodnight Midstream Permian, LLC</b> Proposed Wellbore Diagram Seaver SWD #1 1,809' FSL &amp; 1,428' FWL Section 10 , Twp 21 S, Rng 36 E Lea County, New Mexico</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 4/11/2023</p>	

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

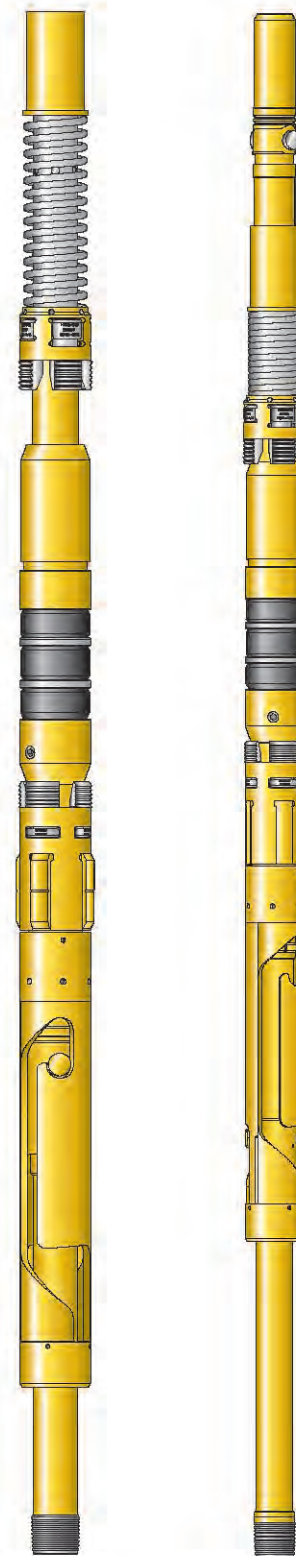
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



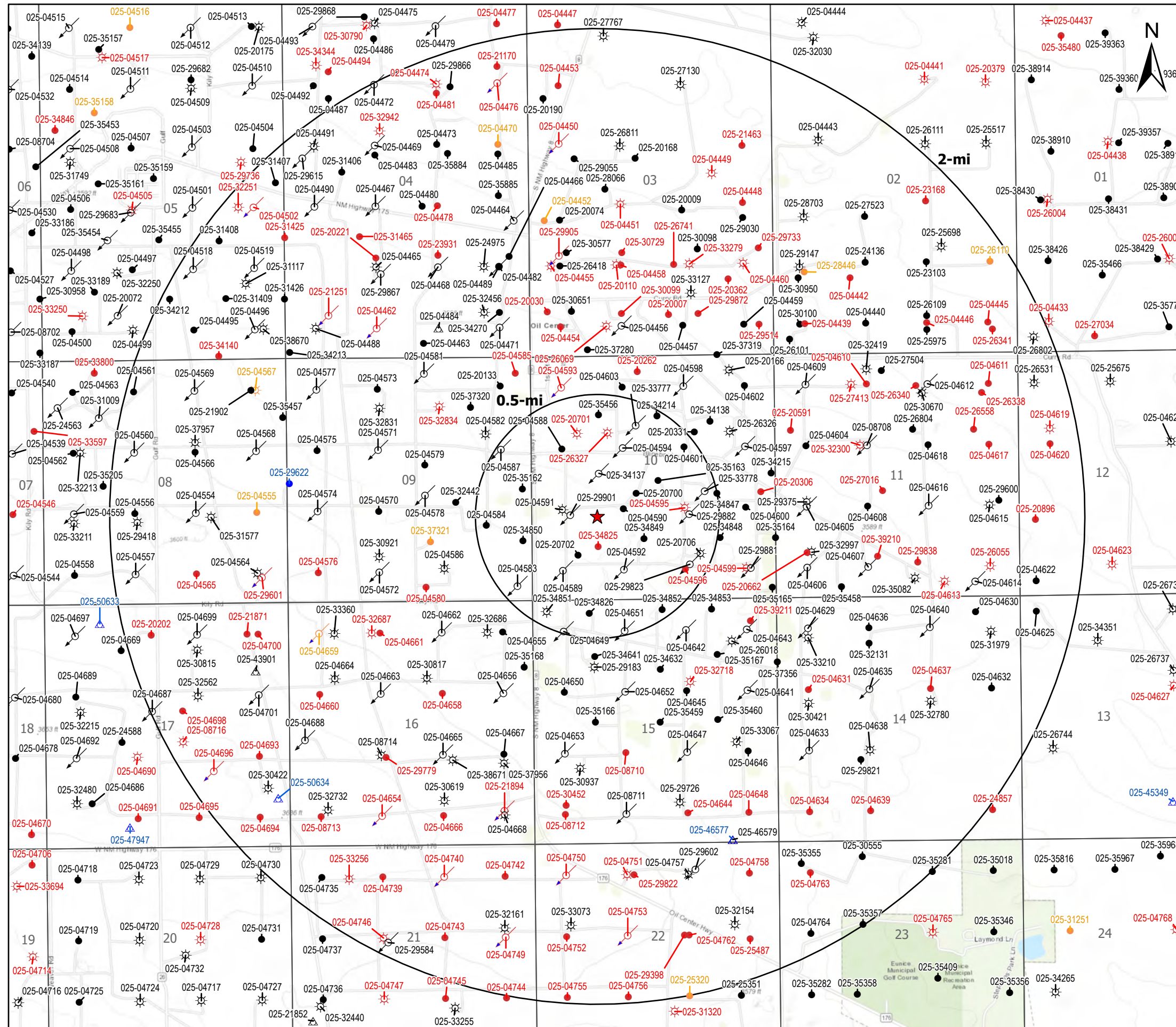
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☀ Gas, Active (96)
- ☀ Gas, Plugged (49)
- ☀ Gas, Temporarily Abandoned (1)
- ↻ Injection, Active (94)
- ↻ Injection, Plugged (15)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (178)
- Oil, New (1)
- Oil, Plugged (99)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (4)
- △ Salt Water Injection, New (5)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

## O&G Wells Area of Review

### SEAVER SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
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Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>
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## AOR Tabulation for Seaver SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
A J ADKINS COM #001	30-025-04591	Gas	Empire New Mexico LLC	4/7/1937	L-10-21S-36E	3,867	No
EUNICE MONUMENT SOUTH UNIT #317	30-025-04590	Oil	Empire New Mexico LLC	4/4/1936	K-10-21S-36E	3,880	No
EUNICE MONUMENT SOUTH UNIT #359	30-025-04651	Injection	Empire New Mexico LLC	8/12/1936	C-15-21S-36E	3,881	No
EUNICE MONUMENT SOUTH UNIT #360	30-025-04649	Injection	Empire New Mexico LLC	1/24/1936	D-15-21S-36E	3,885	No
EUNICE MONUMENT SOUTH UNIT #303	30-025-04594	Injection	Empire New Mexico LLC	10/26/1936	F-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #670	30-025-34214	Oil	Empire New Mexico LLC	2/17/1998	B-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #342	30-025-04583	Injection	Empire New Mexico LLC	12/23/1935	P-09-21S-36E	3,895	No
EUNICE MONUMENT SOUTH UNIT #696	30-025-34137	Injection	Empire New Mexico LLC	12/2/1997	F-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #343	30-025-04589	Injection	Empire New Mexico LLC	12/8/1935	M-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #301	30-025-04587	Injection	Empire New Mexico LLC	9/29/1957	H-09-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #735	30-025-34826	Oil	Empire New Mexico LLC	2/4/2000	D-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #671	30-025-35456	Oil	Empire New Mexico LLC	6/5/2001	C-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #695	30-025-35162	Oil	Empire New Mexico LLC	10/12/2000	I-09-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #710	30-025-34825	Plugged	Empire New Mexico LLC	1/25/2000	N-10-21S-36E	3,931	No
EUNICE MONUMENT SOUTH UNIT #304	30-025-04601	Oil	Empire New Mexico LLC	11/15/1936	G-10-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #711	30-025-34850	Oil	Empire New Mexico LLC	4/11/2000	P-09-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #318	30-025-29901	Injection	Empire New Mexico LLC	12/31/9999	L-10-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
A J ADKINS COM #009	30-025-20701	Plugged	Empire New Mexico LLC	12/31/9999	E-10-21S-36E	Plugged (5,960)	Yes
A J ADKINS COM #010	30-025-20702	Oil	Empire New Mexico LLC	10/16/1964	M-10-21S-36E	6,010	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
A J ADKINS #008	30-025-20700	Oil	Empire New Mexico LLC	12/31/9999	K-10-21S-36E	6,050	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
A J ADKINS #011	30-025-33777	Injection	Empire New Mexico LLC	12/9/1997	F-10-21S-36E	6,225	Yes
EUNICE MONUMENT SOUTH UNIT #319	30-025-04584	Oil	Empire New Mexico LLC	4/1/1936	I-09-21S-36E	3790'	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	3,865	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	3,860	No
A J ADKINS COM #002	30-025-26327	Plugged	XTO ENERGY, INC	7/5/1979	F-10-21S-36E	3,675	No
EUNICE MONUMENT SOUTH UNIT #302	30-025-04588	Oil	XTO ENERGY, INC	10/18/1935	E-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #734	30-025-34851	Gas	XTO ENERGY, INC	3/23/2000	D-15-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #697	30-025-35163	Oil	XTO ENERGY, INC	10/20/2000	J-10-21S-36E	3,942	No

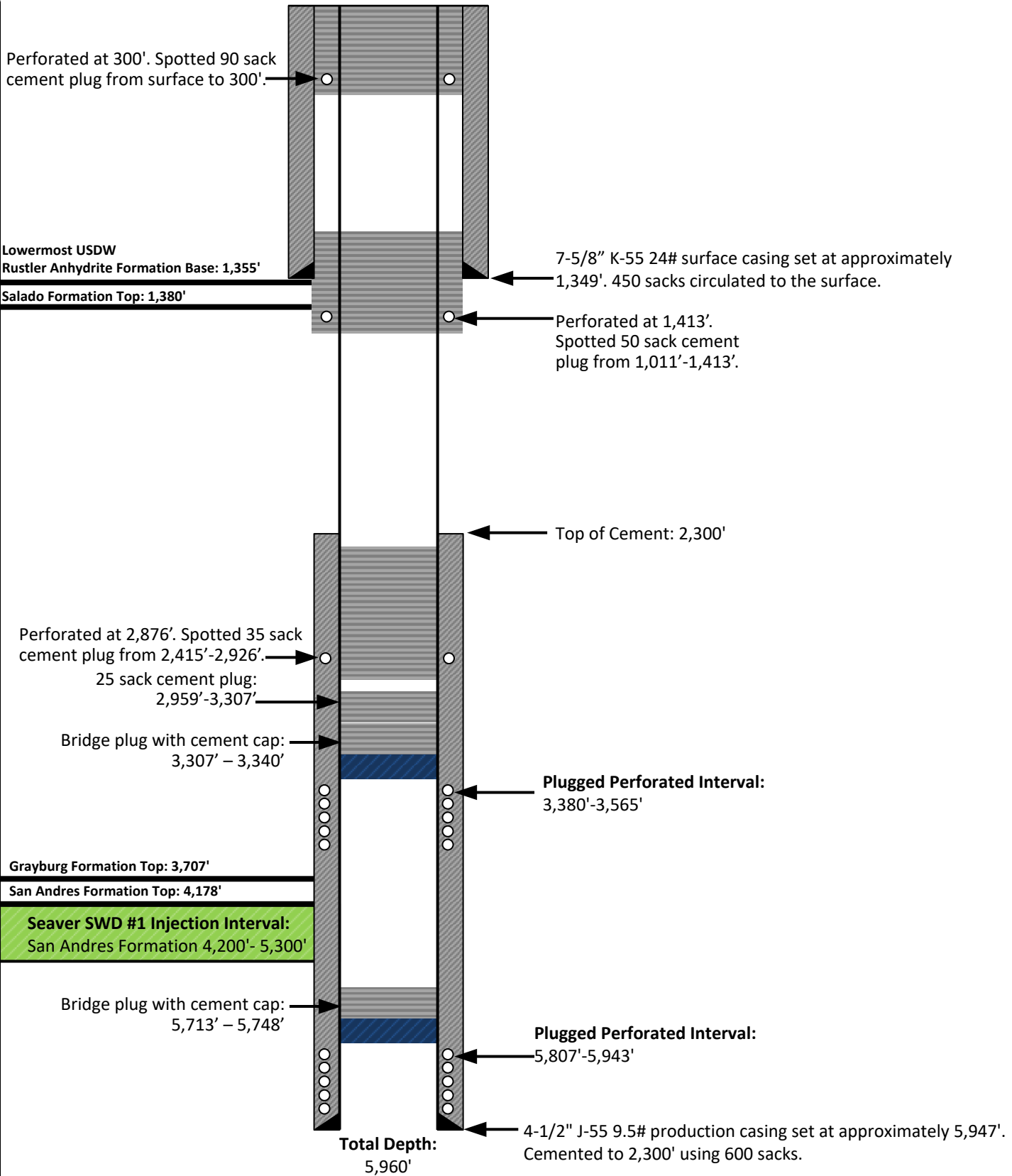
Notes:

### Casing Information for Wells Penetrating the Seaver SWD #1 Injection Zone

Well Name	Surface Casing					Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	1349'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	1413'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	1364'	7.625"	Surface	Circulation	625	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	1362'	8.625"	Surface	Circulation	640	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner					Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	5947'	4.5"	2300'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	6010'	4.5"	2285'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	6020'	4.5"	2500'	Temp. Survey	525	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	6040'	4.5"	2600'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	6400'	5.5"	Surface	Circulation	1200	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	6219'	5.5"	Surface	Circulation	1245	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
A J ADKINS COM #009	Bridge plug with cement cap 5,713' - 5,748', second bridge plug with a cement cap 3,307'-3,340'. Plugs set at 2959' - 3,307' with 25 sacks, 2,415'-2,926' with 35 sacks, 1,011' - 1,413' with 50 sacks, surface - 300' with 90 sacks.
A J ADKINS COM #010	-
JOHN D KNOX #012	-
A J ADKINS #008	-
JOHN D KNOX #014	-
A J ADKINS #011	-



Not to Scale

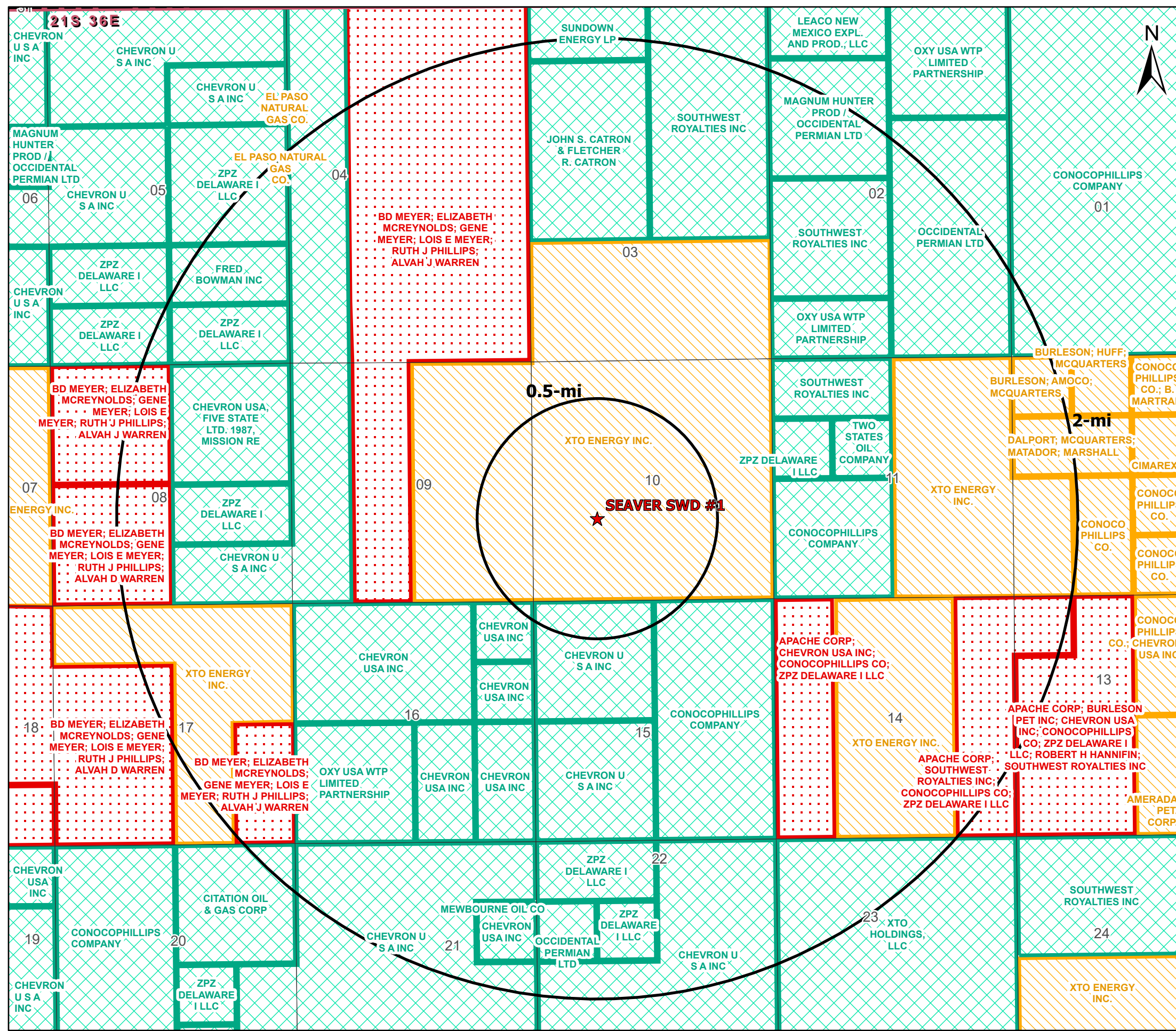
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Adkins A J 9  
 Wellbore Diagram  
 API: 30-025-20701  
 Spud Date: 11/05/1992  
 Plugged and Abandoned: 03/18/2020  
 Operated By: Exxon Mobil Corporation



**Legend**

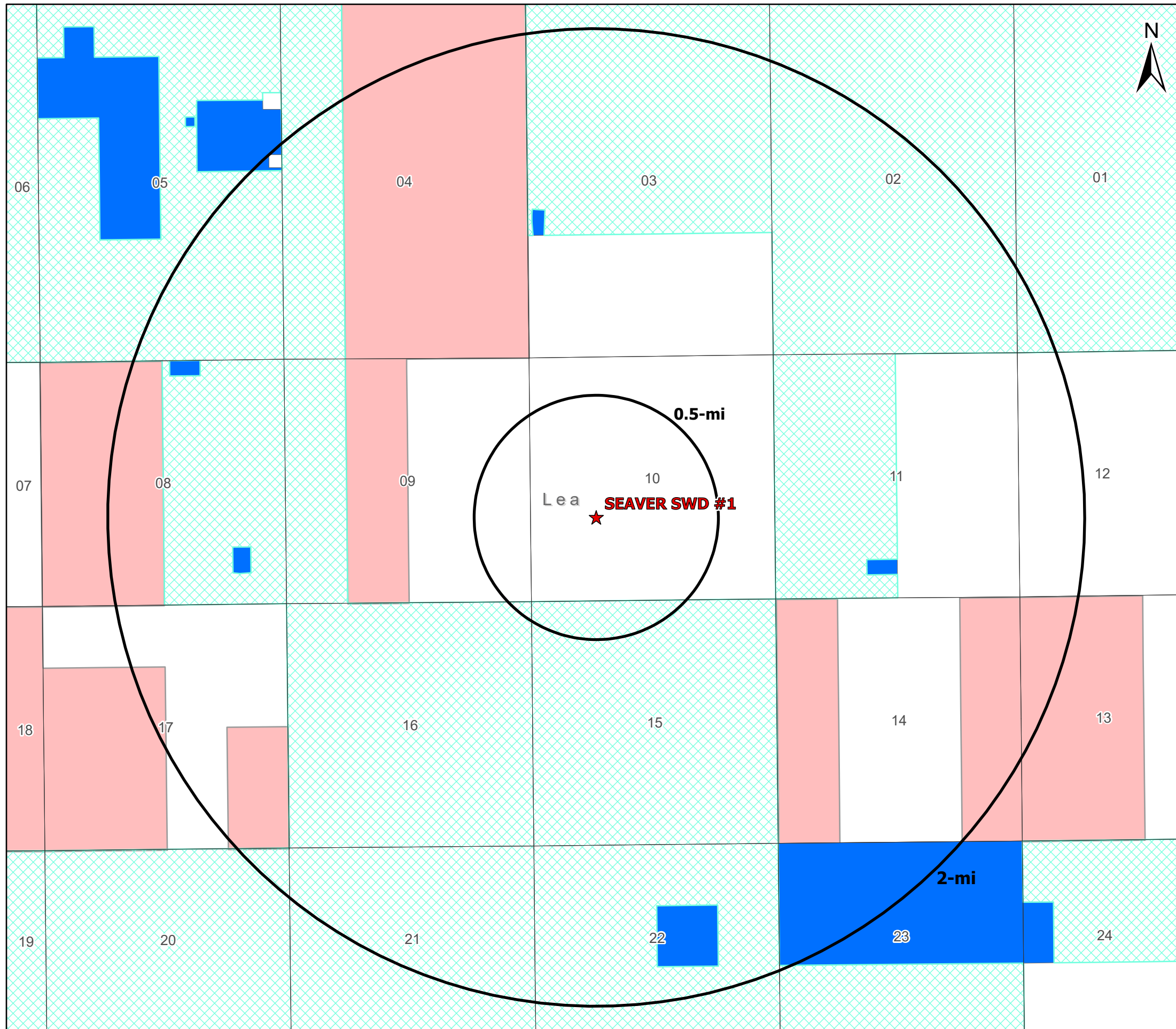
- ★ Proposed SWD
- Green hatched box: NMSLO Mineral Leases
- Red hatched box: BLM Mineral Leases
- Yellow hatched box: Private Mineral Leases

**Mineral Lease Area of Review**

**SEAVER SWD #1**  
LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	



### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

## Mineral Ownership Area of Review

### SEAVR SWD #1 LEA COUNTY, NEW MEXICO

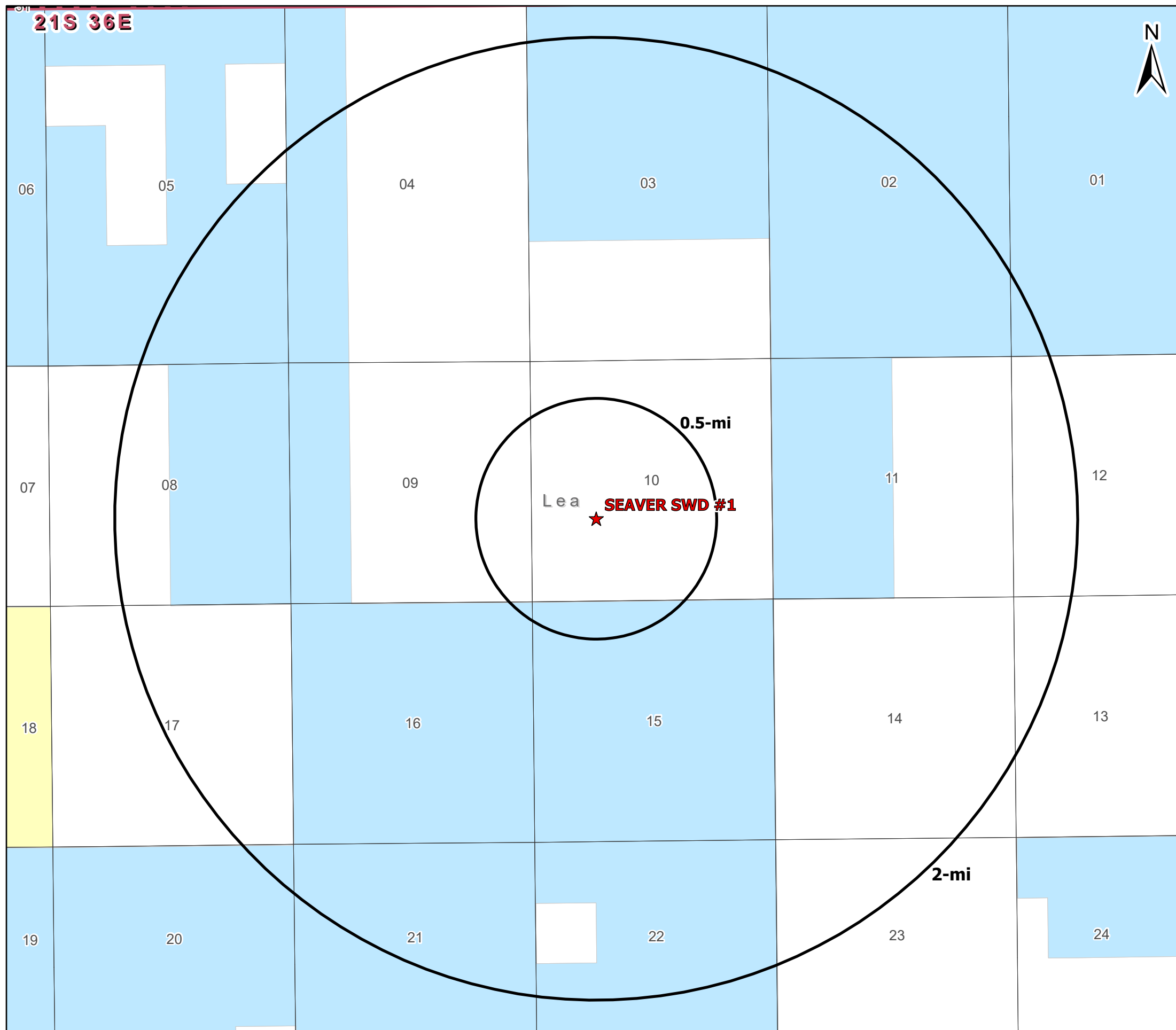
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



### Legend

★ Proposed SWD

### Surface Ownership

■ BLM

■ Private

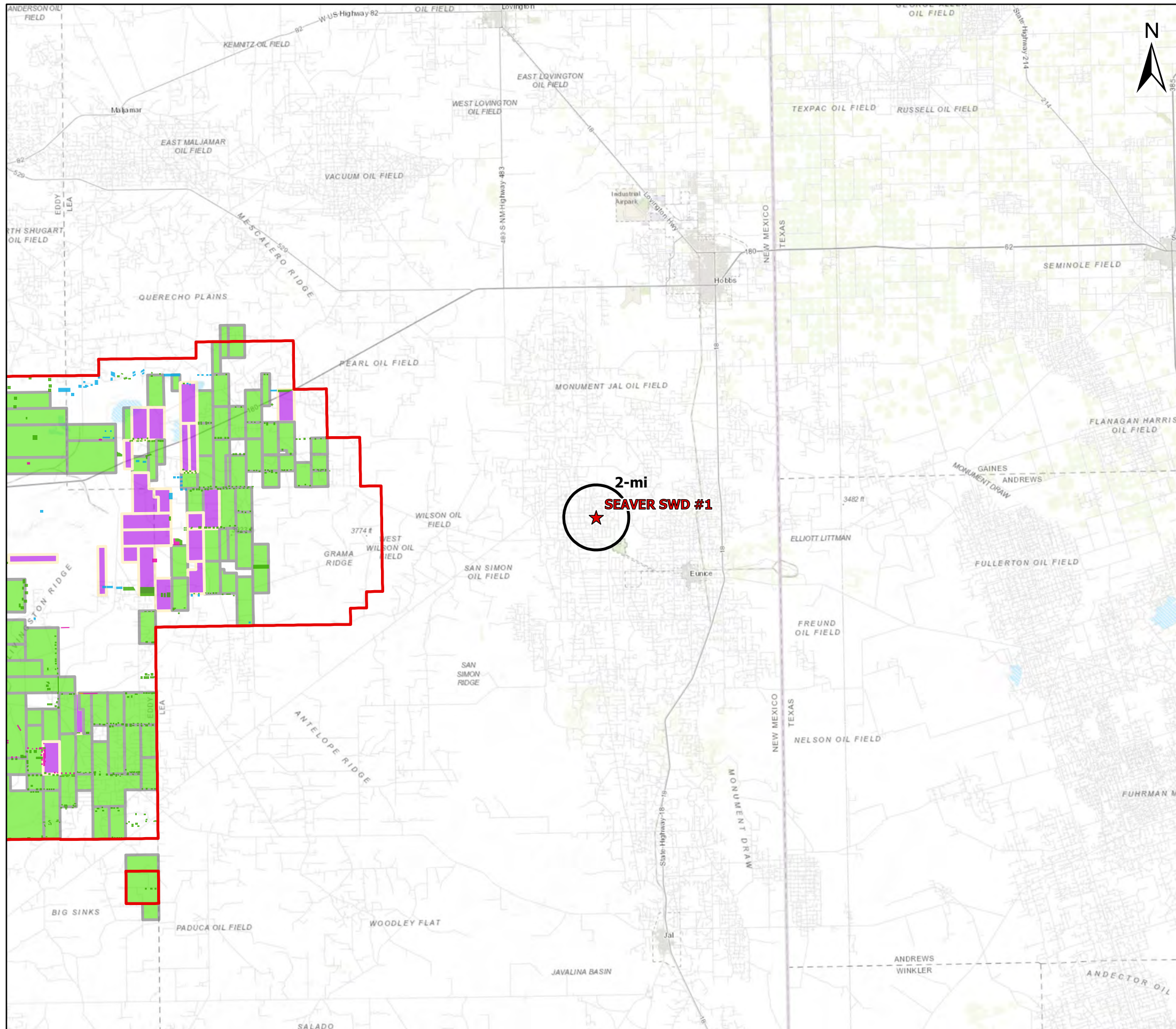
■ State

## Surface Ownership Area of Review

### SEAVR SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
---------------------------	--------------	------------------------------

Prepared for: 	Prepared by: 
-------------------	------------------



### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- #### Status, Depth Buffer
- Approved, Half Mile (288)
  - Approved, Quarter Mile (29)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- #### Status
- Approved (86)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>SEAVER SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses



Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

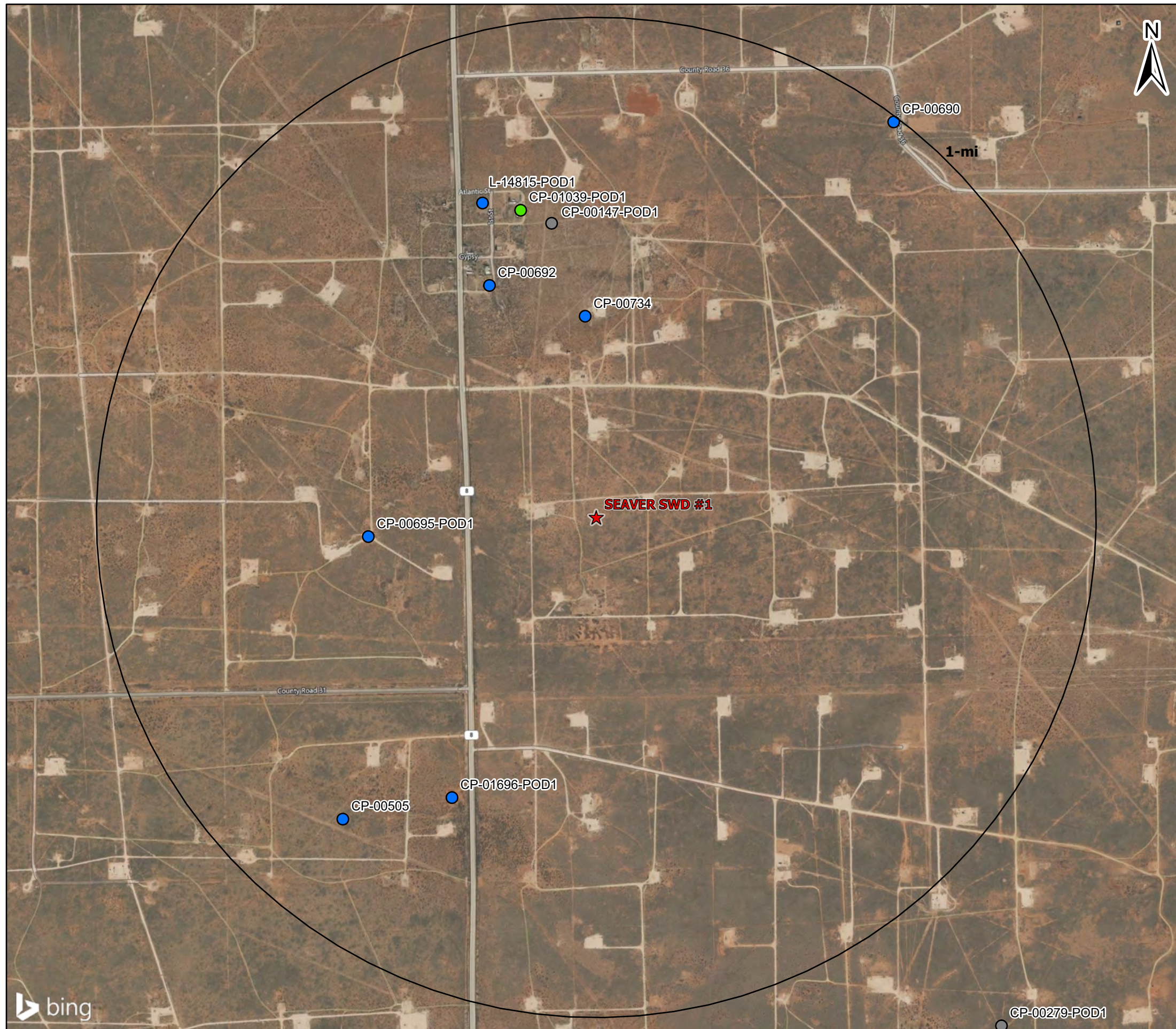
**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data



### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### SEAVER SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Water Well Sampling Rationale					
Goodnight Midstream Permian- Seaver SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00147-POD1	HUMBLE OIL & REFINING COMPANY	P.O. BOX 2100, Hobbs, NM, 88240	Commercial	No	Two water wells are already being sampled.
CP-00505	SNYDER RANCHES LTD.	P.O. BOX 726, Lovington, NM, 88260	Livestock Watering	No	Owner was unaware of a well at this location, believes there to be a caliche pit located there.
CP-00690	SUN EXPL. & PROD.	P.O. BOX 692, Tatum, NM, 88267	PRO	No	Two water wells are already being sampled.
CP-00692	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-00695-POD1	CHEVRON USA INC	P.O. BOX 670, Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well.
CP-00734	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-01039-POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	Sampled on 9/9/2021
CP-01696-POD1	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
L-14815-POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 575-390-7138 cell (carla)	Domestic	No	Two water wells are already being sampled.
<b>Note:</b>					



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September 17, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: JERAULD ANDERSON

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01039 POD 1	H212493-01	Water	09-Sep-21 10:30	09-Sep-21 11:12

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\*=Accredited Analyte

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**CP - 01039 POD 1  
H212493-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	342		5.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Chloride*	1000		4.00	mg/L	1	1090801	GM	09-Sep-21	4500-Cl-B	
Conductivity*	5030		1.00	umhos/cm @ 25°C	1	1090914	GM	09-Sep-21	120.1	
pH*	7.21		0.100	pH Units	1	1090914	GM	09-Sep-21	150.1	
Temperature °C	19.9			pH Units	1	1090914	GM	09-Sep-21	150.1	
Resistivity	1.99			Ohms/m	1	1090914	GM	09-Sep-21	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	1090915	GM	09-Sep-21	SM 2710F	
Sulfate*	1220		250	mg/L	25	1090803	GM	10-Sep-21	375.4	
TDS*	3420		5.00	mg/L	1	1090811	GM	13-Sep-21	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
TSS*	3.00		2.00	mg/L	1	1091005	GM	14-Sep-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Calcium*	199		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Hardness as CaCO3	971		3.31	mg/L	5	[CALC]	AES	16-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Magnesium*	115		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Potassium*	29.1		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Sodium*	787		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Strontium*	5.72		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1090801 - General Prep - Wet Chem**

<b>Blank (1090801-BLK1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1090801-BS1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	104	4.00	mg/L	100		104	80-120			

<b>LCS Dup (1090801-BSD1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

**Batch 1090803 - General Prep - Wet Chem**

<b>Blank (1090803-BLK1)</b>		Prepared: 08-Sep-21 Analyzed: 10-Sep-21								
Sulfate	ND	10.0	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090803 - General Prep - Wet Chem**

**LCS (1090803-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	22.0	10.0	mg/L	20.0		110	80-120			
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**LCS Dup (1090803-BSD1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	13.4	20	
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**Batch 1090811 - Filtration**

**Blank (1090811-BLK1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	ND	5.00	mg/L							
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**LCS (1090811-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	275		mg/L	300		91.7	80-120			
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**Duplicate (1090811-DUP1)** Source: H212440-02 Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	661	5.00	mg/L		699			5.59	20	
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**Batch 1090914 - General Prep - Wet Chem**

**LCS (1090914-BS1)** Prepared & Analyzed: 09-Sep-21

pH	7.04		pH Units	7.00		101	90-110			
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Conductivity	494		uS/cm	500		98.8	80-120			
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**Duplicate (1090914-DUP1)** Source: H212493-01 Prepared & Analyzed: 09-Sep-21

pH	7.23	0.100	pH Units		7.21			0.277	20	
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Conductivity	5060	1.00	umhos/cm @ 25°C		5030			0.595	20	
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Resistivity	1.98		Ohms/m		1.99			0.595	20	
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Temperature °C	20.0		pH Units		19.9			0.501	200	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090915 - General Prep - Wet Chem**

<b>Duplicate (1090915-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared &amp; Analyzed: 09-Sep-21</b>							
Specific Gravity @ 60° F	1.012	0.000	[blank]		1.004			0.806	20	

**Batch 1091005 - Filtration**

<b>Blank (1091005-BLK1)</b>	<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>									
TSS	ND	2.00	mg/L							

<b>Duplicate (1091005-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>							
TSS	4.00	2.00	mg/L		3.00			28.6	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212168 - Total Rec. 200.7/200.8/200.2**

**Blank (B212168-BLK1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

**LCS (B212168-BS1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	9.98	0.100	mg/L	10.0		99.8	85-115			
Iron	1.95	0.050	mg/L	2.00		97.6	85-115			
Barium	0.983	0.050	mg/L	1.00		98.3	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.53	1.00	mg/L	1.62		94.6	85-115			
Calcium	1.95	0.100	mg/L	2.00		97.3	85-115			
Strontium	1.90	0.100	mg/L	2.00		95.1	85-115			

**LCS Dup (B212168-BSD1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Iron	1.95	0.050	mg/L	2.00		97.7	85-115	0.137	20	
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115	0.568	20	
Magnesium	9.96	0.100	mg/L	10.0		99.6	85-115	0.237	20	
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115	1.19	20	
Sodium	1.55	1.00	mg/L	1.62		95.5	85-115	0.984	20	
Strontium	1.93	0.100	mg/L	2.00		96.3	85-115	1.22	20	
Barium	0.944	0.050	mg/L	1.00		94.4	85-115	4.10	20	

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\*=Accredited Analyte

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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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*Celey D. Keene*

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: <u>Lab. Services</u> Project Manager: <u>Dustin Armstrong</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Terraud Anderson</u> Project Location: <u>32.50083, -103.259567</u> Sampler Name: _____		<b>BILL TO</b> P.O. #: _____ Company: <u>Cell Central</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. <u>H012493</u> Sample I.D. <u>CP-01039 Pod 1</u>		MATRIX (G)RAB OR (C)OMP. <u>GA</u> # CONTAINERS <u>1</u> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ ACID/BASE: _____ ICE / COOL <input checked="" type="checkbox"/> OTHER: _____	
PREPARED BY: _____ DATE: <u>9-9-21</u> TIME: <u>1030</u>		SAMPLING ANALYSIS REQUEST <u>Cation/Anions</u> <u>Spec. Gravity</u> <u>TSS</u> <u>Resistivity</u> <u>Ba, Fe, Sr</u> <u>Total Hardness</u>	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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: <u>Cedar D. St</u> Date: <u>11/2</u> Time: _____ Relinquished By: _____		Received By: <u>Jawana White</u> Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>5.8</u> Corrected Temp. °C _____		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) <u>JD</u> Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	
REMARKS: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____			

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



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September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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





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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control  
Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1083009 - Filtration**

<b>Blank (1083009-BLK1)</b>				Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	ND	2.00	mg/L							
<b>Duplicate (1083009-DUP1)</b>				Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	2.00	2.00	mg/L		2.00			0.00	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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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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Celey D. Keene

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: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Project #: _____ Project Owner: <b>Wilburta Travis</b> Project Location: _____ City: _____ State: _____ Zip: _____ Sampler Name: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. <b>GA</b> # CONTAINERS <b>1</b> MATRIX: <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER: _____ PRESERV: _____ ICE / COOL _____ OTHER: _____ DATE <b>8-25-20</b> TIME <b>2:15</b>	
Date: <b>8-24-21</b> Time: <b>3:15</b> Date: _____ Time: _____ Relinquished By: <i>[Signature]</i> Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <b>5.9</b> Corrected Temp. °C _____ Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <b>TP</b> (Initials)		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> <input checked="" type="checkbox"/> Bacteria Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition: _____ Observed Temp. °C _____ Corrected Temp. °C _____	

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.

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



**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Seaver SWD #1  
Located 6.8 miles northwest of Eunice, NM  
UL K, Section 10, Township 21S, Range 36E  
1,809 FSL & 1,428' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

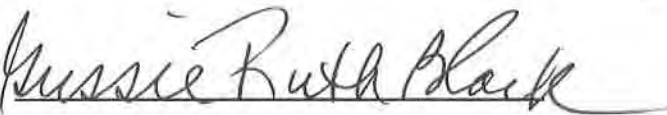
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



Business Manager

My commission expires  
January 29, 2027

(Seal)

**STATE OF NEW MEXICO  
NOTARY PUBLIC  
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COMMISSION # 1087528  
COMMISSION EXPIRES 01/29/2027**

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**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

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Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278374**

67115320

00278374

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

<b>Seaver SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
XTO Energy Inc. (XTO ENERGY INC.)	500 W. Illinois, Suite 100	Midland	TX	79701
ConocoPhillips Company (CONOCOPHILLIPS COMPANY)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC) (CHEVRON USA INC)	6301 Deauville Blvd.	Midland	TX	79706
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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XTO Energy Inc  
500 W ILLINOIS AVE STE 100  
MIDLAND TX 79701-4337

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Seaver SWD well permit

Lot K, Section 10, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

Date