



August 17, 2020

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

Subject: Goodnight Midstream Permian, LLC – Pedro 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 Pedro 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

Revised March 23, 2017

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

**FOR OCD ONLY**

- ☐ Notice Complete  
☐ Application Content Complete

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

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

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

*Nathan Adema*  
 \_\_\_\_\_

Signature

\_\_\_\_\_  
 Date

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

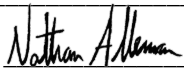
\_\_\_\_\_  
 e-mail Address

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: Nate Alleman TITLE: Regulatory Specialist - Consultant  
SIGNATURE:  DATE: 08/17/2020  
E-MAIL ADDRESS: nalleman@all-llc.com
- \* 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: Pedro 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: Pedro SWD #1  
Location Footage Calls: 1,045 FSL & 1,067 FEL  
Legal Location: Unit Letter M, S28 T21S R36E  
Ground Elevation: 3,521'  
Proposed Injection Interval: 4,360' – 6,380'  
County: Lea

##### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	14.75"	13.375"	68.0 lb/ft	1,500'	350	Surface	Circulation
Production	12.25"	9.625"	53.5 lb/ft	6,480'	2,170	Surface	Circulation
Tubing	-	5.5"	composite	4,330'	N/A	N/A	N/A

##### (3) Tubing Information:

5.5" (composite weight string) of fiberglass-coated tubing with setting depth of 4,330'

##### (4) Packer Information: Baker SC-2 or equivalent packer set at 4,330'

#### B.

##### (1) Injection Formation Name: San Andres - Glorieta

**Pool Name:** SWD; SAN ANDRES - Glorieta

**Pool Code:** 96127

##### (2) Injection Interval: Perforated injection between 4,360' – 6,380'

##### (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.

- Penrose (3,820)

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

- Paddock (6,500')

## 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
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership map
- Potash Lease Map

## VI – AOR Well List

There are 10 wells within the 1/2-mile AOR, but none of the wells penetrate the proposed injection zone.

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

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 29,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 872 psi (surface)  
**Proposed Average Injection Pressure:** approximately 436 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the 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 and Glorieta formations which are a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the San Andres and Glorieta formations in the area are included in **attachment 4**.

## VIII – Geologic Description

- **San Andres/Glorieta Injection Formations:** The injection interval consists of the San Andres and Glorieta Formations at depths of 4,360 ft – 6,380 ft. These formations consist of interbedded carbonate rocks including dolomites, siltstones, and sands.
- **Confining Layers:**
  - **Upper Confinement:** The injection formations are confined from overlying production by layers of low porosity anhydrites and dolomites located in the top of both the San Andres and Grayburg formations that are not capable of transmitting fluid.
  - **Lower Confinement:** The injection formations are confined from potential underlying production formations by layers of low permeability rock located between the Glorieta and Paddock porosity intervals.
- **Lowermost Underground Source of Drinking Water (USDW):** The Rustler Formation is the lowermost USDW in the area and has a base of approximately 1,470 ft. Water well depths in the area range from approximately 225 – 300 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, there are no groundwater wells located within 1 mile of the proposed SWD location. Therefore, no water samples have been collected.

A water well map, details of water wells within 1-mile, and any associated water analyses 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.

## **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:** C-102 & Wellbore Diagram

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

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 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 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 Rd., 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, New Mexico 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	Pool Code 96127	Pool Name SWD; San Andres-Glorieta
Property Code	Property Name PEDRO SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3521.2'


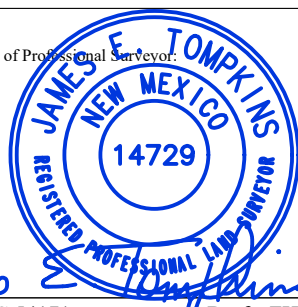
### Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	21-S	36-E		1045	SOUTH	1067	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		Consolidated 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.

<b>NW CORNER</b> <b>NMSP-E (NAD 83)</b> N.(Y): = 531629.2' E.(X): = 866562.6' LAT.: = 32.4570978° N LON.: = 103.2789405° W <b>NMSP-E (NAD 27)</b> N.(Y): = 531567.7' E.(X): = 825378.4' LAT.: = 32.4569726° N LON.: = 103.2784679° W	<b>NORTH QUARTER CORNER</b> <b>NMSP-E (NAD 83)</b> N.(Y): = 531659.8' E.(X): = 869191.7' LAT.: = 32.4571102° N LON.: = 103.2704171° W <b>NMSP-E (NAD 27)</b> N.(Y): = 531598.3' E.(X): = 828007.4' LAT.: = 32.4569850° N LON.: = 103.2699449° W	<b>NE CORNER</b> <b>NMSP-E (NAD 83)</b> N.(Y): = 531694.8' E.(X): = 871848.7' LAT.: = 32.4571335° N LON.: = 103.2618034° W <b>NMSP-E (NAD 27)</b> N.(Y): = 531633.3' E.(X): = 830664.2' LAT.: = 32.4570082° N LON.: = 103.2613316° W	<b>OPERATOR CERTIFICATION</b> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">         Signature     </div> <div style="text-align: right;">       08/17/2020        Date     </div> </div> <div style="margin-top: 10px;">       Nate Alleman        Print Name     </div> <div style="margin-top: 10px;">       nalleman@all-llc.com        E-mail Address     </div>
<b>WEST QUARTER CORNER</b> <b>NMSP-E (NAD 83)</b> N.(Y): = 528988.9' E.(X): = 866589.5' LAT.: = 32.4498405° N LON.: = 103.2789378° W <b>NMSP-E (NAD 27)</b> N.(Y): = 528927.4' E.(X): = 825405.2' LAT.: = 32.4497153° N LON.: = 103.2784654° W	<b>EAST QUARTER CORNER</b> <b>NMSP-E (NAD 83)</b> N.(Y): = 529050.3' E.(X): = 871873.8' LAT.: = 32.4498647° N LON.: = 103.2618080° W <b>NMSP-E (NAD 27)</b> N.(Y): = 528988.8' E.(X): = 830689.3' LAT.: = 32.4497394° N LON.: = 103.2613364° W	<b>SURVEYORS CERTIFICATION</b> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center; margin-top: 10px;"> <b>JUNE 25, 2020</b>        Date of Survey     </div> <div style="margin-top: 10px;">       Signature and Seal of Professional Surveyor:       <div style="float: right; text-align: right;">  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>       Job No.: WTC 54171     </div> <div>       Draft: FH!     </div> </div> <div style="margin-top: 10px;">       JAMES E. TOMPKINS 14729        Certificate Number     </div>	

**SHL:**

1045' FSL, 1067' FEL

GR. ELEV. 3521.2'

**NMSP-E (NAD 83)**

N.(Y): = 527451.6'

E.(X): = 870821.9'

LAT.: = 32.4455000° N

LON.: = 103.2652694° W

**NMSP-E (NAD 27)**

N.(Y): = 527390.2'

E.(X): = 829637.4'

LAT.: = 32.4453747° N

LON.: = 103.2647978° W

1045'

1067'

**SOUTH QUARTER CORNER**

**NMSP-E (NAD 83)**

N.(Y): = 526388.9'

E.(X): = 869258.2'

LAT.: = 32.4426223° N

LON.: = 103.2703718° W

**NMSP-E (NAD 27)**

N.(Y): = 526327.6'

E.(X): = 828073.8'

LAT.: = 32.4424970° N

LON.: = 103.2698999° W

**SOUTHEAST CORNER**

**NMSP-E (NAD 83)**

N.(Y): = 526418.3'

E.(X): = 871899.4'

LAT.: = 32.4426305° N

LON.: = 103.2618106° W

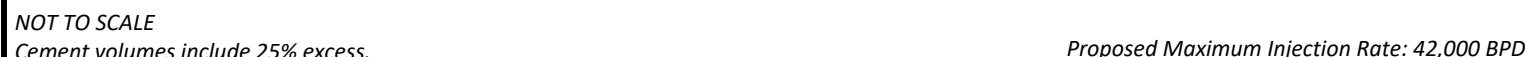
**NMSP-E (NAD 27)**

N.(Y): = 526356.9'

E.(X): = 830714.9'

LAT.: = 32.4425051° N

LON.: = 103.2613392° W



**Goodnight Midstream Permian, LLC**  
Pedro SWD #1  
API# TBD  
1,045' FSL & 1,067' FEL, Unit M of Sec 28-T21S-R36E  
Lea County, New Mexico

## A-3 and AL-2 LOK-SET Retrievable Casing Packers

Product Family No. H64630 and H64628

### APPLICATION

The A-3™ LOK-SET™ packer combines advantages of a retrievable packer with the features of a permanent packer. An ability to lock down tubing forces makes the A-3 suitable for a broad range of applications, including production, injection, zone isolation, and remedial operations. The AL-2™ LOK-SET packer is similar to the A-3, and has a larger bore.

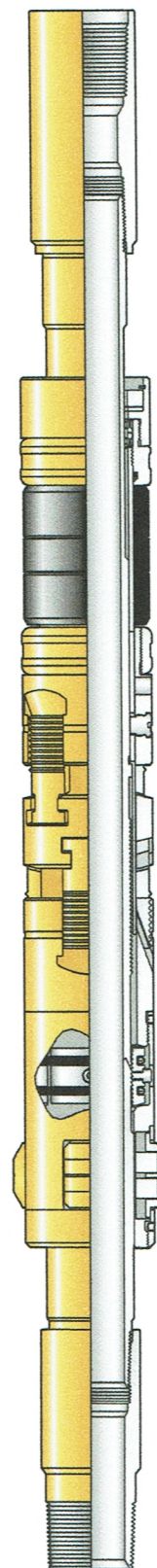
### Advantages

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, controlling tubing forces related to change fluid temperatures
- Opposed, non-transferring, dovetail slips prevent packer movement associated with changing differential pressures, while allowing the landing of the tubing in tension, neutral or compression
- Right-hand tubing rotation controls setting and releasing
- Packing element compression locks in by ratcheting action of lock segments, which restricts rotation to one direction

### Accessories

To provide a simple and reliable injection system for retrieving an injection string without having to unseat the packer:

L-10 or L-316 on-off sealing connectors, Product Family Nos. H68420 and H68422. Baker Hughes blanking plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



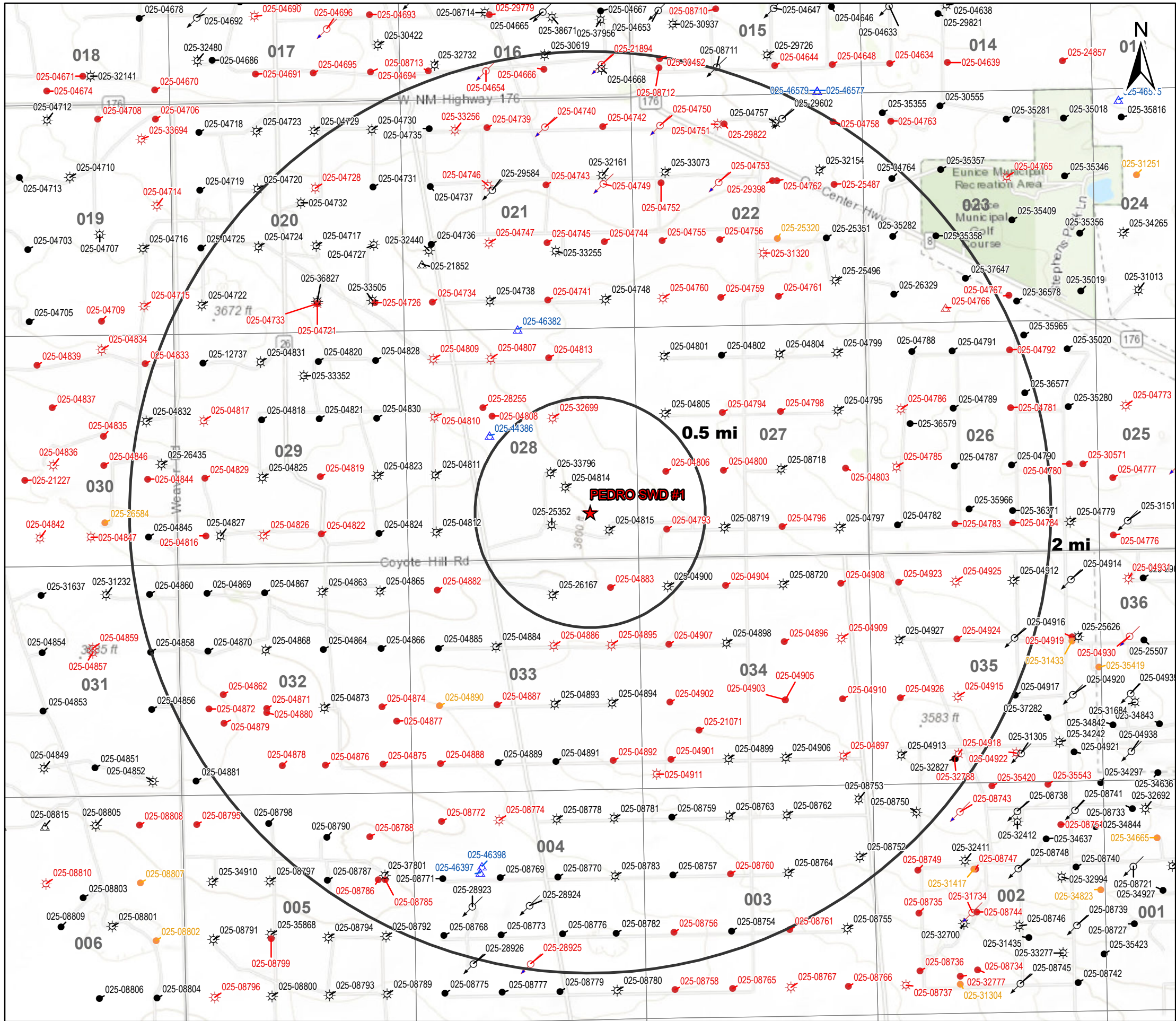
A-3 LOK-SET  
Retrievable Casing Packer  
Product Family No. H64630

**Attachment 2**

Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





## Legend

- ★ Proposed SWD
- ☼ Gas, Active (114)
- ☼ Gas, Plugged (44)
- ↻ Injection, Active (25)
- ↻ Injection, Plugged (12)
- Oil, Active (110)
- Oil, Plugged (124)
- Oil, Temporarily Abandoned (12)
- △ Salt Water Injection, Active (3)
- △ Salt Water Injection, New (7)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 5/28/2020  
(<http://www.emnrd.state.nm.us/OCD/ocdgis.html>)

## O&G Wells Area of Review

### PEDRO SWD #1 Lea County, New Mexico

Proj Mgr:  
Dan Arthur

June 01, 2020

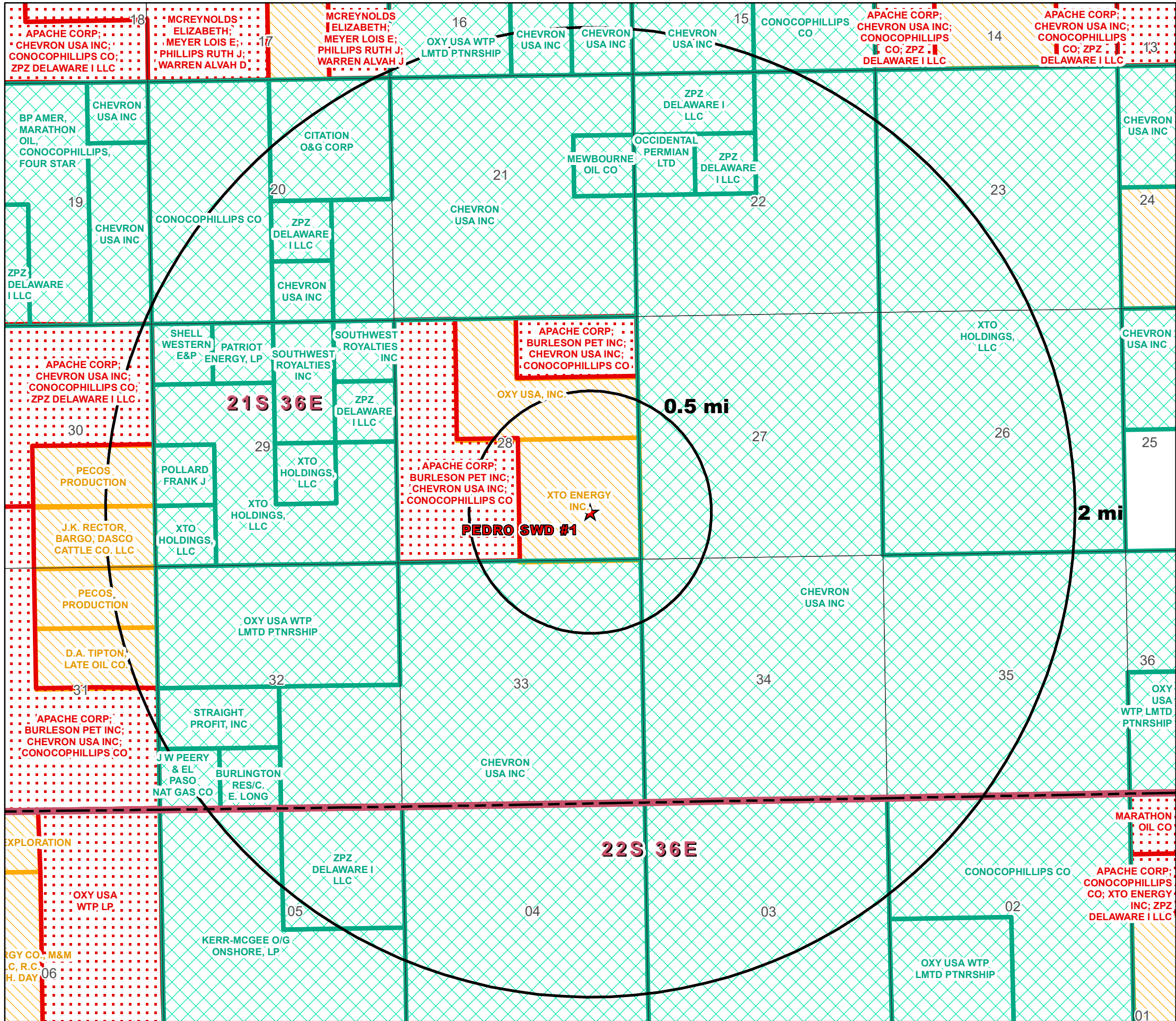
Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALLCONSULTING**

AOR Tabulation for Pedro SWD #1 (Injection Interval: 4,360' - 6,380')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
W A RAMSAY NCT A #002	30-025-04793	Plugged	CHEVRON U S A INC	1/31/1938	M-27-21S-36E	Plugged (3,895)	No
W A RAMSAY NCT A #047	30-025-04806	Plugged	CHEVRON U S A INC	12/15/1959	L-27-21S-36E	Plugged (3,865)	No
FELTON #004	30-025-32699	Plugged	OXY USA WTP LIMITED PARTNERSHIP	11/3/1994	G-28-21S-36E	Plugged (4,000)	No
S E FELTON #005	30-025-33796	Gas	PENROC OIL CORP	3/10/1997	J-28-21S-36E	3,803	No
S E FELTON #002	30-025-25352	Gas	PENROC OIL CORP	1/28/1977	O-28-21S-36E	3,950	No
LOCKHART B 28 #006	30-025-04814	Gas	PENROC OIL CORP	4/6/1958	A-28-21S-36E	3,950	No
S E FELTON #001	30-025-04815	Gas	PENROC OIL CORP	10/6/1937	P-28-21S-36E	3,885	No
PRE-ONGARD WELL #002	30-025-04883	Plugged	PRE-ONGARD WELL OPERATOR (Gulf Oil Corporation)	9/19/1938	A-33-21S-36E	Plugged (3,885)	No
ARNOTT RAMSAY NCT D #015	30-025-26167	Gas	XTO ENERGY, INC	12/12/1978	B-33-21S-36E	3,950	No
W A RAMSAY NCT A #048	30-025-04900	Gas	XTO ENERGY, INC	1/1/1960	D-34-21S-36E	3,972	No
<b>Notes:</b> No wells within a 1/2-mile AOR penetrated the injection interval.							





Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases
- Unleased Minerals - Private Owned



Mineral Lease  
Area of Review

PEDRO SWD #1  
Lea County, New Mexico

Proj Mgr:  
Dan Arthur

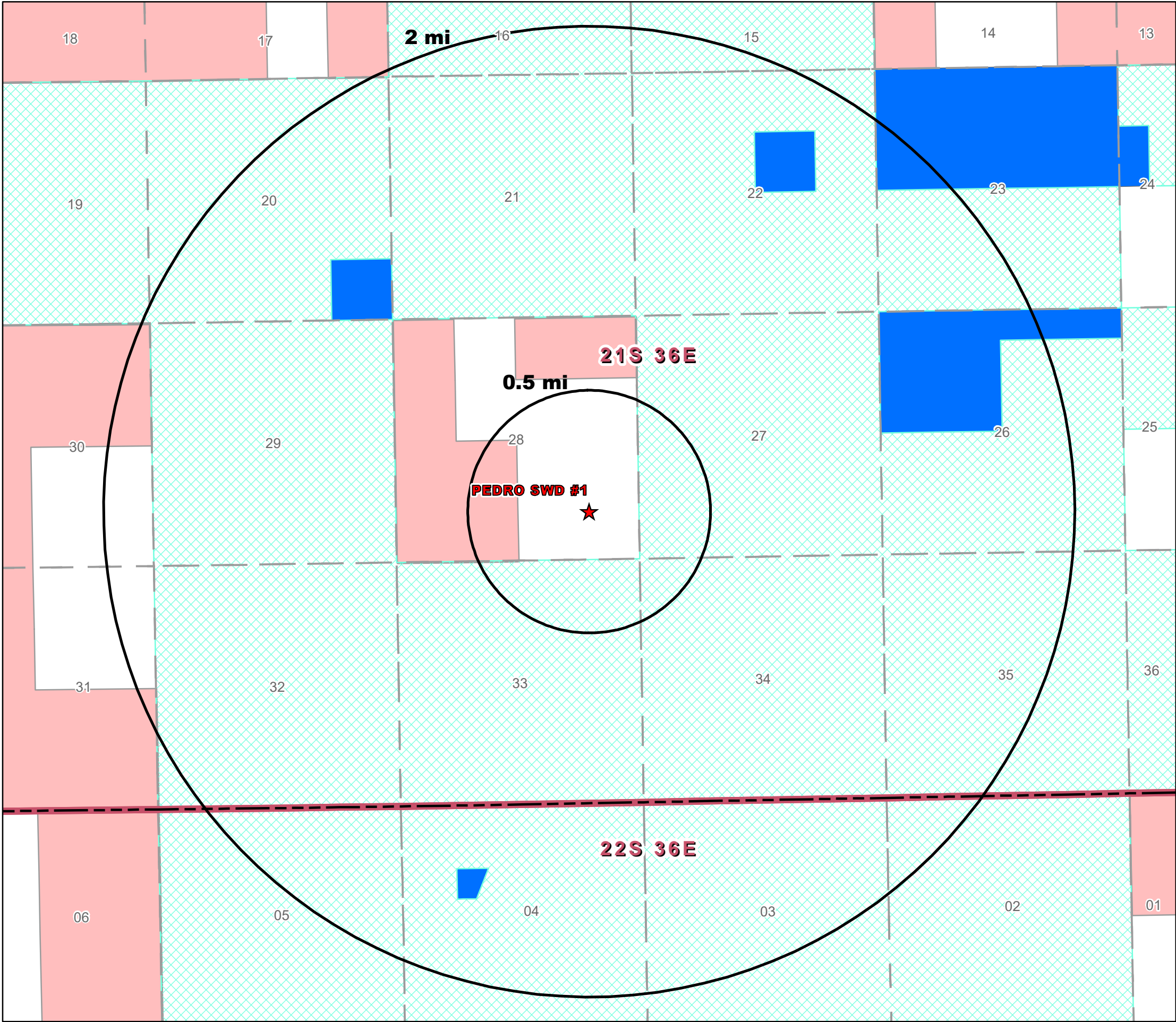
July 16, 2020

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING









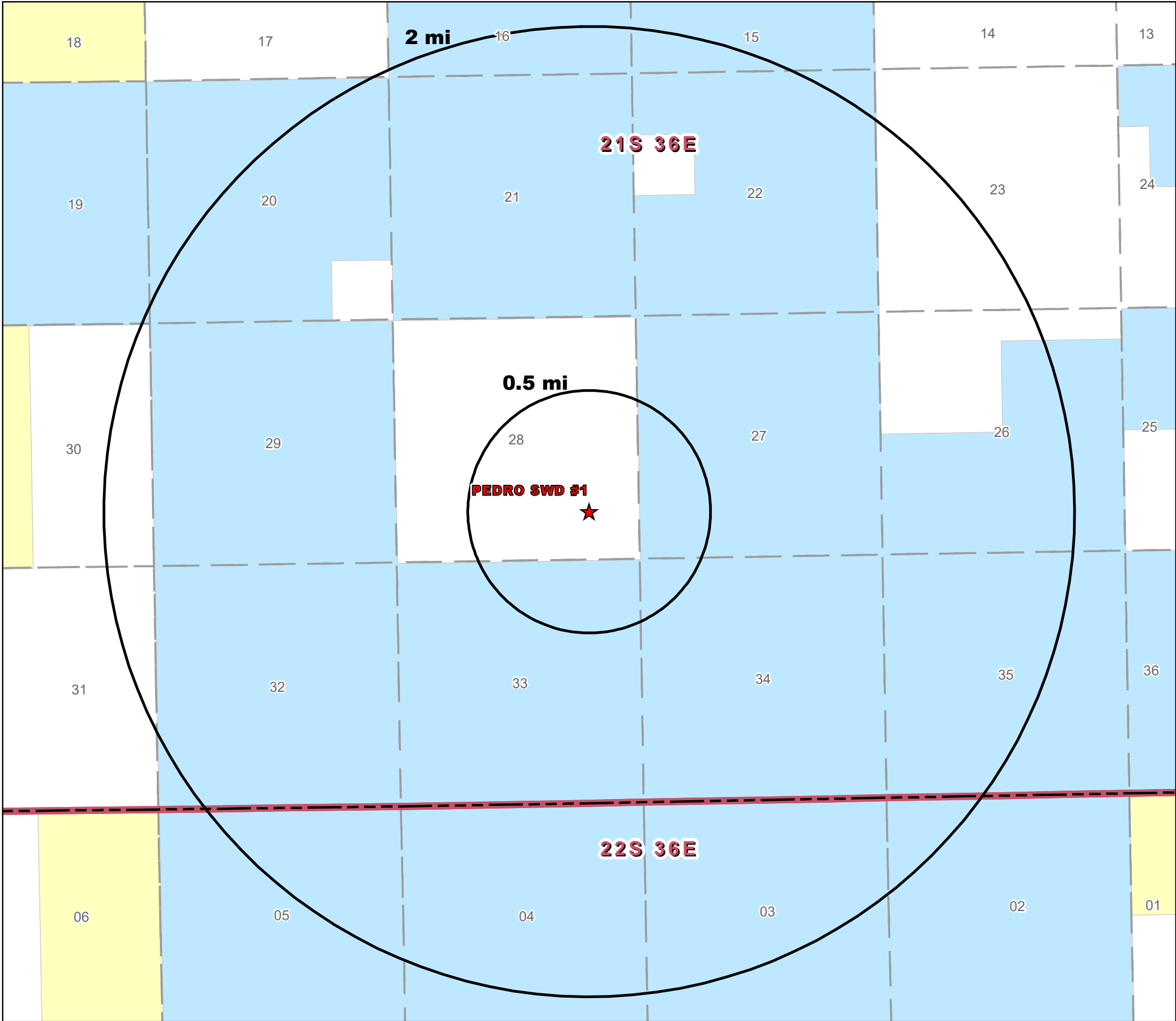
**Legend**

★ Proposed SWD

**Mineral Ownership**

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

<b>Mineral Ownership Area of Review</b>		
<b>PEDRO SWD #1</b> Lea County, New Mexico		
Proj Mgr: Dan Arthur	June 02, 2020	Mapped by: Ben Bockelmann
Prepared for: 		Prepared by: 



Legend

★ Proposed SWD

Surface Ownership

BLM

Private

State



Surface Ownership  
Area of Review

PEDRO SWD #1  
Lea County, New Mexico

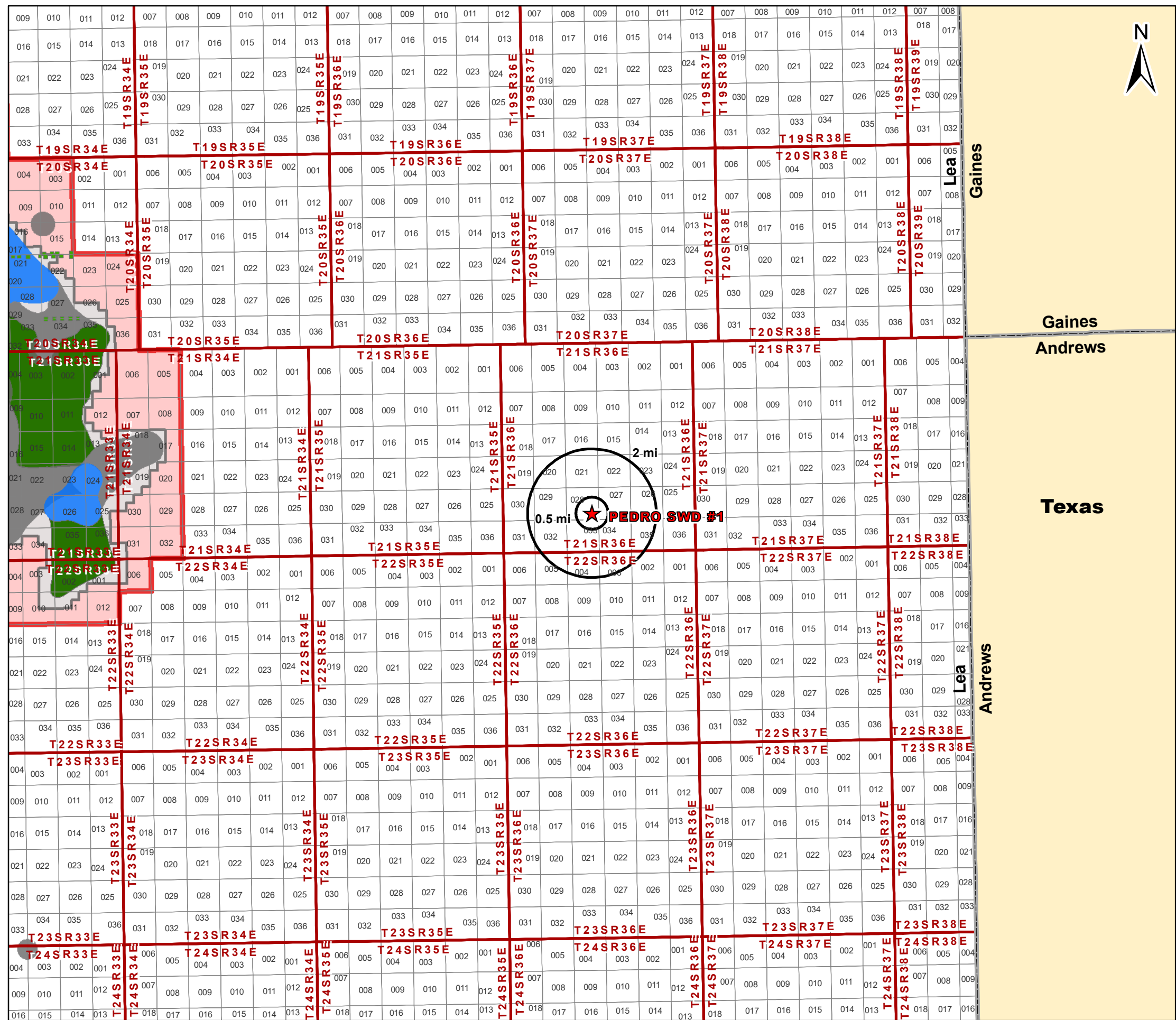
Proj Mgr:  
Dan Arthur

June 02, 2020

Mapped by:  
Ben Bockelmann



Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



## Legend

- ★ Proposed SWD
- Ore Type - Measured
- Ore Type - Indicated
- Ore Type - Inferred
- KPLA
- SOPA
- Drill Islands
- Status
- Approved

## Potash Leases Area of Review

### PEDRO SWD #1 Lea County, New Mexico

Proj Mgr:  
Dan Arthur

June 02, 2020

Mapped by:  
Ben Bockelmann

Prepared for:

**GOODNIGHT**  
MIDSTREAM

Prepared by:

**ALL**CONSULTING



**Attachment 3**

Source Water Analyses

## PRODUCED WATER FROM BONE SPRING, DELAWARE, DEVONIAN, WOLFCAMP

API	SECTION	TOWNSHIP	RANGE	FORMATION	tds mgL	chloride mgL	bicarbonate mgL	sulfate mgL
3002502424	11	20S	34E	BONE SPRING	29436	16720	634	1142
3002502427	12	20S	34E	BONE SPRING	15429			
3002502427	12	20S	34E	BONE SPRING	180701	108300	1016	670
3002502429	12	20S	34E	BONE SPRING	202606	118100	5196	992
3002502429	12	20S	34E	BONE SPRING	121800			
3002502431	12	20S	34E	BONE SPRING	147229	89640	108	1038
3002531696	2	20S	34E	DELAWARE	152064	102148	404	691
3002532105	2	20S	34E	DELAWARE	296822	215237	143	294
3002532466	2	20S	34E	DELAWARE	340838	245270	229	147
3002502427	12	20S	34E	DELAWARE	214787	132700	208	1816
3002502431	12	20S	34E	DEVONIAN	33414	18570	227	1961
3002502432	13	20S	34E	DEVONIAN	45778	26440	1145	729
3002501912	16	16S	34E	WOLFCAMP	164004	102500	4204	1249
3002501922	20	16S	34E	WOLFCAMP	104541	64290	280	541
3002501922	20	16S	34E	WOLFCAMP	104033	64080	268	515
3002501922	20	16S	34E	WOLFCAMP	105175	65570	207	192
3002501925	21	16S	34E	WOLFCAMP	86355	51800	610	665
3002501928	21	16S	34E	WOLFCAMP	119102	73300	227	454
3002501928	21	16S	34E	WOLFCAMP	35422	19170	979	1949
3002501930	22	16S	34E	WOLFCAMP	30015	14800	750	3300
3002501931	22	16S	34E	WOLFCAMP	87680	53000	301	681
3002501933	28	16S	34E	WOLFCAMP	59960	35100	515	1500
3002501933	28	16S	34E	WOLFCAMP	60309	35350	586	1297
3002501940	30	16S	34E	WOLFCAMP	82422	49890	361	787
3002501944	30	16S	34E	WOLFCAMP	83960	51410	418	641
3002502022	27	16S	34E	WOLFCAMP	85457	51020	544	1201
3001542895	2	23S	31E	WOLFCAMP	119472	73173		1036

EXHIBIT F

**Attachment 4**

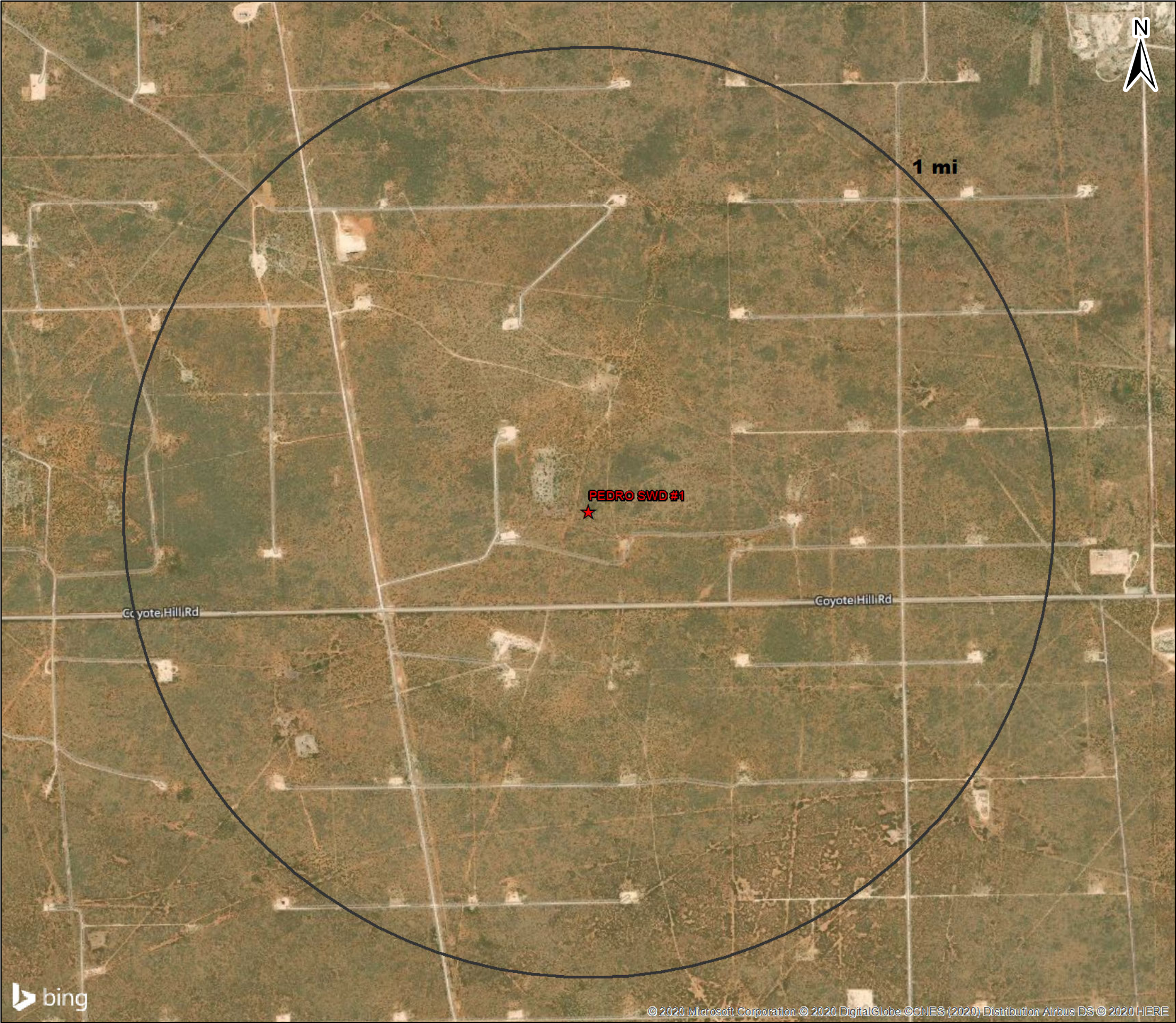
Injection Formation Water Analyses

Injection Formation Water Analysis																	
Goodnight Midstream Permian, LLC - San Andres & Glorieta Formations																	
WellName	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgew	County	State	Field	Formation	TDS (Mg/L)	Chloride (Mg/L)	Bircarbonate (Mg/L)	Sulfate (Mg/L)
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365.0	36,905.0	560.0	1,460.0
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245.0	564.0	489.0
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361.0	36,900.0	560.0	1,460.0
C H WEIR A #007	3002506073	32.5858192	-103.2114944	12	20S	37E	L	1985S	660W	LEA	NM	SKAGGS	GLORIETA	135,670.0	79,600.0	1,680.0	3,100.0
APACHE STATE Q #001	3002506116	32.5712776	-103.255394	16	20S	37E	J	1980S	2310E	LEA	NM	MONUMENT	GLORIETA	19,087.0	8,250.0	430.0	3,400.0
EUNICE MONUMENT UNIT #031	3002506169	32.5531693	-103.2843781	19	20S	37E	P	660S	660E	LEA	NM	EUNICE	SAN ANDRES	91,120.0	59,850.0	-	722.0
EUNICE KING #024	3002506864	32.4513855	-103.1740341	28	21S	37E	E	2086N	760W	LEA	NM	SWD	SAN ANDRES	97,871.0	57,350.0	223.0	3,405.0
EUNICE KING #024	3002506864	32.4513855	-103.1740341	28	21S	37E	E	2086N	760W	LEA	NM	SWD	SAN ANDRES	57,304.0	31,970.0	618.0	3,301.0
V M HENDERSON #002	3002506908	32.4553299	-103.1957474	30	21S	37E	A	660N	660E	LEA	NM	BLINEBRY	GLORIETA	138,153.0	81,610.0	744.0	2,735.0
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653.0	46,510.0	580.0	2,184.0
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540.0	43,500.0	755.0	5,950.0
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766.0			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925.0	5,312.0	1,620.0	201.0
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895.0	38,010.0	488.0	2,100.0
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,946.6	6,526.6	19.8	236.3
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587.3	9,460.0	13.2	2,517.7
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192.4	4,442.6	12.3	1,491.3
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,867.5	9,040.2	24.0	112.3
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,827.5	7,297.7	17.7	1,388.8
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957.4	8,867.1	17.9	405.8
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215.2	6,494.7	2,528.5	191.1
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,823.9	7,018.4	2,343.5	207.3

**Attachment 5**

Water Well Map and Well Data





Legend

★ Proposed SWD

NMOSE PODs

Status

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

Water Wells Area of Review

**PEDRO SWD #1**  
Lea County, New Mexico

Proj Mgr: Dan Arthur	June 02, 2020	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALL</b> CONSULTING



Water Well Sampling Rationale						
Goodnight Midstream Permian, LLC - Pedro SWD #1						
Water Wells	Owner	Available Contact Information	Use	Coordinates	Sampling Required	Notes
Notes: No water wells are located within 1-mile of the proposed Pedro SWD #1 location.						

**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, Suite 850, 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: Pedro SWD #1  
Located 6.25-miles west of Eunice, NM  
SE ¼ SE ¼, Section 28, Township 21S, Range 36E  
1,045' FSL & 1,067' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres – Glorieta (4,360' – 6,380')

EXPECTED MAXIMUM INJECTION RATE: 42,000 bbl/day

EXPECTED MAXIMUM INJECTION PRESSURE: 872 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

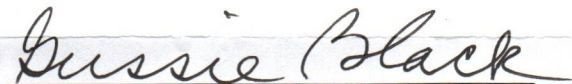
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
July 30, 2020  
and ending with the issue dated  
July 30, 2020.



Publisher

Sworn and subscribed to before me this  
30th day of July 2020.

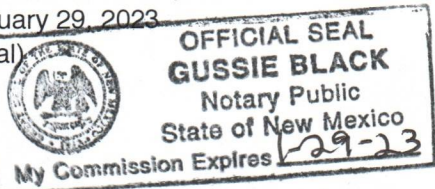


Business Manager

My commission expires

January 29, 2023

(Seal)



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

LEGAL

## LEGAL NOTICE July 30, 2020

### APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Suite 850, 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: Pedro SWD #1  
Located 6.25-miles west of Eunice, NM  
SE ¼ SE ¼, Section 28, Township 21S, Range 36E  
1.045' FSL & 1.067' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres - Glorieta (4,360' - 6,380')  
EXPECTED MAXIMUM INJECTION RATE: 42,000  
bbl/day  
EXPECTED MAXIMUM INJECTION PRESSURE:  
872 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.  
#35693

67115320

00244846

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

Pedro SWD #1 - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
Landowner				
Dasco Cattle Company, LLC	P.O. Box 727	Hobbs	NM	88241
OCD District				
NMOCD District 1	1625 North French Drive	Hobbs	NM	88240
Mineral Owner				
Dasco Cattle Company, LLC	P.O. Box 727	Hobbs	NM	88241
Leasehold Operators				
Apache Corporation (APACHE CORP)	303 Vets Airpark Lane, Suite 3000	Midland	TX	79705
Burleson Petroleum, Inc (BURLESON PET INC)	P.O. Box 2479	Midland	TX	79702
Chevron USA Inc. (CHEVRON USA INC)	6301 Deauville	Midland	TX	79706
Commision of Public Lands - State Lands Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
ConocoPhillips Company (CONOCOPHILLIPA CO)	P.O. Box 7500	Bartlesville	OK	74005
New Mexico BLM	620 East Greene St.	Carlsbad	NM	88220
Oxy USA Inc. (OXY USA, INC.)	P.O. Box 27570	Houston	TX	77227
Penrock Oil Corporation (PENROC OIL CORP)	P.O. Box 2769	Hobbs	NM	88241
XTO Energy Incorporated (XTO ENERGY INC.)	500 West Illinois Sve, Suite 100	Midland	TX	79701
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 1-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 1-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				



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Hobbs NM 88240-9273

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Midland TX 79705-4561

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Midland TX 79706-2964

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Bartlesville OK 74005-7500



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9414 8118 9956 3625 6310 85

New Mexico BLM  
620 East Greene Street  
Carlsbad NM 88220-6292

Commission of Public Lands  
States Lands Office  
310 Old Santa Fe Trail  
Santa Fe NM 87501-2708

**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 Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 9775

**CONDITIONS**

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 9775
	Action Type: [C-108] Fluid Injection Well (C-108)

**CONDITIONS**

Created By	Condition	Condition Date
drose	Permittee shall comply with the following special conditions: Prior to commencing injection, the Operator shall obtain a formation water sample to ensure the injection interval TDS is below 10,000 mg/L and submit the analysis to the District office as well as the Santa Fe Engineering Bureau.	7/16/2021
drose	Applicant shall abide by order as stipulated in: UIC CLASS II PERMIT SWD-2391	7/16/2021