

# Initial Application Part I

Received 9/17/21

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*

RECEIVED: <b>9/17/21</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2126055537</b>
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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:** Piazza SWD #1 **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

**SWD-2458**

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

9/16/2021  
Date

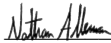
\_\_\_\_\_  
Print or Type Name

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

Nathan Adema  
Signature

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

**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 Regulatory Specialist - Consultant  
SIGNATURE:  DATE: 9-16-2021  
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: \_\_\_\_\_

Application for Authorization to Inject  
Well Name: Piazza 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: Piazza SWD 1  
Location Footage Calls: 1,847 FSL & 2,537 FWL  
Legal Location: Unit Letter K, S9 T21S R36E  
Ground Elevation: 3,509'  
Proposed Injection Interval: 4,125' – 5,400'  
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	1,445'	1,180	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	40.0 lb./ft	5,450'	1,400	Surface	Circulation/ CBL
Tubing	N/A	5-1/2"	Composite weight string	4,100'	N/A	N/A	N/A

##### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,100'

(4) **Packer Information:** Baker Hornet or equivalent packer set at 4,100'

#### B.

(1) **Injection Formation Name:** San Andres

**Pool Name:** SWD; SAN ANDRES

**Pool Code:** 96121

(2) **Injection Interval:** Perforated injection between 4,125' – 5,400'

(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 (3,733')

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

- Glorieta (5,410')
- 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
- 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 three wells that penetrate the injection zone, one of which has been properly plugged and abandoned, while the other two wells have been constructed, and plugged back to properly isolate the San Andres. A wellbore diagram and casing information for each of these wells is also included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 40,000 bpd  
**Proposed Average Injection Rate:** 25,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 825 psi (surface)  
**Proposed Average Injection Pressure:** approximately 495 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 4,125 – 5,400 feet. This formation consists of interbedded carbonate rocks including dolomites and limestones. 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 195 – 213 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 for CP-01696 POD 1 are included in **Attachment 5**. Water sampling results for CP-01039 POD 1 will be provided to NMOCD once they are received from the lab.

## **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**.

### 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.

# 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 <b>96121</b>	Pool Name <b>SWD; SAN ANDRES</b>
Property Code	Property Name <b>PIAZZA SWD</b>	Well Number <b>1</b>
OGRID No. <b>372311</b>	Operator Name <b>GOODNIGHT MIDSTREAM PERMIAN, LLC</b>	Elevation <b>3508.8'</b>

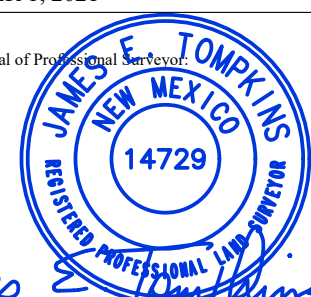
Surface Location

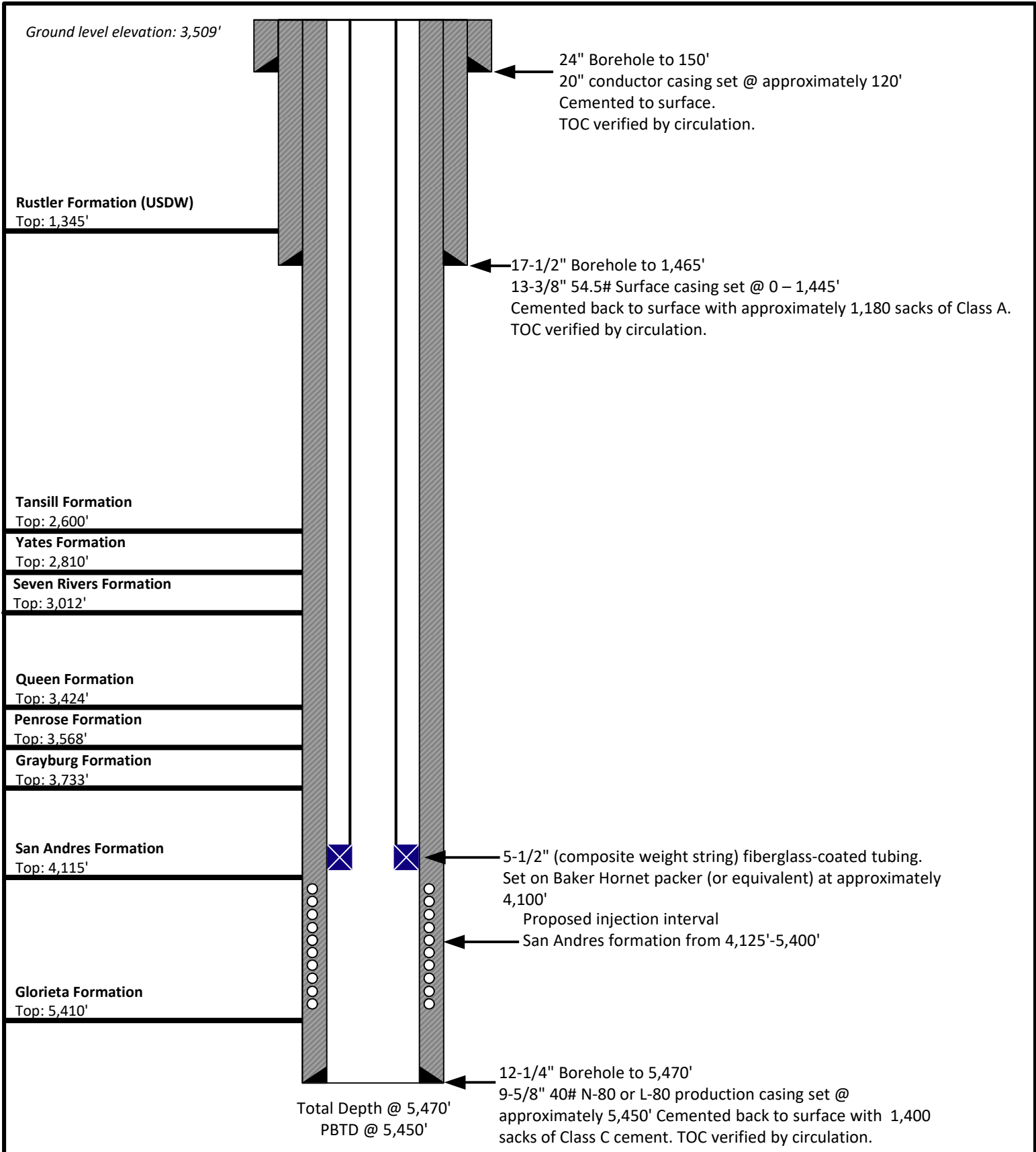
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	9	21-S	36-E		1874	SOUTH	2537	WEST	LEA

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		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>5 4</b>		<b>4 3</b>	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with 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> <p style="text-align: right;"><i>Nathan Alleman</i> Signature <span style="float: right;">9/16/2021</span> Date</p> <p>Nathan Alleman Print Name</p> <p>Nalleman@all-llc.com E-mail Address</p>
<b>8 9</b>	<p><b>NW CORNER</b> NMSP-E (NAD 83) N.(Y): = 547474.4' E.(X): = 866407.2' LAT.: = 32.5006497° N LON.: = 103.2789368° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 547412.5' E.(X): = 825223.2' LAT.: = 32.5005249° N LON.: = 103.2784630° W</p>	<b>9 10</b>	
	<b>9</b>		<p style="text-align: center;"><b>SURVEYORS CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p style="text-align: center;">SEPTEMBER 1, 2021 Date of Survey</p> <p style="text-align: center;">Signature and Seal of Professional Surveyor:  <i>James E. Tompkins</i></p> <p>Job No.: WTC-54924 <span style="float: right;">Draft: FH!</span> JAMES E. TOMPKINS 14729 Certificate Number</p>
	<p><b>W. QUARTER CORNER</b> NMSP-E (NAD 83) N.(Y): = 544832.8' E.(X): = 866431.7' LAT.: = 32.4933893° N LON.: = 103.2789420° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 544771.0' E.(X): = 825247.7' LAT.: = 32.4932644° N LON.: = 103.2784684° W</p>		
	<b>9</b>		
	<p style="text-align: center;"><b>PIAZZA SWD #1</b> SHL: GR. ELEV. 3508.8' NMSP-E (NAD 83) N.(Y): = 544090.0' E.(X): = 868975.8' LAT.: = 32.4912782° N LON.: = 103.2707157° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 544028.2' E.(X): = 827791.7' LAT.: = 32.4911533° N LON.: = 103.2702426° W</p>		
	<p><b>SW CORNER</b> NMSP-E (NAD 83) N.(Y): = 542191.3' E.(X): = 866456.2' LAT.: = 32.4861288° N LON.: = 103.2789473° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 542129.6' E.(X): = 825272.1' LAT.: = 32.4860039° N LON.: = 103.2784739° W</p>	<b>9 10</b>	
	<p><b>S. QUARTER CORNER</b> NMSP-E (NAD 83) N.(Y): = 542217.6' E.(X): = 869100.3' LAT.: = 32.4861289° N LON.: = 103.2703726° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 542155.8' E.(X): = 827916.1' LAT.: = 32.4860039° N LON.: = 103.2698997° W</p>		
	<p><b>E. QUARTER CORNER</b> NMSP-E (NAD 83) N.(Y): = 544894.0' E.(X): = 871724.9' LAT.: = 32.4934123° N LON.: = 103.2617747° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 544832.2' E.(X): = 830540.8' LAT.: = 32.4932873° N LON.: = 103.2613020° W</p>	<b>9 10</b>	
	<p><b>SE CORNER</b> NMSP-E (NAD 83) N.(Y): = 542252.6' E.(X): = 871746.4' LAT.: = 32.4861524° N LON.: = 103.2617911° W</p> <p><b>NMSP-E (NAD 27)</b> N.(Y): = 542190.9' E.(X): = 830562.2' LAT.: = 32.4860274° N LON.: = 103.2613186° W</p>	<b>9 10</b>	
<b>17 16</b>		<b>16 15</b>	



NOT TO SCALE

Cement volumes include 25% excess.

Proposed Maximum Injection Rate: 40,000 BPD

Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Dan Arthur

Date: 9/14/2021

**Goodnight Midstream Permian, LLC**  
 Piazza SWD #1  
 API# TBD  
 1,874' FSL & 2,537' FWL, Unit K of Sec 9-T21S-R36E  
 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
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☀ Gas, Active (113)
- ☀ Gas, Plugged (51)
- ☀ Gas, Temporarily Abandoned (2)
- ↻ Injection, Active (109)
- ↻ Injection, Plugged (19)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (176)
- Oil, New (1)
- Oil, Plugged (128)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (3)
- △ Salt Water Injection, New (4)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 8/18/2021  
<https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/>

## O&G Wells Area of Review

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

Proj Mgr:  
Nate Alleman

September 02, 2021

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALLCONSULTING**

0 0.5 1 2 Miles

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

## AOR Tabulation for Piazza SWD #1 (Injection Interval: 4,125' - 5,400')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
ERNEST C ADKINS #013	30-025-32834	Gas	APACHE CORPORATION	2/26/1995	B-09-21S-36E	3,700	No
ERNEST C ADKINS #012	30-025-32442	Oil	APACHE CORPORATION	4/2/1994	J-09-21S-36E	3,700	No
ERNEST C ADKINS #009	30-025-04586	Gas	APACHE CORPORATION	12/4/1953	O-09-21S-36E	3,705	No
ERNEST C ADKINS #005	30-025-04582	Gas	APACHE CORPORATION	1/19/1936	H-09-21S-36E	3,895	No
EUNICE MONUMENT SOUTH UNIT #461	30-025-29621	Plugged	CHEVRON U S A INC	5/4/1986	I-09-21S-36E	(Plugged) 5,000	Yes
EUNICE MONUMENT SOUTH UNIT #711	30-025-34850	Oil	Empire New Mexico LLC	4/11/2000	P-09-21S-36E	3,940	No
MEYER BELL RAMSAY COM #005	30-025-30921	Gas	Petroleum Exploration Company Ltd., Limited P	11/12/1992	N-09-21S-36E	3,702	No
MEYER BELL RAMSAY COM #006	30-025-32831	Gas	Petroleum Exploration Company Ltd., Limited P	1/25/1995	C-09-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #299	30-025-04571	Injection	XTO ENERGY, INC	2/20/1935	F-09-21S-36E	3,870	No
EUNICE MONUMENT SOUTH UNIT #301	30-025-04587	Injection	XTO ENERGY, INC	9/29/1957	H-09-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #300	30-025-04579	Oil	XTO ENERGY, INC	4/24/1935	G-09-21S-36E	3,905	No
EUNICE MONUMENT SOUTH UNIT #339	30-025-04576	Plugged	XTO ENERGY, INC	2/17/1987	M-09-21S-36E	(Plugged) 3,906	No
EUNICE MONUMENT SOUTH UNIT #298	30-025-04575	Oil	XTO ENERGY, INC	9/27/1934	E-09-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #322	30-025-04574	Oil	XTO ENERGY, INC	7/23/1934	L-09-21S-36E	3,921	No
EUNICE MONUMENT SOUTH UNIT #363	30-025-04661	Plugged	Empire New Mexico LLC	5/12/1935	C-16-21S-36E	(Plugged) 3,892	No
EUNICE MONUMENT SOUTH UNIT #695	30-025-35162	Oil	XTO ENERGY, INC	10/12/2000	I-09-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #320	30-025-04578	Injection	XTO ENERGY, INC	1/22/1935	J-09-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #340	30-025-04572	Injection	XTO ENERGY, INC	6/2/1935	N-09-21S-36E	3,943	No
EUNICE MONUMENT SOUTH UNIT #321	30-025-04570	Oil	XTO ENERGY, INC	11/3/1934	K-09-21S-36E	3,958	No
EUNICE MONUMENT SOUTH UNIT #341	30-025-04580	Plugged	XTO ENERGY, INC	7/3/1935	O-09-21S-36E	(Plugged) 3,967	No
EUNICE MONUMENT SOUTH UNIT #462	30-025-29622	Oil	Empire New Mexico LLC	2/7/1987	L-09-21S-36E	4,998	Yes
EUNICE MONUMENT SOUTH UNIT #713	30-025-37321	Oil	XTO ENERGY, INC	9/9/2005	O-09-21S-36E	4,532	Yes
EUNICE MONUMENT SOUTH UNIT #319	30-025-04584	Oil	XTO ENERGY, INC	4/1/1936	I-09-21S-36E	3,890	No
SKELLY B STATE COM #004	30-025-32687	Plugged	CONOCOPHILLIPS COMPANY	10/4/1994	C-16-21S-36E	(Plugged) 3,730	No

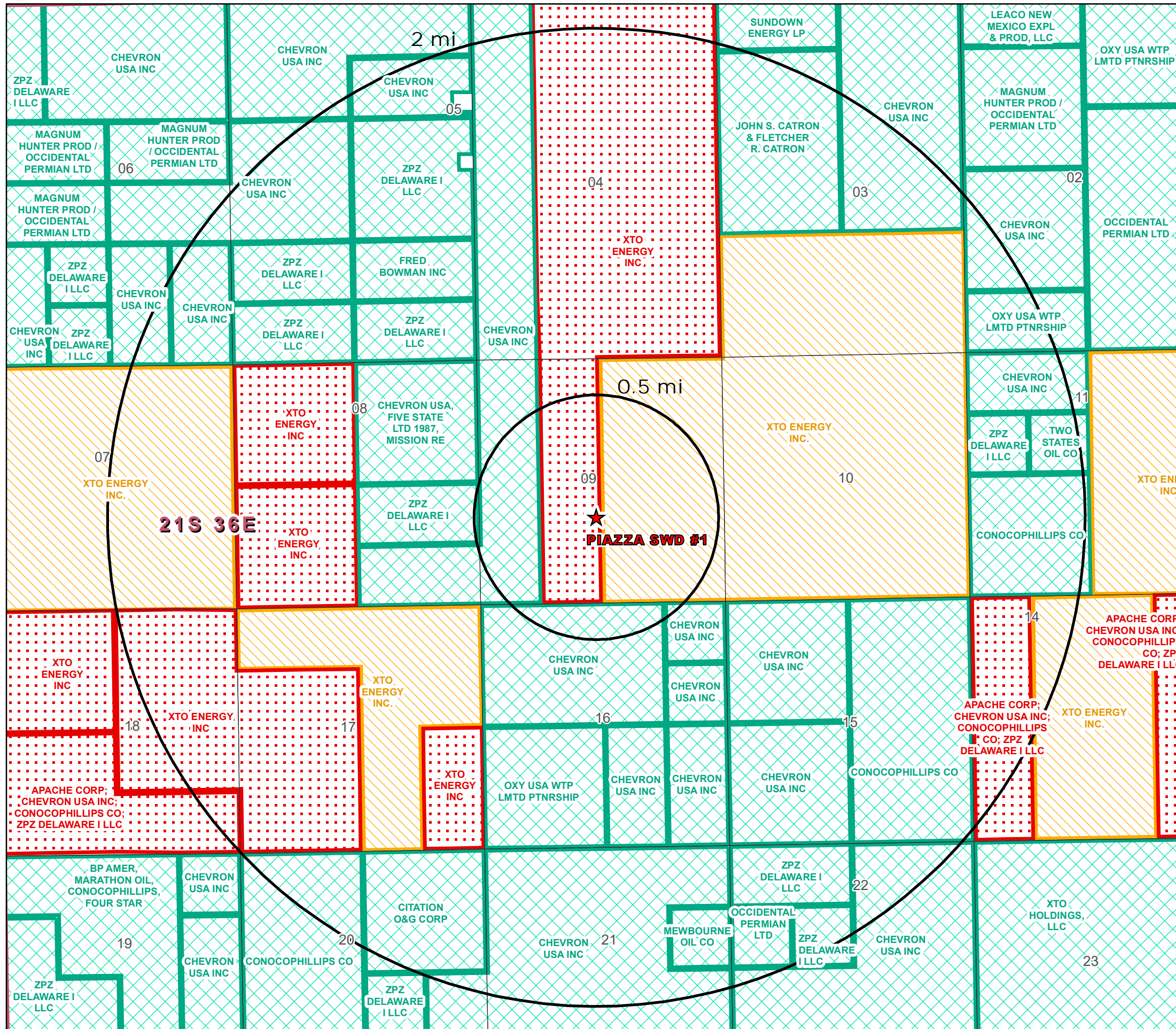
Notes:

## Casing Information for Wells Penetrating the Piazza 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 #461	368'	16"	Surface	Circulation	500	20"	2668	11.75"	Surface	Circulation	1000	14.75"
EUNICE MONUMENT SOUTH UNIT #713	1320'	8.625"	Surface	Circulation	655	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #462	416'	16"	Surface	Circulation	475	20"	2700	11.75"	Surface	Circulation	900	14.75"

Well Name	Production Casing & Intermediate II Casing						Production Casing II					
	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 #461	2668'	8.625"	Surface	Circulation	700	10.625"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #713	4226'	5.5"	Surface	Circulation	222	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #462	4325'	8.625"	Surface	Calculated	850	10.625"	4200	5.5"	Surface	Circulation	760	

Well Name	Plugging Information
EUNICE MONUMENT SOUTH UNIT #461	Bottom Plug @ 5051'-4159' (36 cu ft Zonite), B/Salt & Shoe Plug @ 2549' - 2718' (57 cu ft Zonite) Rustler Plug @ 1325' - 1425' (38 cu ft Zonite), Shoe/FW plug @ 308' - 418' (38 cu ft Zonite), Top Plug 3' - 33' (11 cu ft Zonite).
EUNICE MONUMENT SOUTH UNIT #713	TD plugged back to 4020 with a CIBP (20' CMT on Top)
EUNICE MONUMENT SOUTH UNIT #462	CIBP plated at 4,260'



- Legend**
- ★ Proposed SWD
  - ▨ NMSLO Mineral
  - ▨ BLM Mineral Leases
  - ▨ Private Mineral
  - Unleased Minerals - Private



<h2>Mineral Lease Area of Review</h2> <h3>PIAZZA SWD #1</h3> <h3>Lea County, New Mexico</h3>		
Proj Mgr: Nate Alleman	September 02, 2021	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	



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

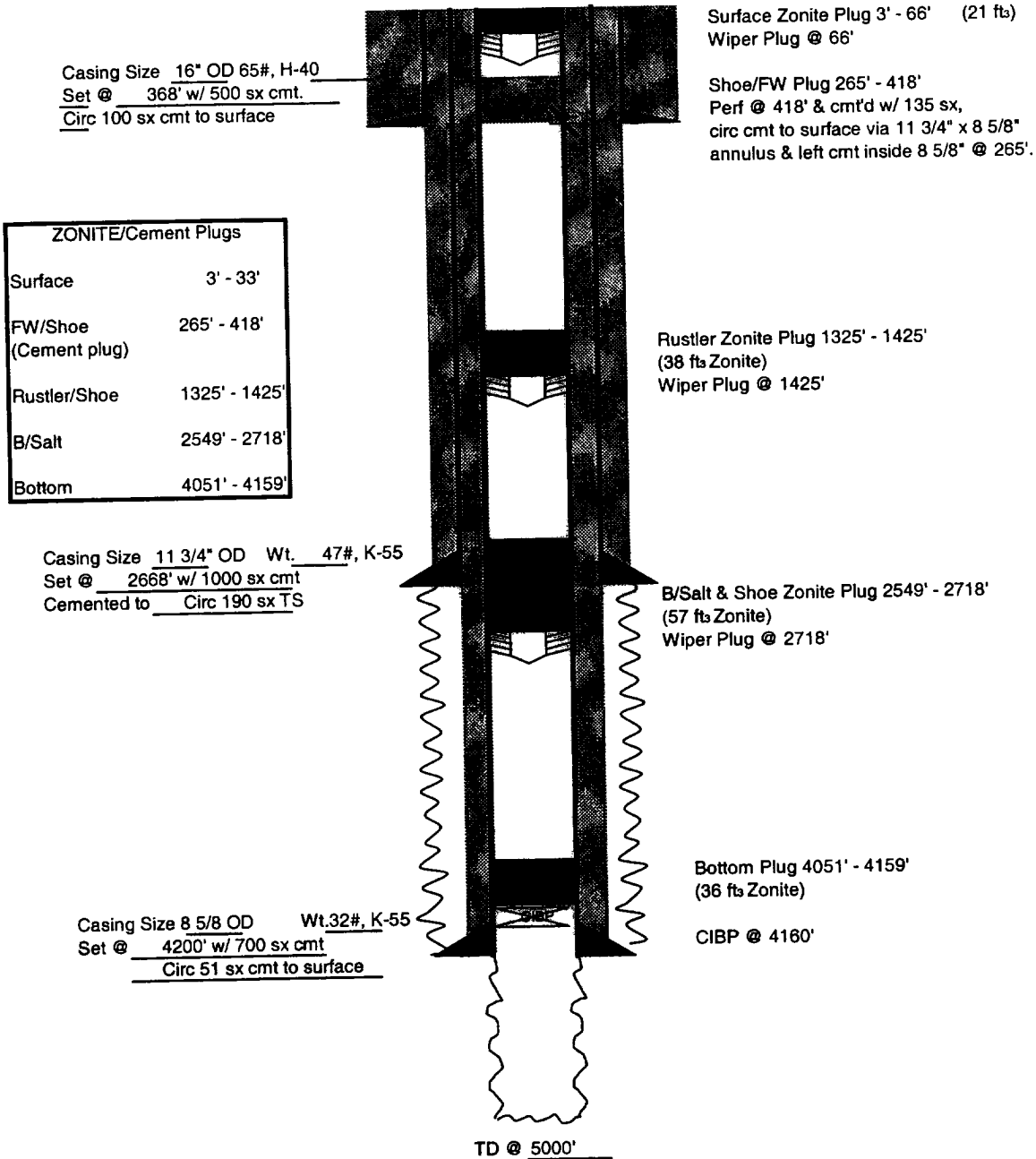


**P&A**

WELL NAME: Eunice Monument South Unit #461-WSW  
 API NUMBER: 30-025-29621  
 COORDINATES: 1540' FSL & 1305' FEL  
 SEC/TWN/RNG: Sec 9 - T21S - R36E  
 DRILLED: 1986

OPERATOR: Chevron  
 COUNTY/STATE: Lea, NM  
 DATE: 10/8/02  
 BY: DCD/CRS  
 ELEVATION: \_\_\_\_\_

KB 18' GL



ZONITE/Cement Plugs	
Surface	3' - 33'
FW/Shoe (Cement plug)	265' - 418'
Rustler/Shoe	1325' - 1425'
B/Salt	2549' - 2718'
Bottom	4051' - 4159'

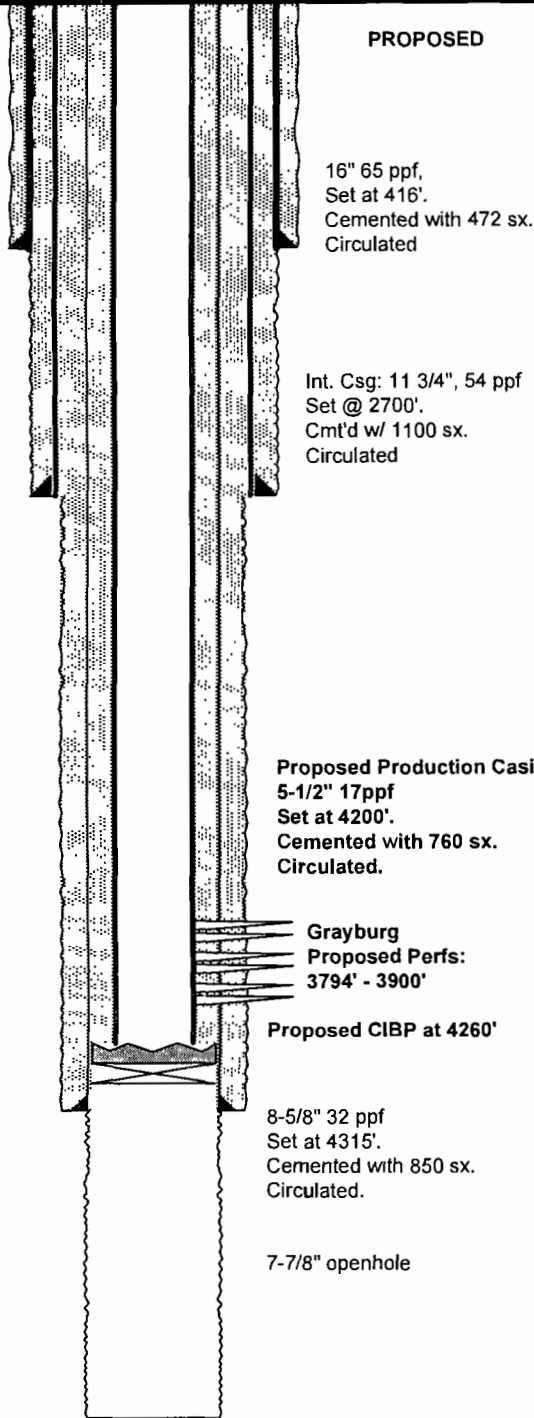
Formation Tops:	
Rustler	1375'
T/Salt	1466'
B/Salt	2608'
Queen	3427'
Penrose	3558'
EMSU Unit	3702'
Grayburg zone 1	3749'
Grayburg Zone 2	3783'
Grayburg Zone 3	3844'
Grayburg Zone 4	3882'
Grayburg Zone 5	3936'
Grayburg Zone 6	3992'
San Andres	4002'

# XTO ENERGY



**Well:** EMSU 462 WSW  
**Location:** Section 9-21S-36E  
2590' FSL & 50' FWL  
**County:** Lea  
**Elevation:** 3590' GL 3607' KB

**WI:**  
**NRI:**  
**Spud:** 7/87  
**State:** New Mexico



**PROPOSED**

**CURRENT STATUS:**  
Shut-in

**PRODUCTION TUBING:**  
None

16" 65 ppf,  
Set at 416'.  
Cemented with 472 sx.  
Circulated

Int. Csg: 11 3/4", 54 ppf  
Set @ 2700'.  
Cmt'd w/ 1100 sx.  
Circulated

**Proposed Production Casing:**  
5-1/2" 17ppf  
Set at 4200'.  
Cemented with 760 sx.  
Circulated.

Grayburg  
Proposed Perfs:  
3794' - 3900'

**Proposed CIBP at 4260'**

8-5/8" 32 ppf  
Set at 4315'.  
Cemented with 850 sx.  
Circulated.

7-7/8" openhole

TD 4998'

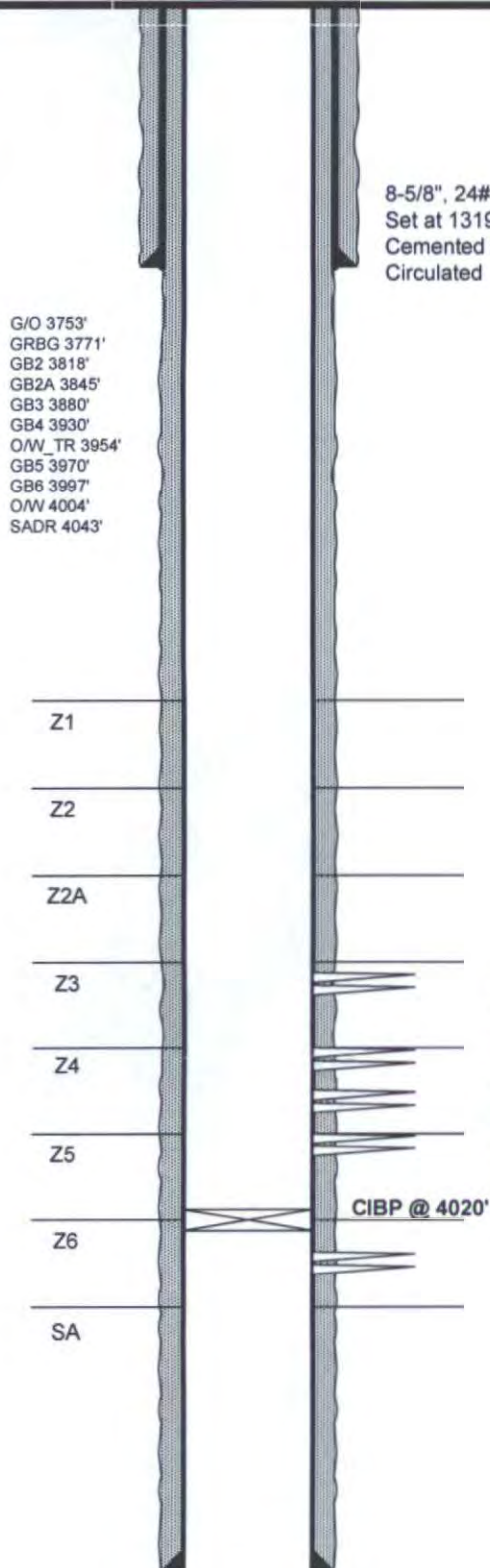
PREPARED BY: JWP

DATE: 11/17/2011

Well: EMSU 713  
Location: Section 9-21S-36E  
1310' FSL & 2205' FEL  
County: Lea  
Elevation: 3586' GL 3603' KB

API # 30-025-37321

Spud: 9/2005  
State: New Mexico



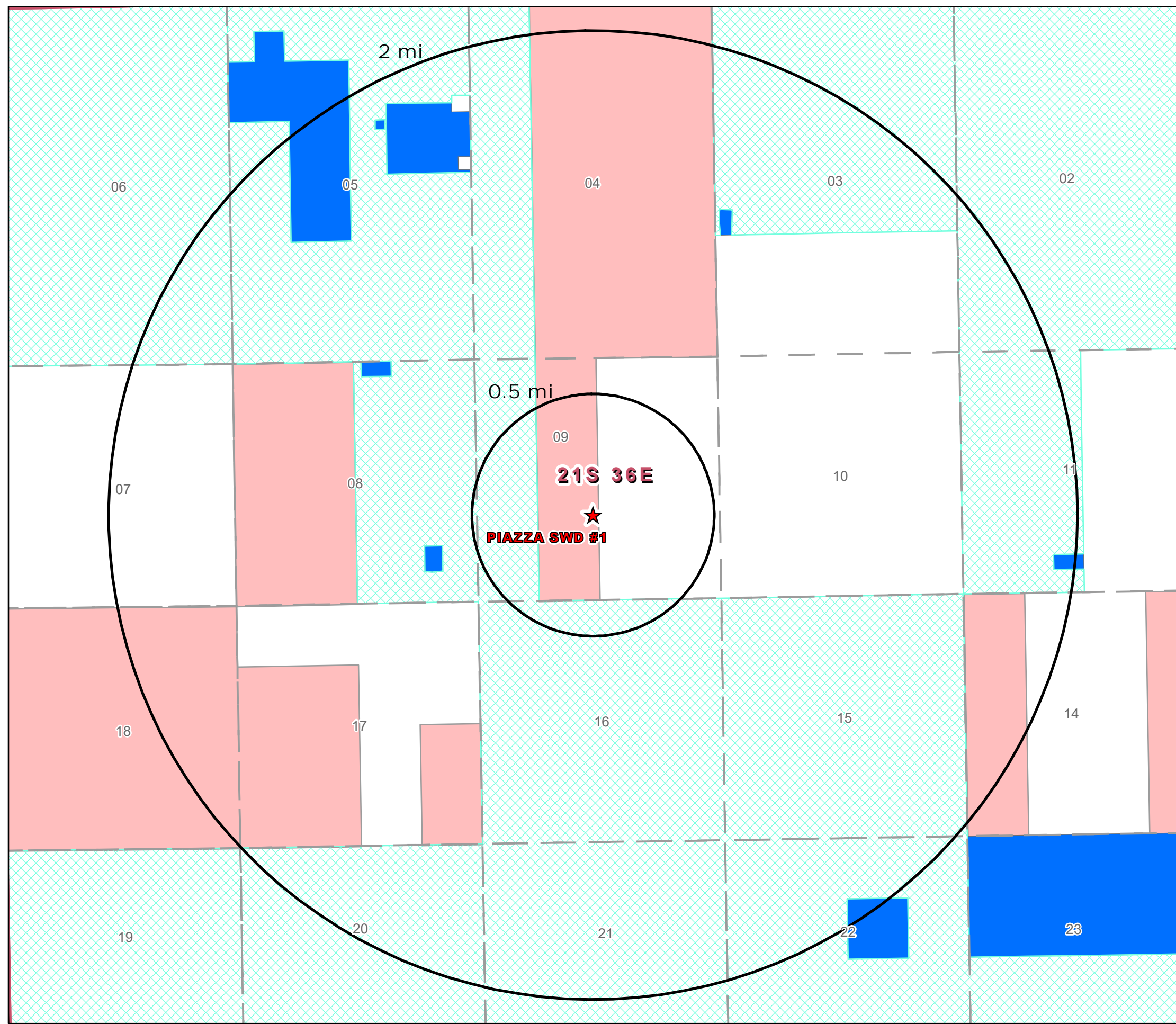
8-5/8", 24#  
Set at 1319'.  
Cemented with 625 sx.  
Circulated

G/O 3753'  
GRBG 3771'  
GB2 3818'  
GB2A 3845'  
GB3 3880'  
GB4 3930'  
O/W\_TR 3954'  
GB5 3970'  
GB6 3997'  
O/W 4004'  
SADR 4043'

Perfs:  
Z1 - None  
Z2 - None  
Z2A - None  
Z3 - 3885-3904'  
Z4 - 3928-40', 3952-60'  
Z5 - 3970-80'  
Isolated by CIBP @ 4020'  
Z6 - 4042-52'

CIBP @ 4020'

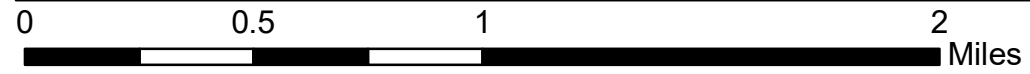
5-1/2" 17 #,  
Set at 4226'.  
Cemented with 1250 sx.  
Circulated  
Float collar @ 4189'



### Legend

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

Mineral Ownership Area of Review		
PIAZZA SWD #1 Lea County, New Mexico		
Proj Mgr: Nate Alleman	September 02, 2021	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	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/>)

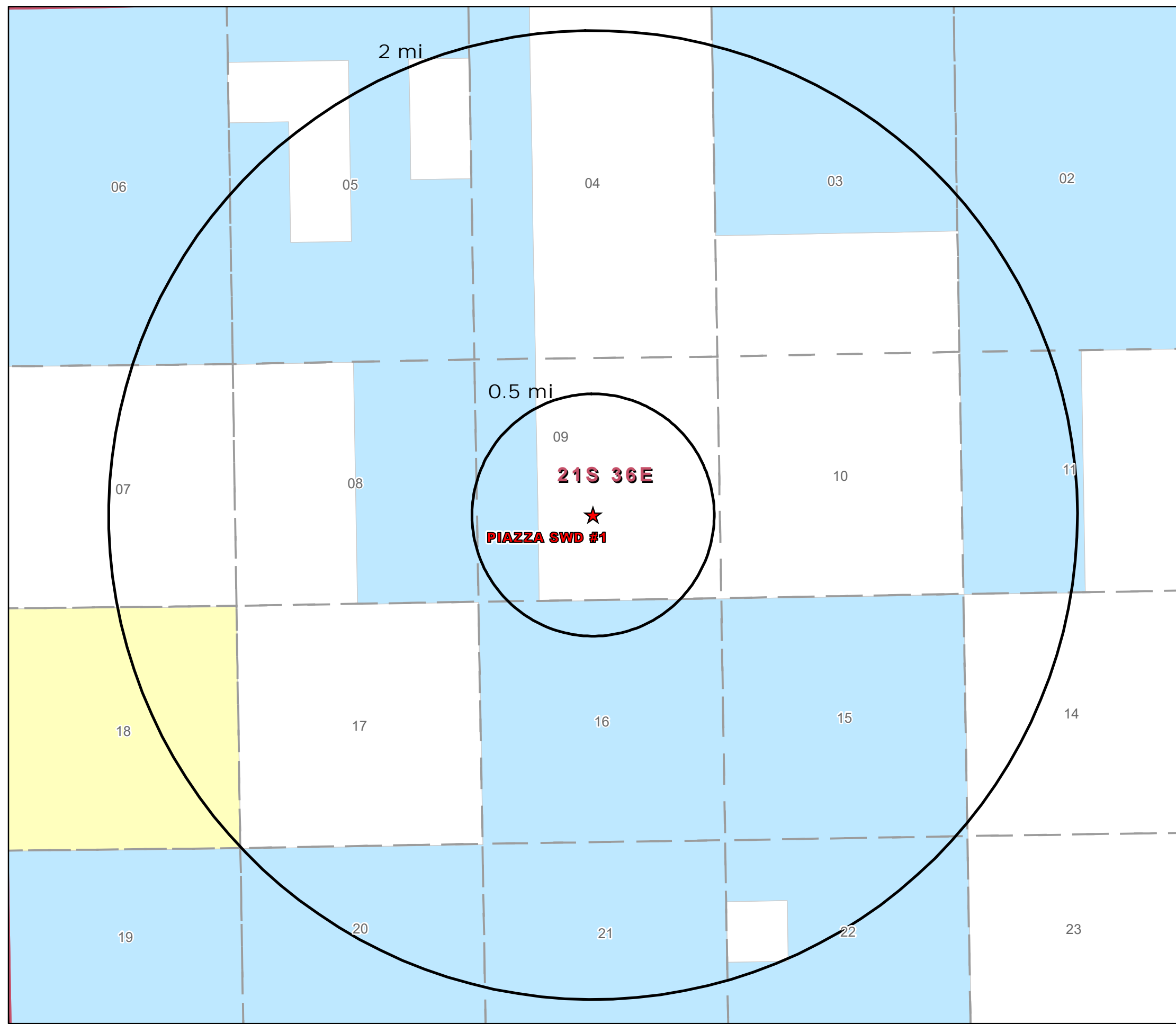


### Legend

★ Proposed SWD

### Surface Ownership

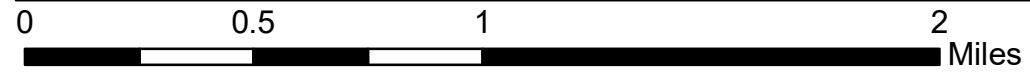
- BLM
- Private
- State



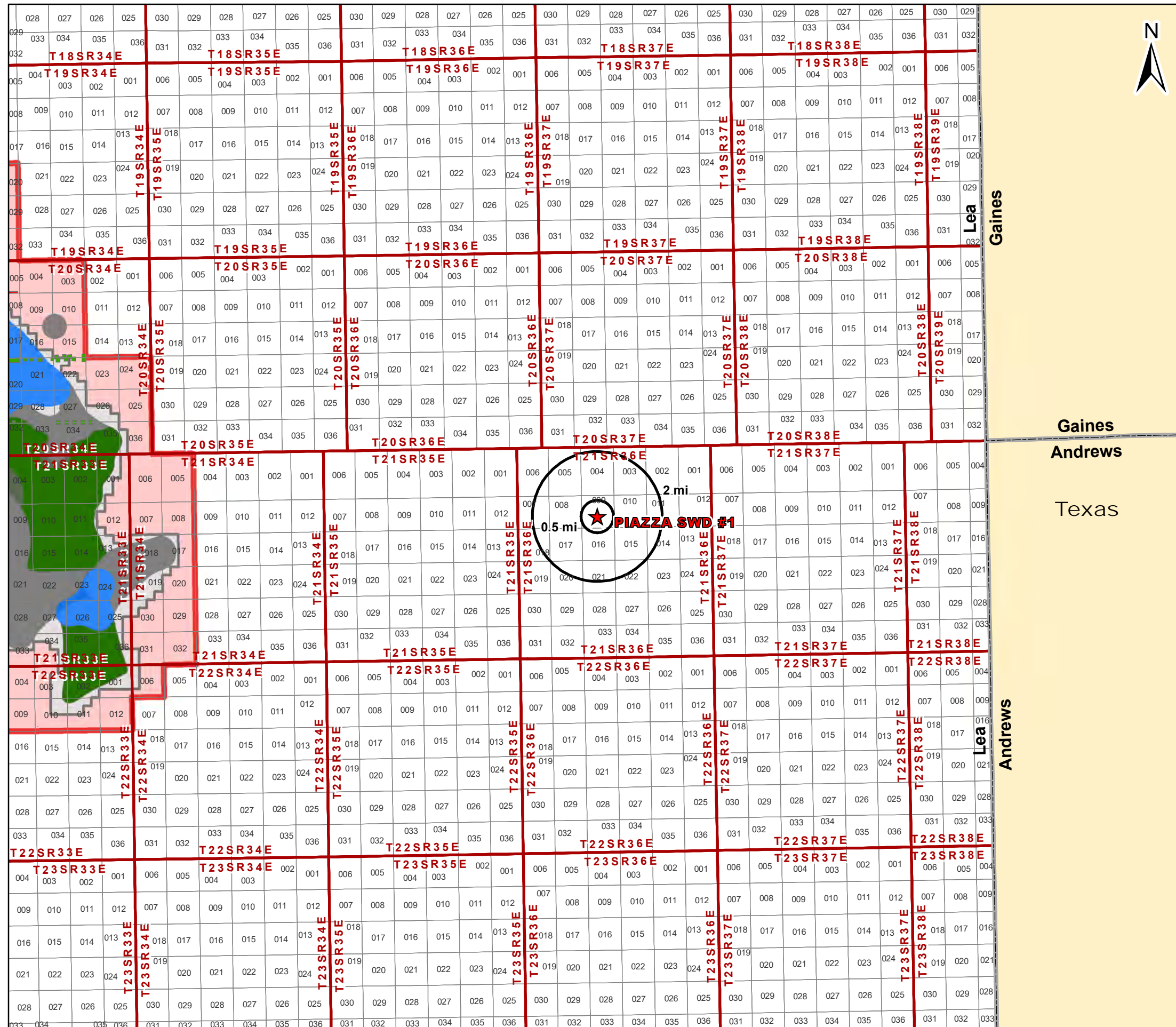
Surface Ownership  
Area of Review

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

Proj Mgr: Nate Alleman	September 13, 2021	Mapped by: Ben Bockelmann
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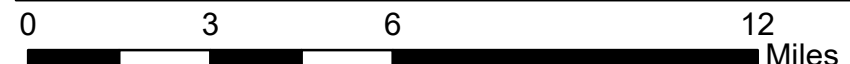
Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



### Legend

- ★ Proposed SWD
- 1/2 mi buffer
- Ore Type - Measured
- Ore Type - Indicated
- Ore Type - Inferred
- KPLA
- SOPA
- Drill Islands**
- Status**
- Approved
- Denied

<h2>Potash Leases Area of Review</h2>		
<h3>PIAZZA SWD #1 Lea County, New Mexico</h3>		
Proj Mgr: Dan Arthur	September 13, 2021	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	



Source Info: BLM CFO Potash ([https://www.nm.blm.gov/shapeFiles/cfo/carlsbad\\_spatial\\_data.html](https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html))

**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**

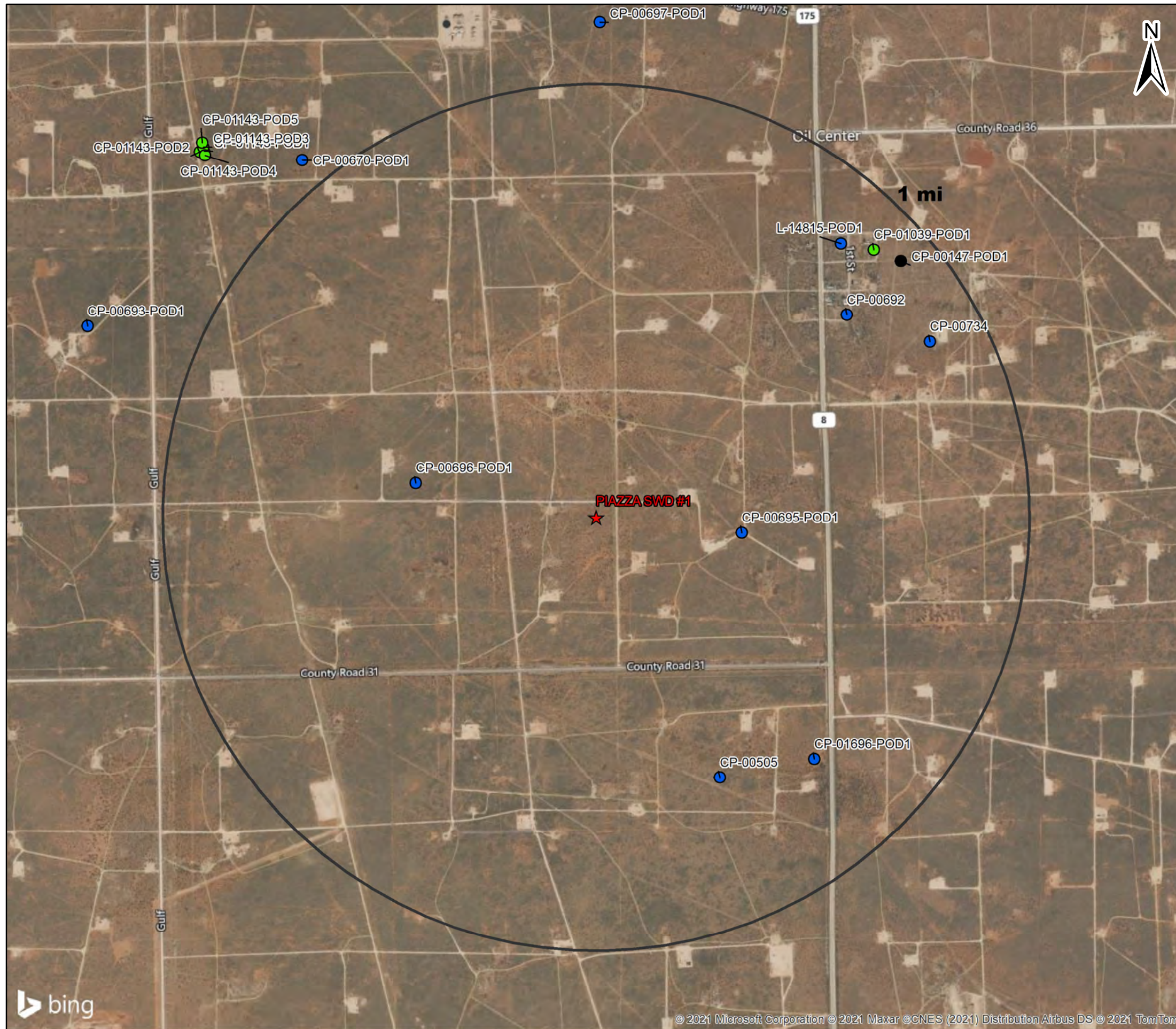
Injection Formation Water Analyses

**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

#### NMOSE Points of Diversion

- Active (10)
- Pending (7)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

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

Proj Mgr:  
Nate Alleman

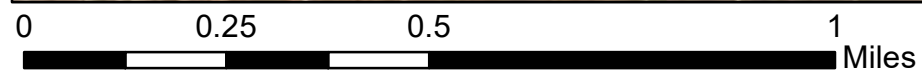
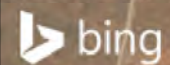
September 16, 2021

Mapped by:  
Ben Bockelmann

Prepared for:



Prepared by:



Water Well Sampling Rationale						
Select Energy Services - Piazza SWD #1						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Piazza SWD #1	CP 01039 POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	32.500083, -103.259567 Sampled on 9/9/2021
Piazza SWD #1	CP 00692	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00505	Snyder Ranches LTD.	P.O. Box 726 Lovington, NM 88260 Phone: 575-602-8863	Livestock Watering	No	Owner was unaware of a well at this location, believes there to be a caliche pit located there.
Piazza SWD #1	CP 00734	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00696 POD1	Chevron USA Inc.	6301 Deauville Blvd. Midland, TX 79706	Secondary Recovery of Oil	No	Not a freshwater well.
Piazza SWD #1	CP 00147 POD1	Humble Oil & Refining Company	Unknown	Commercial	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00695 POD1	Chevron USA Inc.	6301 Deauville Blvd. Midland, TX 79706	Secondary Recovery of Oil	No	Not a freshwater well.
Piazza SWD #1	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	32.483077, -103.262247 Sampled on 8/26/2021
Piazza SWD #1	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.
Note:						

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

**Analytical Results For:**ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA OK, 74119Project: WILBERTA TIVIS  
Project Number: 32.48377-103.262247  
Project Manager: OLIVER SEEKINS  
Fax To: NAReported:  
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

**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



**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
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**Batch 1072906 - General Prep - Wet Chem**
**Blank (1072906-BLK1)**

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							

**LCS (1072906-BS1)**

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			

**LCS Dup (1072906-BSD1)**

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**
**Blank (1081907-BLK1)**

Prepared &amp; Analyzed: 19-Aug-21

Chloride	ND	4.00	mg/L							
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**LCS (1081907-BS1)**

Prepared &amp; Analyzed: 19-Aug-21

Chloride	100	4.00	mg/L	100		100	80-120			
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**LCS Dup (1081907-BSD1)**

Prepared &amp; Analyzed: 19-Aug-21

Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
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**Batch 1081913 - Filtration**
**Blank (1081913-BLK1)**

Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	ND	5.00	mg/L							
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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
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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			
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			
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							
LCS (1083008-BS1)		Prepared & Analyzed: 30-Aug-21								
Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
LCS Dup (1083008-BSD1)		Prepared & Analyzed: 30-Aug-21								
Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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
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**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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Celey D. Keene, Lab Director/Quality Manager

**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
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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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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: Company: Attn: Address: City: State: Zip:		<b>BILL TO</b>		ANALYSIS REQUEST	
City: State: Zip:		Project Owner: <b>Wilburta Travis</b>		City: State: Zip:		Phone #: Fax #:	
Project Name: Project Location:		Project Name: <b>Wilburta Travis</b>		City: State: Zip:		Phone #: Fax #:	
Sampler Name: FOR LAB USE ONLY		Lab I.D. <b>H213303</b>		Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. <b>GA</b>	
Matrix: # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER:		PRESERV: ACID/BASE: ICE / COOL OTHER:		SAMPLING: DATE: <b>2/15/08</b> TIME: <b>2:15</b>	
Date: <b>8-26-21</b> Time: <b>3:15</b>		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 Sample Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <b>TP</b>	
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusion 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@cardinallabsnm.com

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**LEGAL NOTICE**  
**September 5, 2021**

**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: Piazza SWD #1  
Located 7.49 miles northwest of Eunice, NM  
NE ¼ SW ¼, Section 9, Township 21S, Range 36E  
1,874' FSL & 2,531' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,125' – 5,400')

EXPECTED MAXIMUM INJECTION RATE: 40,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 825 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.  
**#36822**



# Affidavit of Publication

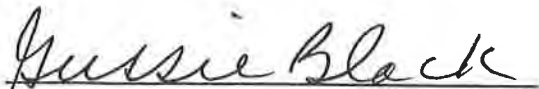
STATE OF NEW MEXICO  
COUNTY OF LEA

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).

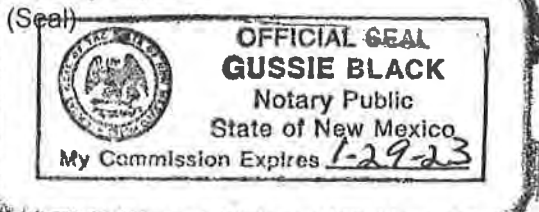
Beginning with the issue dated  
September 05, 2021  
and ending with the issue dated  
September 05, 2021.

  
Publisher

Sworn and subscribed to before me this  
5th day of September 2021.

  
Business Manager

My commission expires  
January 29, 2023



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
<b>LEGAL NOTICE</b> September 5, 2021	
<b>APPLICATION FOR AUTHORIZATION TO INJECT</b>	
NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75208, 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: <u>Piazza SWD #1</u> <u>Located 7.49 miles northwest of Eunice, NM</u> <u>NE 1/4 SW 1/4, Section 9, Township 21S, Range 36E</u> <u>1,874' FSL &amp; 2,531' FWL</u> <u>Lea County, NM</u>	
NAME AND DEPTH OF DISPOSAL ZONE: <u>San Andres (4,125' - 5,400')</u>	
EXPECTED MAXIMUM INJECTION RATE: <u>40,000</u> <u>Bbls/day</u>	
EXPECTED MAXIMUM INJECTION PRESSURE: <u>825</u> <u>psi (surface)</u>	
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. #35822	

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

**Piazza SWD #1 - Notice of Application Recipients**

Entity	Address	City	State	Zip Code
<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 CORPORATION)	303 Vet Airpark Lane, Suite 3000	Midland	TX	79705
Chevron USA, Inc. (CHEVRON USA INC, CHEVRON U S A INC)	6301 Deauville Blvd	Midland	TX	79706
Commision of Public Lands - State Lands Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Conocophillips Company (CONOCOPHILLIPS CO)	P.O. Box 7500	Bartlesville	OK	74005
Empire Petroleum Corporation (Empire New Mexico, LLC)	2200 S. Utica Place, Suite 150	Tulsa	OK	74114
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
PETEX (Petroleum Exploration Company Ltd., Limited P)	P.O. Box 548	Breckenridge	TX	76424
XTO Energy, Inc. (XTO ENERGY INC, XTO ENERGY INC.)	500 W. Illinois Ave, Suite 100	Midland	TX	79701
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056

**Notes:** 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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Houston TX 77056-4497

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Chevron USA, Inc.  
6301 Deauville  
Midland TX 79706-2964

NMOCD District 1  
1625 North French Drive  
Hobbs NM 88240-9273

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Southwest Bank Trust Department  
Terry Richey Trustee  
Millard Deck Estate  
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Odessa TX 79762-7214

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