

# SWD

## *Initial*

# Application

Received: 09/10/19

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

|                           |           |                  |                               |
|---------------------------|-----------|------------------|-------------------------------|
| RECEIVED: <b>09/10/19</b> | REVIEWER: | TYPE: <b>SWD</b> | APP NO: <b>pLEL1925947679</b> |
|---------------------------|-----------|------------------|-------------------------------|

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:** Goodnight Midstream Permian, LLC **OGRID Number:** 372311  
**Well Name:** Marino FED SWD 1 **API:** \_\_\_\_\_  
**Pool:** SWD; DEVONIAN - SILURIAN **Pool Code:** 97869

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

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

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

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

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

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

Nate Alleman

Print or Type Name

Signature

9-10-2019  
Date

918-382-7581  
Phone Number

nalleman@all-llc.com  
e-mail Address

# ALL CONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

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September 10, 2019

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

Subject: Goodnight Midstream Permian, LLC – Marino FED 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 Marino FED 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

**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: Nate Alleman TITLE: Regulatory Specialist - ALL Consulting  
SIGNATURE:  DATE: 9-10-2019  
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: \_\_\_\_\_

### 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: Marino FED 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: Marino FED SWD 1  
Location Footage Calls: 265' FSL & 263' FWL  
Legal Location: Unit Letter M, S8 T23S R35E  
Ground Elevation: 3,364'  
Proposed Injection Interval: 14,740' – 16,320'  
County: Lea

##### (2) Casing Information:

| Type           | Hole Size | Casing Size | Casing Weight | Setting Depth | Sacks of Cement | Estimated TOC | Method Determined |
|----------------|-----------|-------------|---------------|---------------|-----------------|---------------|-------------------|
| Surface        | 24"       | 20"         | 133.0 lb/ft   | 1,840'        | 1,870           | Surface       | Circulation       |
| Intermediate 1 | 14-3/4"   | 13-3/8"     | 68.0 lb/ft    | 5,240'        | 1,170           | Surface       | Circulation       |
| Intermediate 2 | 12-1/4"   | 9-5/8"      | 53.5 lb/ft    | 11,760'       | 3,900           | Surface       | Circulation       |
| Liner          | 8-1/2"    | 7-5/8"      | 39.0 lb/ft    | 14,740'       | 325             | 11,560'       | CBL               |

##### (3) Tubing Information:

4-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 14,720'

(4) Packer Information: Lok-set or equivalent packer set at 14,720'

#### B.

(1) Injection Formation Name: Devonian and Silurian-Fusselman formations

Pool Name: SWD; DEVONIAN - SILURIAN

Pool Code: 97869

(2) Injection Interval: Open-hole injection between 14,740' – 16,320'

(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.

- Delaware (5,240')
- Bone Springs (8,480')
- Wolfcamp (10,950')
- Atoka (12,080')
- Morrow (12,665')

Underlying Oil and Gas Zones: No underlying oil and gas zones exist.

## V – Well and Lease Maps

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

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- 1-mile Well Detail List
- Potash Lease Map

## VI – AOR Well List

There are no wells within the 1-mile AOR that penetrate the proposed injection zone.

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

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 30,000 bpd  
**Proposed Average Injection Rate:** 15,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 2,948 psi (surface)  
**Proposed Average Injection Pressure:** approximately 1,500 – 2,000 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 Devonian and Silurian-Fusselman formations which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the Devonian-Silurian formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the Devonian and Silurian-Fusselman formations from 14,740 – 16,320 feet. These formations consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area.

The base of the USDW is at a depth of approximately 1,815 feet. Water well depths in the area range from approximately 130 - 305 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, two groundwater wells are located within 1-mile of the proposed SWD location; however, according to state water well data and conversations with water well owners no water wells within the 1-mile radius of the proposed SWD location are currently active. therefore, no groundwater samples were collected in association with this application.

A water well map of the area is included in **Attachment 5**.

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

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs. A letter from a knowledgeable and qualified expert stating that there is a low risk of seismic activity from the proposed injection activities is included in **Attachment 6**.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 7**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 7**.

# Attachments

**Attachment 1:** Wellbore Diagram

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

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- 1-mile Well Detail List
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

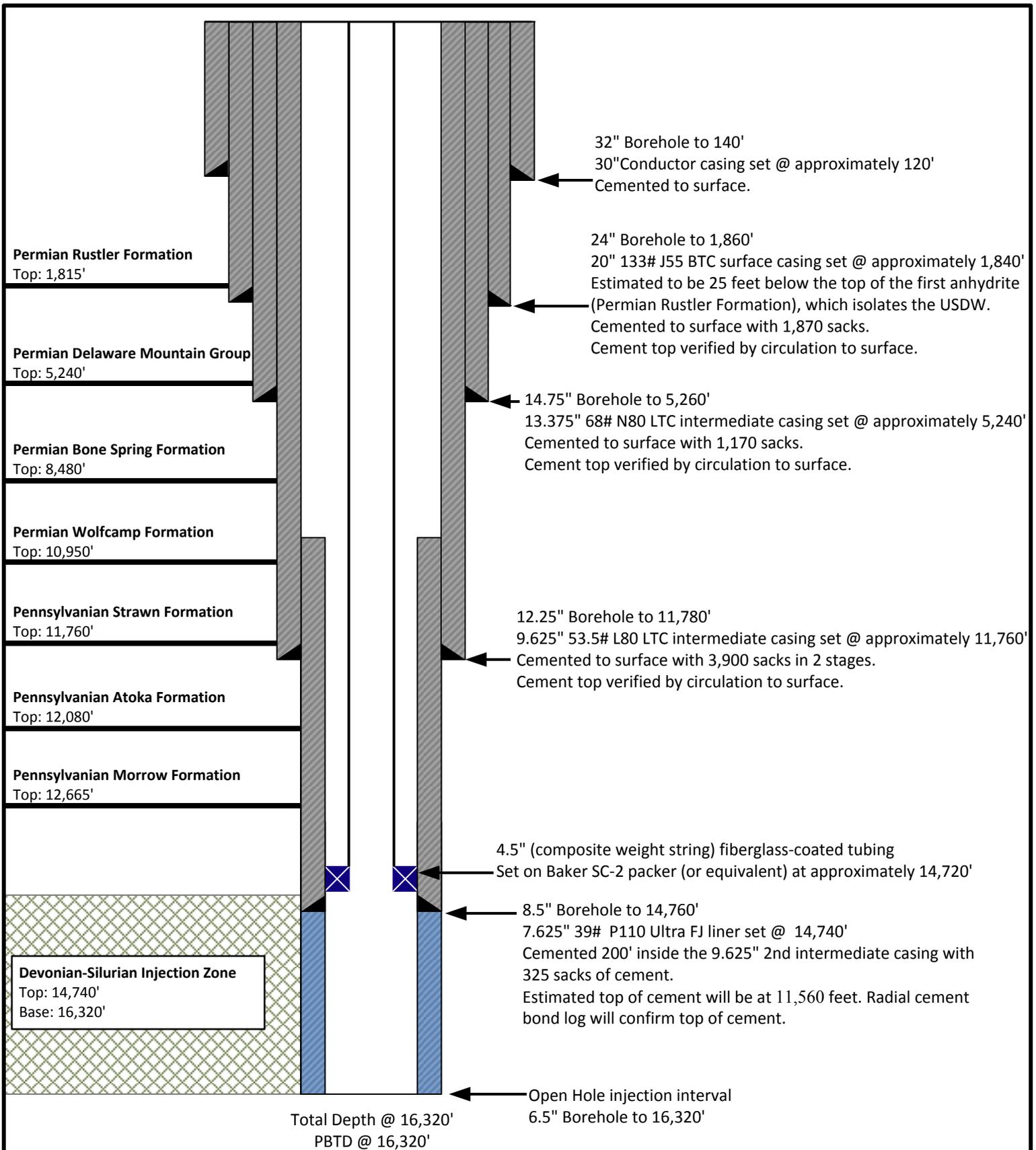
**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Induced Seismicity Assessment Letter

**Attachment 7:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 1**

Wellbore Diagram



*Note: Listed depths and cement volumes are approximates based on available information. All cement calculations use yield of 1.18 cubic foot per sack and include 25% excess.*

NOT TO SCALE

Prepared by:

**ALL**CONSULTING

Drawn by: Joshua Ticknor

Project Manager:  
Dan Arthur

Date: 7/18/2019

Goodnight Midstream Permian, LLC  
Marino SWD #1  
Section 8, Twp 23S, Rng 35E  
265' FSL & 263' FWL  
Lea County, NM

## 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.

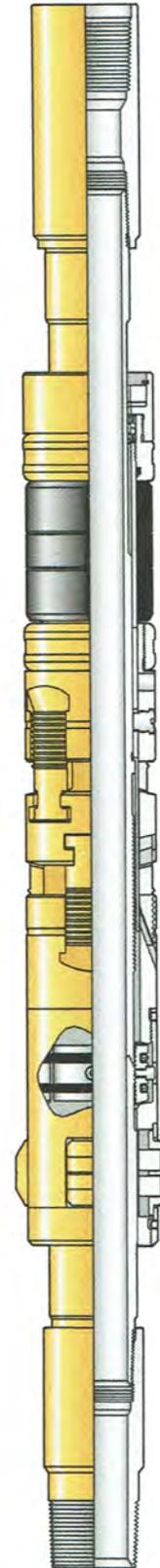
### Advantages

- 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

## SPECIFICATION GUIDES

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

| Casing |       |                   | Packer |        |      |                  |       |
|--------|-------|-------------------|--------|--------|------|------------------|-------|
| OD     |       | Weight *<br>lb/ft | Size   | Nom ID |      | Max Gage Ring OD |       |
| in.    | mm    |                   |        | in.    | mm   | in.              | mm    |
| 4      | 101.6 | 9.5-12.9          | 41A2   | 1.500  | 38.1 | 3.244            | 82.4  |
| 4-1/2  | 144.3 | 21.6-23.6         | 41A2   | 1.500  | 38.1 | 3.244            | 82.4  |
| 4      | 101.6 | 9.5               | 41A4   | 1.500  | 38.1 | 3.423            | 112.4 |
| 4-1/2  | 114.3 | 18.8              | 41A4   | 1.500  | 38.1 | 3.423            | 112.4 |
|        |       | 13.5-17.7         | 41B    |        |      | 3.578            | 90.9  |
|        |       | 11.6-13.5         | 43A2   | 1.978  | 50.2 | 3.786            | 96.2  |
|        |       | 9.5-10.5          | 43A4   |        |      | 3.786            | 96.2  |
| 5      | 127.0 | 15-18             | 43B    | 1.978  | 50.2 | 4.140            | 105.2 |
|        |       | 11.5-15           | 43C    |        |      | 4.265            | 108.3 |
| 5-1/2  | 139.7 | 26                | 43C    | 1.978  | 50.2 | 4.265            | 108.3 |
|        |       | 20-23             | 45A2   |        |      | 4.515            | 114.7 |
|        |       | 15.5-20           | 45A4   |        |      | 4.656            | 118.3 |
|        |       | 13-15.5           | 45B    |        |      | 4.796            | 121.8 |
| 6      | 152.4 | 26                | 45B    | 1.978  | 50.2 | 4.796            | 121.8 |
|        |       | 20-23             | 45C    |        |      | 5.078            | 129.0 |
|        |       | 15-18             | 45D    |        |      | 5.171            | 131.3 |
| 6-5/8  | 168.3 | 34                | 45E    | 1.978  | 50.2 | 5.421            | 137.7 |
|        |       | 24-32             | 45F    |        |      | 5.499            | 139.7 |
|        |       | 24                | 47A2   |        |      | 2.441            | 62.0  |
|        |       | 17-24             | 45G    | 1.978  | 50.2 | 5.796            | 147.2 |
|        |       | 17-20             | 47A4   | 2.441  | 62.0 | 5.827            | 148.0 |
| 7      | 177.8 | 38                | 47A2   | 2.441  | 62.0 | 5.671            | 144.0 |
|        |       | 32-35             | 47A4   |        |      | 5.827            | 148.0 |
|        |       | 26-29             | 47B2   |        |      | 5.983            | 152.0 |
|        |       | 23-26             | 47B4   |        |      | 6.093            | 154.8 |
|        |       | 17-20             | 47C2   |        |      | 6.281            | 159.5 |
| 7-5/8  | 193.7 | 33.7-39           | 47C4   | 2.441  | 62.0 | 6.468            | 164.3 |
|        |       | 24-29.7           | 47D2   |        |      | 6.687            | 169.9 |
|        |       | 20-24             | 47D4   |        |      | 6.827            | 173.4 |
| 8-5/8  | 219.1 | 44-49             | 49A2   | 3.500  | 88.9 | 7.327            | 186.1 |
|        |       | 32-40             | 49A4   |        |      | 7.546            | 191.7 |
|        |       | 20-28             | 49B    |        |      | 7.796            | 198.0 |
| 9-5/8  | 244.5 | 47-53.5           | 51A2   | 3.500  | 88.9 | 8.234            | 209.1 |
|        |       | 40-47             | 51A4   |        |      | 8.452            | 214.7 |
|        |       | 29.3-36           | 51B    |        |      | 8.608            | 218.6 |

AL-2™ Large Bore LOK-SET Retrievable Casing Packer Product Family No. H64628

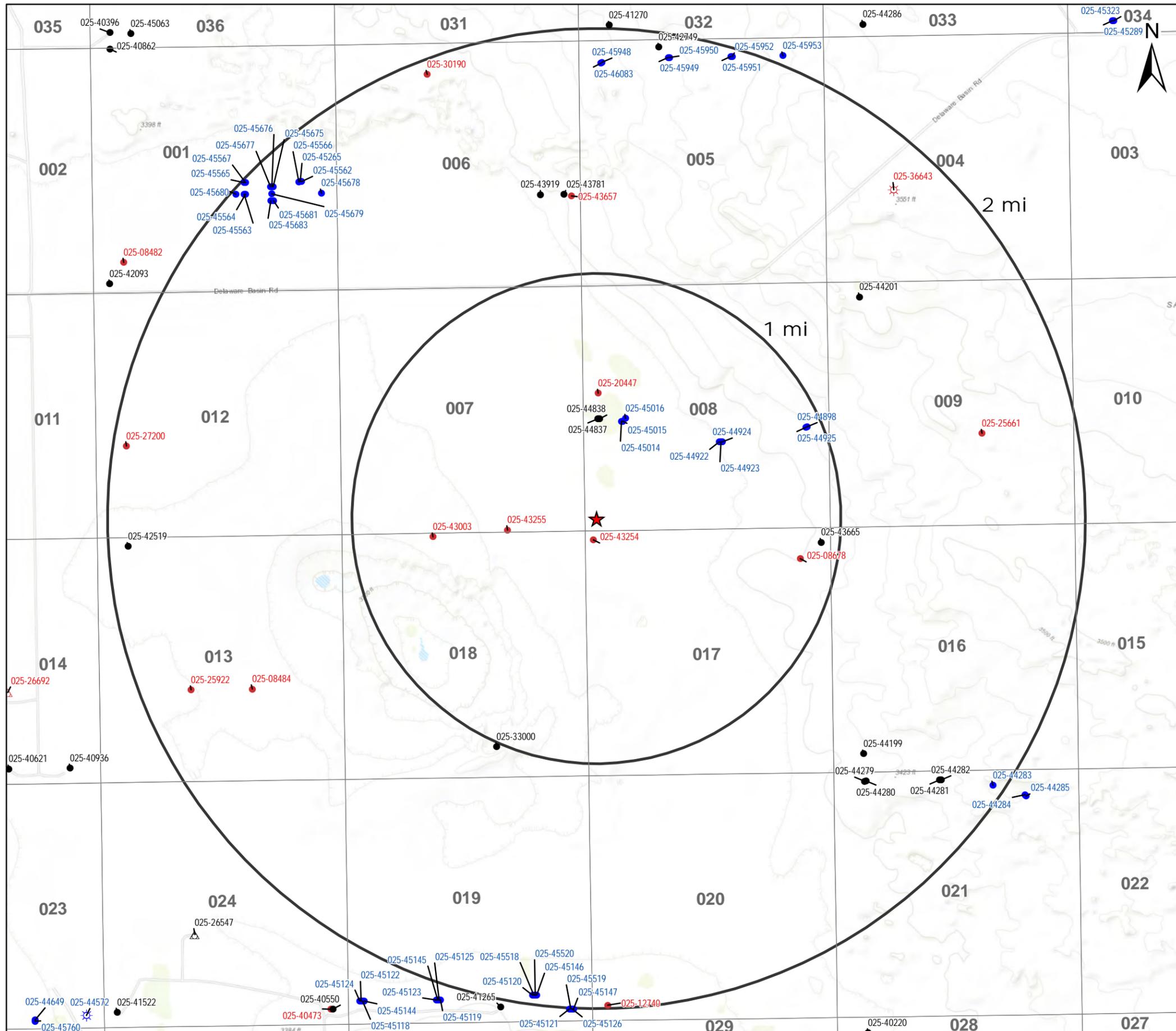
| Casing |       |                   | Packer       |        |      |                  |       |                                       |       |
|--------|-------|-------------------|--------------|--------|------|------------------|-------|---------------------------------------|-------|
| OD     |       | Weight *<br>lb/ft | Size         | Nom ID |      | Max Gage Ring OD |       | Max Diameter of Compressed Drag Block |       |
| in.    | mm    |                   |              | in.    | mm   | in.              | mm    | in.                                   | mm    |
| 5-1/2  | 139.7 | 20                | 45A2 x 2-3/8 | 2.375  | 60.3 | 4.562            | 115.9 | 4.592                                 | 116.6 |
|        |       | 15.5-17           | 45A4 x 2-3/8 |        |      | 4.656            | 118.3 | 4.750                                 | 120.7 |
|        |       | 13                | 45B x 2-3/8  |        |      | 4.796            | 121.8 | 4.902                                 | 124.5 |
| 6      | 152.4 | 26                | 45B x 2-3/8  | 2.375  | 60.3 | 4.796            | 121.8 | 4.902                                 | 124.5 |

- When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.
- Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrievable Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1.5-mile Deep SWD Map (Devonian/Silurian SWDs)
- 1-mile Well Detail List
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☀ Gas, New (1)
- ☀ Gas, Plugged (1)
- Oil, Active (26)
- Oil, New (53)
- Oil, Plugged (14)
- △ Salt Water Injection, Active (1)
- △ Salt Water Injection, Plugged (1)

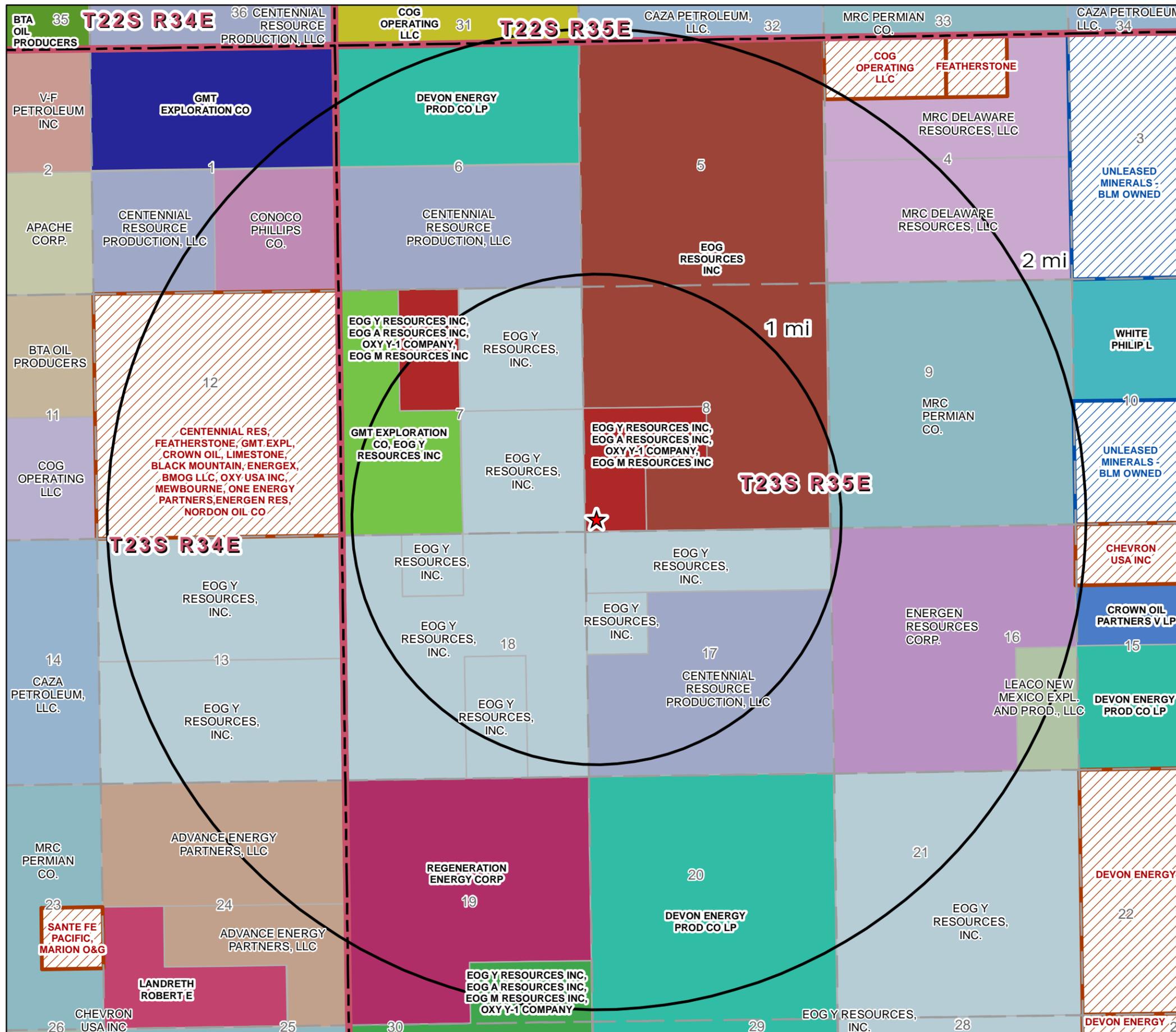
## O&G Wells Area of Review

### Marino FED SWD 1 Lea County, New Mexico

|                         |               |                              |
|-------------------------|---------------|------------------------------|
| Proj Mgr:<br>Dan Arthur | July 18, 2019 | Mapped by:<br>Ben Bockelmann |
|-------------------------|---------------|------------------------------|



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

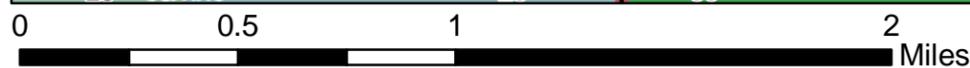


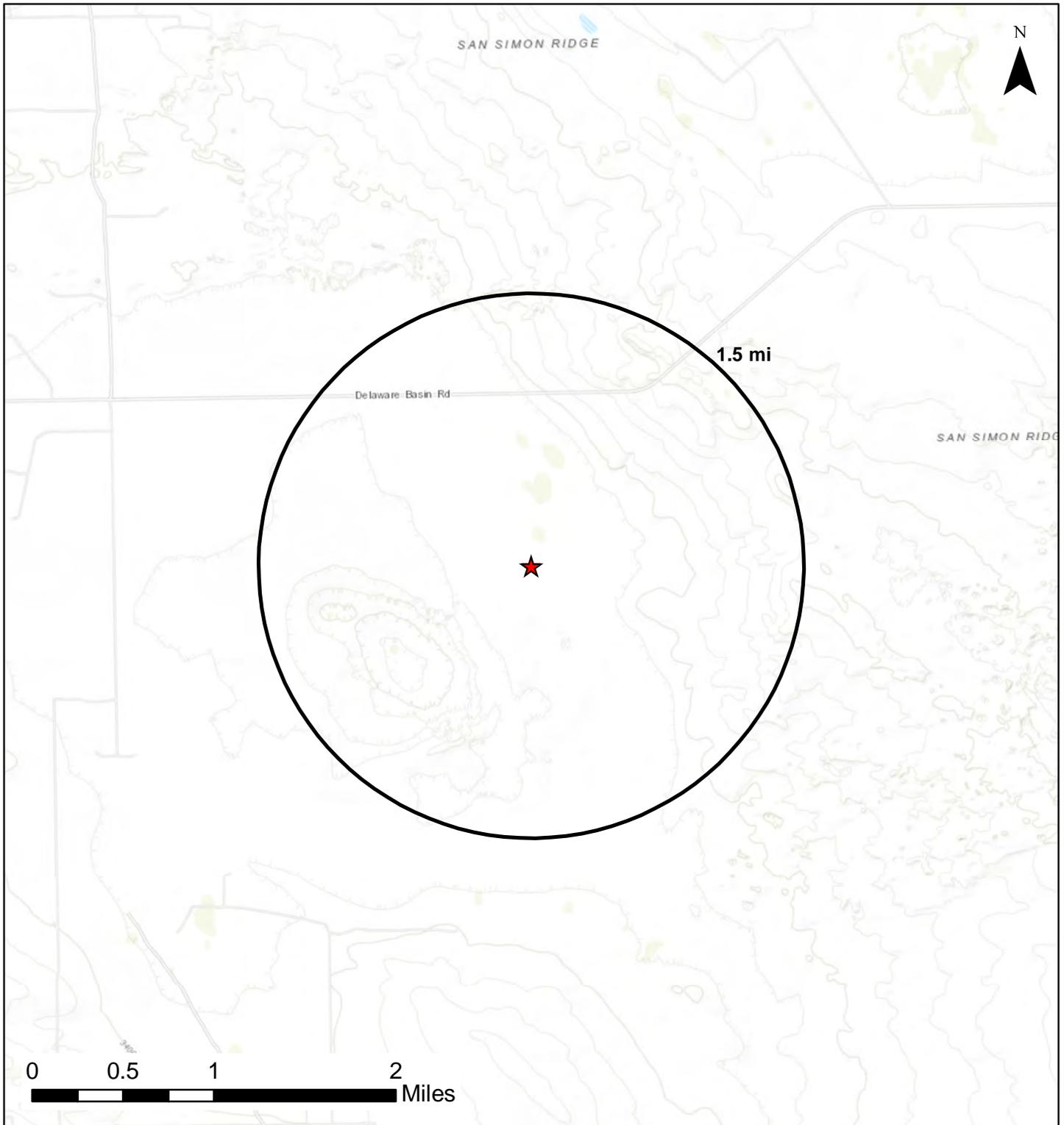
**Legend**

- ★ Proposed SWD
- ▨ Private Mineral Leases
- ▨ Unleased Minerals - BLM Owned
- BLM Mineral Leases**
- BTA OIL PRODUCERS
- COG OPERATING LLC
- CROWN OIL PARTNERS V LP
- DEVON ENERGY PROD CO LP
- EOG RESOURCES INC
- EOG Y RESOURCES INC, EOG A RESOURCES INC, EOG M RESOURCES INC, OXY Y-1 COMPANY
- EOG Y RESOURCES INC, EOG A RESOURCES INC, OXY Y-1 COMPANY, EOG M RESOURCES INC
- GMT EXPLORATION CO
- GMT EXPLORATION CO, EOG Y RESOURCES
- LANDRETH ROBERT E
- REGENERATION ENERGY CORP
- WHITE PHILIP L
- NMSLO Mineral Leases**
- ADVANCE ENERGY PARTNERS, LLC
- APACHE CORP.
- BTA OIL PRODUCERS
- CAZA PETROLEUM, LLC.
- CENTENNIAL RESOURCE PRODUCTION, LLC
- CHEVRON USA INC
- COG OPERATING LLC
- CONOCO PHILLIPS CO.
- ENERGEN RESOURCES CORP.
- EOG Y RESOURCES, INC.
- LEACO NEW MEXICO EXPL. AND PROD.,
- MRC DELAWARE RESOURCES, LLC
- MRC PERMIAN CO.
- V-F PETROLEUM INC



|   |               |                              |
|---|---------------|------------------------------|
| <h2 style="margin: 0;">Mineral Lease Area of Review</h2>                |               |                              |
| <h3 style="margin: 0;">Marino FED SWD 1<br/>Lea County, New Mexico</h3> |               |                              |
| Proj Mgr:<br>Dan Arthur   | July 26, 2019 | Mapped by:<br>Ben Bockelmann |
| Prepared by:<br>  |               |                              |





Marino FED SWD 1  
Deep SWDs AOR

Proj Mgr:  
Dan Arthur

Aug 16, 2019

Mapped by:  
Ben Bockelmann

Prepared by:



**Legend**

★ Proposed SWD

**Devonian/Silurian SWDs**

△ Salt Water Injection, Active (0)

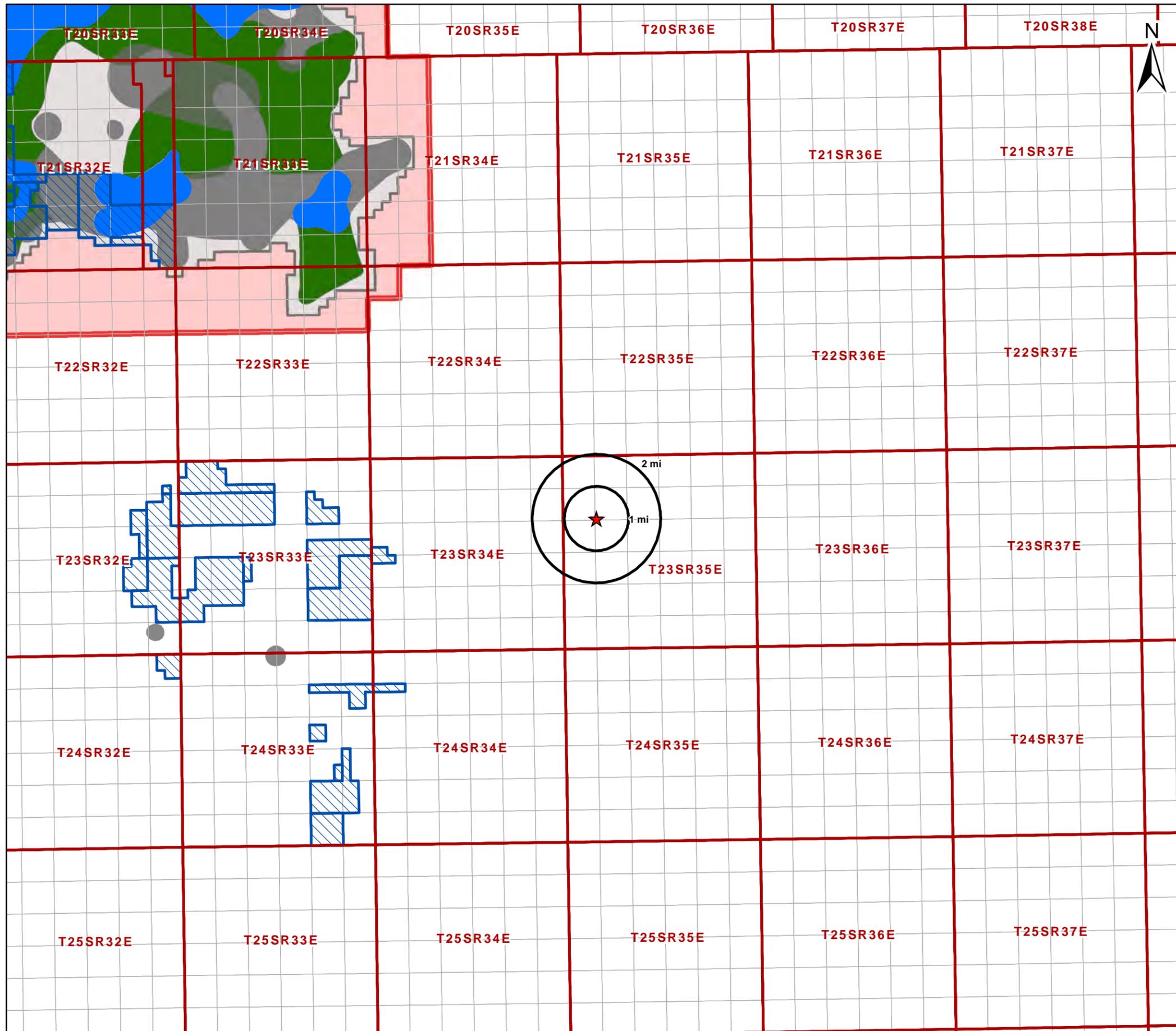
△ Salt Water Injection, New (0)

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 Marino FED SWD 1 (Top of Injection Interval: 14,740')**

| Well Name                       | API#         | Well Type | Operator   | Spud Date   | Location (Sec., Tn., Rng.) | Total Vertical Depth (feet) | Penetrate Inj. Zone? |
|---------------------------------|--------------|-----------|--|-------------|----------------------------|-----------------------------|----------------------|
| FUNKY MONKS 8 FEDERAL COM #302H | 30-025-45015 | O         | EOG RESOURCES INC                                | Not Drilled | L-08-23S-35E               | Proposed (9767)             | No                   |
| FUNKY MONKS 8 FEDERAL COM #603H | 30-025-45016 | O         | EOG RESOURCES INC                                | Not Drilled | L-08-23S-35E               | Proposed (11509)            | No                   |
| FUNKY MONKS 8 FEDERAL COM #604H | 30-025-44922 | O         | EOG RESOURCES INC                                | Not Drilled | J-08-23S-35E               | Proposed (11361)            | No                   |
| FUNKY MONKS 8 FEDERAL COM #606H | 30-025-44924 | O         | EOG RESOURCES INC                                | Not Drilled | J-08-23S-35E               | Proposed (11348)            | No                   |
| FUNKY MONKS 8 FEDERAL COM #601H | 30-025-44837 | O         | EOG RESOURCES INC                                | 9/10/2018   | L-08-23S-35E               | 11483                       | No                   |
| FUNKY MONKS 8 FEDERAL COM #608H | 30-025-44898 | O         | EOG RESOURCES INC                                | Not Drilled | I-08-23S-35E               | Proposed (11369)            | No                   |
| FUNKY MONKS 8 FEDERAL COM #301H | 30-025-45014 | O         | EOG RESOURCES INC                                | Not Drilled | L-08-23S-35E               | Proposed (9762)             | No                   |
| WEASEL BXD STATE COM #001       | 30-025-43254 | Plugged   | EOG RESOURCES INC                                | 5/31/2016   | D-17-23S-35E               | Plugged (100)               | No                   |
| FUNKY MONKS 8 FEDERAL COM #602H | 30-025-44838 | O         | EOG RESOURCES INC                                | 9/13/2018   | L-08-23S-35E               | 11516                       | No                   |
| FUNKY MONKS 8 FEDERAL COM #605H | 30-025-44923 | O         | EOG RESOURCES INC                                | Not Drilled | J-08-23S-35E               | Proposed (11353)            | No                   |
| VERMINATOR BWV STATE COM #002   | 30-025-43255 | Plugged   | EOG RESOURCES INC                                | 5/31/2016   | O-07-23S-35E               | Plugged (100)               | No                   |
| FUNKY MONKS 8 FEDERAL COM #607H | 30-025-44925 | O         | EOG RESOURCES INC                                | Not Drilled | I-08-23S-35E               | Proposed (11379)            | No                   |
| WOLVERINE BWT STATE COM #001    | 30-025-43003 | Plugged   | EOG RESOURCES INC                                | 5/31/2016   | C-18-23S-35E               | Plugged (85)                | No                   |
| WICKED 17 STATE COM #301H       | 30-025-43665 | O         | EOG RESOURCES INC                                | 4/9/2017    | A-17-23S-35E               | 9918                        | No                   |
| PRE-ONGARD WELL #001            | 30-025-08678 | Plugged   | PRE-ONGARD WELL OPERATOR<br>(Murphy Corporation) | 2/27/1957   | A-17-23S-35E               | Plugged (4500)              | No                   |
| PRE-ONGARD WELL #001            | 30-025-20447 | Plugged   | PRE-ONGARD WELL OPERATOR<br>(John N. Trigg)      | 5/30/1963   | E-08-23S-35E               | Plugged (4515)              | No                   |

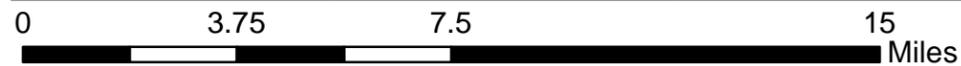
**Notes:** No wells within the 1-mile AOR penetrate the injection interval.



**Legend**

- ★ Proposed SWD
- ▨ Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- Ore Type - Inferred
- KPLA
- SOPA

|  |                        |                                      |
|--|------------------------|--------------------------------------|
| <p>Potash Leases<br/>Area of Review</p>            |                        |                                      |
| <p>Marino FED SWD 1<br/>Lea County, New Mexico</p> |                        |                                      |
| <p>Proj Mgr:<br/>Dan Arthur</p>                    | <p>August 16, 2019</p> | <p>Mapped by:<br/>Ben Bockelmann</p> |
| <p>Prepared by:<br/><b>ALLCONSULTING</b></p>       |                        |                                      |



**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         |
| 3002520222 | 27      | 16S      | 34E   | WOLFCAMP    | 85457   | 51020        | 544             | 1201        |
| 3001542895 | 2       | 23S      | 31E   | WOLFCAMP    | 119472  | 73173        |                 | 1036        |

**Attachment 4**

Injection Formation Water Analyses

### Injection Formation Water Analysis

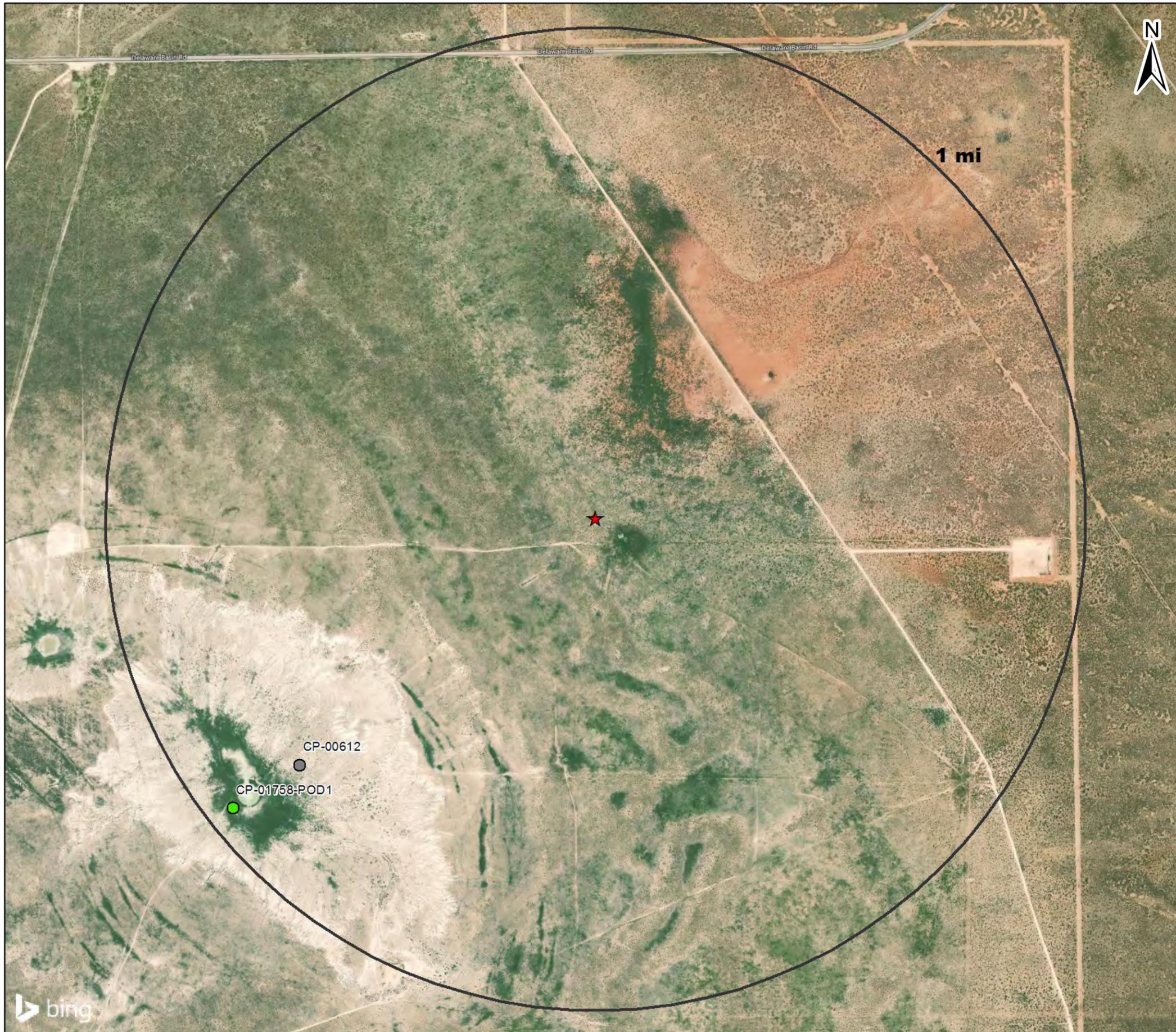
#### Goodnight Midstream Permian, LLC - Devonian, Fusselman & Silurian formations

| Wellname                           | API        | Latitude   | Longitude    | Section | Township | Range | Unit | Ftgs  | Ftgw  | County | State | Field           | Formation | Sample Date | pH  | Tds_mgL | Chloride_mgL | Bicarbonate_mgL | Sulfate_mgL |
|------------------------------------|------------|------------|--------------|---------|----------|-------|------|-------|-------|--------|-------|-----------------|-----------|-------------|-----|---------|--------------|-----------------|-------------|
| E O CARSON #016                    | 3002506987 | 32.4407959 | -103.1737061 | 33      | 21S      | 37E   | D    | 660N  | 860W  | LEA    | NM    | BRUNSON         | FUSSELMAN |             |     | 100,876 | 59,330       | 878             | 2,929       |
| BELL LAKE UNIT #006                | 3002508483 | 32.3282585 | -103.507103  | 6       | 23S      | 34E   | O    | 660S  | 1980E | LEA    | NM    | BELL LAKE NORTH | DEVONIAN  |             | 7   | 71,078  | 42,200       | 500             | 1,000       |
| CLINE FEDERAL #001                 | 3002510717 | 32.3025551 | -103.1358261 | 14      | 23S      | 37E   | K    | 1980S | 1980W | LEA    | NM    | CLINE           | DEVONIAN  |             |     | 118,979 | 71,280       | 462             | 2,593       |
| E C HILL B FEDERAL #001            | 3002510945 | 32.2658463 | -103.1443634 | 34      | 23S      | 37E   | A    | 810N  | 660E  | LEA    | NM    | TEAGUE          | DEVONIAN  |             |     | 112,959 | 67,390       | 288             | 2,765       |
| E C HILL D FEDERAL #001            | 3002510947 | 32.2622147 | -103.1443634 | 34      | 23S      | 37E   | H    | 2131N | 660E  | LEA    | NM    | TEAGUE          | DEVONIAN  |             |     | 35,639  |              |                 |             |
| E C HILL D FEDERAL #004            | 3002510950 | 32.2653503 | -103.1443634 | 34      | 23S      | 37E   | A    | 990N  | 660E  | LEA    | NM    | TEAGUE          | DEVONIAN  |             |     | 236,252 | 147,000      | 129             | 781         |
| ANTELOPE RIDGE UNIT #003           | 3002521082 | 32.2593155 | -103.4610748 | 34      | 23S      | 34E   | K    | 1980S | 1650W | LEA    | NM    | ANTELOPE RIDGE  | DEVONIAN  | 11/14/67    | 6.9 | 80,187  | 47,900       | 476             | 900         |
| STATE B COM #001                   | 3002509716 | 32.1794052 | -103.2212524 | 36      | 24S      | 36E   | C    | 600N  | 1880W | LEA    | NM    | CUSTER          | DEVONIAN  |             |     | 176,234 | 107,400      | 128             | 1,004       |
| ELLIOTT H FEDERAL #001             | 3002512272 | 32.1756325 | -103.0931931 | 31      | 24S      | 38E   | H    | 1980N | 660E  | LEA    | NM    | DOLLARHIDE      | DEVONIAN  |             |     | 58,687  |              |                 |             |
| ELLIOTT H FEDERAL #001             | 3002512272 | 32.1756325 | -103.0931931 | 31      | 24S      | 38E   | H    | 1980N | 660E  | LEA    | NM    | DOLLARHIDE      | DEVONIAN  |             |     | 57,018  |              |                 |             |
| WEST DOLLARHIDE DEVONIAN UNIT #104 | 3002512297 | 32.1720123 | -103.0761032 | 32      | 24S      | 38E   | I    | 1980S | 660E  | LEA    | NM    | DOLLARHIDE      | DEVONIAN  |             |     | 50,858  | 30,200       | 183             | 980         |

Source: <http://gotech.nmt.edu/gotech/Water/producedwater.aspx>

**Attachment 5**

Water Well Map and Well Data



**Legend**

★ Proposed SWD

**NMOSE PODs**

**Status**

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

Water Wells Area of Review

Marino FED SWD 1  
Lea County, New Mexico

Proj Mgr:  
Dan Arthur

August 12, 2019

Mapped by:  
Ben Bockelmann

Prepared by:



0 0.25 0.5 1 Miles

Service Layer Credits: © 2019 Microsoft Corporation © 2019 DigitalGlobe ©CNES (2019) Distribution Airbus DS © 2019 HERE

| Water Well Sampling Rationale                       |                |                            |   |   |                   |   |
|---|----------------|----------------------------|---|---|-------------------|---|
| Goodnight Midstream Permian, LLC - Marino FED SWD 1 |                |                            |   |   |                   |   |
| SWD   | Water Wells    | Owner                      | Available Contact Information                               | Use   | Sampling Required | Notes   |
| Marino FED SWD 1                                    | CP-00612       | J.C. Mills                 | N/A   | Prospecting or development of natural resources | No                | Devon Energy used this water well to drill the Keller 4 St. #1 well. Permit Expired in 2015 |
| Marino FED SWD 1                                    | CP-01758 POD 1 | Limestone Basin Properties | John Langdon (Owner):<br>210-835-8057<br>John@bpranches.com | Exploration                                     | No                | Surface lease holder stated that the well is not operational.                               |

**Attachment 6**

Induced Seismicity Assessment Letter

August 17, 2019

Mr. Phillip Goetze, P.G.  
NM EMNRD – Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Subject: Induced Seismicity Potential Statement for the Marino FED SWD 1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Goodnight Midstream Permian, LLC (Goodnight), proposed Marino FED SWD 1, hereinafter referred to as the “Subject Well.”

As outlined herein, based on my experience as an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low fault slip potential (FSP) of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

The Subject Well, is located 265 FSL & 263 FWL of Section 8, in T23-S and R35-E of Lea County, New Mexico. Historically, the Eddy and Lea Counties area has experienced very limited recorded seismic activity (per the U.S. Geological Survey [USGS] earthquake catalog database). There has been one known seismic events located within a 25-mile radius of the proposed Subject Well. The closest recorded seismic event was a M2.9 that occurred on December 4<sup>th</sup>, 1984, and was located approximately 9.8 miles southwest of the Subject Well (See Exhibit 1). The closest Class IID well injecting into the same formations (Devonian-Silurian) of the Subject Well is approximately 4.5 miles to the northwest (See Exhibit 1).

Goodnight does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Fault data from USGS indicates that the closest known fault is approximately 2.5 miles west of the Subject Well (See Exhibit 1).

In a recent paper written by Snee and Zoback (2018) entitled “State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity,” the authors found that large groups of mostly north-south striking Precambrian basement faults, predominantly located along the Central Basin Platform, the western Delaware Basin, and large parts of the Northwest Shelf (which includes Eddy and Lea counties, New Mexico) have low FSP at the modeled fluid-pressure

perturbation. The map in Exhibit 2 depicts the low probability risk of FSP for the Delaware Basin and Northwest Shelf areas (Snee and Zoback 2018).

Geologic analysis indicates that the proposed Devonian-Silurian injection zone is overlain by approximately 200 to 400 feet of Woodford Shale, which is the upper confining zone and will serve as a barrier for upward injection fluid migration. Additionally, the Simpson Group that lies directly below the Montoya Formation will act as a lower confining zone to prohibit fluids from migrating downward into the underlying Ellenburger Formation and Precambrian basement rock. See the stratigraphic column for the Delaware Basin included in Exhibit 3.

In the Eddy and Lea Counties area of New Mexico, the Simpson Group is comprised of a series of Middle to Upper Ordovician carbonates, several sandstones, and sandy shales that range from approximately 350 to 650 feet thick (Jones 2008). This group of rocks is capped by the limestones of the Bromide Formation, which is approximately 200 feet thick in this area (Jones 2008). The closest deep well drilled into the Precambrian basement was completed by the Skelly Oil Company in 1975. This well is located in Section 17, Range 36E, Township 25S of Lea County (API No.30-025-25046) and encountered 602 feet of Ellenburger Formation before reaching the top of the Precambrian granite at a depth of 18,920 feet. Based on the estimated thickness of the Simpson Group and Ellenburger Formation in this area, the Precambrian basement should be approximately 1,000 to 1,200 feet below the bottom of the proposed injection zones in the Subject Well.

### **Conclusion**

As an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low FSP of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

Sincerely,  
ALL Consulting

A handwritten signature in black ink, appearing to read "J. Daniel Arthur". The signature is fluid and cursive, with a large initial "J" and "A".

J. Daniel Arthur, P.E., SPEC  
President and Chief Engineer

Enclosures  
References  
Exhibits

## **References**

Ball, Mahlon M. 1995. "Permian Basin Province (044)." In *National Assessment of United States Oil and Gas Resources—Results, Methodology, and Supporting Data*. U.S. Geological Survey. <https://certmapper.cr.usgs.gov/data/noga95/prov44/text/prov44.pdf> (accessed June 18, 2018).

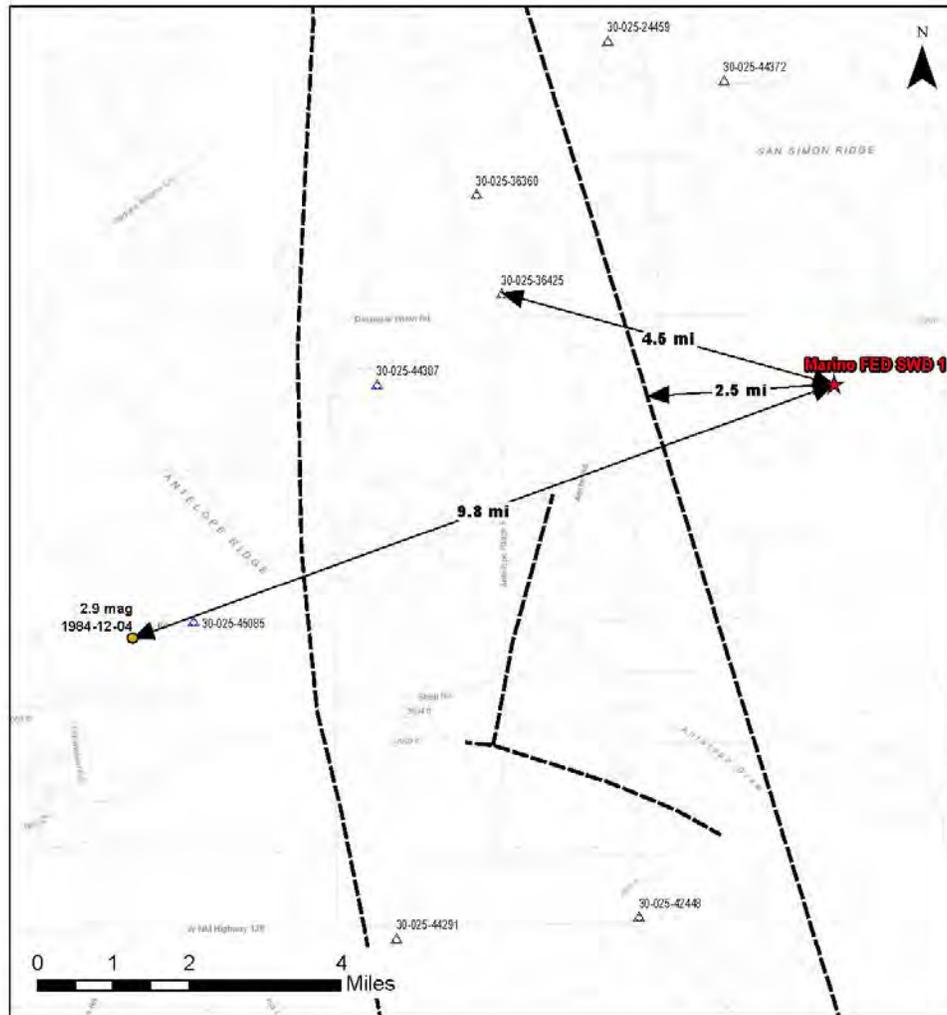
Green, G.N., and G.E. Jones. 1997. "The Digital Geologic Map of New Mexico in ARC/INFO Format." U.S. Geological Survey Open-File Report 97-0052. <https://mrdata.usgs.gov/geology/state/state.php?state=NM> (accessed June 14, 2018).

Jones, Rebecca H. 2008. "The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, and Reservoir Development." [http://www.beg.utexas.edu/resprog/permianbasin/PBGSP\\_members/writ\\_synth/Simpson.pdf](http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf) (accessed June 19, 2018).

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018. "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity." *The Leading Edge* 37, no. 2 (February 2018): 127-34.

U.S. Geological Survey (USGS). No date. Earthquakes Hazard Program: Earthquake Catalog. <https://earthquake.usgs.gov/earthquakes/search/> (accessed June 14, 2018).

## **Exhibits**



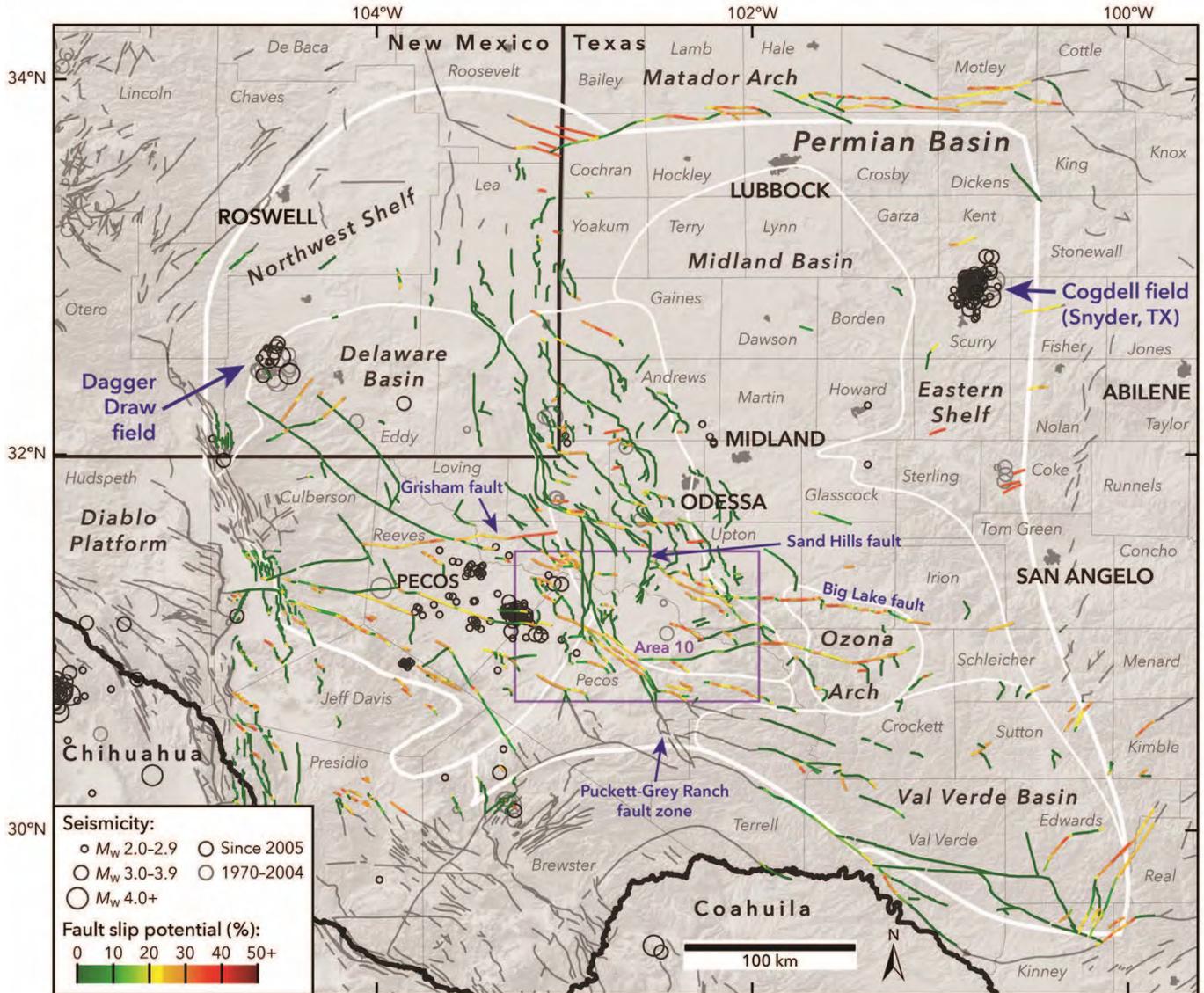
**Marino FED SWD 1  
 Seismic Activity AOR**

|                                      |              |                              |
|--------------------------------------|--------------|------------------------------|
| Proj Mgr:<br>Dan Arthur              | Jul 22, 2019 | Mapped by:<br>Ben Bockelmann |
| Prepared by:<br><b>ALLCONSULTING</b> |              |                              |

- Legend**
- ★ Proposed SWD
  - USGS Seismic Events
  - USGS Faults
  - △ Salt Water Injection, Active (6)
  - △ Salt Water Injection, New (3)

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

**Exhibit 1. Map Showing the Distances from Known and Inferred Faults,  
 Seismic Event, and Closest Deep Injection Well**



**Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin**

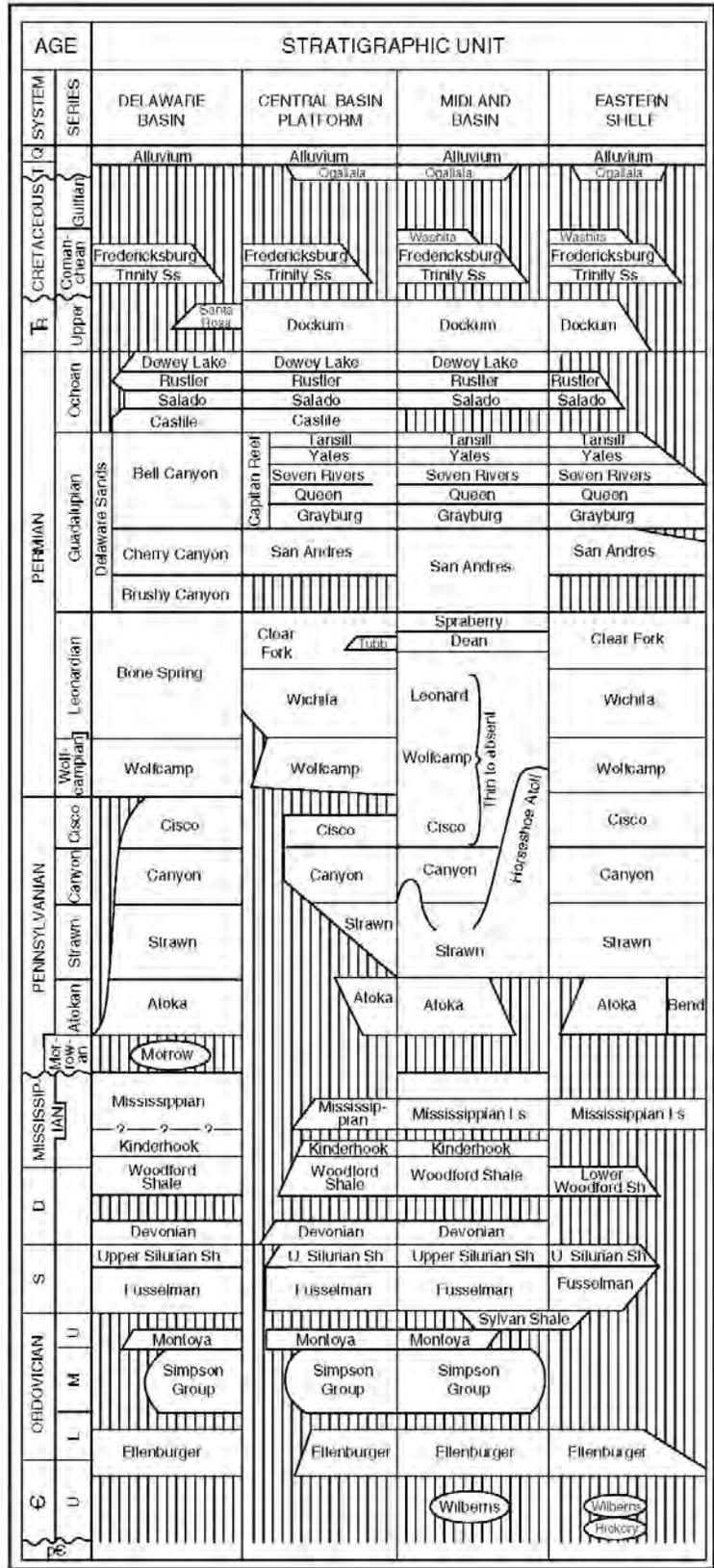


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

**Attachment 7**

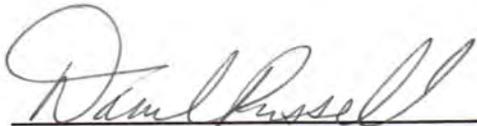
Public Notice Affidavit and Notice of Application Confirmations

# Affidavit of Publication

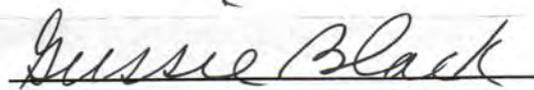
STATE OF NEW MEXICO  
COUNTY OF LEA

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).

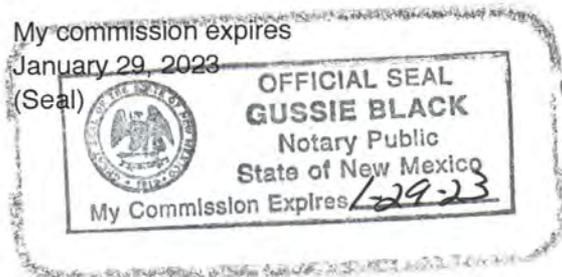
Beginning with the issue dated  
August 18, 2019  
and ending with the issue dated  
August 18, 2019.

  
\_\_\_\_\_  
Publisher

Sworn and subscribed to before me this  
18th day of August 2019.

  
\_\_\_\_\_  
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 |
|--|-------|
| <b>LEGAL NOTICE</b><br>AUGUST 18, 2019   |       |
| <b>APPLICATION FOR AUTHORIZATION TO INJECT</b>   |       |
| 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: <u>Marino FED SWD 1</u><br><u>Located 16.34 miles Southwest from Eunice, NM</u><br><u>SW ¼ SW ¼, Section 8, Township 23S, Range 35E</u><br><u>265' FSL &amp; 263' FWL</u><br><u>Lea County, NM</u>   |       |
| NAME AND DEPTH OF DISPOSAL ZONE: <u>Devonian - Silurian (14,740' - 16,320')</u>  |       |
| EXPECTED MAXIMUM INJECTION RATE: <u>30,000 Bbls/day</u>  |       |
| EXPECTED MAXIMUM INJECTION PRESSURE: <u>2,948 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 Allaman at 918-382-7581.<br>#34584   |       |

67115320

00232258

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

### Marino FED SWD 1 - Notice of Application Recipients

| Entity   | Address                      | City       | State | Zip Code |
|--|------------------------------|------------|-------|----------|
| <b>Land &amp; Mineral Owner</b>                          |                              |            |       |          |
| New Mexico BLM   | 620 E. Greene St.            | Carlsbad   | NM    | 88220    |
| <b>OCD District</b>                                      |                              |            |       |          |
| NMOCD District 1   | 1625 N. French Drive         | Hobbs      | NM    | 88240    |
| <b>Leasehold Operators</b>                               |                              |            |       |          |
| Centennial Resource Production, LLC                      | 1001 17th St., Suite 1800    | Denver     | CO    | 80202    |
| Commision of Public Lands - State Land Office            | 310 Old Santa Fe Trail       | Santa Fe   | NM    | 87501    |
| Energen Resource Corporation<br>(ENERGEN RESOURCE CORP.) | 605 Arrington Blvd. North    | Birmingham | AL    | 35203    |
| EOG Resources, Inc. (EOG RESOURCE INC)                   | 104 S. 4th Street            | Artesia    | NM    | 88210    |
| EOG A Resources, Inc. ( EOG A RESOURCES INC)             | P.O. Box 900                 | Artesia    | NM    | 88211    |
| EOG M Resources, Inc. ( EOG M RESOURCES INC)             | P.O. Box 840                 | Artesia    | NM    | 88211    |
| EOG Y Resources, Inc. ( EOG Y RESOURCES INC)             | 104 S. 4th Street            | Artesia    | NM    | 88210    |
| GMT Exploration Company, LLC<br>(GMT EXPLORATION CO)     | 1560 Broadway, Suite 2000    | Denver     | CO    | 80202    |
| MRC Permian Company (MRC PERMIAN CO.)                    | 5400 LBJ Freeway, Suite 1500 | Dallas     | TX    | 75240    |
| OXY Y-1 Company  | P.O. Box 27570               | Houston    | TX    | 77227    |

**Notes:** 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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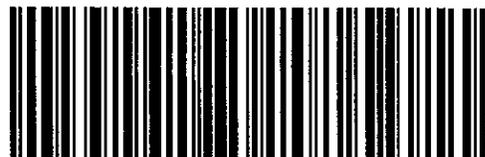
Energen Resource Corporation  
605 Arrington Blvd. North  
Birmingham AL 35203-2707

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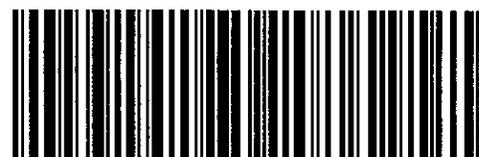
EOG A Resources, Inc.  
P.O. Box 900  
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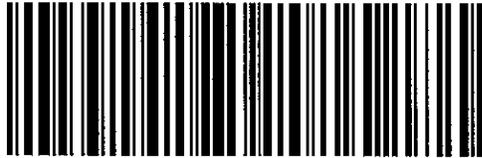
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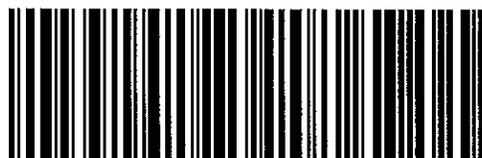
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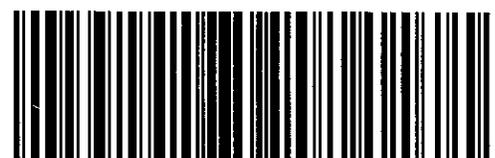
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Denver CO 80202-5138

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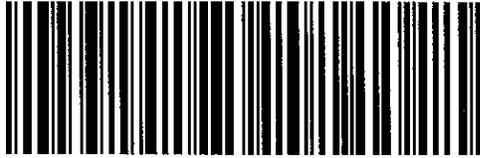
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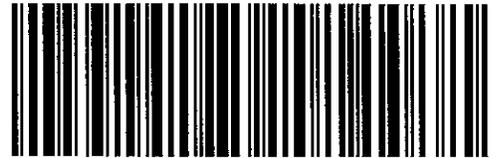
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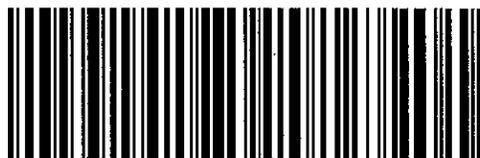
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