

Initial Application Part I

Received: 11/26/2019

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



November 26, 2019

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

Subject: Vista Disposal Solutions, LLC – Worrill Federal SWD #1
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Vista Disposal Solutions, LLC (Vista), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Worrill Federal SWD #1, a proposed salt water disposal well, in Eddy County, NM.

Should you have any questions regarding the enclosed application, please contact Dan Arthur at (918) 382-7581 or darthur@all-llc.com.

Sincerely,
ALL Consulting

Dan Arthur
President/Chief Engineer

KNO1S-191126-C-1080

Revised March 23, 2017

| | | | |
|--------------------|---------------|-----------|-----------------------|
| RECEIVED: 11/26/19 | REVIEWER: BLL | TYPE: SWD | APP NO: pBL1933150806 |
|--------------------|---------------|-----------|-----------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: _____ OGRID Number: _____
 Well Name: _____ API: _____
 Pool: _____ Pool Code: _____

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location - Spacing Unit - Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD

SWD-2337

- 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.

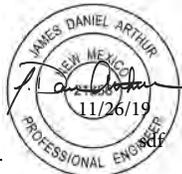
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Date

Print or Type Name



 Signature



Phone Number

e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal
_____ Storage Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: Vista Disposal Solutions, LLC

ADDRESS: 12444 NM 10th St., Building G, Suite 202-512, Yukon, OK 73099

CONTACT PARTY Nate Alleman PHONE: 918-382-7581

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes X No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

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

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

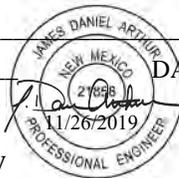
XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Dan Arthur, P.E., SPEC TITLE: President/Chief Engineer

SIGNATURE: [Signature] DATE: 11/26/2019

E-MAIL ADDRESS: darthur@all-llc.com



XV. If the information required under Sections VI, V _____ ve has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject
Well Name: Worrill Federal SWD #1

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

A.

(1) General Well Information:

Operator: Vista Disposal Solutions, LLC (OGRID No. 329051)
Lease Name & Well Number: Worrill Federal SWD #1
Location Footage Calls: 1,372' FNL & 1,903' FWL
Legal Location: Unit Letter F, S14 T25S R31E
Ground Elevation: 3,394'
Proposed Injection Interval: 16,775' – 18,140'
County: Eddy

(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 | 625' | 635 | Surface | Circulation |
| Intermediate 1 | 14-3/4" | 13-3/8" | 68.0 lb/ft | 4,370' | 980 | Surface | Circulation |
| Intermediate 2 | 12-1/4" | 9-5/8" | 53.5 lb/ft | 13,705' | 4,550 | Surface | Circulation |
| Liner | 8-1/2" | 7-5/8" | 39.0 lb/ft | 16,775' | 260 | 13,505' | CBL |

Note: A DV Tool will be set at 5,000'.

(3) Tubing Information:

4.5" (composite weight string) of fiberglass-coated tubing with setting depth of 16,755'

(4) Packer Information: Baker SC-2 or equivalent packer set at 16,755'

B.

(1) Injection Formation Name: Devonian and Silurian formations

Pool Name: SWD; DEVONIAN - SILURIAN

Pool Code: 97869

(2) Injection Interval: Open-hole injection between 16,775' – 18,140'

(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.

- Permian Delaware Mountain Group (4,370')
- Bone Springs (8,265')
- Wolfcamp (11,815')
- Atoka (13,875')
- Morrow (14,650')

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
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership 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:** 40,000 bpd
Proposed Average Injection Rate: 20,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 3,355 psi (based on 0.2 psi per foot)
Proposed Average Injection Pressure: approximately 1,500 – 2,000 psi
- (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 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 formations from 16,775 – 18,140 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 deepest Underground Source of Drinking Water (USDW) is at a depth of approximately 600 feet. Surface casing will be set at a depth of 625 feet, which is 25 feet below the top of the Rustler formation, which isolates the USDW. Geophysical log assessment was conducted to accurately determine the top of the Rustler formation, and the top and the base of the Salado formation in this area. Water well depths in the area range from approximately 325 - 429 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

Geophysical logs will be submitted to the Division upon completion of the well.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, there are no groundwater wells located within 1-mile of the proposed SWD location; therefore, no 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

ALL Consulting has examined available geologic and engineering data, and has found no evidence of faulting present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing and cementing program has been designed to further 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 Carlsbad Current Argus 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:

- C-102
- Wellbore Diagram

Attachment 2: Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership 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

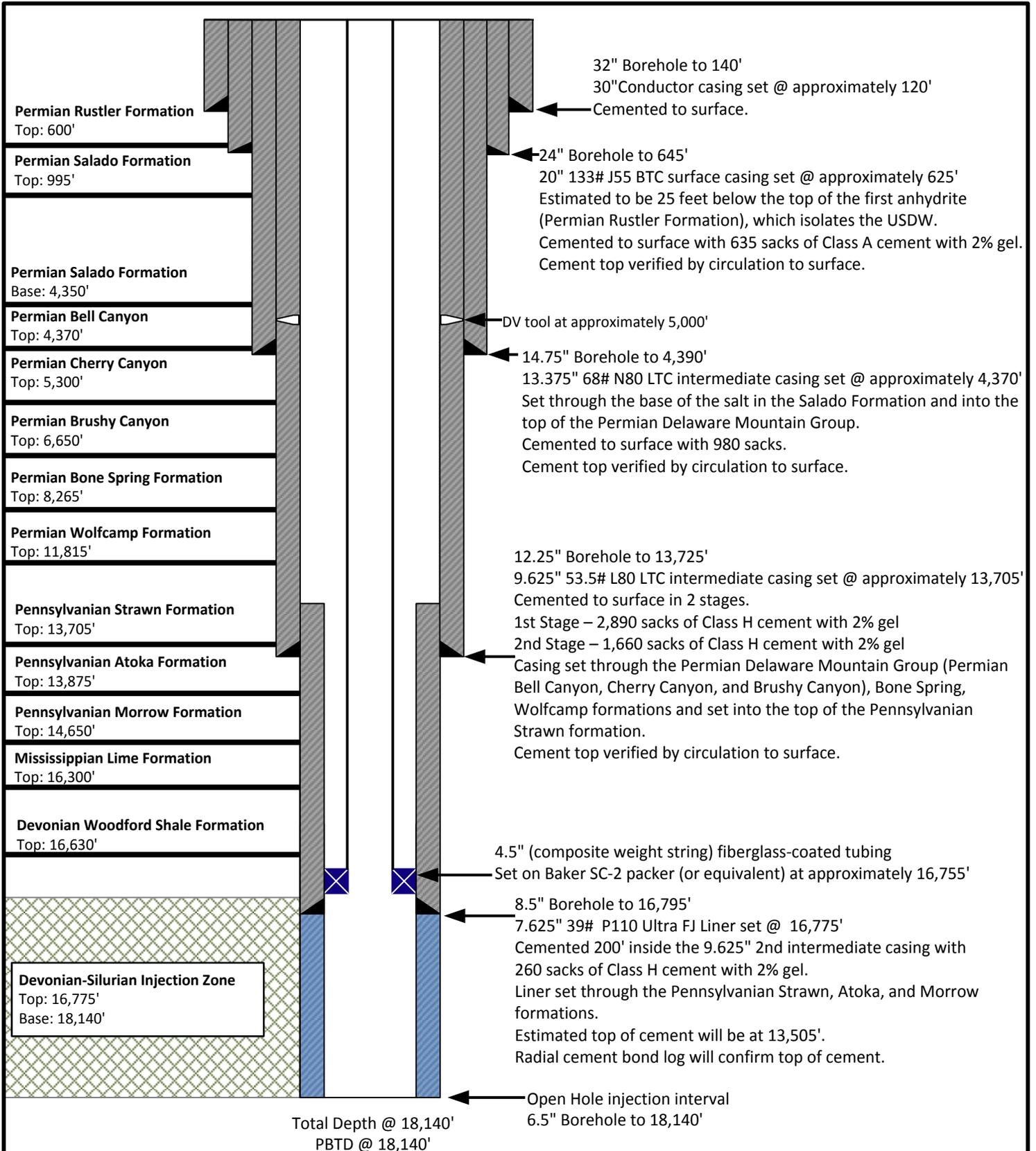
Attachment 5: Water Well Map and Well Data

Attachment 6: Induced Seismicity Assessment Letter

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

- C-102
- 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
Prepared for:
VISTA
DISPOSAL SOLUTIONS, LLC

Drawn by: Joshua Ticknor
Project Manager:
Dan Arthur
Date: 11/19/2019

Vista Disposal Solutions, LLC
Worrill Federal SWD #1

SC-2 Packer**1 Introduction**

The SC-2™ packer is Baker Hughes, a GE company (BHGE)' primary packer for cased hole gravel pack and frac pack applications where a high performance retrievable packer is required.

2 Description

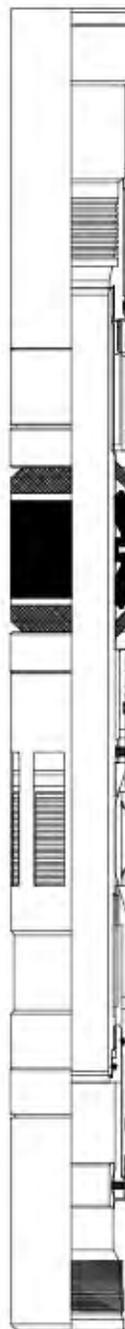
The SC-2 packer is a fully retrievable, high-performance retainer production packer. Although the packer was originally designed for premium gravel pack applications, it may also be used as a standard completion packer in wells where a premium retrievable production packer is required.

The SC-2 packer is fully compatible with standard BHGE sealing accessories, including retrievable and expendable plugs.

Refer to the specifications guide in the Packer Size/Model Availability Guide, Specification Guide, and Packer/Accessory Guide for SC™ and HP™ Packers (Product Family H48861), Unit 5750 under Sand Control Tools for packer/accessory size and packer size/model availability.

3 Application

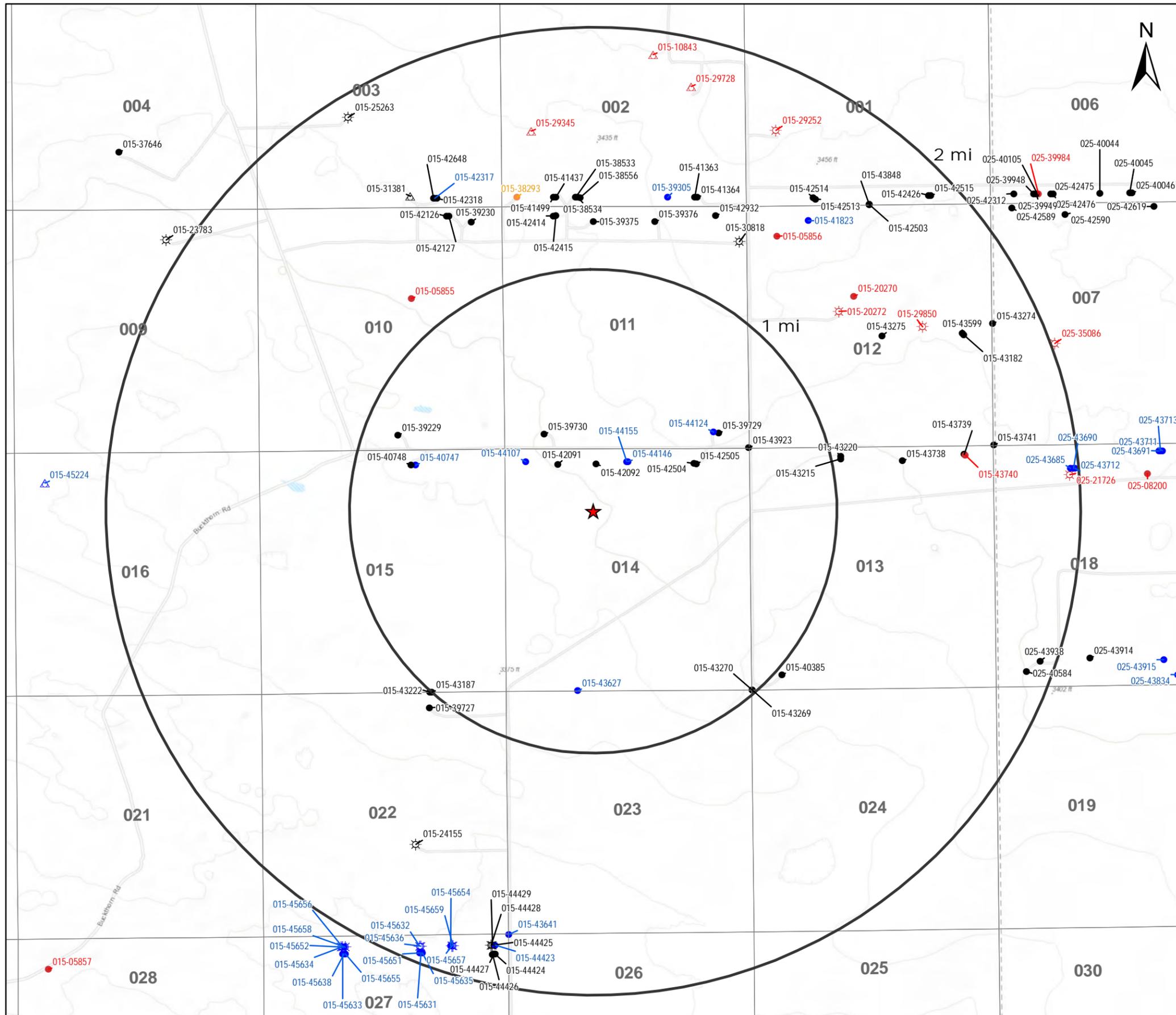
The SC-2 packer is primarily used in gravel pack or frac pack applications where a higher differential pressure production rating, treating pressure rating and temperature are required. The SC-2 may also be used as a production packer.



Attachment 2

Area of Review Information:

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



Legend

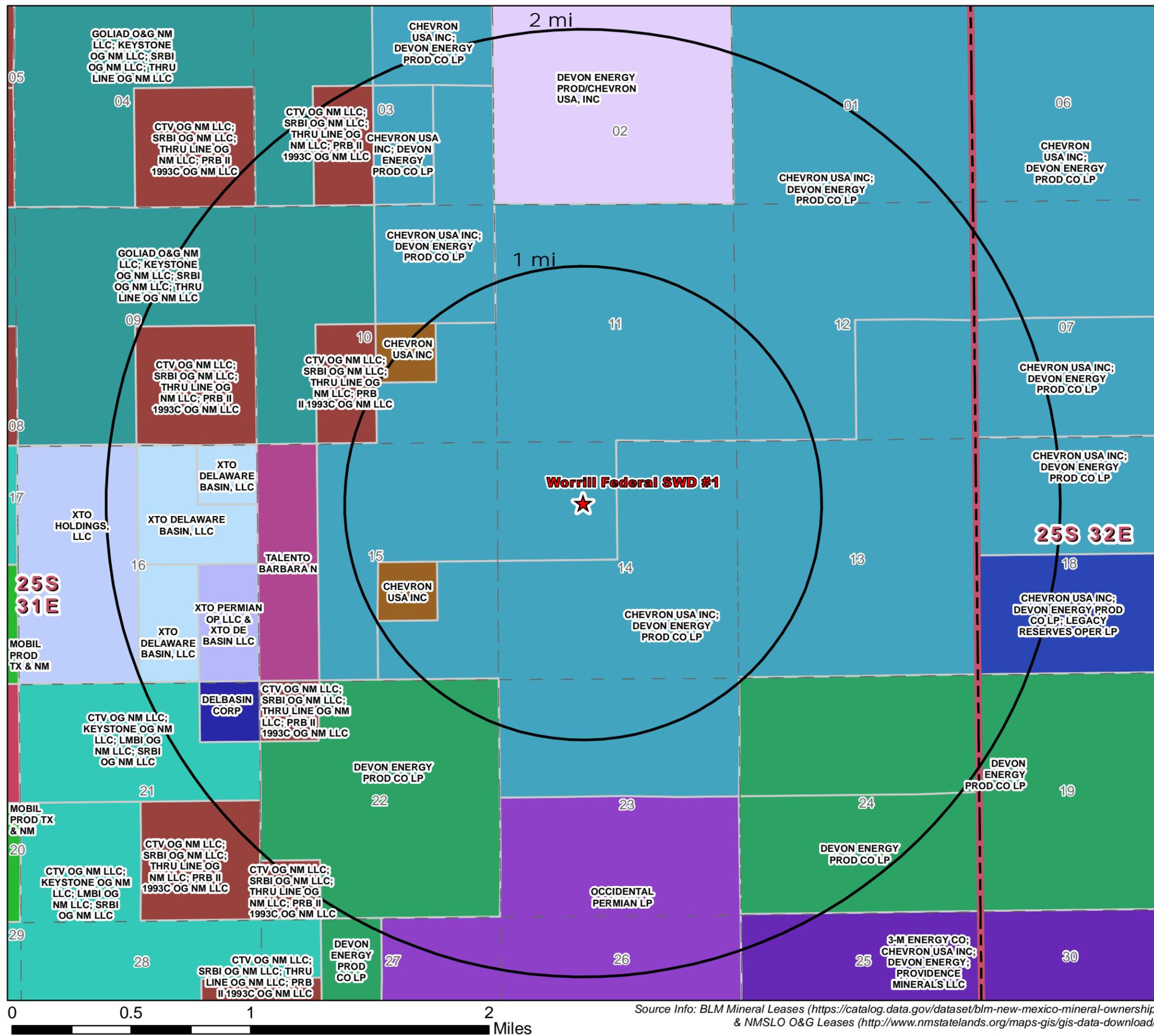
- ★ Proposed SWD
- Miscellaneous (1)
- ☀ Gas, Active (6)
- ☀ Gas, New (7)
- ☀ Gas, Plugged (5)
- Oil, Active (67)
- Oil, New (27)
- Oil, Plugged (7)
- Oil, Temporarily Abandoned (1)
- △ Salt Water Injection, Active (1)
- △ Salt Water Injection, New (1)
- △ Salt Water Injection, Plugged (3)

Source Info: NMOCD O&G Wells updated 7/30/2019
<http://www.emnrd.state.nm.us/OCD/ocdgis.html>

| | | |
|--|-------------------|------------------------------|
| <h2>O&G Wells Area of Review</h2> | | |
| <h3>WorriII Federal SWD #1</h3> <h4>Eddy County, New Mexico</h4> | | |
| Proj Mgr: Dan Arthur | November 22, 2019 | Mapped by: Ben Bockelmann |
| Prepared for: | Prepared by: | |



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

BLM Mineral Leases

- 3-M ENERGY CO; CHEVRON USA INC; DEVON ENERGY; PROVIDENCE MINERALS LLC
- CHEVRON USA INC
- CHEVRON USA INC; DEVON ENERGY PROD CO LP
- CHEVRON USA INC; DEVON ENERGY PROD CO LP; LEGACY RESERVES OPER LP
- CTV OG NM LLC; 32 MINERAL O&G NM LLC; SRBI OG NM LLC; THRU LINE OG NM LLC
- CTV OG NM LLC; KEYSTONE OG NM LLC; LMBI OG NM LLC; SRBI OG NM LLC
- CTV OG NM LLC; SRBI OG NM LLC; THRU LINE OG NM LLC; PRB II 1993C OG NM LLC
- DELBASIN CORP
- DEVON ENERGY PROD CO LP
- GOLIAD O&G NM LLC; KEYSTONE OG NM LLC; SRBI OG NM LLC; THRU LINE OG NM LLC
- MOBIL PROD TX & NM
- OCCIDENTAL PERMIAN LP
- TALENTO BARBARA N

NMSLO Mineral Leases

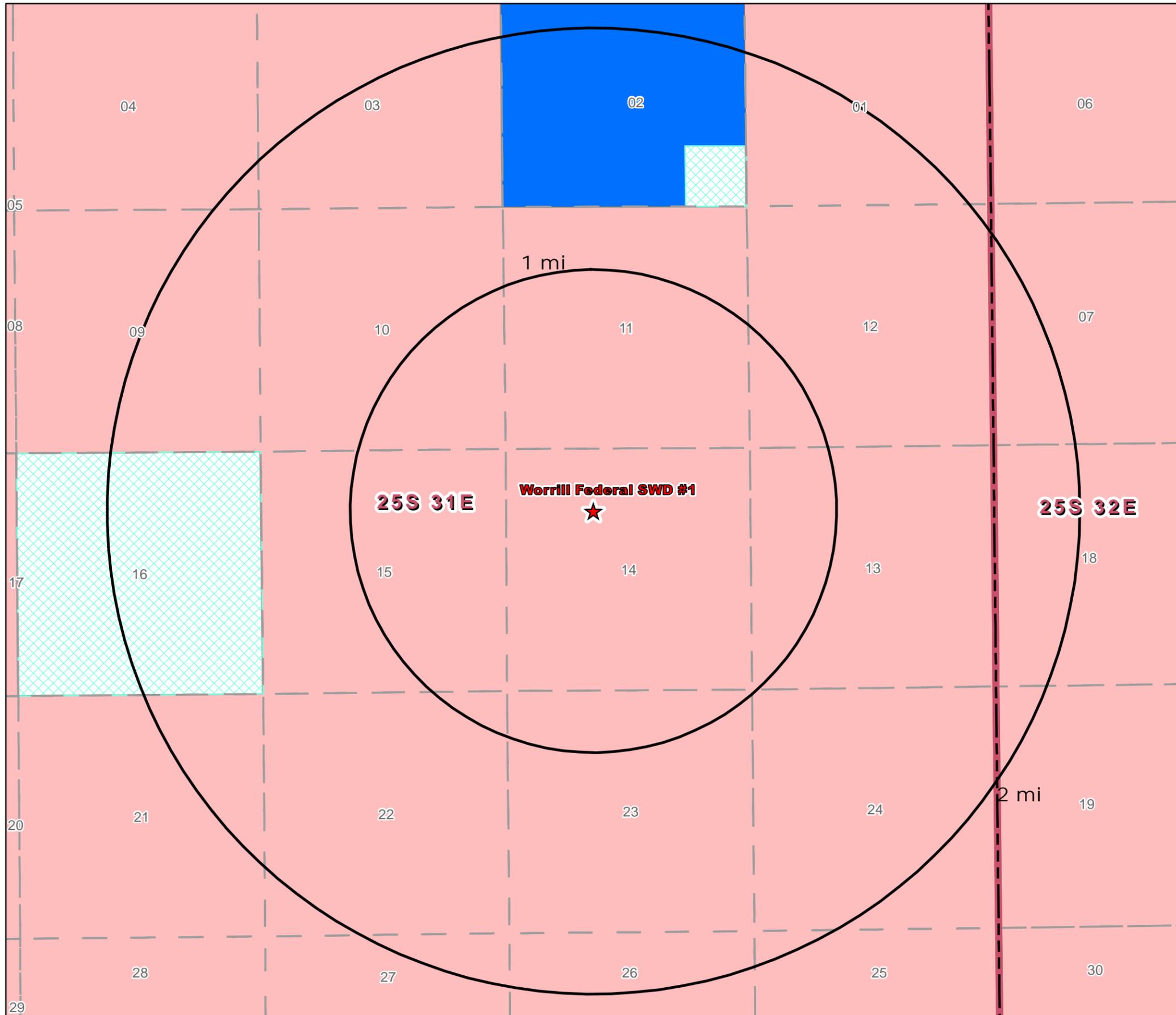
- DEVON ENERGY PROD/CHEVRON USA, INC
- XTO DELAWARE BASIN, LLC
- XTO HOLDINGS, LLC
- XTO PERMIAN OP LLC & XTO DE BASIN LLC



| | | |
|--|---------------------------------------|------------------------------|
| <h2>Mineral Lease Area of Review</h2> | | |
| <h3>Worrill Federal SWD #1 Eddy County, New Mexico</h3> | | |
| Proj Mgr: Dan Arthur | November 25, 2019 | Mapped by: Ben Bockelmann |
| Prepared for: VISTA <small>WATERBURY SOLUTIONS, LLC</small> | Prepared by: ALL CONSULTING | |

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/>)





Legend

★ Proposed SWD

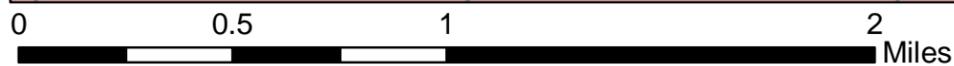
Mineral Ownership

■ All minerals are owned by U.S. (BLM)

■ Subsurface minerals (NMSLO)

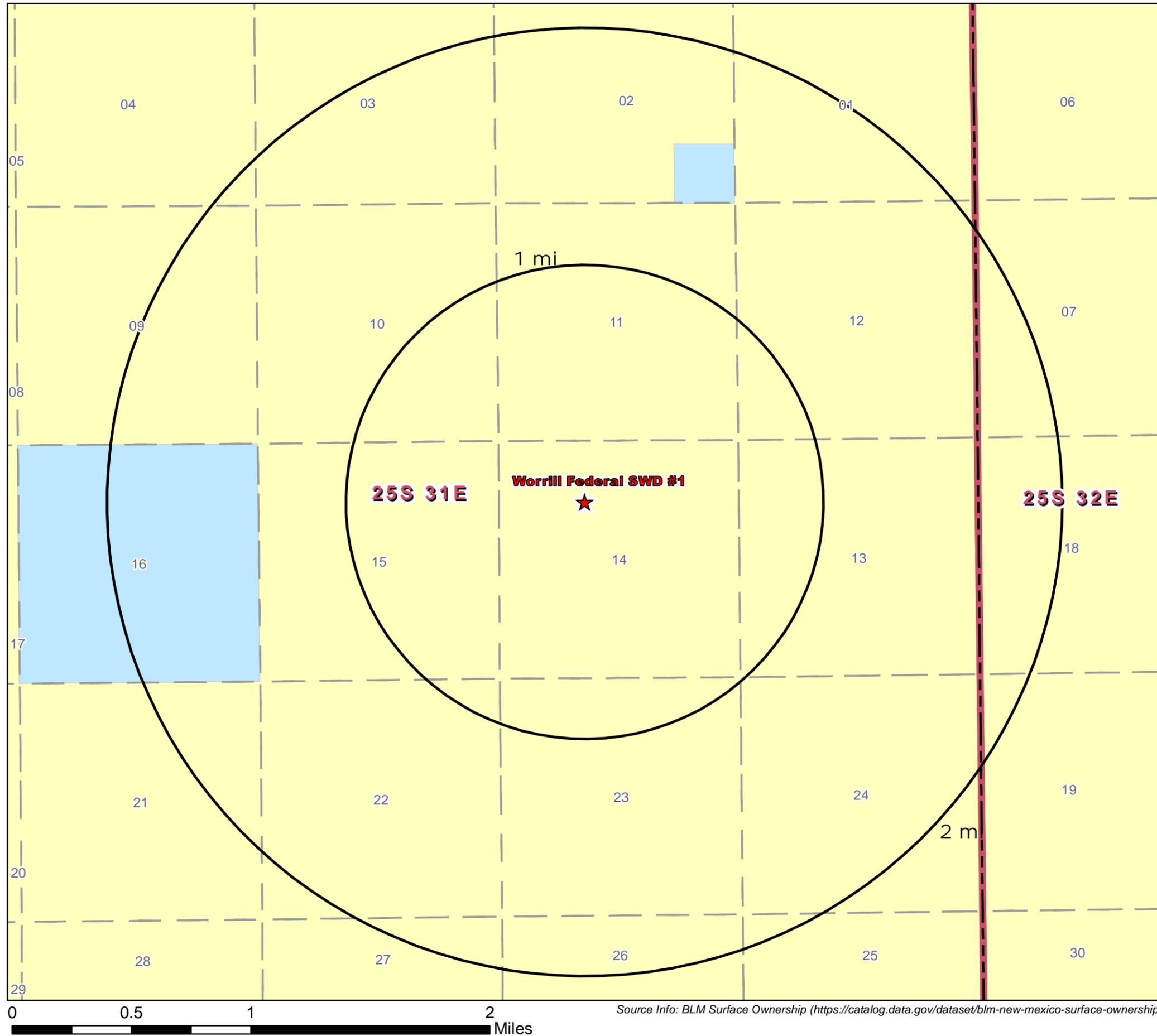
■ Surface and Subsurface minerals (NMSLO)

□ Private minerals



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/>)

| | | |
|--|---|------------------------------|
| Mineral Ownership Area of Review | | |
| Worrill Federal SWD #1 Eddy County, New Mexico | | |
| Proj Mgr: Dan Arthur | November 22, 2019 | Mapped by: Ben Bockelmann |
| Prepared for:  | Prepared by:  | |



Legend

★ Proposed SWD

Surface Ownership

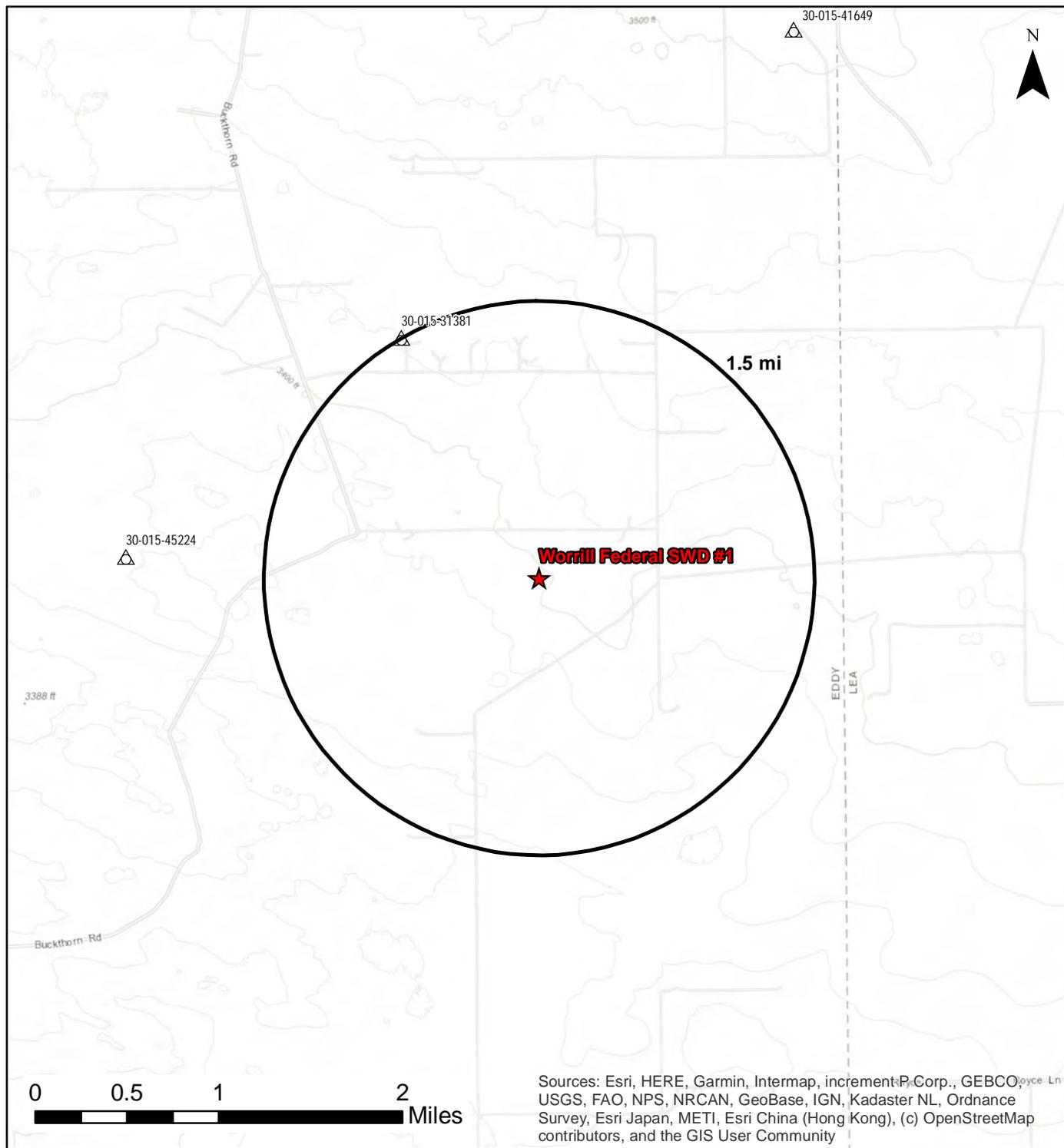
BLM
 State



| | | |
|---|-------------------|------------------------------|
| Surface Ownership Area of Review | | |
| Worrill Federal SWD #1 Eddy County, New Mexico | | |
| Proj Mgr: Dan Arthur | November 22, 2019 | Mapped by: Ben Bockelmann |
| Prepared for: | Prepared by: | |

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

0 0.5 1 2 Miles



Sources: Esri, HERE, Garmin, Intermap, increment P. Corp., GEBCO, (c) 2019, 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

**Worrill Federal SWD #1
Deep SWDs AOR**

| | | |
|-------------------------|--------------|------------------------------|
| Proj Mgr: Dan Arthur | Nov 25, 2019 | Mapped by: Ben Bockelmann |
|-------------------------|--------------|------------------------------|

| | |
|--|---|
| Prepared for:  | Prepared by:  |
|--|---|

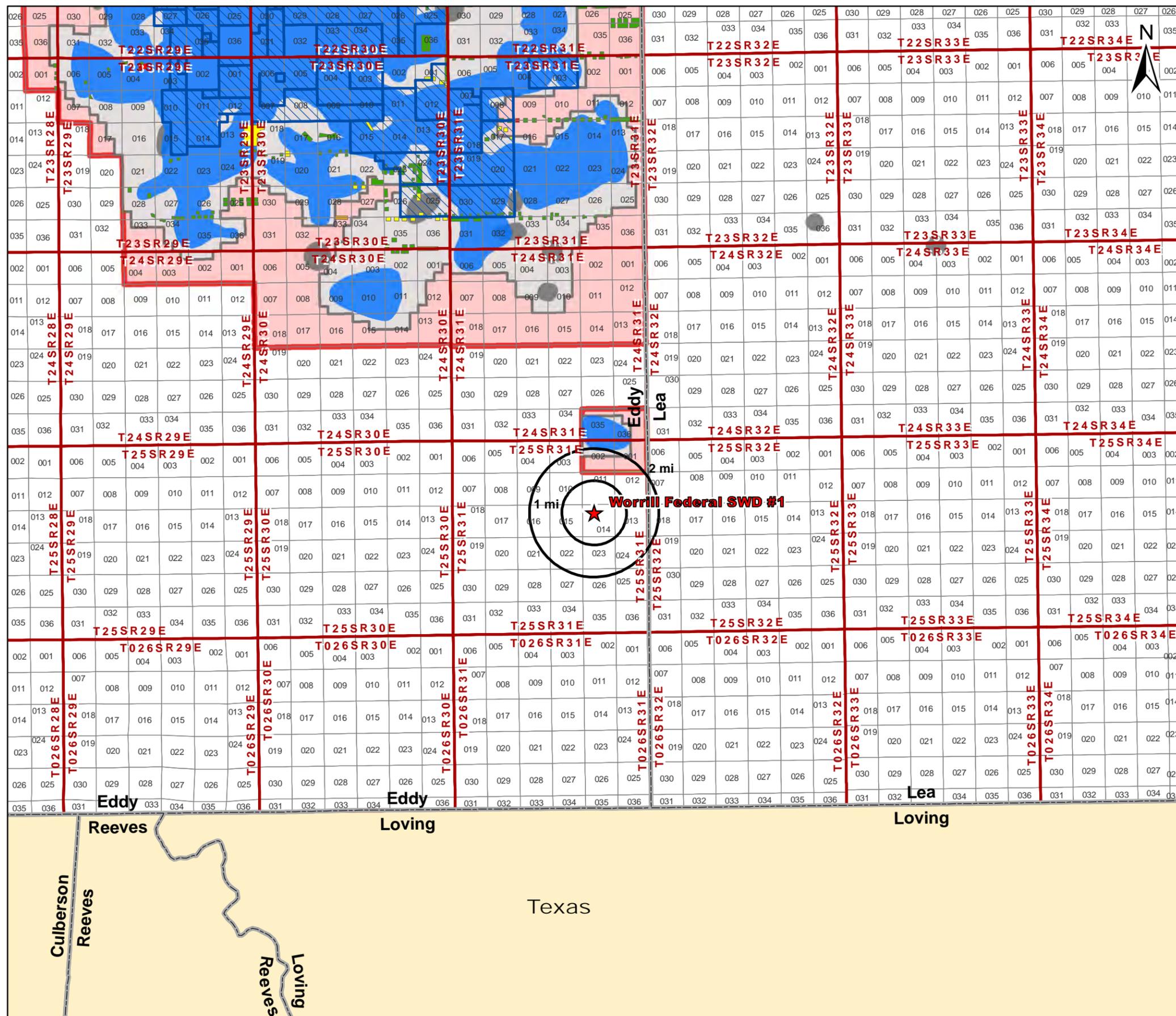
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- ★ Proposed SWD **Devonian/Silurian SWDs**
- △ Salt Water Injection, Active (3)

Source Info: NMOCD O&G Wells updated 7/30/2019
(<http://www.emnrd.state.nm.us/OCD/ocdgis.html>)

| AOR Tabulation for Worrill Federal SWD #1 (Top of Injection Interval: 16,775') | | | | | | | |
|--|--------------|-----------|-------------------------------------|-------------|----------------------------|-----------------------------|----------------------|
| Well Name | API# | Well Type | Operator | Spud Date | Location (Sec., Tn., Rng.) | Total Vertical Depth (feet) | Penetrate Inj. Zone? |
| BELGIAN 15 FEDERAL #002H | 30-015-43627 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | P-15-25S-31E | Proposed (10338) | No |
| BELGIAN 15 FEDERAL COM #001H | 30-015-43187 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 10/2/2015 | O-15-25S-31E | 10342 | No |
| COTTON DRAW 10 FEDERAL COM #001H | 30-015-39229 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 3/10/2012 | O-10-25S-31E | 8179 | No |
| COTTON DRAW 14 23 FEDERAL COM #421H | 30-015-44107 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | D-14-25S-31E | Proposed (8175) | No |
| COTTON DRAW 14 23 FEDERAL COM #422H | 30-015-44155 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | C-14-25S-31E | Proposed (8189) | No |
| COTTON DRAW 14 23 FEDERAL COM #423H | 30-015-44146 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | B-14-25S-31E | Proposed (8218) | No |
| COTTON DRAW 14 23 FEDERAL COM #424H | 30-015-44124 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | A-14-25S-31E | Proposed (8175) | No |
| COTTON DRAW 14 FED COM #001H | 30-015-42091 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 7/17/2014 | D-14-25S-31E | 10398 | No |
| COTTON DRAW 14 FED COM #002H | 30-015-42092 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 8/21/2014 | D-14-25S-31E | 10398 | No |
| COTTON DRAW 14 FEDERAL #003H | 30-015-42504 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 12/29/2014 | A-14-25S-31E | 10507 | No |
| COTTON DRAW 14 FEDERAL #004H | 30-015-42505 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 11/29/2014 | A-14-25S-31E | 10485 | No |
| COTTON DRAW 15 FED COM #002H | 30-015-40748 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 6/13/2013 | B-15-25S-31E | 10397 | No |
| COTTON DRAW 15 FED COM #003H | 30-015-40747 | O | DEVON ENERGY PRODUCTION COMPANY, LP | Not Drilled | B-15-25S-31E | Proposed (8212) | No |
| COTTON DRAW UNIT #158H | 30-015-39729 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 2/28/2012 | P-11-25S-31E | 8211 | No |
| COTTON DRAW UNIT #162H | 30-015-39730 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 11/15/2012 | M-11-25S-31E | 8188 | No |
| COTTON DRAW UNIT #238H | 30-015-43269 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 9/7/2015 | D-13-25S-31E | 10531 | No |
| COTTON DRAW UNIT #239H | 30-015-43270 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 8/16/2015 | D-13-25S-31E | 10354 | No |
| COTTON DRAW UNIT #278H | 30-015-43923 | O | DEVON ENERGY PRODUCTION COMPANY, LP | 10/5/2016 | A-13-25S-31E | 8121 | No |

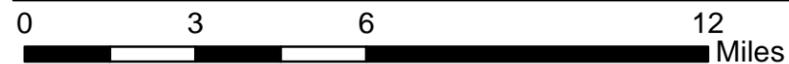
Notes: No wells within the 1-mile AOR penetrate the injection interval.



Legend

- ★ Proposed SWD
- Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- KPLA
- SOPA
- Drill Islands**
- Status**
- Approved
- Denied
- Nominated
- Withdrawn

| | | |
|---|-------------------|------------------------------|
| <h2>Potash Leases Area of Review</h2> | | |
| <h3>Worrill Federal SWD #1 Eddy County, New Mexico</h3> | | |
| Proj Mgr: Dan Arthur | November 25, 2019 | Mapped by: Ben Bockelmann |
| Prepared for: | Prepared by: | |



Source Info: BLM CFO Potash (https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

Attachment 3

Source Water Analyses

Wolfcamp



Water Analysis

Date: 23-Aug-11

2708 West County Road, Hobbs NM 88240

Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Brushy Draw 1#1

| Company | Well Name | County | State |
|---------|-----------|--------|------------|
| | BD | Lee | New Mexico |

| Sample Source | Swab Sample | Sample # | |
|---------------|-------------|-------------|------------------|
| | | <i>Eddy</i> | <i>1-265-295</i> |
| | | | 1 |

Formation **Depth**

| | | | |
|------------------|-------|-----------------|--------|
| Specific Gravity | 1.170 | SG @ 60 °F | 1.172 |
| pH | 6.30 | Sulfides | Absent |
| Temperature (°F) | 70 | Reducing Agents | |

Cations

| | | | | |
|--------------------|---------|--------|--------|--------|
| Sodium (Calc) | in Mg/L | 77,962 | in PPM | 66,520 |
| Calcium | in Mg/L | 4,000 | in PPM | 3,413 |
| Magnesium | in Mg/L | 1,200 | in PPM | 1,024 |
| Soluble Iron (FE2) | in Mg/L | 10.0 | in PPM | 9 |

Anions

| | | | | |
|--------------|---------|---------|--------|---------|
| Chlorides | in Mg/L | 130,000 | in PPM | 110,922 |
| Sulfates | in Mg/L | 250 | in PPM | 213 |
| Bicarbonates | in Mg/L | 127 | in PPM | 108 |

| | | | | |
|-------------------------------|---------|---------|--------|---------|
| Total Hardness (as CaCO3) | in Mg/L | 15,000 | in PPM | 12,799 |
| Total Dissolved Solids (Calc) | in Mg/L | 213,549 | in PPM | 182,209 |
| Equivalent NaCl Concentration | in Mg/L | 182,868 | in PPM | 156,031 |

Scaling Tendencies

*Calcium Carbonate Index 507,520

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 1,000,000

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks RW=.048@70F

Report # 3188

Sec 22, T25S, R28E

Bone Spring

Water Analysis Report by Baker Petrolite

North Permian Basin Region
 P.O. Box 740
 Sundown, TX 79372-0740
 (806) 229-8121
 Lab Team Leader - Sheila Hernandez
 (432) 495-7240

| | | | |
|---------------------|--------------------------|------------------|-------------------------------|
| Company: | | Sales RDT: | 33514.1 |
| Region: | PERMIAN BASIN | Account Manager: | TONY HERNANDEZ (575) 910-7135 |
| Area: | ARTESIA, NM | Sample #: | 534665 |
| Lease/Platform: | PINOCHLE 'BPN' STATE COM | Analysis ID #: | 106795 |
| Entity (or well #): | 2 H | Analysis Cost: | \$90.00 |
| Formation: | UNKNOWN | | |
| Sample Point: | WELLHEAD | | |

| Summary | | Analysis of Sample 534665 @ 75 F | | | |
|----------------------------|--------------|----------------------------------|----------|------------|---------|
| | | Anions | | Cations | |
| | | mg/l | meq/l | mg/l | meq/l |
| Sampling Date: | 03/10/11 | Chloride: | 109618.0 | Sodium: | 70275.7 |
| Analysis Date: | 03/18/11 | Bicarbonate: | 2135.0 | Magnesium: | 195.0 |
| Analyst: | SANDRA GOMEZ | Carbonate: | 0.0 | Calcium: | 844.0 |
| TDS (mg/l or g/m3): | 184911.1 | Sulfate: | 747.0 | Strontium: | 220.0 |
| Density (g/cm3, tonne/m3): | 1.113 | Phosphate: | | Barium: | 0.8 |
| Anion/Cation Ratio: | 1 | Borate: | | Iron: | 6.5 |
| | | Silicate: | | Potassium: | 889.0 |
| Carbon Dioxide: | 0.50 PPM | Hydrogen Sulfide: | 0 PPM | Aluminum: | |
| Oxygen: | | pH at time of sampling: | 7 | Chromium: | |
| Comments: | | pH at time of analysis: | | Copper: | |
| | | pH used in Calculation: | 7 | Lead: | |
| | | | | Manganese: | 0.100 |
| | | | | Nickel: | 0. |

| Conditions | | Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl | | | | | | | | | | |
|------------|--------------|---|--------|---|--------|-----------------------------|--------|-----------------------------|--------|--------------------------|--------|-----------------------|
| Temp | Gauge Press. | Calcite CaCO ₃ | | Gypsum CaSO ₄ ·2H ₂ O | | Anhydrite CaSO ₄ | | Celestite SrSO ₄ | | Barite BaSO ₄ | | CO ₂ Press |
| | | Index | Amount | Index | Amount | Index | Amount | Index | Amount | Index | Amount | |
| 80 | 0 | 1.06 | 188.52 | -1.20 | 0.00 | -1.18 | 0.00 | -0.11 | 0.00 | 0.58 | 0.29 | 1.72 |
| 100 | 0 | 1.10 | 208.05 | -1.29 | 0.00 | -1.20 | 0.00 | -0.15 | 0.00 | 0.35 | 0.29 | 2.35 |
| 120 | 0 | 1.12 | 224.17 | -1.36 | 0.00 | -1.19 | 0.00 | -0.17 | 0.00 | 0.16 | 0.00 | 3.17 |
| 140 | 0 | 1.13 | 243.17 | -1.42 | 0.00 | -1.18 | 0.00 | -0.18 | 0.00 | 0.00 | 0.00 | 4.21 |

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
 Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Attachment 4

Injection Formation Water Analyses

| Injection Formation Water Analysis | | | | | | | | | | | | | | | | | | |
|--|------------|-----------|--------------|---------|----------|-------|------|-------|-------|--------|-------|---------|--------------|-----------|---------|--------------|-----------------|-------------|
| Vista Disposal Solutions, LLC - Devonian and Silurian-Fusselman Formations | | | | | | | | | | | | | | | | | | |
| Wellname | API | Latitude | Longitude | Section | Township | Range | Unit | Ftgns | Ftgew | County | State | Company | Field | Formation | Tds_mgL | Chloride_mgL | Bicarbonate_mgL | Sulfate_mgL |
| STATE B COM #001 | 3002509716 | 32.179405 | -103.2212524 | 36 | 24S | 36E | C | 600N | 1880W | LEA | NM | | CUSTER | DEVONIAN | 176234 | 107400 | 128 | 1004 |
| FARNSWORTH FEDERAL #006 | 3002511950 | 32.077725 | -103.162468 | 4 | 26S | 37E | A | 660N | 990E | LEA | NM | | CROSBY | DEVONIAN | 31931 | 20450 | 302 | 591 |
| ARNOTT RAMSAY NCT-B #003 | 3002511863 | 32.092228 | -103.1784439 | 32 | 25S | 37E | A | 660N | 660E | LEA | NM | | CROSBY | DEVONIAN | | 100382 | 476 | |
| ARNOTT RAMSAY NCT-B #003 | 3002511863 | 32.092228 | -103.1784439 | 32 | 25S | 37E | A | 660N | 660E | LEA | NM | | CROSBY | DEVONIAN | 158761 | | | |
| COPPER #001 | 3002511818 | 32.099484 | -103.1656723 | 28 | 25S | 37E | J | 1980S | 1981E | LEA | NM | | CROSBY | DEVONIAN | 27506 | 15270 | 1089 | 1079 |
| STATE NJ A #001 | 3002511398 | 32.164749 | -103.1273346 | 2 | 25S | 37E | A | 663N | 660E | LEA | NM | | JUSTIS NORTH | DEVONIAN | 105350 | 59300 | 660 | 4950 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 80880 | 46200 | 340 | 3050 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 84900 | 48600 | 840 | 2650 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 72200 | 41000 | 370 | 2960 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 80900 | 46200 | 340 | 3050 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 77600 | 44000 | 550 | 3240 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 135000 | 77000 | 650 | 5810 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 114000 | 65000 | 280 | 5110 |
| WESTATES FEDERAL #004 | 3002511389 | 32.161129 | -103.1241226 | 1 | 25S | 37E | E | 1980N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 135000 | 77000 | 500 | 5320 |
| WESTATES FEDERAL #008 | 3002511393 | 32.162121 | -103.1241226 | 1 | 25S | 37E | E | 1620N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 91058 | 51020 | 376 | 4783 |
| WESTATES FEDERAL #008 | 3002511393 | 32.162121 | -103.1241226 | 1 | 25S | 37E | E | 1620N | 330W | LEA | NM | | JUSTIS NORTH | FUSSELMAN | 86847 | 50450 | 363 | 2544 |
| STATE Y #009 | 3002511777 | 32.10582 | -103.1113434 | 25 | 25S | 37E | A | 990N | 990E | LEA | NM | | JUSTIS | FUSSELMAN | 219570 | 129000 | 960 | 4630 |
| STATE Y #009 | 3002511777 | 32.10582 | -103.1113434 | 25 | 25S | 37E | A | 990N | 990E | LEA | NM | | JUSTIS | FUSSELMAN | 163430 | 96000 | 290 | 3780 |
| SOUTH JUSTIS UNIT #023C | 3002511760 | 32.106728 | -103.1184616 | 25 | 25S | 37E | C | 660N | 2080W | LEA | NM | | JUSTIS | FUSSELMAN | 63817 | 35870 | 360 | 3442 |
| CARLSON A #002 | 3002511764 | 32.100384 | -103.1113434 | 25 | 25S | 37E | I | 2310S | 990E | LEA | NM | | JUSTIS | FUSSELMAN | 208280 | 124000 | 510 | 3400 |
| CARLSON B 25 #004 | 3002511784 | 32.096756 | -103.1113434 | 25 | 25S | 37E | P | 990S | 990E | LEA | NM | | JUSTIS | FUSSELMAN | 184030 | 112900 | 68 | 1806 |

Attachment 5

Water Well Map and Well Data



Legend

★ Proposed SWD

NMOSE PODs

Status

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

Water Wells Area of Review

Worrill Federal SWD #1 Eddy County, New Mexico

Proj Mgr:
Dan Arthur

November 25, 2019

Mapped by:
Ben Bockelmann



| Water Well Sampling Rationale | | | | | | |
|--|-------------|-------|-------------------------------|-----|-------------------|-------|
| Vista Disposal Solutions, LLC - Worrill Federal SWD #1 | | | | | | |
| SWD | Water Wells | Owner | Available Contact Information | Use | Sampling Required | Notes |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: No water wells are present within 1 mile of the proposed SWD location.

Attachment 6

Induced Seismicity Assessment Letter



November 26, 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 Worrill Federal SWD #1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Vista Disposal Solutions, LLC (Vista), proposed Worrill Federal 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 1,372’ FNL & 1,903’ FWL of Section 14, in T25-S and R31-E of Eddy 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 event located within a 25-mile radius of the proposed Subject Well. The closest recorded seismic event was a M3.1 that occurred on March 18th, 2012 and was located approximately 13.1 miles northwest 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 1.5 miles to the northwest (See Exhibit 1).

Vista does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Publicly available fault data from USGS indicates that the closest known fault is approximately 14.8 miles northwest 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

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
November 26, 2019

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 Ellenberger 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



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

Enclosures
References
Exhibits

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
November 26, 2019

References

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
November 26, 2019

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 (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).

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
November 26, 2019

Exhibits

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
 November 26, 2019

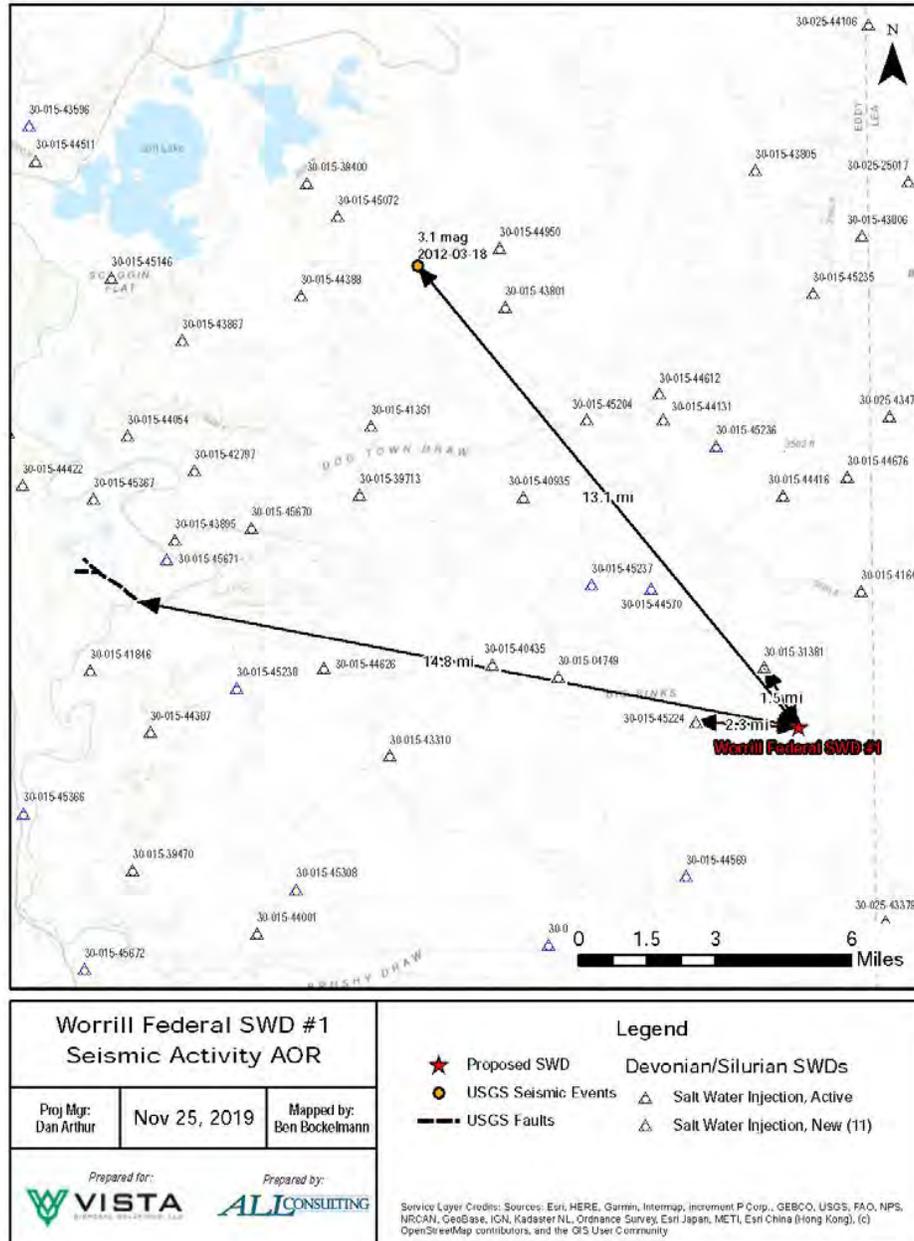


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
November 26, 2019

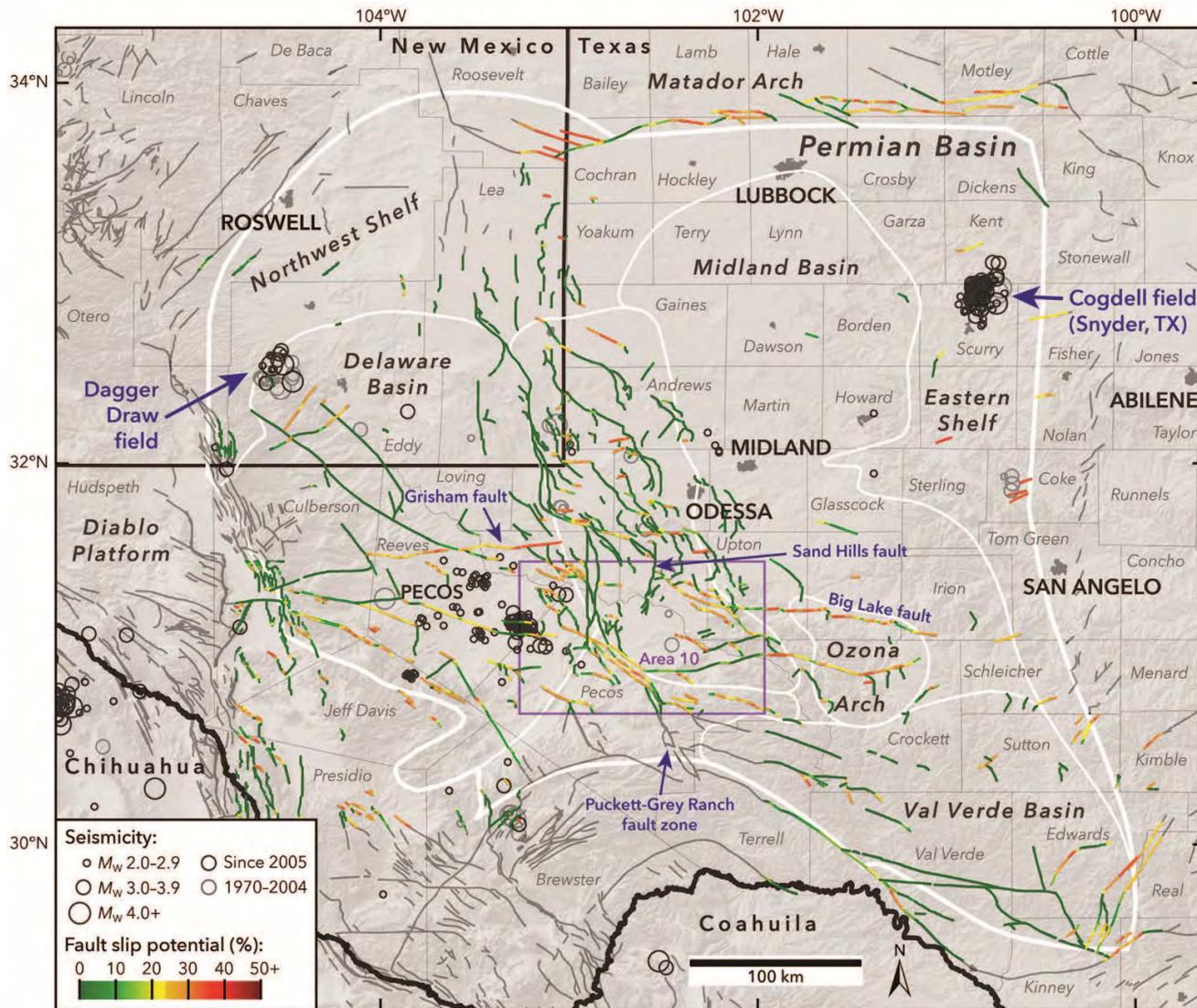


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

Induced Seismicity Potential Statement for the Worrill Federal SWD #1
 November 26, 2019

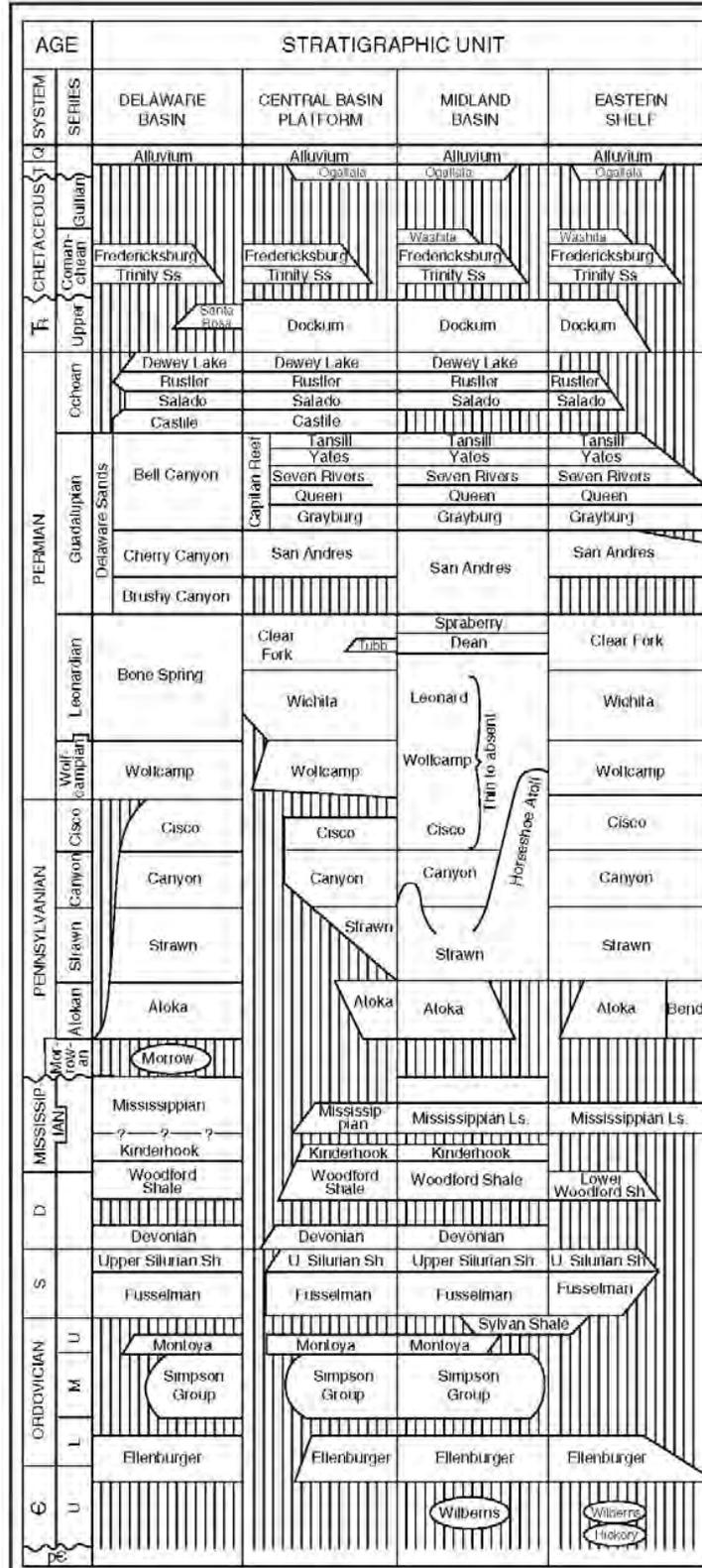


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Vista Disposal Solutions, LLC, 12444 NW 10th St., Building G, Suite 202-512, Yukon, OK 73099, 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: Worrill Federal SWD #1
SE ¼ NW ¼, Section 14, Township 25S, Range 31E
1,372' FNL & 1,903' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Devonian – Silurian (16,775' – 18,140')
EXPECTED MAXIMUM INJECTION RATE: 40,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 3,355 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.

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0003910813

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ALL CONSULTING- CARL SBAD
1718 SOUTH CHEYENNE AVENUE

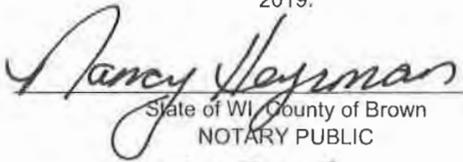
TULSA, OK 74119

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

November 21, 2019


Legal Clerk

Subscribed and sworn before me this November 21, 2019:


State of WI, County of Brown
NOTARY PUBLIC

5.15.23

My commission expires

APPLICATION FOR AUTHORIZATION TO INJECT
NOTICE IS HEREBY GIVEN: That Vista Disposal Solutions, LLC 12444 NW 10th St., Building G, Suite 202-512, Yukon, OK 73099, 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: Worrill Federal SWD #1 SE ¼ NW ¼, Section 14, Township 25S, Range 31E 1,372' FNL & 1,903' FWL Eddy County, NM
NAME AND DEPTH OF DISPOSAL ZONE: Devonian – Silurian (16,775' – 18,140')
EXPECTED MAXIMUM INJECTION RATE: 40,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 3,355 psi (surface)
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Additional information may be obtained by contacting Nate Alleman at 918-382-7581.
#3910813, Current-Argus, November 21, 2019

NANCY HEYRMAN
Notary Public
State of Wisconsin

Ad # 0003910813
PO #: App for Injection
of Affidavits : 1
This is not an invoice

| Worrill Federal SWD #1 - Notice of Application Recipients | | | | |
|--|-----------------------------|---------------|-------|----------|
| Entity | Address | City | State | Zip Code |
| Landowner & Mineral Owner | | | | |
| New Mexico BLM | 620 E Greene St. | Carlsbad | NM | 88220 |
| OCD District | | | | |
| NMOCD District 2 | 811 S. 1st St. | Artesia | NM | 88210 |
| Leasehold Operators | | | | |
| Chevron USA Inc. (Chevron USA INC) | 6301 Deauville Blvd | Midland | TX | 79706 |
| CTV Oil & Gas New Mexico, LLC (CTV OG NM LLC) | 201 Main Street, Suite 2700 | Fort Worth | TX | 76102 |
| Devon Energy Production Company, LP (DEVON ENERGY PROD CO LP) | 333 W. Sheridan Ave. | Oklahoma City | OK | 73102 |
| PRB II 1993C Oil & Gas New Mexico, LLC (PRB II 1993C OG NM LLC) | 251 Little Falls Dr. | Wilmington | DE | 19808 |
| SRBI O&G NM, LLC (SRBI OG NM LLC) | 201 Main Street, Suite 3200 | Fort Worth | TX | 76102 |
| Thru Line Oil & Gas New Mexico, LLC (THRU LINE OG NM LLC) | 201 Main Street, Ste 2700 | Fort Worth | TX | 76102 |
| <p>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).</p> | | | | |

Certified Mail® Labels

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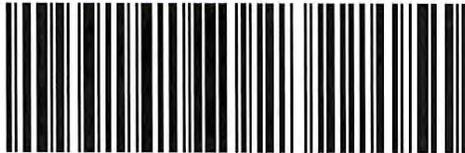
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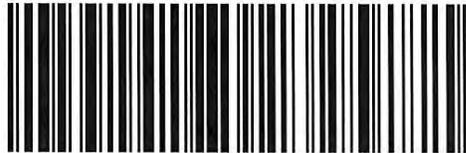
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