

# Initial Application Part I

Received 8/9/21

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

RECEIVED: <b>8/10/21</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2122232725</b>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** Anthem Water Solutions, LLC **OGRID Number:** 330069  
**Well Name:** Dove 342635 Federal SWD 1 **API:** 30-025-XXXXX  
**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

**SWD-2454**

- 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.**

**Marshall Tippen**

Print or Type Name

Signature

8/9/2021  
Date

(972) 795-4201  
Phone Number

mtippen@anthemwslc.com  
e-mail Address



8/9/2021

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

Re: Application of Anthem Water Solutions, LLC to drill and permit the saltwater disposal well Dove 342635 Federal SWD 1 located in Unit L4, Section 34, Township 26 South, Range 35 East, NMPM, Lea County, New Mexico.

To Whom it May Concern:

Please find the enclosed C-108 Application for Authority to Inject, supporting the above-referenced request for saltwater disposal. The well will be operated as a commercial endeavor offering operations in the area additional options for produced water disposal. Please find the enclosed C-108 Application for Authority to Inject along with supporting documents.

I would like to point out that this application for a proposed Devonian-Silurian SWD interval includes the following: Published legal notice ran 7/8/2021 in The Lovington Leader and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included herein. This application also all information required for a completed Form C-108, as well as a wellbore schematic, area of review maps, affected party plat and other required and pertinent information. This well is located on Federal land and Federal minerals; a copy of the application has been sent to the appropriate regulatory bodies.

I respectfully request that the approval of this saltwater disposal well proceed swiftly and if your staff requires additional information or has any questions, please do not hesitate to call or email me.

Sincerely,

A handwritten signature in black ink, appearing to read "Marshall Tippen".

Marshall Tippen  
Anthem Water Solutions  
[mtippen@anthemwsllc.com](mailto:mtippen@anthemwsllc.com) | (972) 795-4201

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

II. OPERATOR: Anthem Water Solutions, LLC

ADDRESS: 5914 W. Courtyard Drive, Suite 320, Austin TX 78730

CONTACT PARTY: Marshall Tippen PHONE: (979) 795-4201

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: Marshall Tippen TITLE: Director of Engineering

SIGNATURE:  DATE: 8/9/2021

E-MAIL ADDRESS: mtippen@anthemwsllc.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.

## Item III – Subject Well Data (Attachment 1)

### A. Well Data

#### 1) General Well Data

Operator: Anthem Water Solutions, LLC

Lease Name and Well Number: Dove 342635 Federal SWD 1

Location Footage Calls: 2,236' from FNL, 54' from FWL

Legal Location: Unit L4, Section 34, Township 26 South, Range 35 East, NMPM

Ground Elevation: 3124 feet

Proposed Injection Interval: 18703 - 19649 (open hole)

County: Lea

#### 2) - 3) Casing , Tubing & Cement Information

Casing Information						
Type	Conductor (1)	Surface (2)	Intermediate (3)	Production (4)	Liner (5)	Open Hole (6)
OD	30"	16"	13 3/8"	9 5/8"	7 5/8"	N/A
Weight	N/A	84 lb / ft	68 lb / ft	53.5 lb / ft	39 lb / ft	N/A
Grade	N/A	J-55 BTC	L-80 EZ-GO FJ3	HCP-110 BTC	HCP-110 EZ-GO FJ3	N/A
Hole Size	N/A	18 1/8"	14 3/4"	12 1/4"	8 1/2"	6 1/2"
Depth Set Top	-	-	-	-	13,573	18,703
Depth Set Bottom	120	1,068	5,450	13,773	18,703	19,649
TOC	Surf	Surf	Surf	Surface	-	-
TOC Method	Circ	Circ	Circ	Circ	CBL	-
Volume (Sacks)	250	536	971	4,059	851	N/A
DV Tool 1	N/A	N/A	N/A	5,500	N/A	N/A
DV Tool 2	N/A	N/A	N/A	10,857	N/A	N/A

Tubing Information		
Type	Upper String (7)	Lower String (8)
OD	5 1/2"	4 1/2"
Weight	20 lb / ft	18 lb / ft
Grade	HCL-80 BTC	HCL-80 LTC
Hole Size	N/A	N/A
Depth Set Top	-	13,473
Depth Set Bottom	13,473	18,653

*\*Wellbore Diagram Attached*

**4) Packer Information:**

Arrowset AS1-X or equivalent packer set at approximately 18653 feet

*\*Packer Schematic Attached*

**B. Completion Information**

- 1) **Injection Formation Name:** Devonian-Silurian  
**Pool Name:** SWD; Devonian-Silurian  
**Pool Code:** 97869
- 2) **Injection Interval:** 18703 - 19649 (open hole)
- 3) **Drilling Purpose:** Drilled for injection
- 4) **Overlying Oil and Gas Zones:** Below are approximate tops for known oil and gas producing zones in the area.
  - Delaware: 5400'
  - Bone Spring: 10365'
  - Wolfcamp: 12386'
  - Strawn: 14029'
  - Atoka: 15167'
  - Morrow: 16149'
- 5) **Underlying Oil and Gas Zones:** No underlying oil and gas zones exist.

## **Item V – Well and Lease Maps (Attachment 2)**

- 1) **2-mile oil & Gas Well Map**
- 2) **1-mile Well Detail List**
- 3) **2-Mile Lease Map**
- 4) **2-Mile Mineral Ownership Map**
- 5) **2-Mile Surface Ownership map**
- 6) **1.5-Mile Deep SWD Map (Devonian-Silurian)**
- 7) **Potash Lease Map**

## **Item VI – AOR Well List (Attachment 2)**

There have been No wells drilled within the 1-mile AOR. None of these wells nor any new or permitted wells penetrate the injection zone.

## **Item VII – Proposed Operation (Attachment 3)**

- 1) **Proposed Maximum Injection Rate:** 30,000 bwpd  
**Proposed Average Injection Rate:** 15,000 bwpd
- 2) A **closed system** will be used.
- 3) **Proposed Maximum Injection Pressure:** 3740 psi (surface)
- 4) **Proposed Average Injection Pressure:** 2244 psi (surface)
- 5) **Source Water Analysis:** It is expected that the injected fluid will consist of water produced from the Wolfcamp and Bone Springs formations. Water samples from these formations are included in Attachment 3.
- 6) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Devonian-Silurian formation 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 3.

## **Item VIII – Geologic Description**

The proposed injection interval includes the Devonian–Silurian formation from 18703 feet to 19649 feet. This formation consists of interbedded carbonate rocks consisting of dolomites and limestones with some interbedded siltstones and shales. Several thick sections of porous and permeable intervals capable of taking water are present within the subject formations in the area.



The base of the lowermost Underground Source of Drinking Water (USDW) is at a depth of approximately 1018 feet. The USDW is covered by 16-inch casing set at 1068 feet and cemented to surface, additionally the USDW is covered by intermediate casing set at 5450 feet and cemented to surface. Geophysical log assessment was conducted to accurately determine the top of the Rustler formation, as well as the top and base of the Salado formation in the area.

### **Item IX – Proposed Stimulation**

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

### **Item X – Logging and Test Data**

Log data will be submitted to the OCD upon completion of this well.

### **Item XI – Fresh Groundwater Samples (Attachment 4)**

Based on a review of the data from the New Mexico Office of State Engineer there are no fresh water wells within a 1-mile radius of the proposed location. As a result, no groundwater samples were obtained.

### **XII – No Hydrologic Connection Statement (Attachment 5)**

Anthem 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 insure 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 5.

### **XIII – Proof of Notice (Attachment 6)**

A Public Notice was filed with The Lovington Leader and an affidavit is included in Attachment 6.

A copy of the application was mailed to the OCD District Office, landowners, appropriate regulatory bodies, and leasehold operators within a 1-mile radius of the proposed SWD location. A list of recipients, as well as delivery confirmations, is included in Attachment 6.

## **Attachments Table of Content:**

### **Attachment 1:**

C-102

Proposed Wellbore Diagram

Packer Schematic

### **Attachment 2:**

2-mile Oil & Gas Well Map

1-mile Well Detail List

2-Mile Lease Map

2-Mile Mineral Ownership Map

2-Mile Surface Ownership map

1.5-Mile Deep SWD Map (Devonian-Silurian)

Potash Lease Map

### **Attachment 3:**

Source Water Analysis

Formation Water Analysis

### **Attachment 4:**

1-Mile Fresh Ground Water Map

Fresh Ground Water Samples

### **Attachment 5:**

Letter of Seismic Activity

### **Attachment 6:**

Public Notice Affidavit

List of Notification Applicants & Delivery Confirmations

**Attachment 1: Form C-102**

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-XXXXX		<sup>2</sup> Pool Code 97869		<sup>3</sup> Pool Name SWD; Devonian-Silurian	
<sup>4</sup> Property Code		<sup>5</sup> Property Name Dove 342635 Federal SWD			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 330069		<sup>8</sup> Operator Name Anthem Water Solutions, LLC			<sup>9</sup> Elevation 3124

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	34	26S	35E		2236	North	54	West	Lea

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

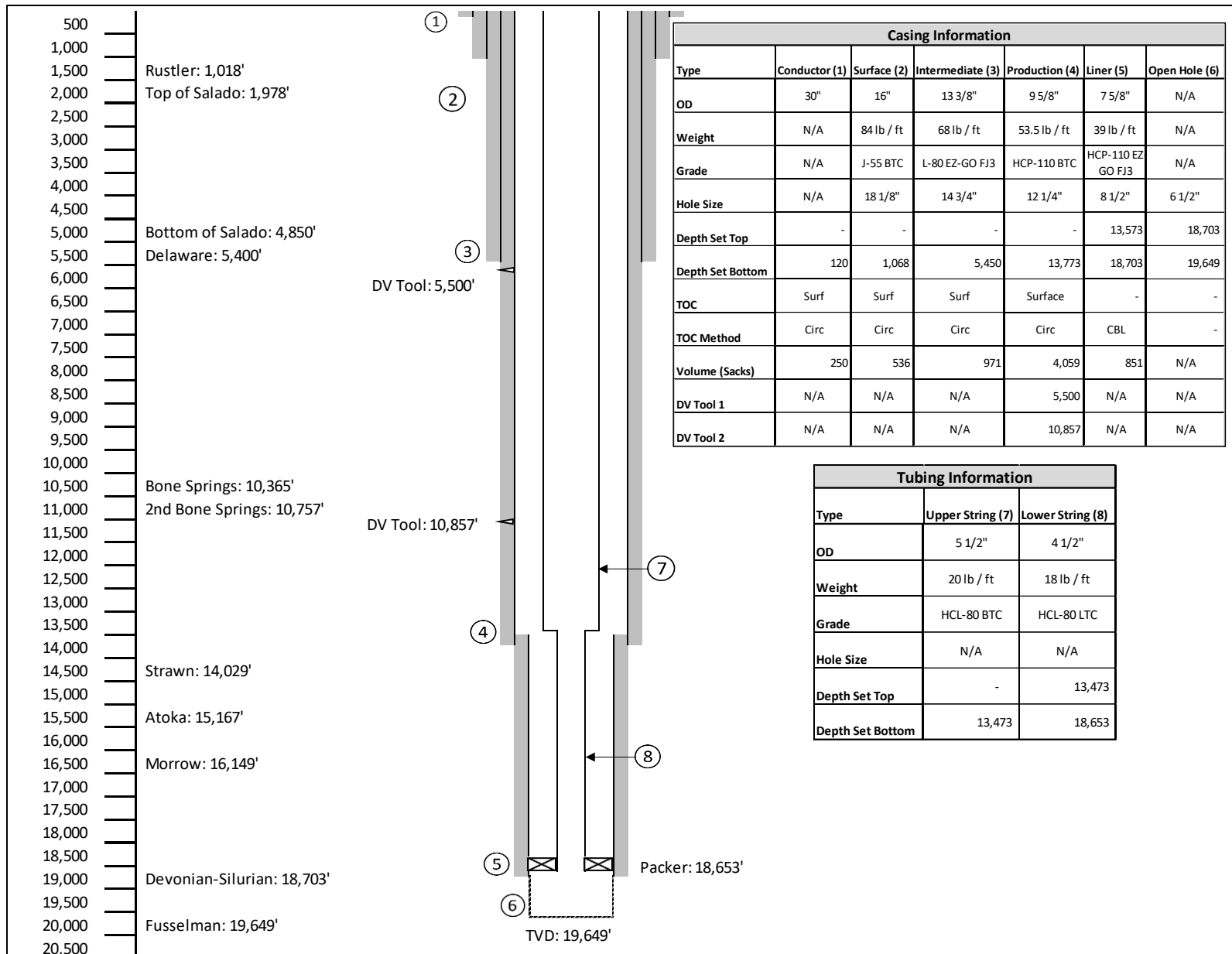
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p><b>17 OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>			
	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p style="text-align: center;"><b>PRELIMINARY</b> Certified survey to be conducted and submitted upon C-108 approval</p> <p>Certificate Number _____</p>			


GEODETIC DATA  
 NAD 83 GRID – NM EAST  
 Dove 342635 Federal SWD 1  
 LAT = 32.000832 N  
 LONG = -103.363688 W

# Attachment 1: Proposed Wellbore Diagram



Casing Information						
Type	Conductor (1)	Surface (2)	Intermediate (3)	Production (4)	Liner (5)	Open Hole (6)
OD	30"	16"	13 3/8"	9 5/8"	7 5/8"	N/A
Weight	N/A	84 lb / ft	68 lb / ft	53.5 lb / ft	39 lb / ft	N/A
Grade	N/A	J-55 BTC	L-80 EZ-GO FJ3	HCP-110 BTC	HCP-110 EZ-GO FJ3	N/A
Hole Size	N/A	18 1/8"	14 3/4"	12 1/4"	8 1/2"	6 1/2"
Depth Set Top	-	-	-	-	13,573	18,703
Depth Set Bottom	120	1,068	5,450	13,773	18,703	19,649
TOC	Surf	Surf	Surf	Surface	-	-
TOC Method	Circ	Circ	Circ	Circ	CBL	-
Volume (Sacks)	250	536	971	4,059	851	N/A
DV Tool 1	N/A	N/A	N/A	5,500	N/A	N/A
DV Tool 2	N/A	N/A	N/A	10,857	N/A	N/A

Tubing Information		
Type	Upper String (7)	Lower String (8)
OD	5 1/2"	4 1/2"
Weight	20 lb / ft	18 lb / ft
Grade	HCL-80 BTC	HCL-80 LTC
Hole Size	N/A	N/A
Depth Set Top	-	13,473
Depth Set Bottom	13,473	18,653

	<b>Wellbore Schematic: Dove 342635 Federal SWD 1</b>	
	API: 30-025-XXXXX	Section: 34
5914 W. Courtyard Dr. Suite 320, Austin, Texas, 78730	NMOCD District: 1	Township: 26S
	Prepared By: PMT	Range: 35E
	Notes:	County: Lea
	(Empty space for notes)	

## Attachment 1: Packer Schematic

# AS1-X MECHANICAL PACKER



The ACT AS1-X Packer is the most versatile of the mechanically set retrievable packers and may be used in any production application. Treating, testing, injecting, pumping wells, flowing wells, deep or shallow; the AS1-X is suited for all. The packer can be left in tension or compression, depending on well conditions and the required application. A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization.

The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, right-hand release. A patented upper-slip releasing system reduces the force required to release the packer. A non directional slip is released first, making it easier to release the other slips. The AS1-X packer can withstand 7,000 psi (48 MPa) of differential pressure above or below.

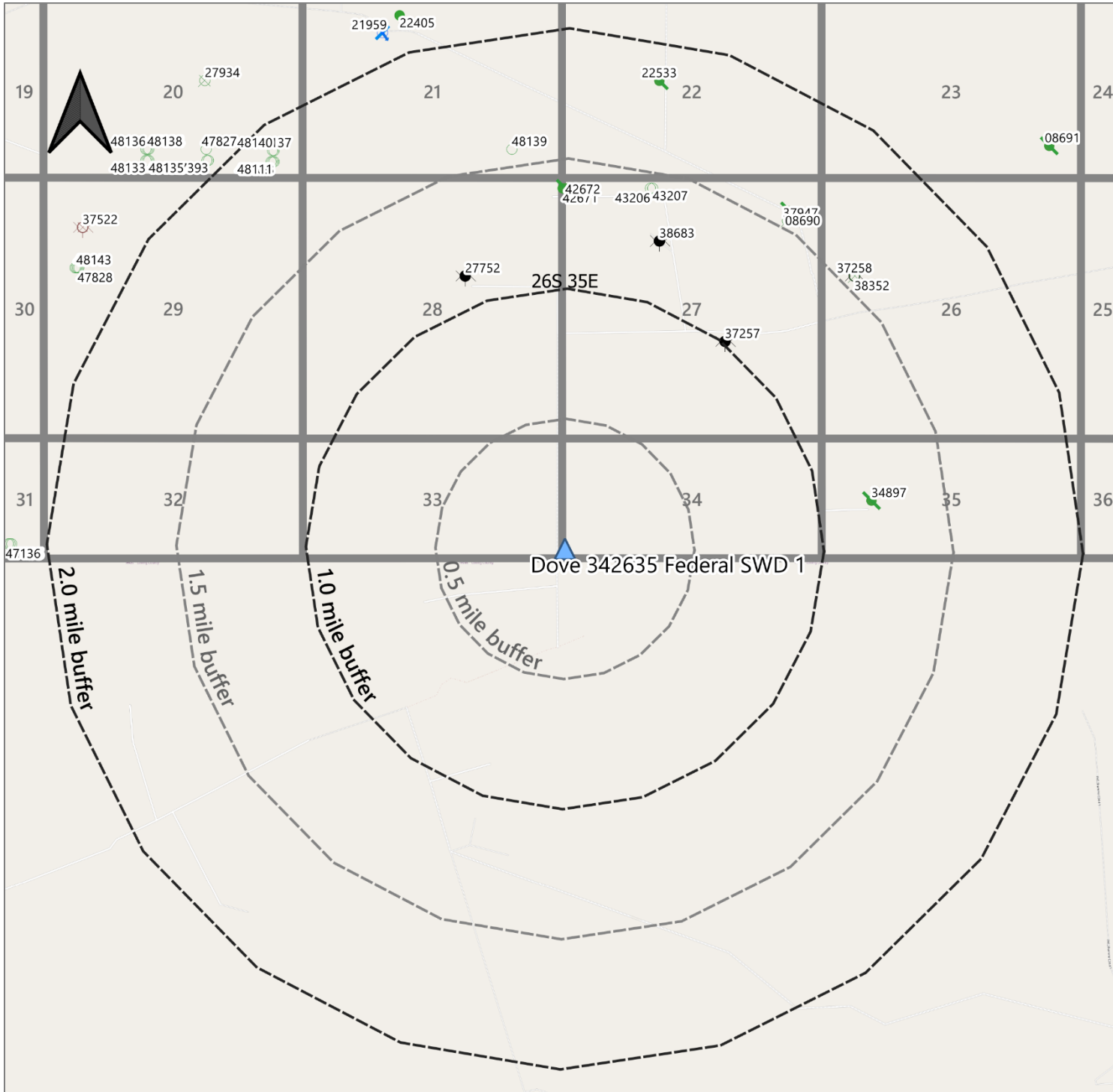
### FEATURES, ADVANTAGES AND BENEFITS:

- The design holds high differential pressure from above or below; enabling the packer to meet most production, stimulation, and injection needs
  - The packer can be set with compression, tension, or wire line, enabling deployment in shallow and deep applications
  - The packer can be set and released with only a one-quarter turn of the tubing
  - The bypass valve is below the upper slips so that debris are washed from the slips when the valve is opened, reducing the times for circulation and total retrieval
- 
- The full opening enables unrestricted flow and the passage of wire line tools and other packer systems
  - The packer can be run with the T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer

### OPTIONS:

- Elastomer options are available for hostile environments
- Optional safety releases are available

Attachment 2: 2-Mile Oil & Gas Map



Legend

- ★ Gas, Active
- ☆ Gas, New
- Oil, Active
- ⊠ Oil, Cancelled
- Oil, New
- 🌿 Oil, Plugged (site released)

Sec 34 26S 35E  
 Lea County  
 New Mexico

**Offset Well Review  
 Area of Review**

Dove 342635 Federal  
 SWD 1

01/25/2021

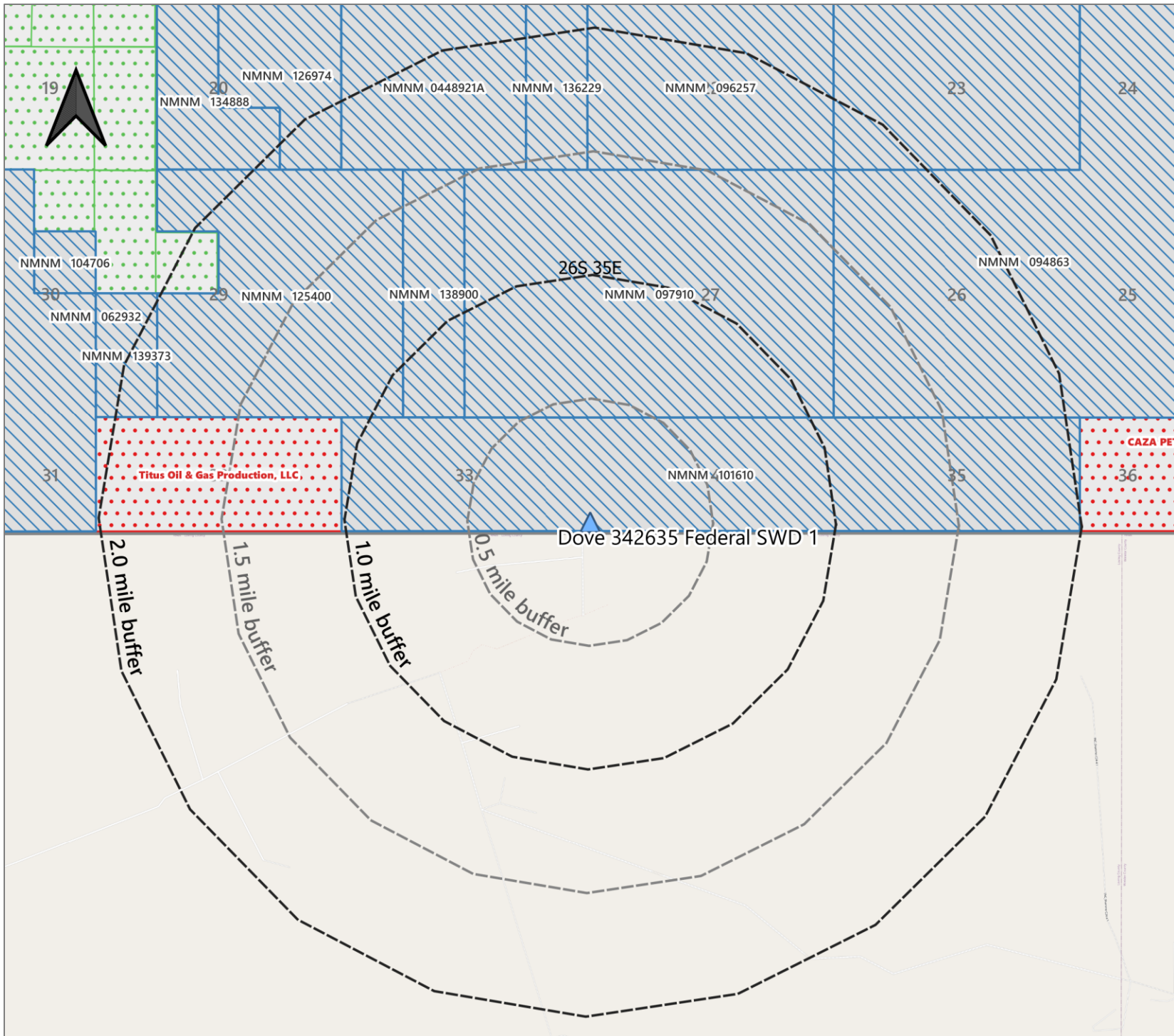


## Attachment 2: 1-mile Well Detail List

AOR Tabulation for Dove 342635 Federal SWD 1 (Top of Injection Interval: 18,703')								
Well Name	API #	Well Type	Well Status	Operator	Spud Date	Location (Sec, Tn, Rg)	TVD	Penetrate Inj Zone
<b>Notes:</b> No Wells within a 1-mile radius penetrated the injection interval								



# Attachment 2: 2-Mile Oil & Gas Lease Map



## Legend

- Federal, O&G Leases
- State, O&G Leases
- Fee, O&G Leases

Sec 34 26S 35E  
Lea County  
New Mexico

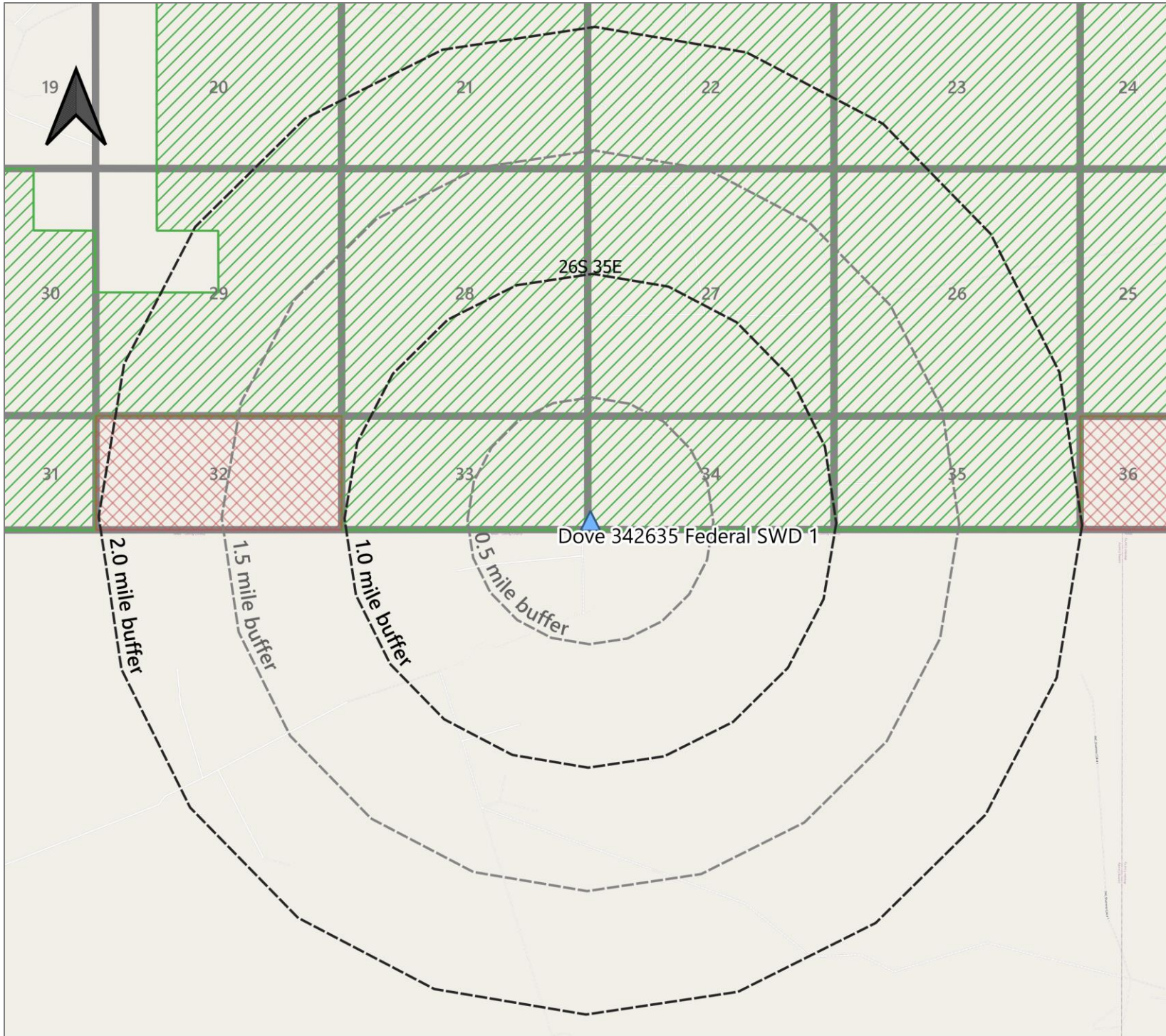
**Mineral Leasehold  
Area of Review**

Dove 342635 Federal  
SWD 1

01/25/2021



Attachment 2: Mineral Ownership Map



Legend

- BLM Mineral\_Ownership
- State, Combined
- Fee, Subsurface

Sec 34 26S 35E  
Lea County  
New Mexico

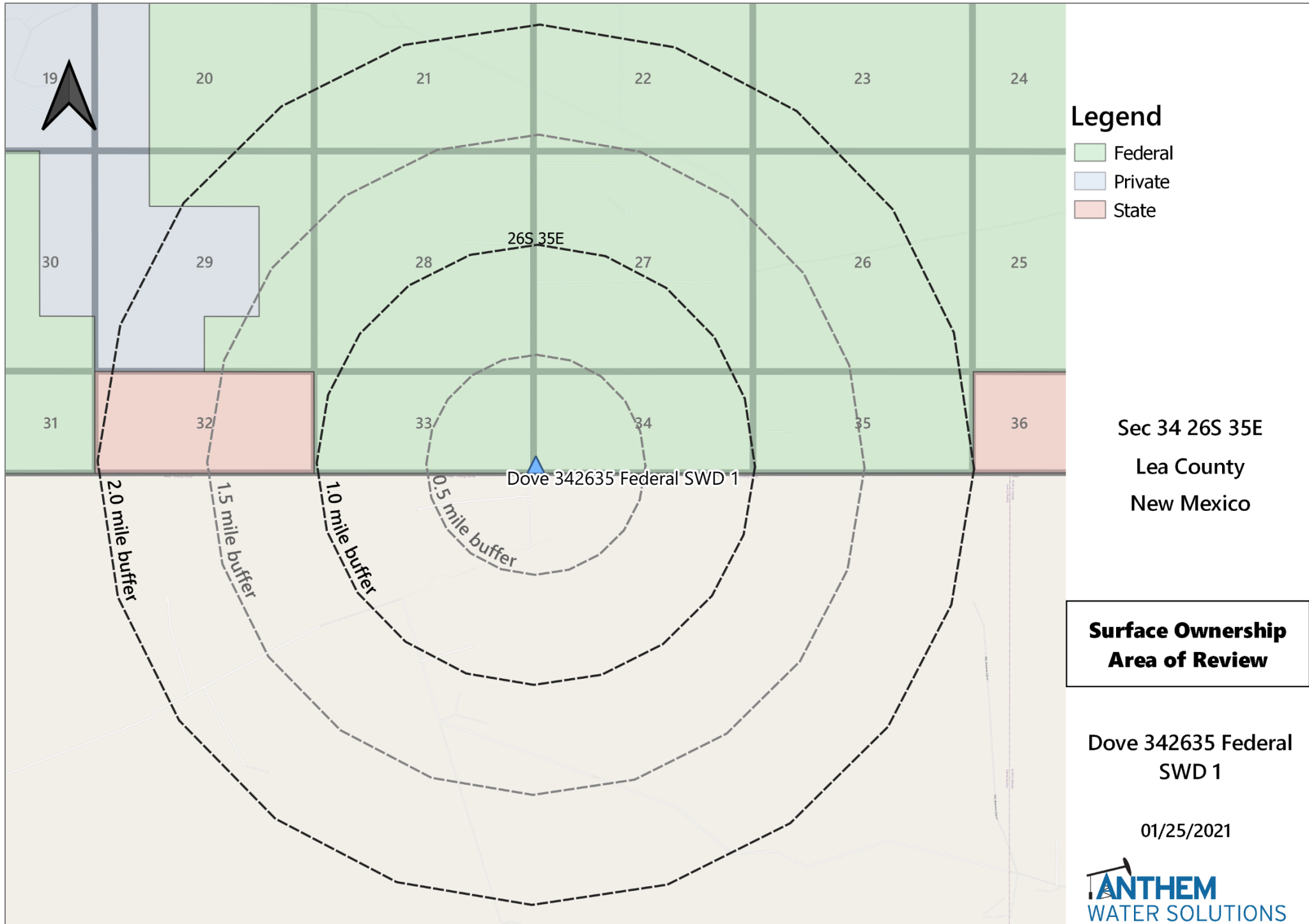
**Mineral Ownership  
Area of Review**

Dove 342635 Federal  
SWD 1

01/25/2021



Attachment 2: Surface Ownership Map



Attachment 2: 1.5 Mile Deep SWD Map



Legend

Sec 34 26S 35E  
Lea County  
New Mexico

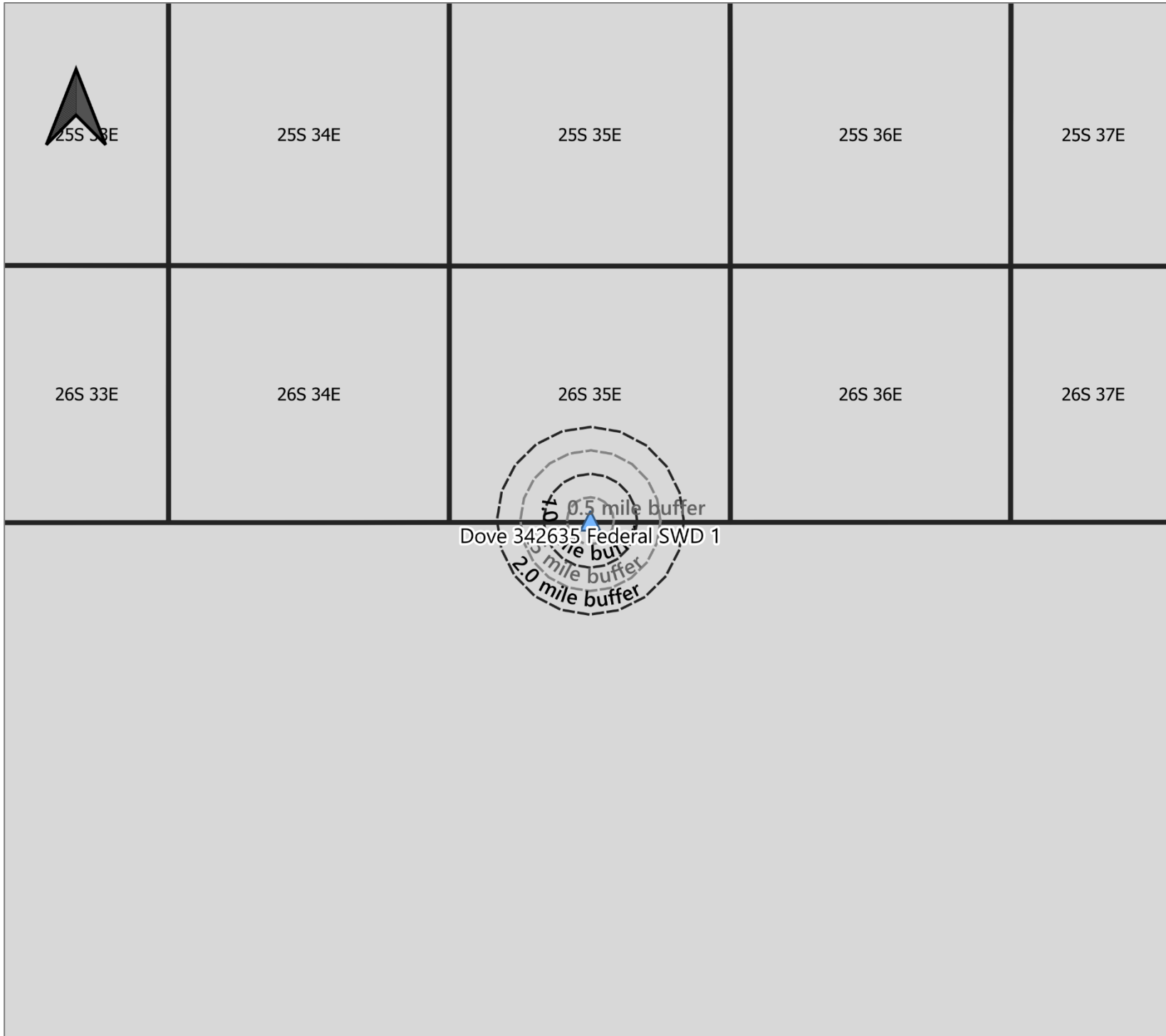
**Deep SWD Review  
Area of Review**

Dove 342635 Federal  
SWD 1

01/25/2021



Attachment 2: Potash Lease Map



**Legend**

- Potash, Working Mines
- Potash, Ore Indicated
- Potash, Ore Measured
- Potash, Active Leases
- SOPA

Sec 34 26S 35E  
Lea County  
New Mexico

**Potash Map  
Area of Review**

Dove 342635 Federal  
SWD 1

01/25/2021

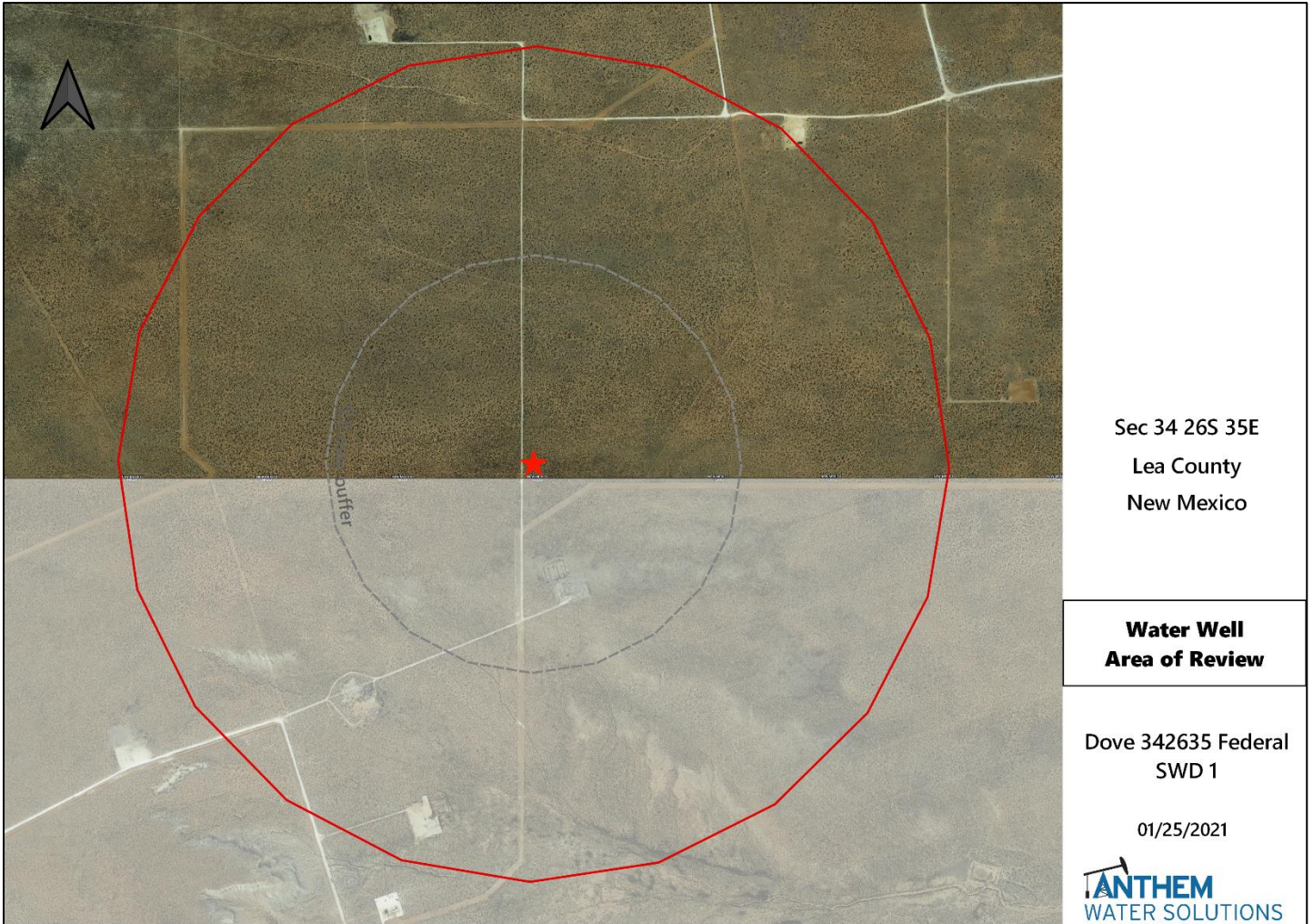


### Attachment 3: Formation & Source Water Analysis

Injection Formation Water Analysis													
Anthem Water Solutions, LLC													
Well Name	API	Latitude	Longitude	Section	Township	Range	County	State	Field	Formation	TDS (Mg/L)	Bicarbonate (MG/L)	Sulfate (Mg/L)
RIO BLANCO 33 FEDERAL #002	30-025-36360	32.3499985	-103.4771576	33	22S	34E	Lea	NM	BELL LAKE	DEVONIAN	69,797	456	1,074
RIO BLANCO 9 STATE #001	30-025-36302	32.3246078	-103.4733582	9	23S	34E	Lea	NM	BELL LAKE	DEVONIAN	192,154	122	943
RIO BLANCO 33 FEDERAL #001	30-025-36359	32.3436928	-103.4783325	33	22S	34E	Lea	NM	BELL LAKE	DEVONIAN	77,881	366	1,941
MAD DOG 15 FEDERAL COM #001	30-025-36778	32.2992020	-103.4514999	15	23S	34E	Lea	NM	ANTELOPE RIDGE	DEVONIAN	72,188	332	1,198
ANTELOPE RIDGE UNIT #003	30-025-21082	32.2593155	-103.4610748	34	23S	34E	Lea	NM	APACHE RIDGE	DEVONIAN	80,187	476	900
LEA UNIT #009	30-025-02432	32.5785980	-103.5121155	13	20S	34E	Lea	NM	LEA	DEVONIAN	45,778	1,145	729
LEA UNIT #008	30-025-02431	32.5927162	-103.5116730	12	20S	34E	Lea	NM	SWD	DEVONIAN	35,094	1,272	1,096
KING SWD #001	30-015-20257	32.5933838	-104.4920578	9	20S	25E	Lea	NM	SWD	DEVONIAN	7,989	808	1,748
BELL LAKE UNIT #006	30-025-08483	32.3282585	-103.5071030	6	23S	34E	Lea	NM	BELL LAKE	DEVONIAN	71,078	500	1,000
STATE B COM #001	30-025-09716	32.1794052	-103.2212524	36	24S	36E	Lea	NM	CUSTER	DEVONIAN	176,234	128	1,004
WEST DOLLARHIDE DEVONIAN UN	30-025-12297	32.1720123	-103.0761032	32	24S	38E	Lea	NM	DOLLARHIDE	DEVONIAN	50,858	183	980
E C HILL B FEDERAL #001	30-025-10945	32.2658463	-103.1443634	34	23S	37E	Lea	NM	TEAGUE	DEVONIAN	112,959	288	2,765
E C HILL D FEDERAL #004	30-025-10950	32.2653503	-103.1443634	34	23S	37E	Lea	NM	TEAGUE	DEVONIAN	236,252	129	781
STATE NJ A #001	30-025-11398	32.1647491	-103.1273346	2	25S	37E	Lea	NM	JUSTIS	DEVONIAN	105,350	660	4,950
PRE-ONGARD WELL #001	30-025-10717	32.3025551	-103.1358261	14	23S	37E	Lea	NM	CLINE	DEVONIAN	118,979	462	2,593
PRE-ONGARD WELL #001	30-025-11818	32.0994835	-103.1656723	28	25S	37E	Lea	NM	CROSBY	DEVONIAN	27,506	1,089	1,079
PRE-ONGARD WELL #006	30-025-11950	32.0777245	-103.1624680	4	26S	37E	Lea	NM	CROSBY	DEVONIAN	31,931	302	591

Source Water Analysis													
Anthem Water Solutions, LLC													
Well Name	API	Latitude	Longitude	Section	Township	Range	County	State	Field	Formation	TDS (Mg/L)	Bicarbonate (MG/L)	Sulfate (Mg/L)
THISTLE UNIT #004	30-025-34456	32.2557449	-103.562294	34	23S	33E	Lea	NM	JOHNSON RANCH	WOLFCAMP	21,758	163	150
THISTLE UNIT #005	30-025-34580	32.2630043	-103.562302	34	23S	33E	Lea	NM	JOHNSON RANCH	WOLFCAMP	74,186	386	269
FLAGLER FEDERAL #001	30-025-30599	32.1505394	-103.596481	8	25S	33E	Lea	NM	JOHNSON RANCH	WOLFCAMP	40,770	122	6
THYME APY FEDERAL #002	30-025-33529	32.3364449	-103.625145	1	23S	32E	Lea	NM	RED TANK	BONE SPRING	172,896	781	1,150
DIAMONDTAIL 24 FEDERAL #001	30-025-33344	32.288414	-103.634743	24	23S	32E	Lea	NM	DIAMONDTAIL	BONE SPRING	172,490	199	2
MESA VERDE 6 FEDERAL #014	30-025-32753	32.252753	-103.717583	6	24S	32E	Lea	NM	MESA VERDE	BONE SPRING	254,344	83	1,128
TRESNOR MITCHELL 30 FEDERAL #001	30-025-32754	32.2763062	-103.715485	30	23S	32E	Lea	NM	SAND DUNES SOU	BONE SPRING	274,347	83	1,202
MESA VERDE 6 FEDERAL #006	30-025-32397	32.244917	-103.71629	6	24S	32E	Lea	NM	MESA VERDE	BONE SPRING	147,698	933	3,804
MESA VERDE 6 FEDERAL #005	30-025-32504	32.2482376	-103.711617	6	24S	32E	Lea	NM	MESA VERDE	BONE SPRING	263,977	104	567
RED BULL 31 STATE #001	30-025-36798	32.2574569	-103.405709	31	23S	35E	Lea	NM	ANTELOPE RIDGE	BONE SPRING	280,094	87	385
THISTLE UNIT #056H	30-025-41340	32.2693145	-103.558234	22	23S	33E	Lea	NM	TRIPLE X	BONE SPRING	135,196	500	765
APPLESEED FEDERAL COM #001	30-025-20377	32.5750008	-103.473038	17	20S	35E	Lea	NM	LYNCH	BONE SPRING	173,141	5,174	7,916
BERRY APN STATE #001	30-025-27250	32.5060349	-103.498344	5	21S	34E	Lea	NM	BERRY	BONE SPRING	128,117	567	1,723
HUNT APO STATE #001	30-025-27135	32.5070038	-103.481232	4	21S	34E	Lea	NM	GRAMA RIDGE	BONE SPRING	294,627	74	403
LEA UNIT #005	30-025-02429	32.5858536	-103.51165	12	20S	34E	Lea	NM	LEA	BONE SPRING	202,606	5,196	992
MAHAFFEY ARC FEDERAL #001	30-025-01735	32.5785904	-103.636131	14	20S	33E	Lea	NM	TEAS	BONE SPRING	28,079	791	1,885
LEA UNIT #004H	30-025-02424	32.5772604	-103.524571	11	20S	34E	Lea	NM	LEA	BONE SPRING	29,436	634	1,142
LEA UNIT #008	30-025-02431	32.5927162	-103.511673	12	20S	34E	Lea	NM	SWD	BONE SPRING	35,094	1,272	1,096
PRE-ONGARD WELL #009	30-025-20261	32.3028488	-103.511078	18	23S	34E	Lea	NM	BELL LAKE	BONE SPRING	204,652	512	260
LEA UNIT #001	30-025-02427	32.5858536	-103.520256	12	20S	34E	Lea	NM	LEA	BONE SPRING	15,429	1,016	670

**Attachment 4: 1-mile Fresh Water Map and Tabular List**



Sec 34 26S 35E  
Lea County  
New Mexico

**Water Well  
Area of Review**

Dove 342635 Federal  
SWD 1

01/25/2021



Water Well Sampling Rational					
Dove 342635 Federal SWD 1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
There are no fresh water wells within a 1-mile radius					



NM Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

**Re: Geology Statement**  
**Anthem Water Solutions, LLC**  
**Dove 342635 Federal SWD No. 1**  
**Section 34, T. 26S, R. 35E**  
**Lea County, New Mexico**

To whom it may concern:

Publicly available geologic and engineering data related to the proposed well have been thoroughly reviewed, and no evidence for open faults or any other hydrologic connection between the proposed Devonian-Silurian injection zone and any underground sources of drinking water has been found. Please see the attached seismic risk assessment for additional information.

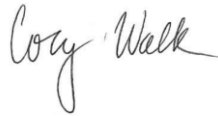
Sincerely,

Cory Walk  
Geologist



**Seismic Risk Assessment**  
**Anthem Water Solutions, LLC**  
**Dove 342635 Federal SWD No. 1**  
**Section 34, Township 26 South, Range 35 East**  
**Lea County, New Mexico**

**Cory Walk, M.S.**

A handwritten signature in black ink that reads "Cory Walk". The signature is written in a cursive style with a loop at the end of the last name.

**Geologist**

**Permits West Inc.**

**July 2, 2021**

## GENERAL INFORMATION

Dove 342635 Federal SWD No. 1 is located in the SW 1/4, section 34, T26S, R35E, about 12 miles southwest of Jal, NM in the Permian Basin. Anthem Water Solutions proposes the injection zone to be within the Devonian-Silurian formation through an open hole from 18,703'-19,649' below ground surface. This report assesses concerns relating to induced seismicity along deep penetrating Precambrian faults or the connection between the injection zone and known underground potable water sources.

## SEISMIC RISK ASSESSMENT

### *Historical Seismicity*

**Searching the USGS earthquake catalog resulted in no (0) earthquakes above a magnitude 2.5 within 6 miles (9.7 km) of the proposed deep disposal site since 1970 (Fig. 1).** The nearest earthquake occurred on November 8, 2020 about 9.1 miles (~14.7 km) southwest of the proposed SWD site and had a magnitude of 2.7.

### *Basement Faults and Subsurface Conditions*

A structure contour map (Fig. 1) of the Precambrian basement shows the Dove 342635 Federal SWD #1 is approximately 9.8 miles from the nearest basement-penetrating fault inferred by Ewing et al (1990). **Information about nearby faults is listed in Table 1.**

Snee and Zoback (2018) state, “In the western part of Eddy County, New Mexico,  $S_{Hmax}$  is ~north-south (consistent with the state of stress in the Rio Grande Rift; Zoback and Zoback, 1980) but rotates to ~east-northeast-west-southwest in southern Lea County, New Mexico and the northernmost parts of Culberson and Reeves counties, Texas.” **Around the Dove 342635 Federal SWD site, Snee and Zoback indicate a  $S_{Hmax}$  direction of N085°E and an  $A_\phi$  of 0.60, indicating an extensional (normal) stress regime.**

Induced seismicity is a growing concern of deep SWD wells. Software developed by the Stanford Center for Induced and Triggered Seismicity allows for the probabilistic screening of deeply penetrating faults near the proposed injection zone (Walsh et al., 2016; Walsh et al., 2017). This software uses parameters such as stress orientations, fault strike/dip, injection rates, fault friction coefficients, etc. to estimate the potential for fault slip. Using this software, Snee and Zoback (2018) indicate that the nearest fault (9.8 miles to the east) has a 0% probability of fault slip (Fig. 2). Other nearby faults inferred by Todd Reynolds (NMOCD case numbers 20141 and 21090) have similar strikes to those inferred by Ewing et al (1990) and therefore are expected to have similar low Fault Slip Potential (FSP) probabilities.

## GROUNDWATER SOURCES

Three principal aquifers are used for potable groundwater in Lea County; these geologic units include the Triassic Santa Rosa formation, Tertiary Ogallala formation, and Quaternary alluvium. Nicholson and Clebsch (1961) state, “Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of ‘potable’ ground water.” Around the Dove 342635 Federal SWD #1, the top of the Rustler Formation lies at a depth of approximately 1018’ bgs.

## **VERTICAL MIGRATION OF FLUIDS**

Permeability barriers exist above (Woodford shale; 380 ft thick) and below (Simpson Group; 1185 ft thick) the targeted Devonian-Silurian injection zone (Plate 2, Comer et al., 1991; Fig. 8, Frenzel et al., 1988). Precambrian structure contours (Ruppel, 2009) show the basement to be at a depth of approximately 22,650' in this area. Therefore, the injection zone lies approximately 3,000' above the Precambrian basement and approximately 17,685' below the previously stated lower limit of potable water at the top of the Rustler anhydrite formation. The stratigraphy suggests that the Woodford Shale and Simpson Group are adequate confining barriers that would prevent the vertical migration of injected fluids.

## **CONCLUSION**

After examination of publicly available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

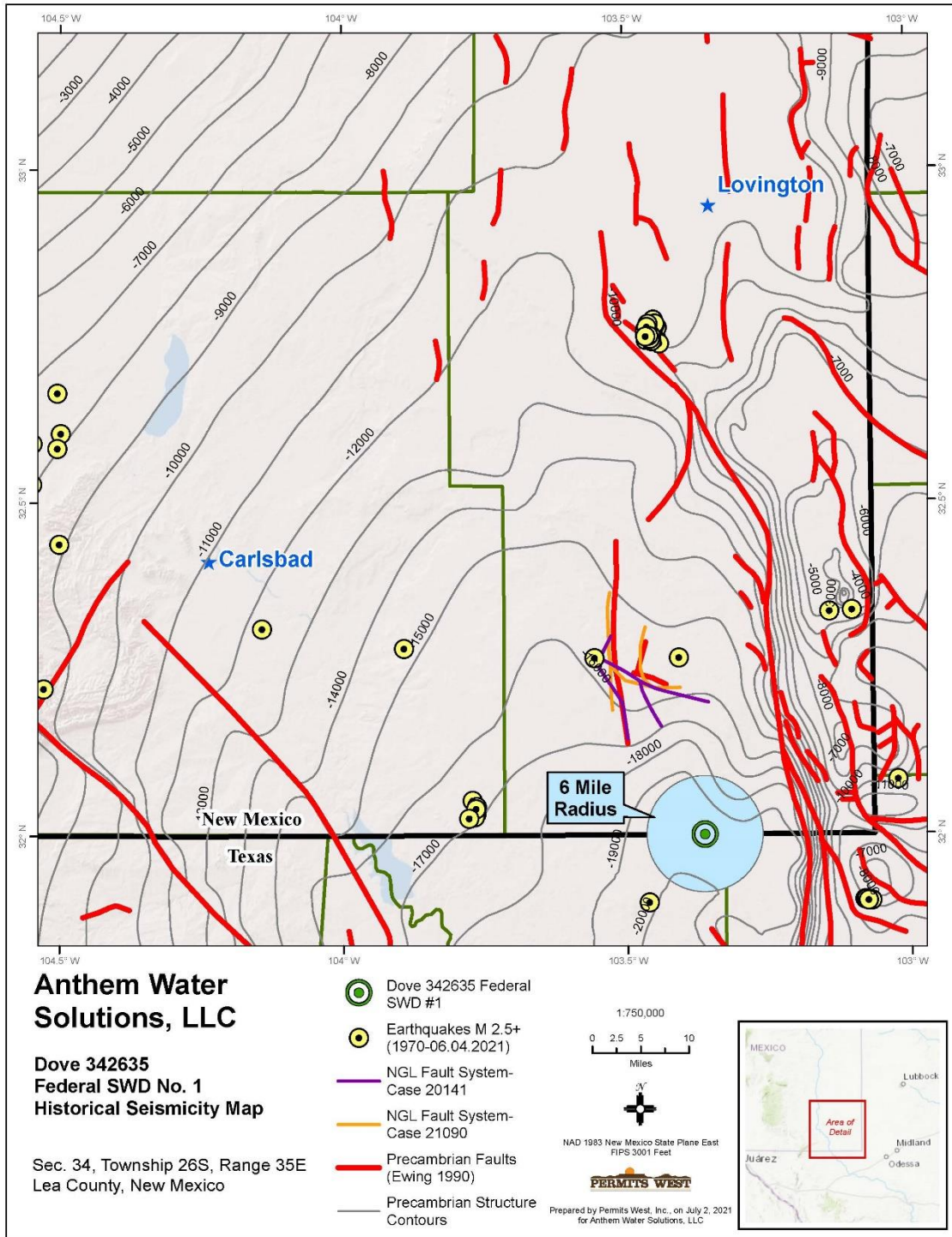


Figure 1. Structural contour map of the Precambrian basement in feet below sea level. Red lines represent the locations of Precambrian basement-penetrating faults (Ewing et al., 1990). Purple and orange lines represent the locations of basement-penetrating faults inferred by Todd Reynolds representing NGL in NMOCD Case Nos. 20141 and 21090. The Dove 342635 Federal SWD #1 well lies ~9.8 miles west of the closest deeply penetrating fault and ~9.1 miles northeast of the closest historic earthquake.

**Table 1: Nearby Fault Information**

Fault Number (Fig. 2)	Distance to proposed SWD (mi)	Strike (°)	Dip (°)	FSP (%)
1	9.8	339	50-90	0
2	12.2	348	50-90	0

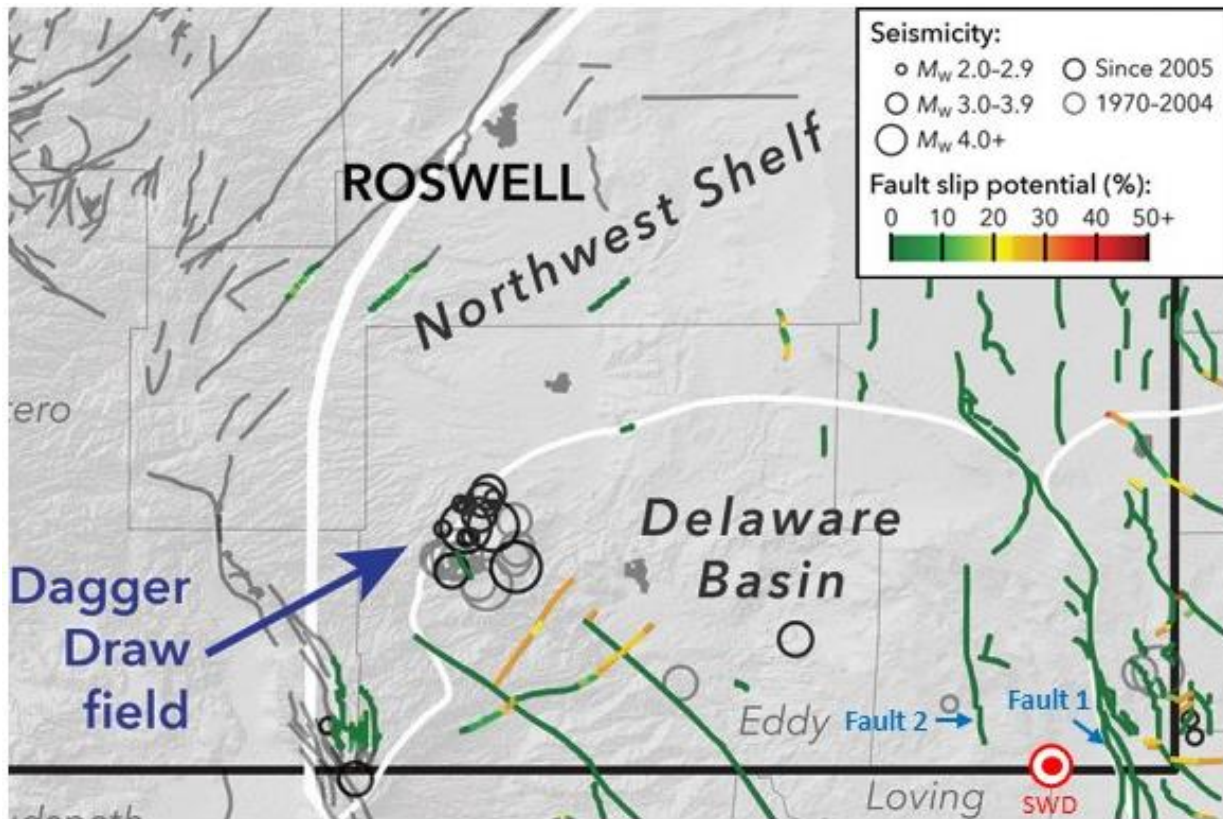


Figure 2. Modified Figure 3 from Snee and Zoback (2018). Map showing proposed location of Dove 342635 Federal SWD #1 in relation to Snee and Zoback’s results of their FSP analysis.

## References Cited

- Comer, J. B., 1991, Stratigraphic Analysis of the Upper Devonian Woodford Formation, Permian Basin, West Texas and Southeastern New Mexico: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations No. 201, 63 p.
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- Frenzel, H. N., Bloomer, R. R., Cline, R. B., Cys, J. M., Galley, J. E., Gibson, W. R., Hills, J. M., King, W. E., Seager, W. R., Kottowski, F. E., Thompson, S., III, Luff, G. C., Pearson, B. T., and Van Sicken, D. C., 1988, The Permian Basin region, in Sloss, L. L., ed., Sedimentary cover—North American Craton, U.S.: Boulder, Colorado, Geological Society of America, The Geology of North America, v. D-2, p. 261–306.
- Hurd, O; Zoback, MD, 2012, Intraplate earthquakes, regional stress and fault mechanics in the Central and Eastern U.S. and Southeastern Canada. *Tectonophysics*, 581:182-92.
- Nicholson, A., Jr., and Clebsch, A., Jr., 1961, Geology and ground-water conditions in southern Lea County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 6, 123 pp., 2 plates.
- Ruppel, S.C., 2009, Integrated synthesis of the Permian basin: data and models for recovering existing and undiscovered oil resources from the largest oil-bearing basin: U.S. Oil & Natural Gas Technology, Bureau Economic Geology, The University of Texas at Austin, p. 1-959.
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- Walsh, F. R., and Zoback, M. D., (2016) Probabilistic assessment of potential fault slip related to injection induced earthquakes: Application to north central Oklahoma, USA, *Geology*, Data Repository item 2016334, doi:10.1130/G38275.1
- Walsh, F. R., Zoback, M. D., Pais, D., Weingarten, M., and Tyrrell, T. (2017) FSP 1.0: A Program for Probabilistic Estimation of Fault Slip Potential Resulting From Fluid Injection, User Guide from the Stanford Center for Induced and Triggered Seismicity, available at [SCITS.Stanford.edu/software](https://SCITS.Stanford.edu/software)
- Zoback, M. L., and M. D. Zoback, 1980, State of stress in the conterminous United States: *Journal of Geophysical Research*, 85, no. B11, 6113–6156, <https://doi.org/10.1029/JB085iB11p06113>.

**Attachment 6: Public Notice Affidavit**

**Affidavit of Publication**

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF LEA )

John Graham being first duly sworn on oath deposes and says that he is Publisher of THE LOVINGTON LEADER, a once a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

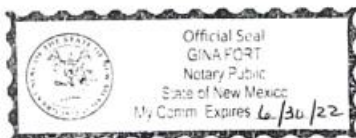
That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of July 8, 2021 and ending with the issue of July 8, 2021.

And that the cost of publishing said notice is the sum of \$ 38.39 which sum has been (Paid) as Court Costs.



John Graham, Publisher  
Subscribed and sworn to before me this 2nd day of August, 2021.

*Gina Fort*  
Gina Fort  
Notary Public, Lea County, New Mexico  
My Commission Expires June 30, 2022



**APPLICATION FOR AUTHORITY TO INJECT**  
To Whom it May Concern,  
**NOTICE IS HEREBY GIVEN;** That Anthem Water Solutions, LLC, 5914 W. Courtyard Dr., Suite 320, Austin Texas, 78730, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORITY TO INJECT as follow:  
**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:** Dove 342635 Federal SWD 1 Located 13 miles southwest of Jal. SW1/4 of the SW1/4 Section 34, Township 26S, Range 35E, 180' from South Line & 54' from West Line, Lea County, New Mexico.  
**NAME AND DEPTH OF DISPOSAL ZONE:** Devonian-Silurian (18703' - 19649')  
**EXPECTED MAXIMUM INJECTION RATE:** 30,000 barrels/day  
**EXPECTED MAXIMUM INJECTION PRESSURE:** 3740 psi (surface)  
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objections or requests 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 Marshall Tippen (972) 795-4201.  
  
Published in the Lovington Leader July 8, 2021

## Attachment 6: List of Notification Applicants & Delivery Confirmations

Dove 342635 Federal SWD 1 - Notice of Application Receipts				
Entity	Address	City	State	Zip Code
<b>Landowner and 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 (1-mile)</b>				
FRANKLIN MOUNTAIN ENERGY LLC	2401 E 2ND AVE STE 300	DENVER	CO	80206
DEVON ENERGY CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY	OK	73102
CHEVRON USA INC	6301 DEAUVILLE	MIDLAND	TX	79706
<b>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).</b>				





Marshall Tippen  
Anthem Water Solutions, LLC  
3300 North A Street, Building 2, Suite 222  
Midland, Texas 79705

New Mexico BLM  
620 E Greene St.  
Carlsbad, NM 88220

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Regards,

A handwritten signature in black ink, appearing to read "Marshall Tippen", is written in a cursive style.

Marshall Tippen



Marshall Tippen  
Anthem Water Solutions, LLC  
3300 North A Street, Building 2, Suite 222  
Midland, Texas 79705

NMOCD District 1  
1625 N. French Drive  
Hobbs, NM 88240

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Marshall Tippen



Marshall Tippen  
Anthem Water Solutions, LLC  
3300 North A Street, Building 2, Suite 222  
Midland, Texas 79705

FRANKLIN MOUNTAIN ENERGY LLC  
2401 E 2ND AVE STE 300  
DENVER, CO 80206

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Regards,

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Marshall Tippen



Marshall Tippen  
Anthem Water Solutions, LLC  
3300 North A Street, Building 2, Suite 222  
Midland, Texas 79705

DEVON ENERGY CO LP  
333 W SHERIDAN AVE  
OKLAHOMA CITY, OK 73102

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Marshall Tippen



Marshall Tippen  
Anthem Water Solutions, LLC  
3300 North A Street, Building 2, Suite 222  
Midland, Texas 79705

CHEVRON USA INC  
6301 DEAUVILLE  
MIDLAND, TX 79706

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**NOTICE IS HEREBY GIVEN;** That Anthem Water Solutions, LLC, 5914 W. Courtyard Dr., Suite 320, Austin Texas, 78730, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORITY TO INJECT as follow:

**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:** Dove 342635 Federal SWD 1 Located 13 miles southwest of Jal. SW1/4 of the SW1/4 Section 34, Township 26S, Range 35E, 180' from South Line & 54' from West Line, Lea County, New Mexico.

**NAME AND DEPTH OF DISPOSAL ZONE:** Devonian-Silurian (18703' – 19649')

**EXPECTED MAXIMUM INJECTION RATE:** 30,000 barrels/day

**EXPECTED MAXIMUM INJECTION PRESSURE:** 3740 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objections or requests 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 Marshall Tippen (972) 795-4201.

Regards,

A handwritten signature in black ink, appearing to read "Marshall Tippen", is written in a cursive style.

Marshall Tippen

Jack Ball  
Anthem Water Solutions  
5914 W. Courtyard Dr., Ste 320  
Austin TX 78730-4924

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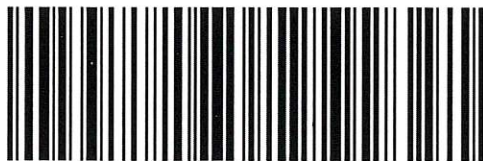
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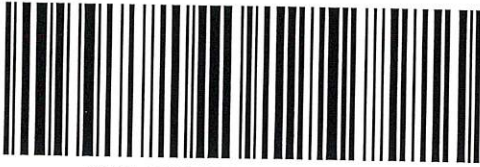


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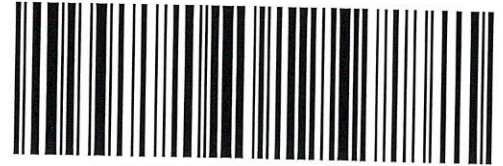
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Carlsbad NM 88220

NMOCD District 1  
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