

# Initial Application Part I

Received 9/8/21

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

RECEIVED: <b>9/8/21</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2125330711</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:** Snowy Egret 142429 Federal SWD 1 **API:** 30-015-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-2457**

- 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

<b>FOR OCD ONLY</b>	
<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

9/7/2021

Date

**(972) 795-4201**

Phone Number

**mtippen@anthemwslc.com**

e-mail Address



9/7/2021

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 Snowy Egret 142429 Federal SWD 1 located in Unit A, Section 14, Township 24 South, Range 29 East, NMPM, Eddy 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 8/5/2021 in Carlsbad Current-Argus 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 blue 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: 9/7/2021

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: Snowy Egret 142429 Federal SWD 1

Location Footage Calls: 1091' from FNL, 32' from FEL

Legal Location: Unit A, Section 14, Township 24 South, Range 29 East, NMPM

Ground Elevation: 3009 feet

Proposed Injection Interval: 15409 - 16619 (open hole)

County: Eddy

#### 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	-	-	-	-	11,951	15,409
Depth Set Bottom	120	200	3,322	12,151	15,409	16,619
TOC	Surf	Surf	Surf	Surface	-	-
TOC Method	Circ	Circ	Circ	Circ	CBL	-
Volume (Sacks)	250	101	592	3,581	574	N/A
DV Tool 1	N/A	N/A	N/A	3,372	N/A	N/A
DV Tool 2	N/A	N/A	N/A	8,950	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	-	11,851
Depth Set Bottom	11,851	15,359

*\*Wellbore Diagram Attached*

**4) Packer Information:**

Arrowset AS1-X or equivalent packer set at approximately 15359 feet

*\*Packer Schematic Attached*

**B. Completion Information**

- 1) **Injection Formation Name:** Devonian-Silurian  
**Pool Name:** SWD; Devonian-Silurian  
**Pool Code:** 97869
- 2) **Injection Interval:** 15409 - 16619 (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: 3272'
  - Bone Spring: 8067'
  - Wolfcamp: 10358'
  - Strawn: 12421'
  - Atoka: 12677'
  - Morrow: 13296'
- 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 24 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:** 3081 psi (surface)
- 4) **Proposed Average Injection Pressure:** 1848 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 15409 feet to 16619 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 70 feet. The USDW is covered by 16-inch casing set at 200 feet and cemented to surface, additionally the USDW is covered by intermediate casing set at 3322 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 Carlsbad Current-Argus 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 30-015-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 Snowy Egret 142429 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 3009

<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
A	14	24S	29E		1091	North	32	East	Eddy

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

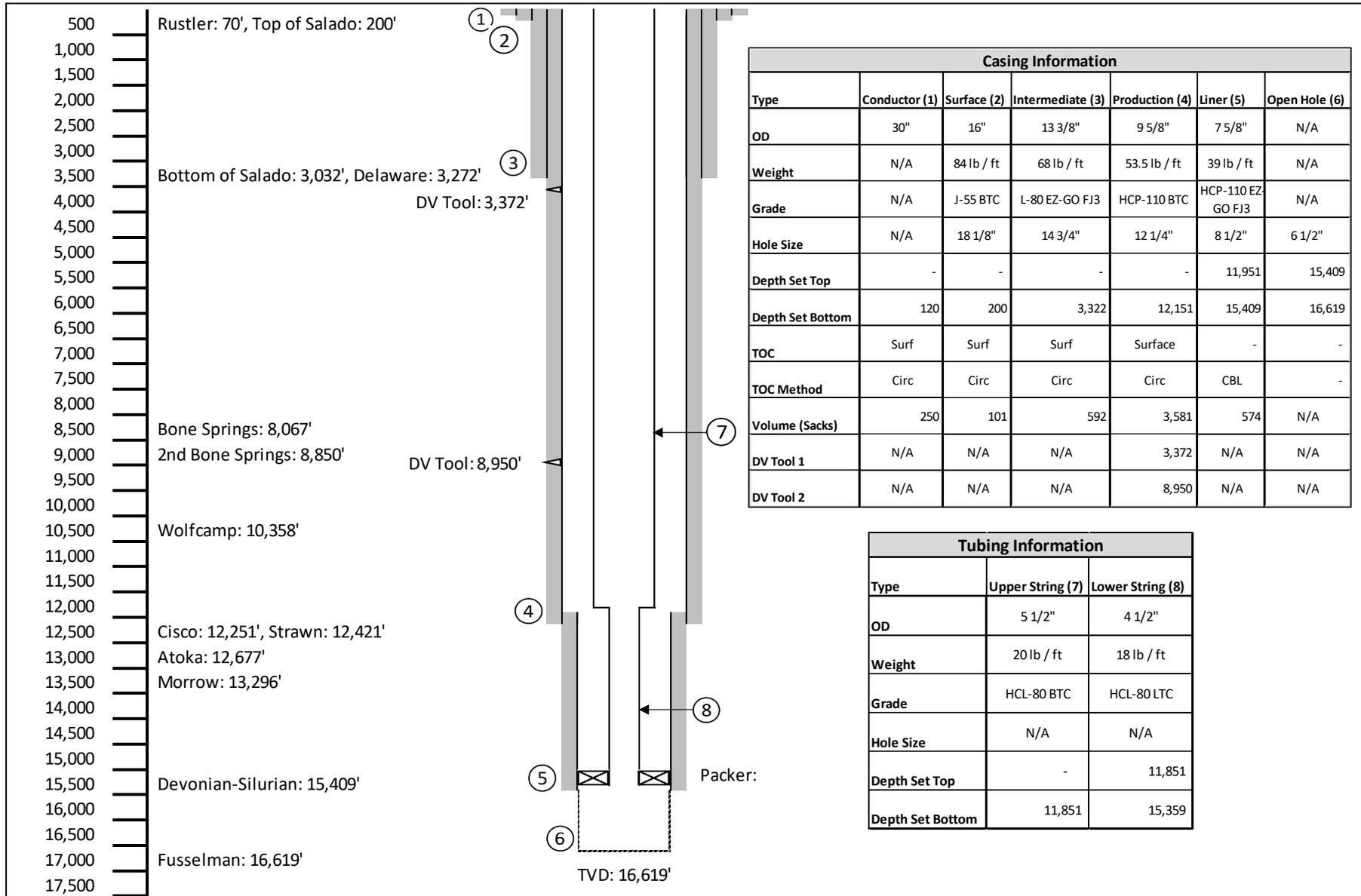
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<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.

D	C	B	A		<p><b><sup>17</sup> 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>
E	F	G	H		
L	K	J	I	<p><b><sup>18</sup> 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>	
M	N	O	P		

**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	-	-	-	-	11,951	15,409
Depth Set Bottom	120	200	3,322	12,151	15,409	16,619
TOC	Surf	Surf	Surf	Surface	-	-
TOC Method	Circ	Circ	Circ	Circ	CBL	-
Volume (Sacks)	250	101	592	3,581	574	N/A
DV Tool 1	N/A	N/A	N/A	3,372	N/A	N/A
DV Tool 2	N/A	N/A	N/A	8,950	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	-	11,851
Depth Set Bottom	11,851	15,359

	<b>Wellbore Schematic: Snowy Egret 142429 Federal SWD 1</b>	
	API: 30-015-XXXXX	Section: 14
5914 W. Courtyard Dr. Suite 320, Austin, Texas, 78730	NMOCD District: 2	Township: 24S
	Prepared By: PMT	Range: 29E
	Notes:	County: Eddy

## 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.

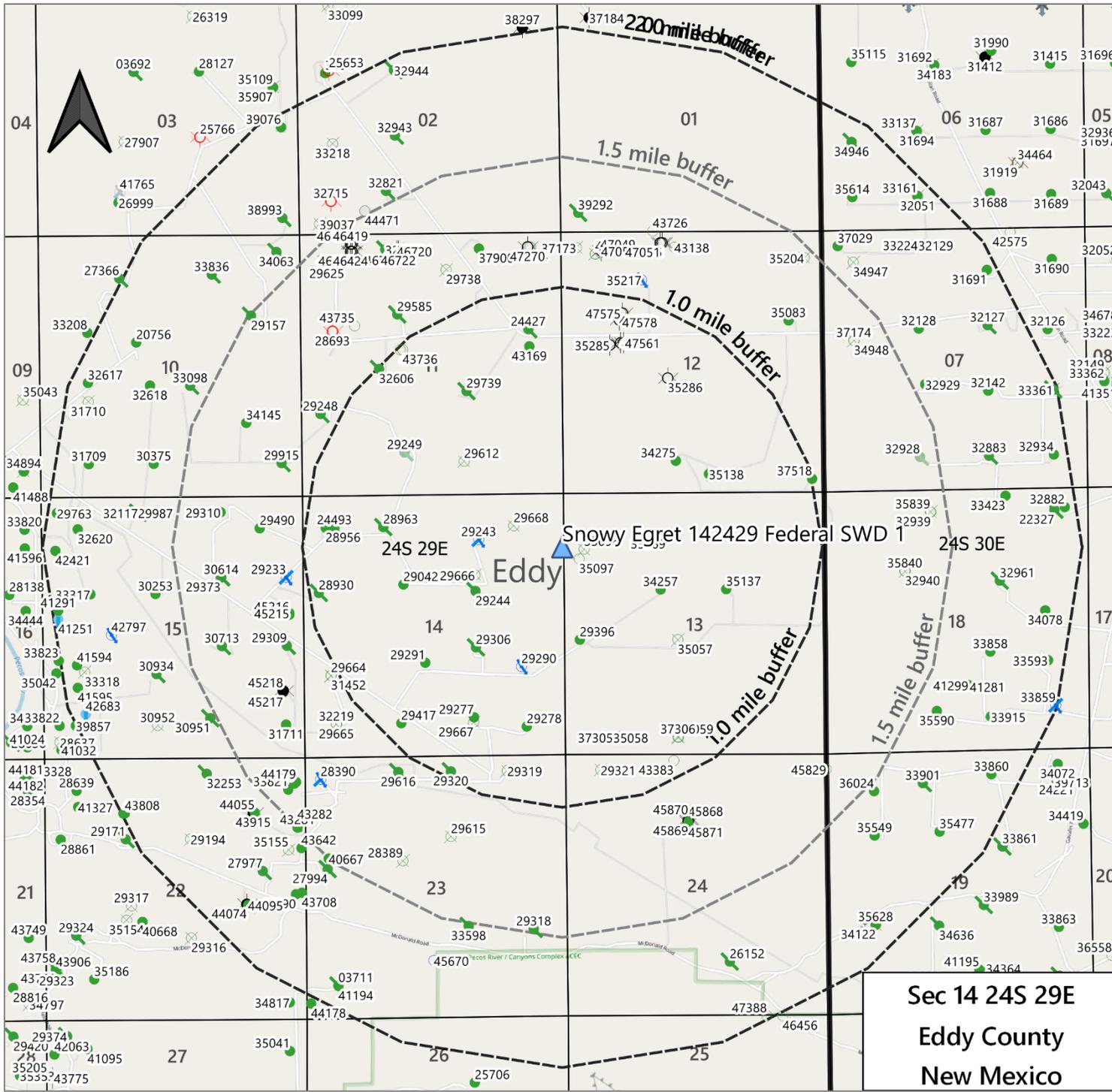
### FEATURES, ADVANTAGES AND BENEFITS:

- 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, Cancelled
- ⊙ Gas, New
- ⊗ Gas, Plugged (not released)
- ⊗ Gas, Plugged (site released)
- Injection, Active
- ⊗ Injection, Plugged (site released)
- Miscellaneous, New
- Oil, Active
- ⊗ Oil, Cancelled
- Oil, New
- Oil, Plugged (not released)
- Oil, Plugged (site released)
- Oil, Temporary Abandonment
- Salt Water Disposal, Active
- ⊗ Salt Water Disposal, Cancelled
- Salt Water Disposal, New
- ⊗ Salt Water Disposal, Plugged (not released)
- ⊗ Salt Water Disposal, Plugged (site released)

**Offset Well Review  
Area of Review**

**Snowy Egret 142429  
Federal SWD 1**

**Sec 14 24S 29E  
Eddy County  
New Mexico**



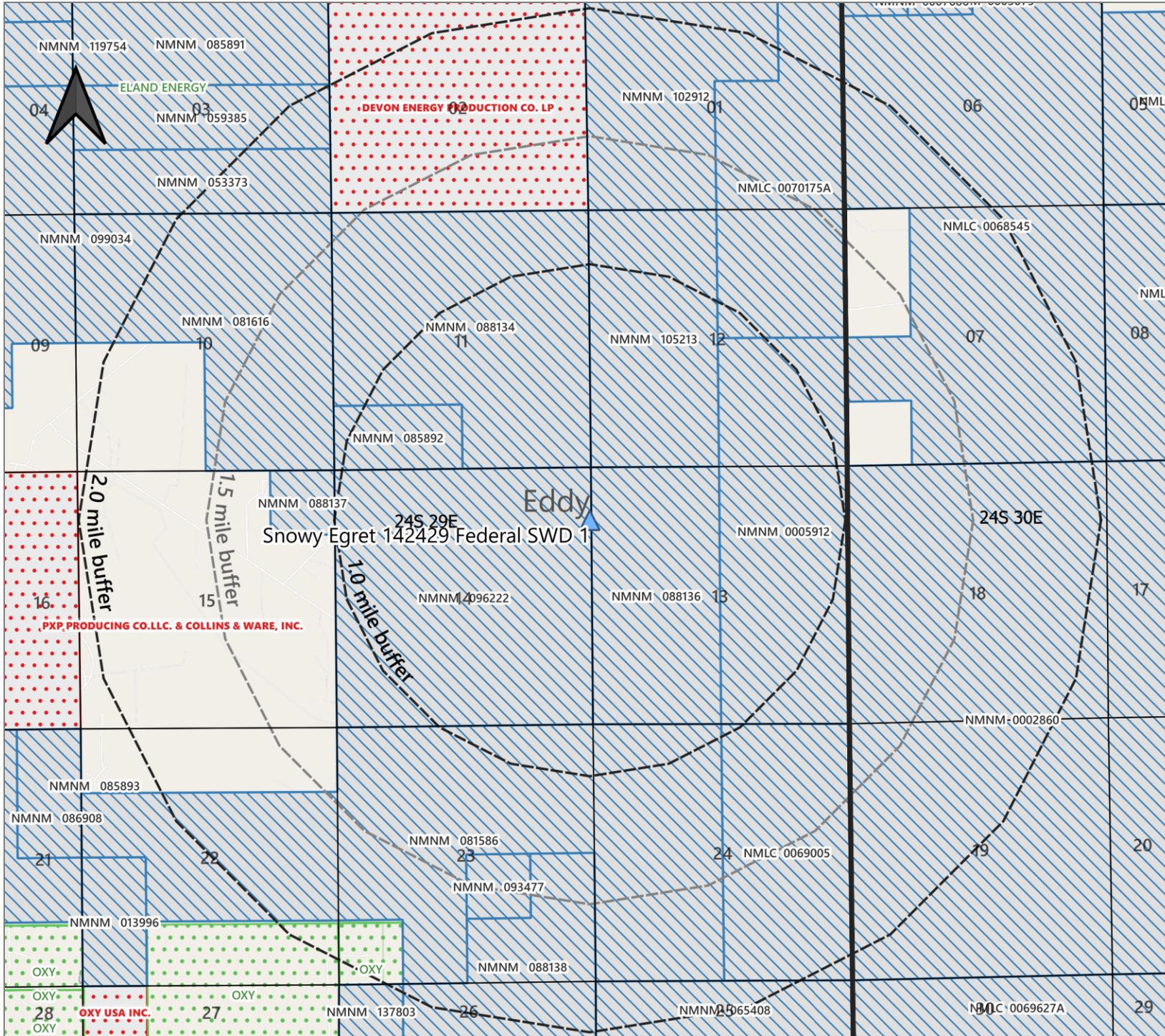
## Attachment 2: 1-mile Well Detail List

AOR Tabulation for Snowy Egret 142429 Federal SWD 1 (Top of Injection Interval: 15,409')								
Well Name	API #	Well Type	Well Status	Operator	Spud Date	Location (Sec, Tn, Rg)	TVD	Penetrate Inj Zone
ORE IDA 14 FEDERAL #002	30-015-28930	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	2/20/1997	E-14-24S-29E	8,350	no
CEDAR CANYON #001	30-015-24493	Oil	Plugged (site released)	AMMEX PETROLEUM INC	6/28/1983	D-14-24S-29E	6,804	no
H B 11 FEDERAL #007	30-015-32606	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	3/7/2003	K-11-24S-29E	8,401	no
ORE IDA 14 FEDERAL #001	30-015-28956	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	5/7/1996	D-14-24S-29E	8,122	no
ORE IDA 14 FEDERAL #004	30-015-28963	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	10/30/1996	C-14-24S-29E	8,350	no
H B 11 FEDERAL #003	30-015-29249	Oil	Temporary Abandonment	DEVON ENERGY PRODUCTION COMPANY, LP	1/21/1997	N-11-24S-29E	8,300	no
ORE IDA 14 FEDERAL #012	30-015-29291	Oil	Active	SHACKELFORD OIL CO	3/17/1997	K-14-24S-29E	8,332	no
ORE IDA 14 FEDERAL #013	30-015-29417	Oil	Active	SHACKELFORD OIL CO	4/8/1997	N-14-24S-29E	8,350	no
NEW POTATO 11 14 FEDERAL COM #002H	30-015-43737	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	F-11-24S-29E	-	no
ORE IDA 14 FEDERAL #007	30-015-29306	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	1/28/1997	J-14-24S-29E	8,354	no
H B 11 FEDERAL #011	30-015-29739	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	10/31/1997	J-11-24S-29E	8,460	no
ORE IDA 14 FEDERAL D #001	30-015-29666	Oil	Cancelled	DEVON ENERGY PRODUCTION CO.	N/A	G-14-24S-29E	-	no
ORE IDA 14 FEDERAL #008	30-015-29277	Oil	Active	SHACKELFORD OIL CO	1/9/1997	O-14-24S-29E	8,340	no
ORE IDA 14 FEDERAL #003	30-015-29042	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	8/8/1996	F-14-24S-29E	8,105	no
ORE IDA 14 FEDERAL #006	30-015-29244	Oil	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	12/21/1996	G-14-24S-29E	8,350	no
NEW POTATO 11 2 FEDERAL COM #006H	30-015-43736	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	F-11-24S-29E	-	no
ORE IDA 14 FEDERAL #005	30-015-29243	Salt Water Disposal	Plugged (site released)	DEVON ENERGY PRODUCTION COMPANY, LP	11/30/1996	B-14-24S-29E	8,350	no
ORE IDA 14 FEDERAL D #002	30-015-29667	Oil	Cancelled	DEVON ENERGY PRODUCTION CO.	N/A	O-14-24S-29E	-	no
RIVERBEND B FEDERAL #011	30-015-29320	Oil	Plugged (site released)	OXY USA INC	4/19/1997	B-23-24S-29E	8,250	no
RIVERBEND A FEDERAL #010	30-015-29319	Oil	Cancelled	POGO PRODUCING CO	N/A	A-23-24S-29E	-	no
H B 11 FEDERAL #012	30-015-29612	Oil	Cancelled	DEVON SFS OPERATING INC	N/A	O-11-24S-29E	-	no
ORE IDA 14 FEDERAL #010	30-015-29290	Salt Water Disposal	Active	DEVON ENERGY PRODUCTION COMPANY, LP	1/28/1997	I-14-24S-29E	8,354	no
NEW POTATO 11 FEDERAL COM #001H	30-015-43169	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	6/23/2015	E-11-24S-29E	8,903	no
CORRAL DRAW AQH FEDERAL #005	30-015-35097	Oil	New	EOG RESOURCES INC	N/A	E-13-24S-29E	9,250	no
ORE IDA 14 FEDERAL #009	30-015-29278	Oil	Active	SHACKELFORD OIL CO	4/6/1997	P-14-24S-29E	8,350	no
PRE-ONGARD WELL #001	30-015-24427	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	2/24/1983	H-11-24S-29E	7,102	no
CORRAL DRAW AQH FEDERAL #004H	30-015-37305	Oil	New	EOG RESOURCES INC	N/A	M-13-24S-29E	-	no
RIVERBEND 24 D FEDERAL #001	30-015-29321	Oil	Cancelled	POGO PRODUCING CO	N/A	D-24-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #002	30-015-34257	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	12/6/2005	F-13-24S-29E	9,230	no
CORRAL DRAW AQH FEDERAL #003H	30-015-43383	Oil	New	EOG RESOURCES INC	N/A	N-13-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #004C	30-015-35096	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	13-24S-29E	9,250	no
CORRAL DRAW AQH FEDERAL #003C	30-015-35069	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	C-13-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #007C	30-015-35058	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	M-13-24S-29E	-	no
JESTER BFJ FEDERAL #003	30-015-35285	Gas	New	EOG RESOURCES INC	N/A	12-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #008C	30-015-35059	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	N-13-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #003	30-015-37306	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	N-13-24S-29E	-	no
ORE IDA 14 FEDERAL #011	30-015-29668	Oil	Cancelled	DEVON ENERGY PRODUCTION CO.	N/A	A-14-24S-29E	-	no
CORRAL DRAW AQH FEDERAL #006C	30-015-35057	Oil	Cancelled	EOG Y RESOURCES, INC.	N/A	K-13-24S-29E	-	no
POKER LAKE UNIT #274	30-015-35138	Oil	Active	XTO PERMIAN OPERATING LLC.	6/4/2008	O-12-24S-29E	9,288	no
POKER LAKE UNIT #276	30-015-35137	Oil	Active	XTO PERMIAN OPERATING LLC.	3/30/2008	G-13-24S-29E	9,280	no
JESTER BFJ FEDERAL #002	30-015-35286	Gas	New	EOG RESOURCES INC	N/A	12-24S-29E	-	no
JESTER BFJ FEDERAL #001	30-015-34275	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	4/1/2006	N-12-24S-29E	9,260	no
CORRAL DRAW AQH FEDERAL #001	30-015-29396	Oil	Active	DEVON ENERGY PRODUCTION COMPANY, LP	2/26/1997	L-13-24S-29E	9,200	no
FULLY LOADED 12 13 FEDERAL COM #621H	30-015-47548	Gas	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 13 FEDERAL COM #622H	30-015-47549	Gas	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 13 FEDERAL COM #331H	30-015-47551	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 13 FEDERAL COM #332H	30-015-47561	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 1 FEDERAL COM #331H	30-015-47575	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 1 FEDERAL COM #332H	30-015-47576	Oil	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 1 FEDERAL COM #621H	30-015-47577	Gas	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no
FULLY LOADED 12 1 FEDERAL COM #622H	30-015-47578	Gas	New	DEVON ENERGY PRODUCTION COMPANY, LP	N/A	E-12-24S-29E	-	no

**Notes:**

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

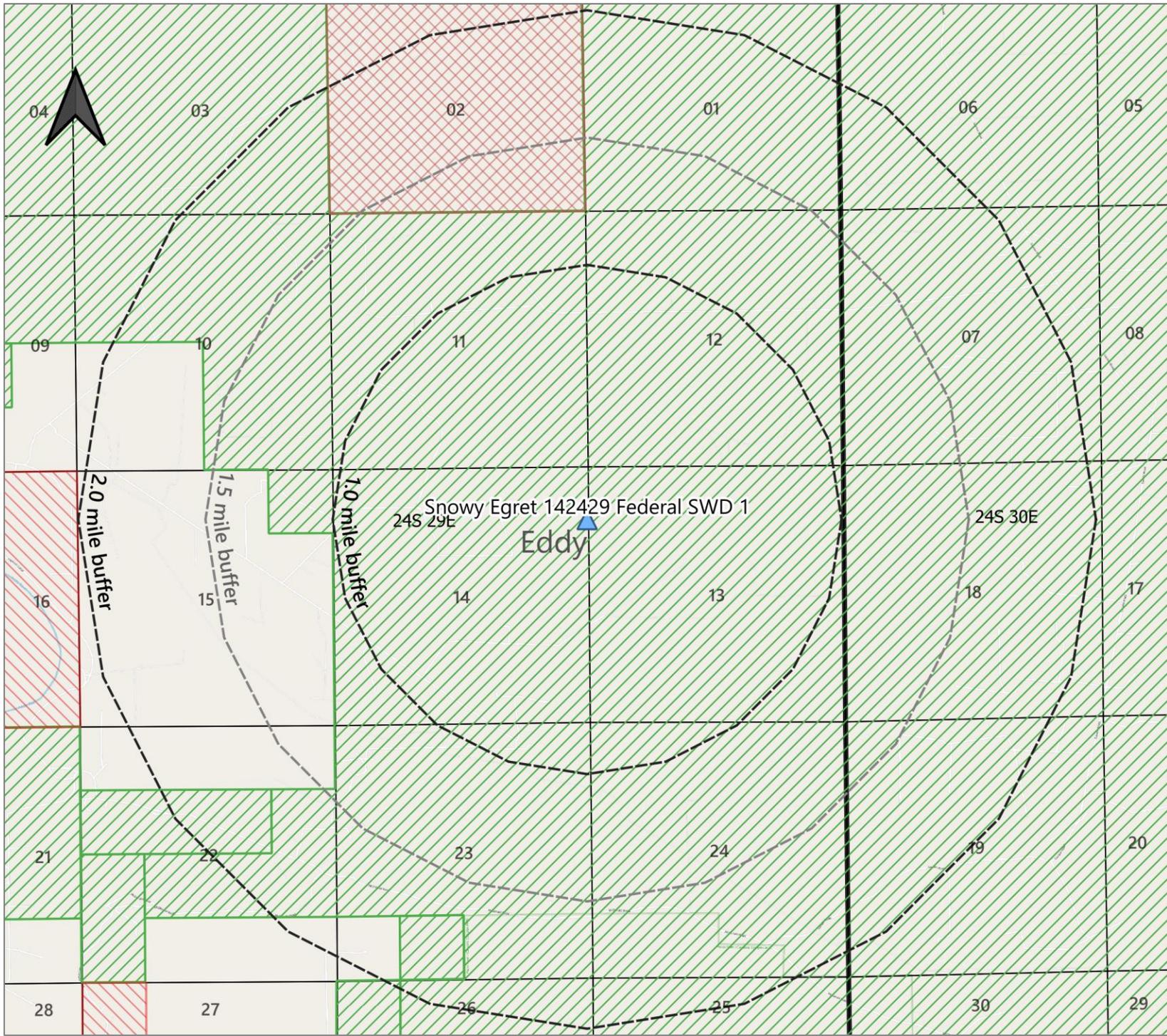
Sec 14 24S 29E  
 Eddy County  
 New Mexico

**Mineral Leasehold  
 Area of Review**

Snowy Egret 142429  
 Federal SWD 1



Attachment 2: Mineral Ownership Map



Legend

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

Sec 14 24S 29E  
Eddy County  
New Mexico

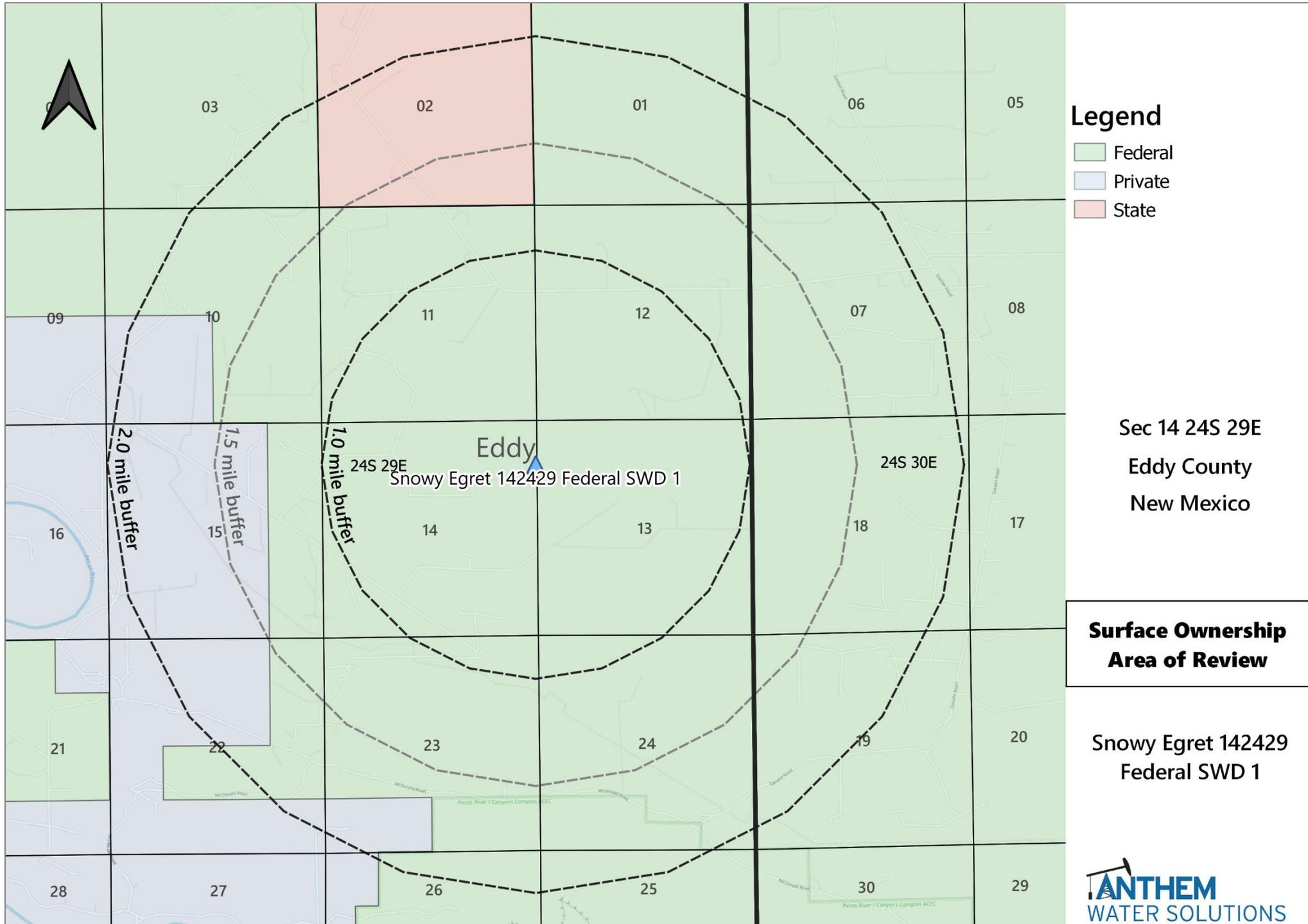
**Mineral Ownership  
Area of Review**

Snowy Egret 142429  
Federal SWD 1

01/25/2021



Attachment 2: Surface Ownership Map



Attachment 2: 1.5 Mile Deep SWD Map



Legend

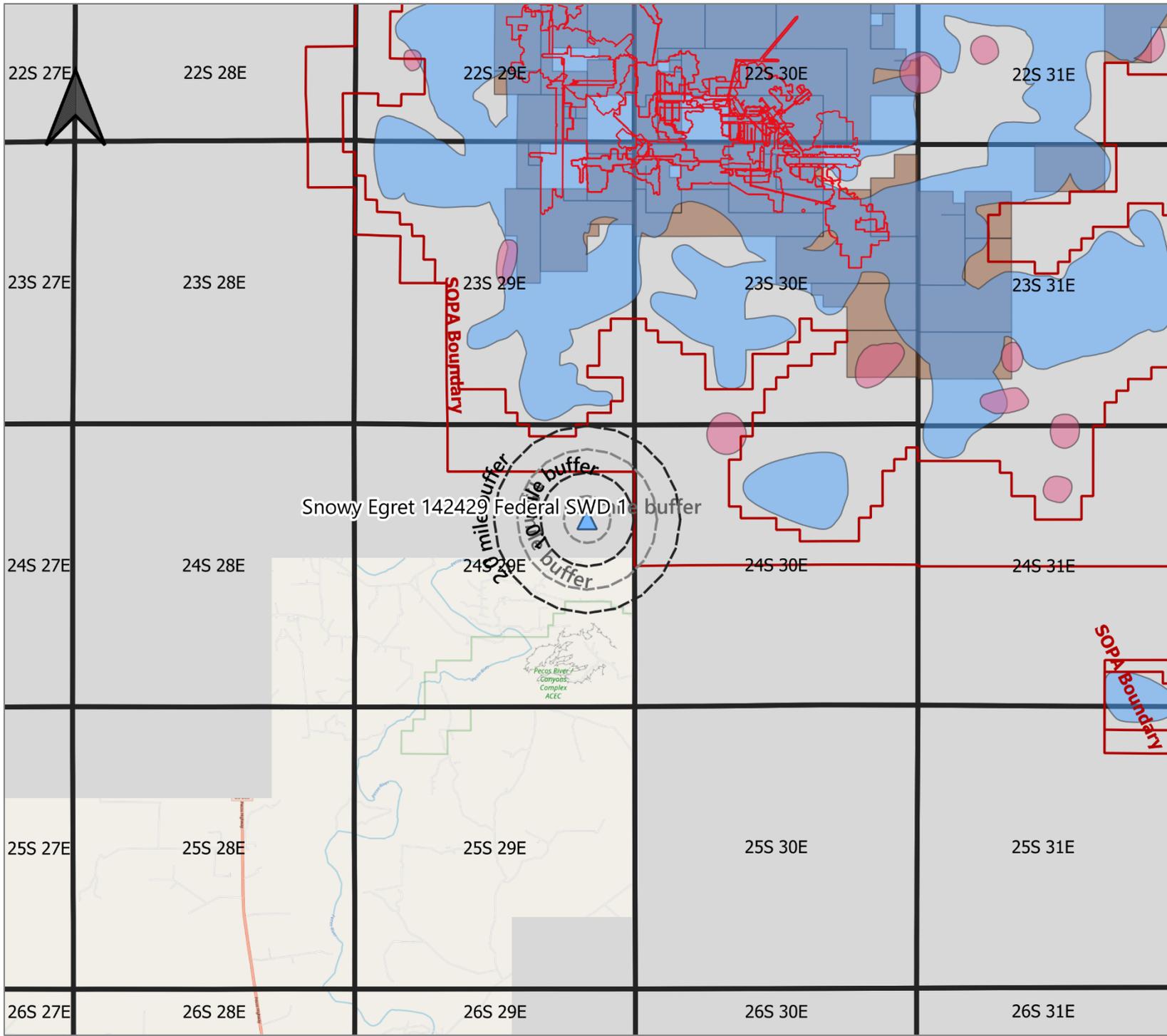
Sec 14 24S 29E  
Eddy County  
New Mexico

**Deep SWD Review  
Area of Review**

Snowy Egret 142429  
Federal SWD 1



Attachment 2: Potash Lease Map



**Legend**

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

Sec 14 24S 29E  
Eddy County  
New Mexico

**Potash Map  
Area of Review**

Snowy Egret 142429  
Federal SWD 1

01/25/2021

### Attachment 3: Formation & Source Water Analysis

#### Injection Formation Water Analysis

##### Anthem Water Solutions, LLC

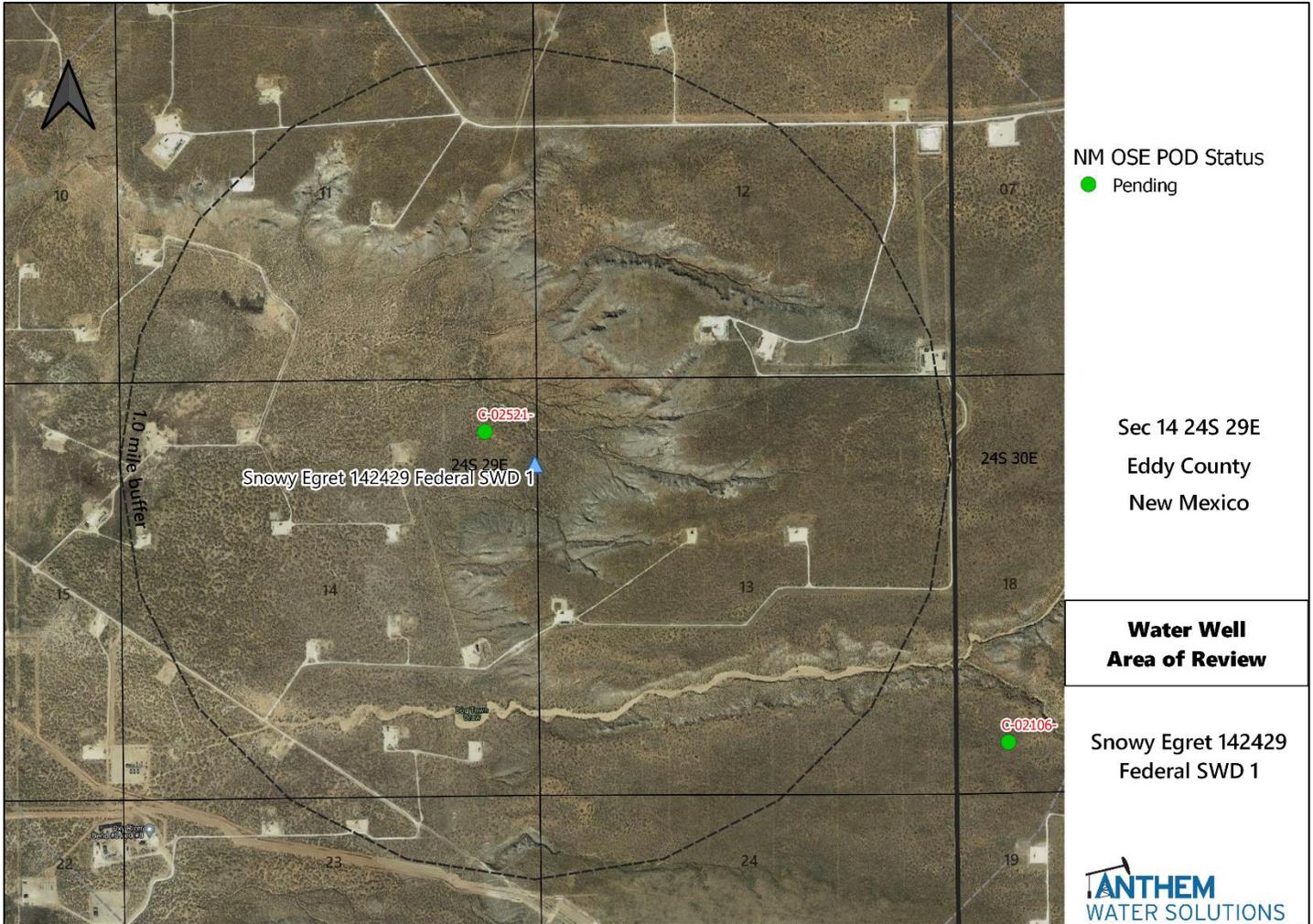
Well Name	API	Latitude	Longitude	Section	Township	Range	County	State	Field	Formation	TDS (Mg/L)	Bicarbonate (MG/L)	Sulfate (Mg/L)
PRE-ONGARD WELL #001	30-015-02416	32.5527229	-104.1623917	22	20S	28E	Eddy	NM		DEVONIAN	39,605	810	1,618
PRE-ONGARD WELL #001	30-015-02475	32.4421539	-104.042305	36	21S	28E	Eddy	NM		DEVONIAN	50,026	762	1,150
PRE-ONGARD WELL #001	30-015-03537	32.6839676	-104.0347595	1	19S	29E	Eddy	NM		DEVONIAN	29,011	520	1,500
WHITE CITY PENN GAS COM UNIT 1 #001	30-015-00408	32.1937523	-104.3088455	29	24S	26E	Eddy	NM	WHITE CITY	DEVONIAN	#N/A	653	1,336
REMUDA BASIN UNIT #001	30-015-03691	32.2886238	-103.9360428	24	23S	29E	Eddy	NM	REMUDA	DEVONIAN	271,010	130	100
BIG EDDY SWD #001	30-015-05819	32.5968154	-103.8504983	3	20S	31E	Eddy	NM	SWD	DEVONIAN	137,989	1,420	1,751
COTTON DRAW UNIT #084	30-015-29728	32.1592751	-103.7438736	2	25S	31E	Eddy	NM	PADUCA	DEVONIAN	85,799	59	389
COTTON DRAW UNIT #076	30-015-29252	32.1565857	-103.737999	1	25S	31E	Eddy	NM	PADUCA	DEVONIAN	128,947	317	481
COTTON DRAW UNIT #086	30-015-29850	32.1446877	-103.7278824	12	25S	31E	Eddy	NM	PADUCA	DEVONIAN	131,450	353	542

#### 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)
PRE-ONGARD WELL #001	30-015-02416	32.5527229	-104.1623917	22	20S	28E	Eddy	NM		WOLFCAMP	55,965	252	2,260
PRE-ONGARD WELL #004	30-015-02280	32.6479454	-104.1791229	21	19S	28E	Eddy	NM	MILLMAN EAST	WOLFCAMP	118,720	2,700	1,080
SERRANO 29 FEDERAL #001H	30-015-37763	32.1901523	-104.2192003	29	24S	27E	Eddy	NM	SULPHATE DRAW	WOLFCAMP	102,136	183	#N/A
HABANERO 17 FEDERAL COM #001H	30-015-36108	32.2218759	-104.2189611	17	24S	27E	Eddy	NM	BLACK RIVER	WOLFCAMP	108,205	146	#N/A
WHITE CITY PENN GAS COM UNIT 1 #001	30-015-00408	32.1937523	-104.3088455	29	24S	26E	Eddy	NM	WHITE CITY	WOLFCAMP	#N/A	653	1,336
STATE AC COM #001	30-015-22299	32.5572166	-104.1806107	21	20S	28E	Eddy	NM	BURTON FLAT	WOLFCAMP	144,926	37	1,350
PURE GOLD C-17 FEDERAL #002	30-015-26021	32.3057258	-103.7987356	17	23S	31E	Eddy	NM	SAND DUNES WEST	WOLFCAMP	11,361	1,708	#N/A
PARKWAY WEST UNIT #015	30-015-32363	32.6353531	-104.0734329	28	19S	29E	Eddy	NM	PARKWAY WEST UNIT #015	BONE SPRING	215,934	98	702
APACHE 25 FEDERAL #009	30-015-32797	32.361248	-103.8309479	25	22S	30E	Eddy	NM	APACHE 25 FEDERAL #009	BONE SPRING	160,590	146	856
TODD 22 G FEDERAL #007	30-015-32881	32.2917137	-103.7635422	22	23S	31E	Eddy	NM	TODD 22 G FEDERAL #007	BONE SPRING	269,658	37	10
PARKWAY #021	30-015-32686	32.6253433	-104.0725937	28	19S	29E	Eddy	NM	PARKWAY #021	BONE SPRING	214,972	85	715
TODD 15 M FEDERAL #013	30-015-33118	32.2989769	-103.7720947	15	23S	31E	Eddy	NM	TODD 15 M FEDERAL #013	BONE SPRING	292,473	85	490
APACHE 25 FEDERAL #005	30-015-32720	32.3612404	-103.8266678	25	22S	30E	Eddy	NM	APACHE 25 FEDERAL #005	BONE SPRING	300,667	61	17
STRAWBERRY 7 FEDERAL #003	30-015-37171	32.6812553	-103.9148483	7	19S	31E	Eddy	NM	STRAWBERRY 7 FEDERAL #003	BONE SPRING	185,540	183	600
STRAWBERRY 7 FEDERAL #007	30-015-38485	32.6812526	-103.9012376	7	19S	31E	Eddy	NM	STRAWBERRY 7 FEDERAL #007	BONE SPRING	187,930	98	940
REMUDA BASIN UNIT #001	30-015-03691	32.2886238	-103.9360428	24	23S	29E	Eddy	NM	REMUDA BASIN UNIT #001	BONE SPRING	271,010	130	100
JONES FEDERAL B #003	30-015-10394	32.6405487	-103.8334885	23	19S	31E	Eddy	NM	JONES FEDERAL B #003	BONE SPRING	178,015	305	721
LONETREE STATE #001	30-015-21920	32.478508	-104.1454086	13	21S	27E	Eddy	NM	LONETREE STATE #001	BONE SPRING	244,966	122	1,013
FEDERAL HJ-27 #001	30-015-25780	32.6335258	-103.863533	27	19S	31E	Eddy	NM	FEDERAL HJ-27 #001	BONE SPRING	176,639	305	530
HANLEY FEDERAL #001	30-015-26068	32.7674713	-103.9105911	7	18S	31E	Eddy	NM	HANLEY FEDERAL #001	BONE SPRING	204,076	293	1,515
ALLIED 7 FEDERAL #001	30-015-25900	32.7638435	-103.9067764	7	18S	31E	Eddy	NM	ALLIED 7 FEDERAL #001	BONE SPRING	225,562	122	740
APACHE 25 FEDERAL #002	30-015-27478	32.3576164	-103.8298492	25	22S	30E	Eddy	NM	APACHE 25 FEDERAL #002	BONE SPRING	9,546	183	51
ORE IDA 14 FEDERAL #009	30-015-29278	32.2118607	-103.9491348	14	24S	29E	Eddy	NM	ORE IDA 14 FEDERAL #009	BONE SPRING	190,367	244	539
H B 11 FEDERAL #003	30-015-29249	32.2272186	-103.9569855	11	24S	29E	Eddy	NM	H B 11 FEDERAL #003	BONE SPRING	195,306	256	650
HACKBERRY 18 FEDERAL #001	30-015-29780	32.654953	-103.9065323	18	19S	31E	Eddy	NM	HACKBERRY 18 FEDERAL #001	BONE SPRING	180,325	85	850
WEST SHUGART 19 FEDERAL #002	30-015-30780	32.7271385	-103.9094238	19	18S	31E	Eddy	NM	WEST SHUGART 19 FEDERAL #002	BONE SPRING	144,906	390	850
WEST SHUGART 30 FEDERAL #003	30-015-30776	32.7247467	-103.9067154	30	18S	31E	Eddy	NM	WEST SHUGART 30 FEDERAL #003	BONE SPRING	136,715	244	675
ROOKIE STATE #001	30-015-10060	32.4134165	-104.3325848	7	22S	26E	Eddy	NM	ROOKIE STATE #001	BONE SPRING	67,985	61	1,148

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



Water Well Sampling Rational					
Snowy Egret 142429 Federal SWD 1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
C 02521	PENWELL ENERGY	6363 Woodway Ste 560, Houston, TX 77057	PRO	No	Permit Has Expired



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

**Re: Geology Statement**  
**Anthem Water Solutions, LLC**  
**Snowy Egret 142429 Federal SWD No. 1**  
**Section 14, T. 24S, R. 29E**  
**Eddy 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**  
**Snowy Egret 142429 Federal SWD No. 1**  
**Section 14, Township 24 South, Range 29 East**  
**Eddy County, New Mexico**

**Cory Walk, M.S.**

A handwritten signature in cursive script that reads "Cory Walk".

**Geologist**

**Permits West Inc.**

**August 27, 2021**

## GENERAL INFORMATION

Snowy Egret 142429 Federal SWD No. 1 is located in the NE 1/4, section 14, T24S, R29E, about 7 miles east of Malaga, NM in the Permian Basin. Anthem Water Solutions proposes the injection zone to be within the Devonian-Silurian formation through an open hole from 15,409'-16,619' 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 one (1) earthquake 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 March 18, 2012 about 5.2 miles (~8.3 km) northeast of the proposed SWD site and had a magnitude of 3.1.

### *Basement Faults and Subsurface Conditions*

A structure contour map (Fig. 1) of the Precambrian basement shows the Snowy Egret 142429 Federal SWD #1 is approximately 12.4 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 Snowy Egret 142429 Federal SWD site, Snee and Zoback indicate a  $S_{Hmax}$  direction of N035°E and an  $A_\phi$  of 0.52, 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 nearby faults have a 0% probability of fault slip (Fig. 2).

## GROUNDWATER SOURCES

Quaternary Alluvium acts as the principal aquifer used for potable ground water near the Snowy Egret 142429 Federal SWD #1 location (Hendrickson and Jones, 1952). 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 Snowy Egret 142429 Federal SWD #1, the top of the Rustler Formation lies at a depth of approximately 70' bgs.

## **VERTICAL MIGRATION OF FLUIDS**

Thick permeability barriers exist above (Woodford shale; 130 ft thick) and below (Simpson Group; 382 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 17,605' in this area. Therefore, the injection zone lies approximately 985' above the Precambrian basement and approximately 15,340' 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.

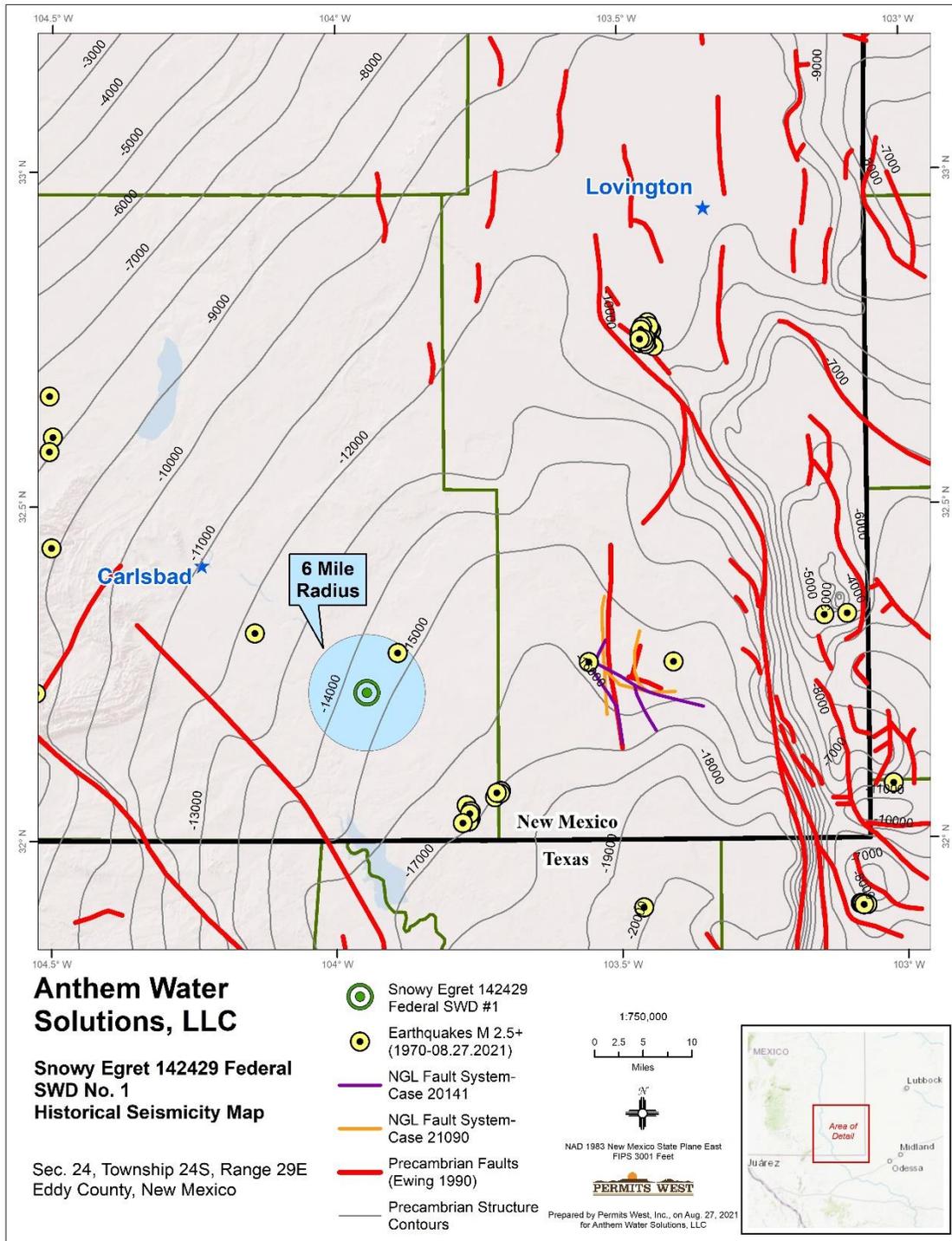


Figure 1. Structural contour map of the Precambrian basement in feet below sea level. Red lines represent the locations of Precambrian basement-penetrating faults (Ewing et al., 1990). Purple and orange lines represent the locations of basement-penetrating faults inferred by Todd Reynolds representing NGL in NMOCD Case Nos. 20141 and 21090. The Snowy Egret 142429 Federal SWD #1 well lies ~12.4 miles northeast of the closest deeply penetrating fault and ~5.2 miles southwest of the closest historic earthquake.

**Table 1: Nearby Fault Information**

Fault Number	Distance to proposed SWD (mi)	Strike (°)	Dip (°)	FSP
1	12.4	317	50-90	0.00

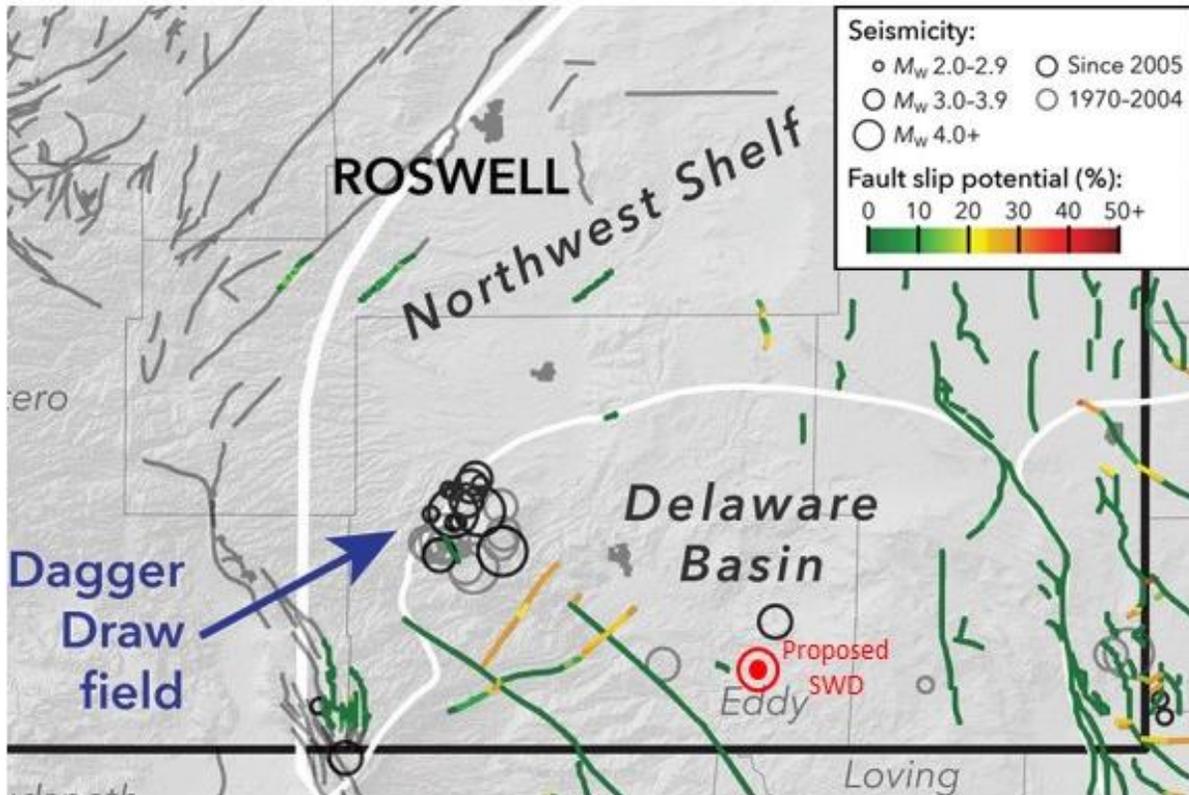


Figure 2. Modified Figure 3 from Snee and Zoback (2018). Map showing proposed location of Snowy Egret 142429 Federal SWD #1 in relation to Snee and Zoback's results of their FSP analysis.

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- 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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# Carlsbad Current Argus.

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Ad # 0004853701

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**ANTHEM WATER SOLUTIONS, LLC**  
5914 W. COURTYARD DR, STE 320

**AUSTIN, TX 78730**

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:

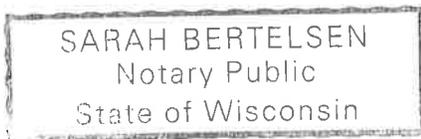
08/05/2021

  
\_\_\_\_\_  
Legal Clerk

Subscribed and sworn before me this August 31,  
2021:

  
\_\_\_\_\_  
State of WI, County of Brown  
NOTARY PUBLIC

7/27/25  
\_\_\_\_\_  
My commission expires



Ad # 0004853701  
PO #: 04853701  
# of Affidavits: 1

**This is not an invoice**

### 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: Snowy Egret 142429 Federal SWD 1 Located 7 miles East of Malaga. NE1/4 of the NE1/4 Section 14, Township 24S, Range 29E, 1,091' from North Line & 32' from East Line, Eddy County, New Mexico.

NAME AND DEPTH OF DISPOSAL ZONE: Devonian-Silurian (15409' - 16619')

EXPECTED MAXIMUM INJECTION RATE: 30,000 barrels/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 3081 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.  
#04853701, Current Argus, 8/5/2021

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

Snowy Egret 142429 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 2	811 S. First St	Artesia	NM	88210
<b>Leasehold Operators (1-mile)</b>				
DEVON ENERGY CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY	OK	73102
XTO DELAWARE BASIN LLC	6401 HOLIDAY HILL RD	MIDLAND	TX	79707
OXY USA INC	PO BOX 27570	HOUSTON	TX	77227
SHACKELFORD OIL CO	203 W WALL ST STE 200	MIDLAND	TX	79701
OWL SWD OPERATING, LLC	8201 PRESTON RD STE 520	DALLAS	TX	75225
<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,

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Marshall Tippen



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

NMOCD District 2  
811 S. First St  
Artesia, NM 88210

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

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XTO DELAWARE BASIN LLC  
6401 HOLIDAY HILL RD  
MIDLAND, TX 79707

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OXY USA INC  
PO BOX 27570  
HOUSTON, TX 77227

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Midland, Texas 79705

SHACKELFORD OIL CO  
203 W WALL ST STE 200  
MIDLAND, TX 79701

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OWL SWD OPERATING, LLC  
8201 PRESTON RD STE 520  
DALLAS, TX 75225

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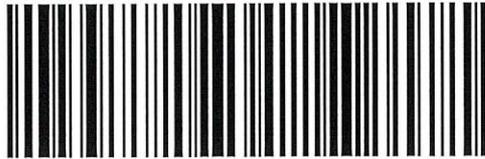
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Anthem Water Solutions  
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Austin TX 78730-4924

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Hobbs NM 88240-9273

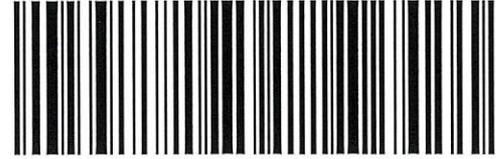
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New Mexico BLM  
620 E Greene St.  
Carlsbad NM 88220

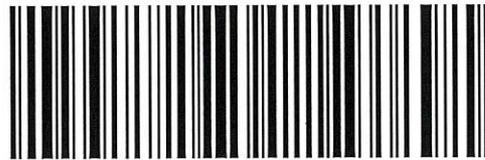
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DEVON ENERGY CO, LP  
333 West Sheridan Ave  
Oklahoma City OK 73102-5010

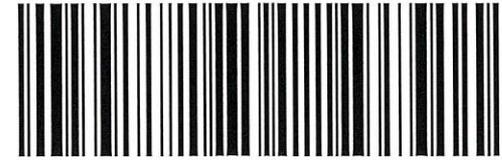
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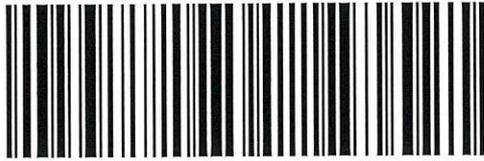
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OXY USA INC  
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HOUSTON TX 77227-7570

Jack Ball  
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Austin TX 78730-4924

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203 W WALL ST, STE 200  
MIDLAND TX 79701-4510

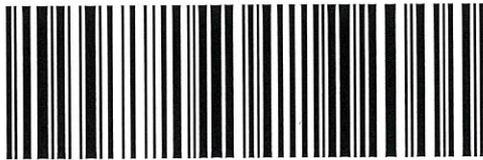
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XTO DELAWARE BASIN LLC  
6401 HOLIDAY HILL RD  
MIDLAND TX 79707

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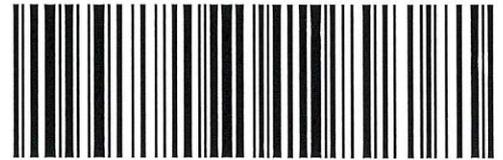
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NMOCD District 2  
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Artesia NM 88210-2834