

Initial Application Part I

Received 5/13/21

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

RECEIVED: 5/13/21	REVIEWER:	TYPE: SWD	APP NO: pBL2113446866
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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: Maxey Deep 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**SWD-2419**

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐

Notice Complete

☐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

5/10/2021

Date

(972) 795-4201

Phone Number

mtippen@anthemwsllc.com

e-mail Address



5/10/2021

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 Maxey Deep SWD 1 located in Unit D, Section 3, Township 22 South, Range 27 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 5/1/2021 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 private land and private 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", is written over the word "Sincerely,".

Marshall Tippen

Anthem Water Solutions

mtippen@anthemwsllc.com | (972) 795-4201

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X 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 X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Marshall Tippen TITLE: Director of Engineering
SIGNATURE:  DATE: 5/10/2021
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.

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: Maxey Deep SWD 1

Location Footage Calls: 250' from FNL, 760' from FWL

Legal Location: Unit D, Section 3, Township 22 South, Range 27 East, NMPM

Ground Elevation: 3123 feet

Proposed Injection Interval: 12417 - 13417 (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	-	-	-	-	9,541	12,417
Depth Set Bottom	120	563	1,992	9,741	12,417	13,417
TOC	Surf	Surf	Surf	Surface	TOL	0
TOC Method	Circ	Circ	Circ	Circ	CBL	0
Volume (Sacks)	250	283	355	2,871	477	N/A
DV Tool 1	N/A	N/A	N/A	2,092	N/A	N/A
DV Tool 2	N/A	N/A	N/A	7,341	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	-	9,441
Depth Set Bottom	9,441	12,367

**Wellbore Diagram Attached*

4) Packer Information:

Arrowset AS1-X or equivalent packer set at approximately 12367 feet

**Packer Schematic Attached*

B. Completion Information

1) **Injection Formation Name:** Devonian-Silurian

Pool Name: SWD; Devonian-Silurian

Pool Code: 97869

2) **Injection Interval:** 12417 - 13417 (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: 1942'
- Bone Spring: 6423'
- Wolfcamp: 8787'
- Strawn: 10162'
- Atoka: 10419'
- Morrow: 10961'

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 27 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:** 2483 psi (surface)
- 4) **Proposed Average Injection Pressure:** 1489 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 12417 feet to 13417 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 460 feet. The USDW is covered by two strings of casing: 16-inch casing set to 563 feet and 13 3/8 inch set to 1992 feet and both cemented to surface. Geophysical log assessment was conducted to accurately determine the top of the Rustler formation. Water well depths in the area range from approximately 20 feet – 253 feet below ground surface.

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

¹ API Number 30-015-XXXXX	² Pool Code 97869	³ Pool Name SWD; Devonian-Silurian
⁴ Property Code	⁵ Property Name Maxey Deep SWD	⁶ Well Number 1
⁷ OGRID No. 330069	⁸ Operator Name Anthem Water Solutions, LLC	⁹ Elevation 3123

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	3	22S	27E		250	North	760	West	Eddy

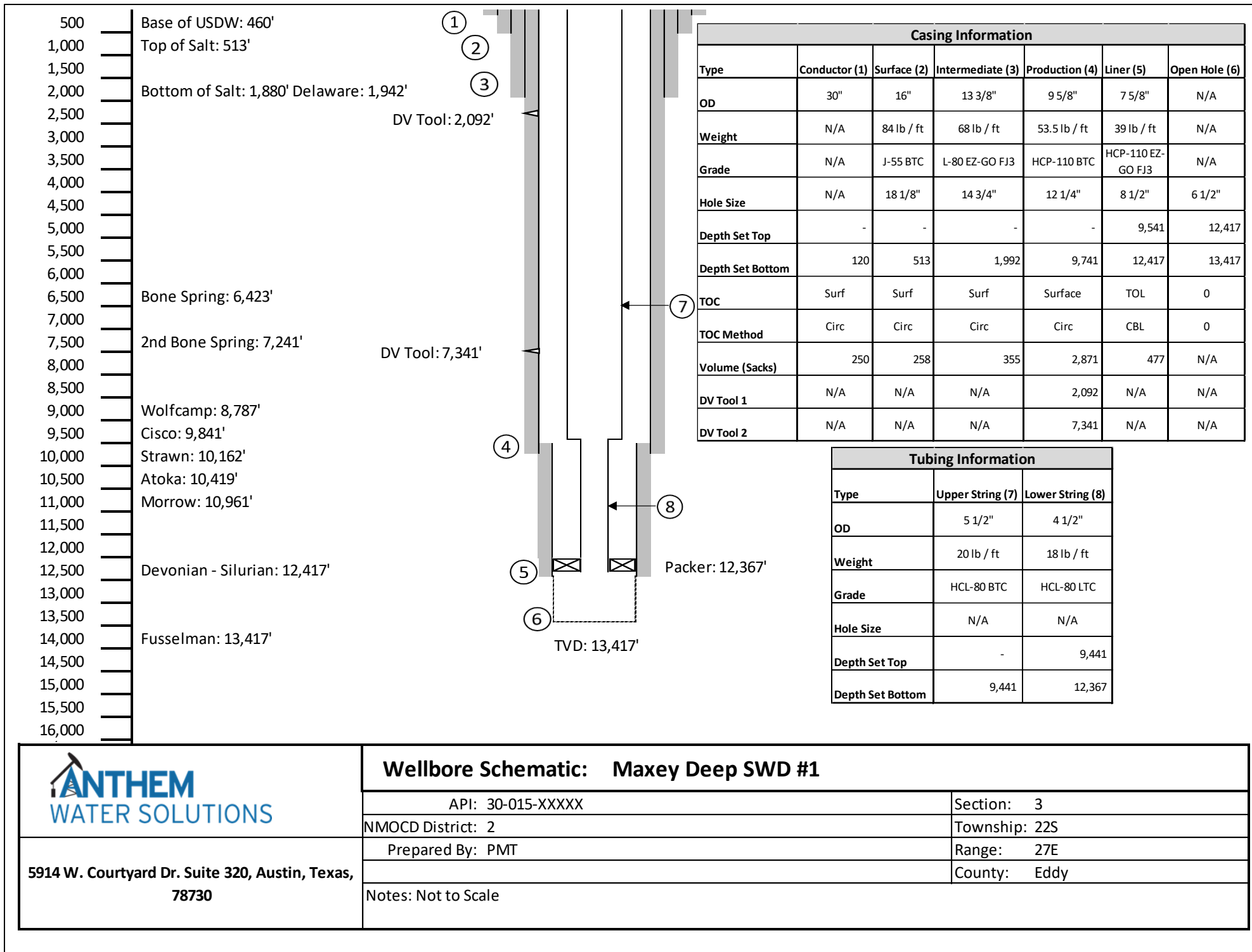
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				¹⁷ OPERATOR CERTIFICATION <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>	
LAT = 32.428453 N LONG = -104.183778 W				Signature _____ Date _____ Printed Name _____ E-mail Address _____	
GEODETIC DATA NAD 83 GRID – NM EAST <u>Maxey Deep SWD 1</u> LAT = 32.428453 N LONG = -104.183778 W				¹⁸ SURVEYOR CERTIFICATION <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>	
M N O P				Date of Survey _____ Signature and Seal of Professional Surveyor: _____ PRELIMINARY Certified survey to be conducted and submitted upon C-108 approval. Certificate Number _____	

Attachment 1: Proposed Wellbore Diagram



Attachment 1: Packer Schematic

AS1-X MECHANICAL PACKER



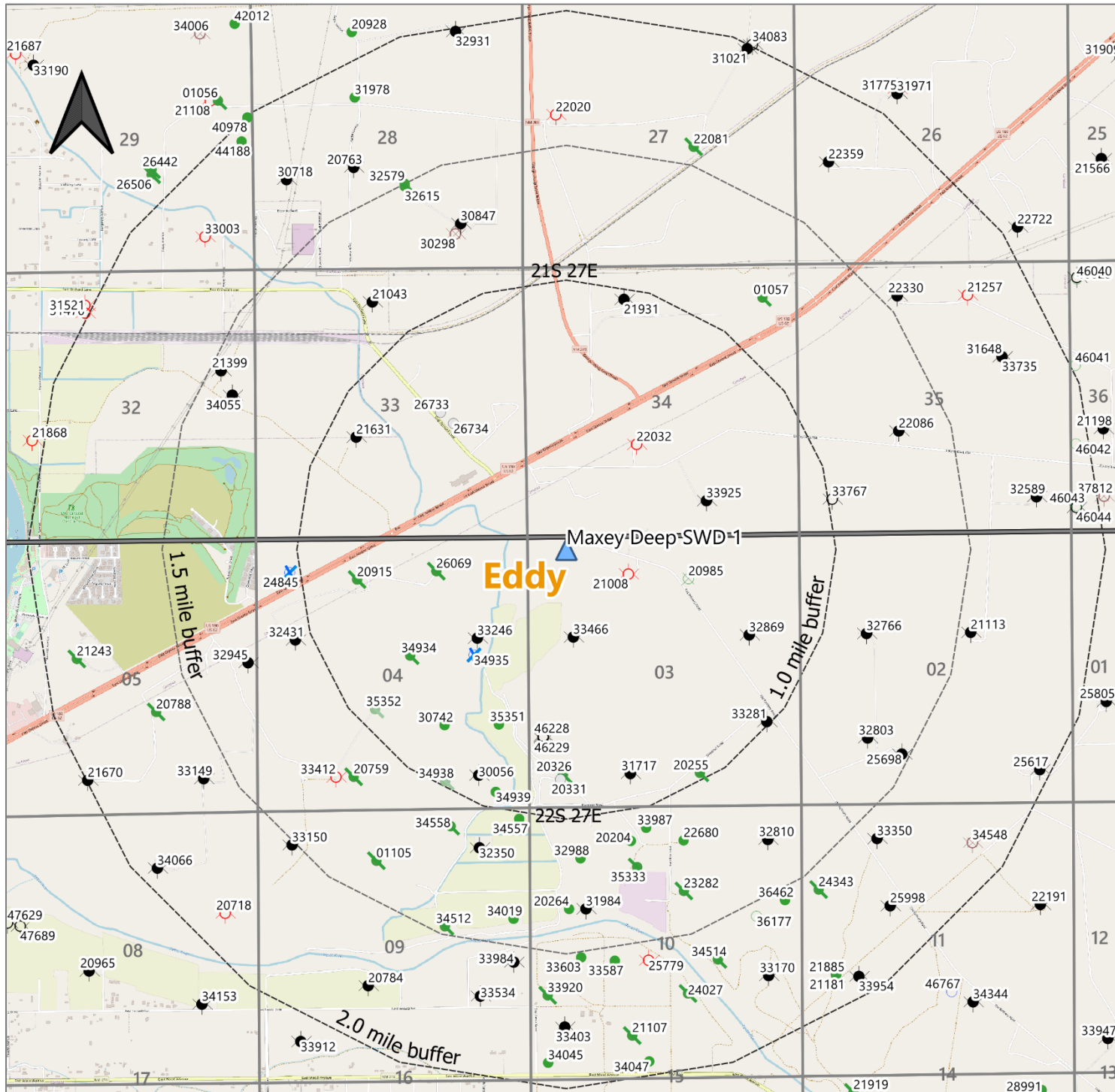
The ACT AS1-X Packer is the most versatile of the mechanically set retrievable packers and may be used in any production application. Treating, testing, injecting, pumping wells, flowing wells, deep or shallow, the AS1-X is suited for all. The packer can be left in tension or compression, depending on 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

Attachment 2: 2-Mile Oil & Gas Map



Legend

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

Sec 03 T22S R27E

Eddy County

New Mexico

**Offset Well Review
Area of Review**

Maxey Deep SWD 1

01/25/2021

ANTHEM
WATER SOLUTIONS

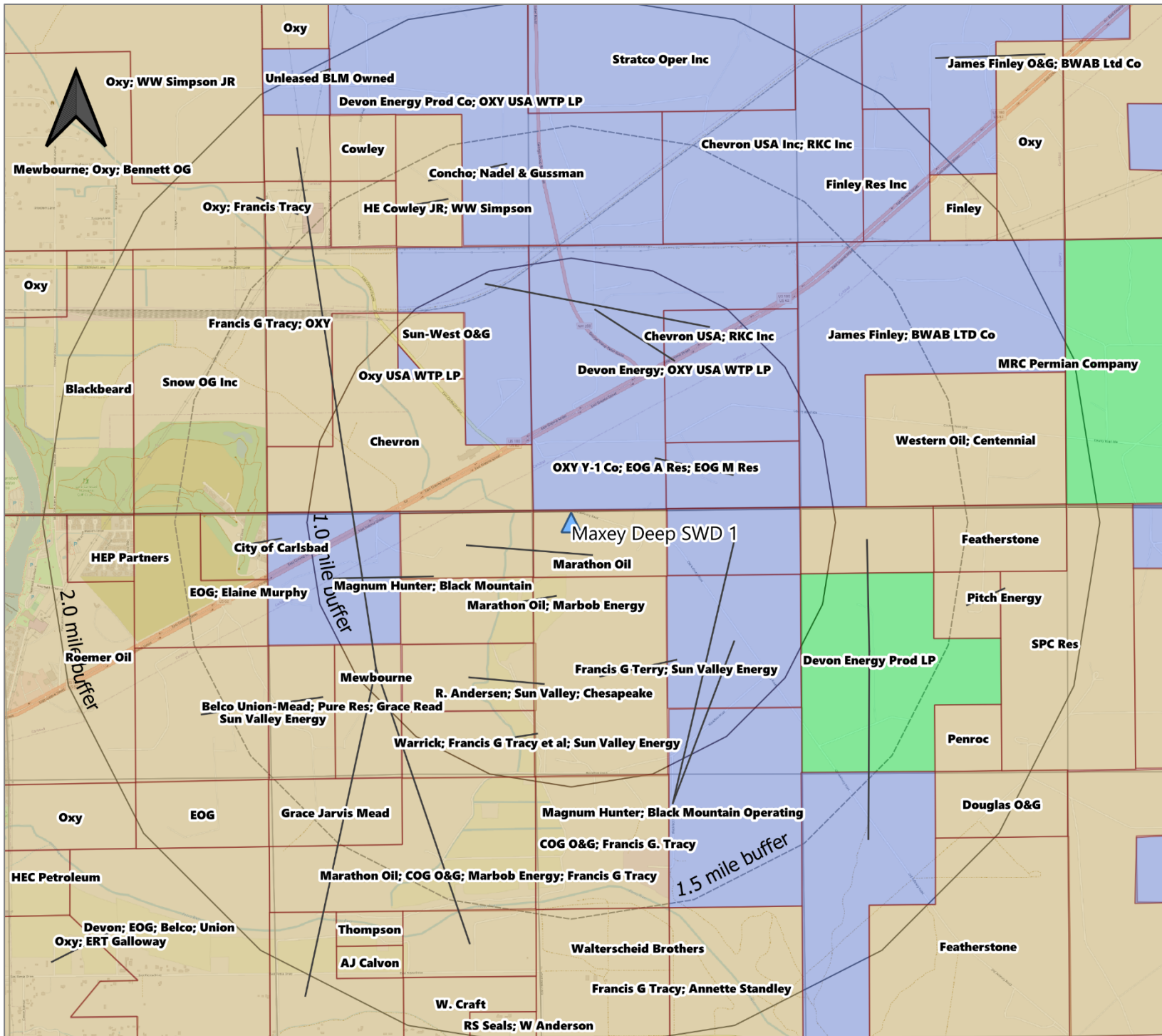
Attachment 2: 1-mile Well Detail List

AOR Tabulation for Maxey Deep SWD #1 (Top of Injection Interval: 12,417')								
Well Name	API #	Well Type	Well Status	Operator	Spud Date	Location (Sec, Tn, Rg)	Total Vertical Depth	Penetrate Inj Zone
ESPERANZA #001	30-015-30056	Gas	Active	MEWBOURNE OIL CO	3/23/1998	P-04-22S-27E	11,800	No
SKOR 34 FEDERAL COM #001	30-015-33925	Gas	Active	EOG RESOURCES INC	3/9/2005	O-34-21S-27E	11,966	No
PRE-ONGARD WELL #001	30-015-20255	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR (Union Oil Company of California)	9/23/1969	O-03-22S-27E	3,536	No
ESPERANZA 4 #006	30-015-34939	Oil	Active	MEWBOURNE OIL CO	8/21/2006	P-04-22S-27E	5,325	No
NUTRAGEOUS FEDERAL COM #001	30-015-32869	Gas	Active	COG OPERATING LLC	7/13/2003	H-03-22S-27E	12,030	No
NUTRAGEOUS FEDERAL COM #002	30-015-33281	Gas	Active	COG OPERATING LLC	4/16/2004	I-03-22S-27E	12,020	No
WERSELL FEDERAL #001	30-015-20915	Oil	Plugged (site released)	CIMAREX ENERGY CO. OF COLORADO	8/31/1973	C-04-22S-27E	11,660	No
TRACY D #001	30-015-21631	Gas	Active	OXY USA WTP LIMITED PARTNERSHIP	1/18/1991	K-33-21S-27E	11,575	No
COMPADRES FEE #001	30-015-34934	Oil	Plugged (not released)	COG OPERATING LLC	8/4/2006	G-04-22S-27E	5,370	No
TRACY LEASE #001	30-015-26733	Miscellaneous (Brine)	Plugged (site released)	PERMIAN CORP	7/9/1991	B-33-21S-27E	600	No
SWD 4-22-27 #001	30-015-34935	Salt Water Disposal	Plugged (site released)	COG OPERATING LLC	7/25/2006	H-04-22S-27E	5,370	No
TWIX FEE COM #001	30-015-33246	Gas	Active	COG OPERATING LLC	3/15/2004	H-04-22S-27E	11,800	No
WERSELL A #002	30-015-26069	Oil	Plugged (site released)	UNION OIL CO OF CALIFORNIA	9/23/1989	B-04-22S-27E	4,650	No
TRACY LEASE #002	30-015-26734	Miscellaneous (Brine)	Plugged (site released)	PERMIAN CORP	12/31/9999	B-33-21S-27E	593	No
PRE-ONGARD WELL #003	30-015-20326	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	No OCD Data	M-03-22S-27E	No OCD Data	No
TRACY #003	30-015-20331	Miscellaneous (Brine)	Plugged (site released)	RAY WESTALL	9/14/1970	M-03-22S-27E	3,470	No
ESPERANZA 3E FEE #002	30-015-33466	Gas	Active	DEVON ENERGY PRODUCTION COMPANY, LP	11/28/2004	E-03-22S-27E	11,855	No
ELIZANDO A FEDERAL #004	30-015-21931	Gas	Active	OXY USA WTP LIMITED PARTNERSHIP	11/20/1976	C-34-21S-27E	11,775	No
ESPERANZA 4 #008	30-015-35352	Oil	Temporary Abandonment	MEWBOURNE OIL CO	1/28/2007	K-04-22S-27E	5,270	No
ESPERANZA 3 N FEE #001	30-015-31717	Gas	Active	DEVON ENERGY PRODUCTION COMPANY, LP	8/17/2001	N-03-22S-27E	11,900	No
ELIZONDO A FEDERAL #005	30-015-22032	Gas	Plugged (site released)	OXY USA WTP LIMITED PARTNERSHIP	12/31/9999	K-34-21S-27E	11,830	No
ESPERANZA 4 #005	30-015-34938	Oil	Temporary Abandonment	MEWBOURNE OIL CO	9/11/2006	O-04-22S-27E	5,325	No
WERSELL A #001	30-015-21008	Gas	Plugged (site released)	UNION OIL CO OF CALIFORNIA	11/10/1993	C-03-22S-27E	11,815	No
ESPERANZA #002	30-015-30742	Oil	Active	MEWBOURNE OIL CO	9/19/1999	J-04-22S-27E	5,311	No
ESPERANZA 4 #007	30-015-35351	Oil	Active	MEWBOURNE OIL CO	2/9/2007	I-04-22S-27E	5,337	No
SQUINTS 4 5 W0PO FEE #001H	30-015-46229	Gas	New	MEWBOURNE OIL CO	N/A	L-03-22S-27E	8,869 (proposed)	No
SQUINTS 4 5 W0IJ FEE #001H	30-015-46228	Gas	New	MEWBOURNE OIL CO	N/A	L-03-22S-27E	No Data	No

Notes:

No Wells within a 1-mile radius penetrated the injection interval.

Attachment 2: 2-Mile Oil & Gas Lease Map



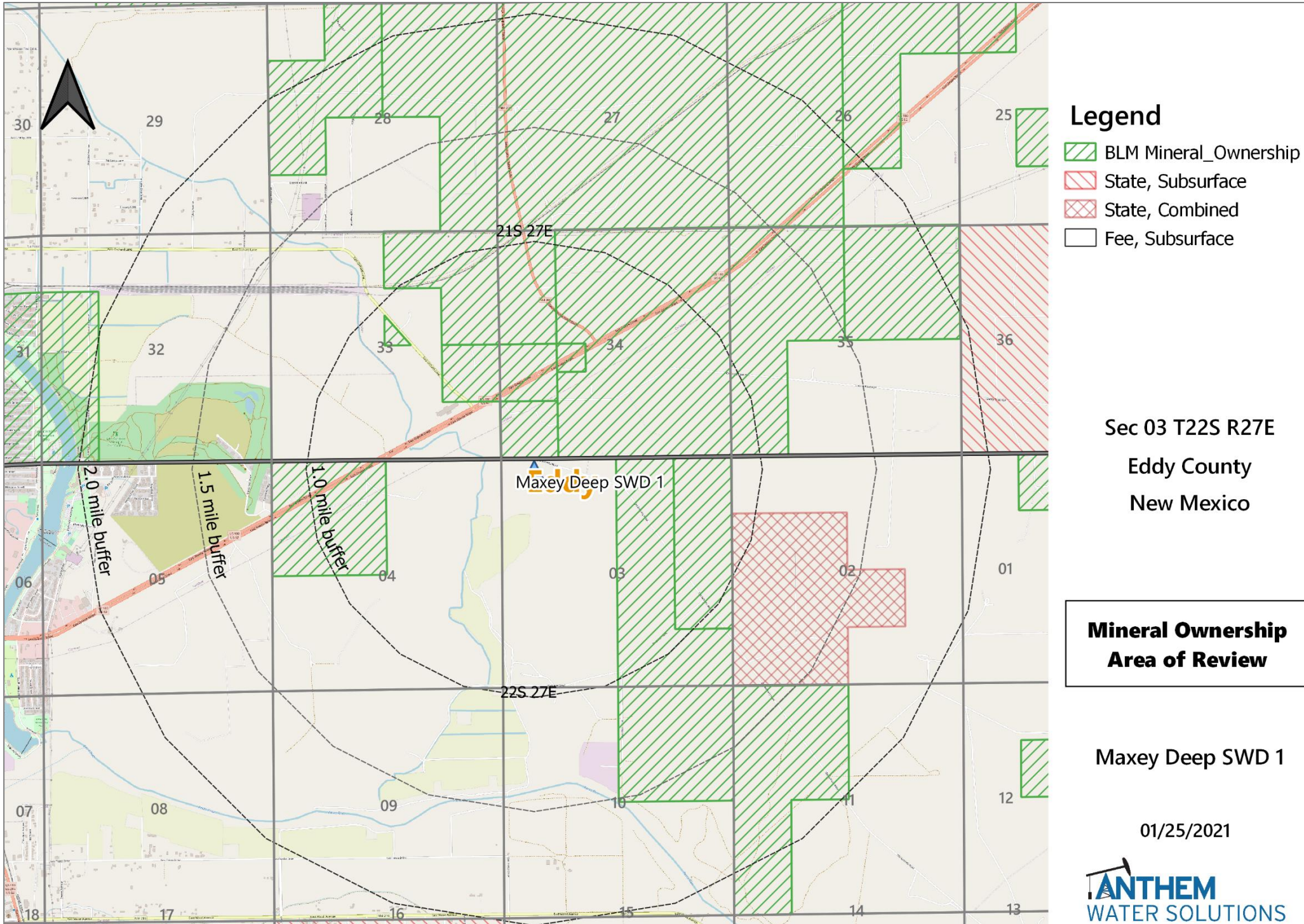
Sec 03 T22S 27E
Eddy County
New Mexico

**Mineral Leasehold
Area of Review**

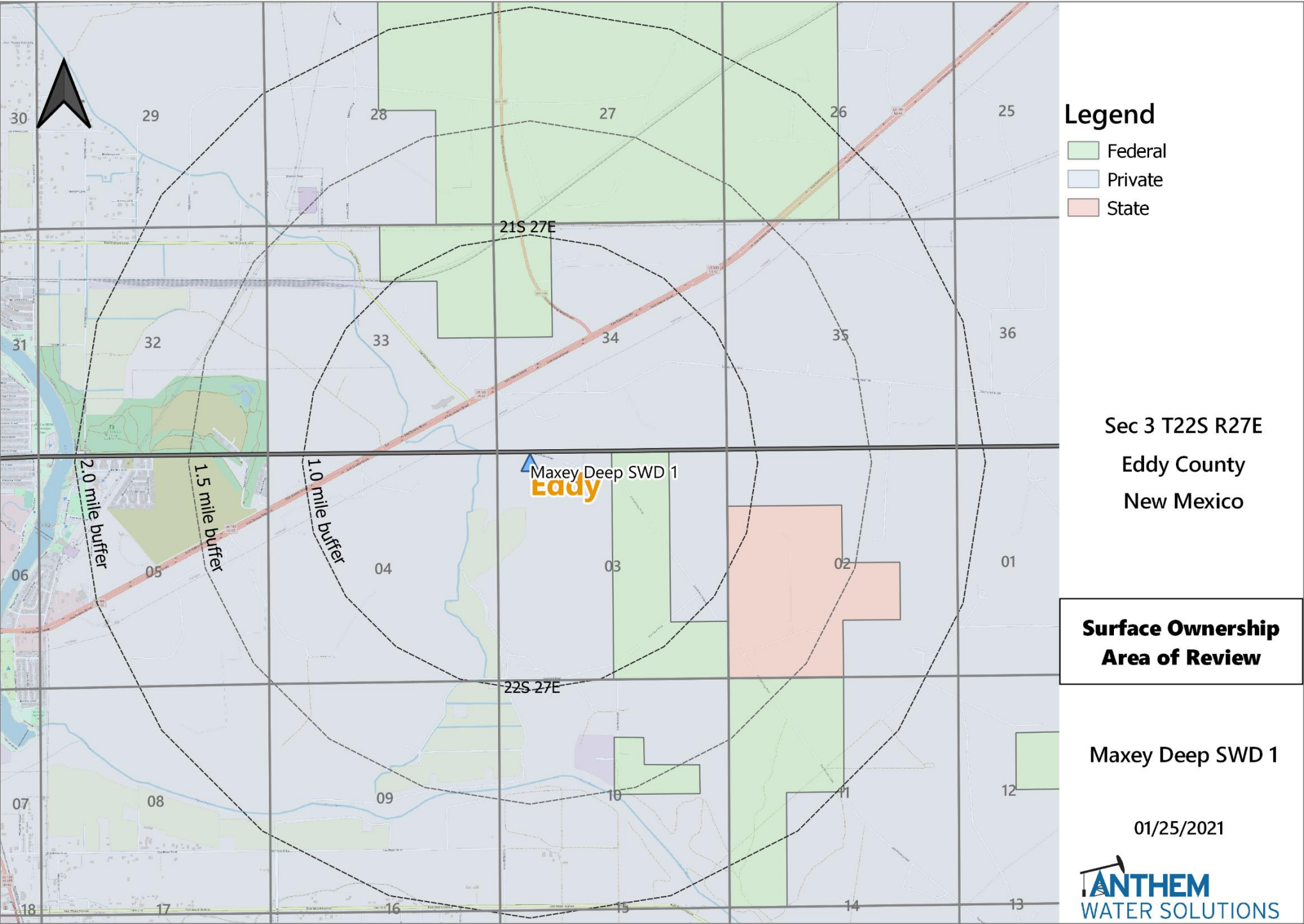
Maxey Deep SWD 1

01/25/2021

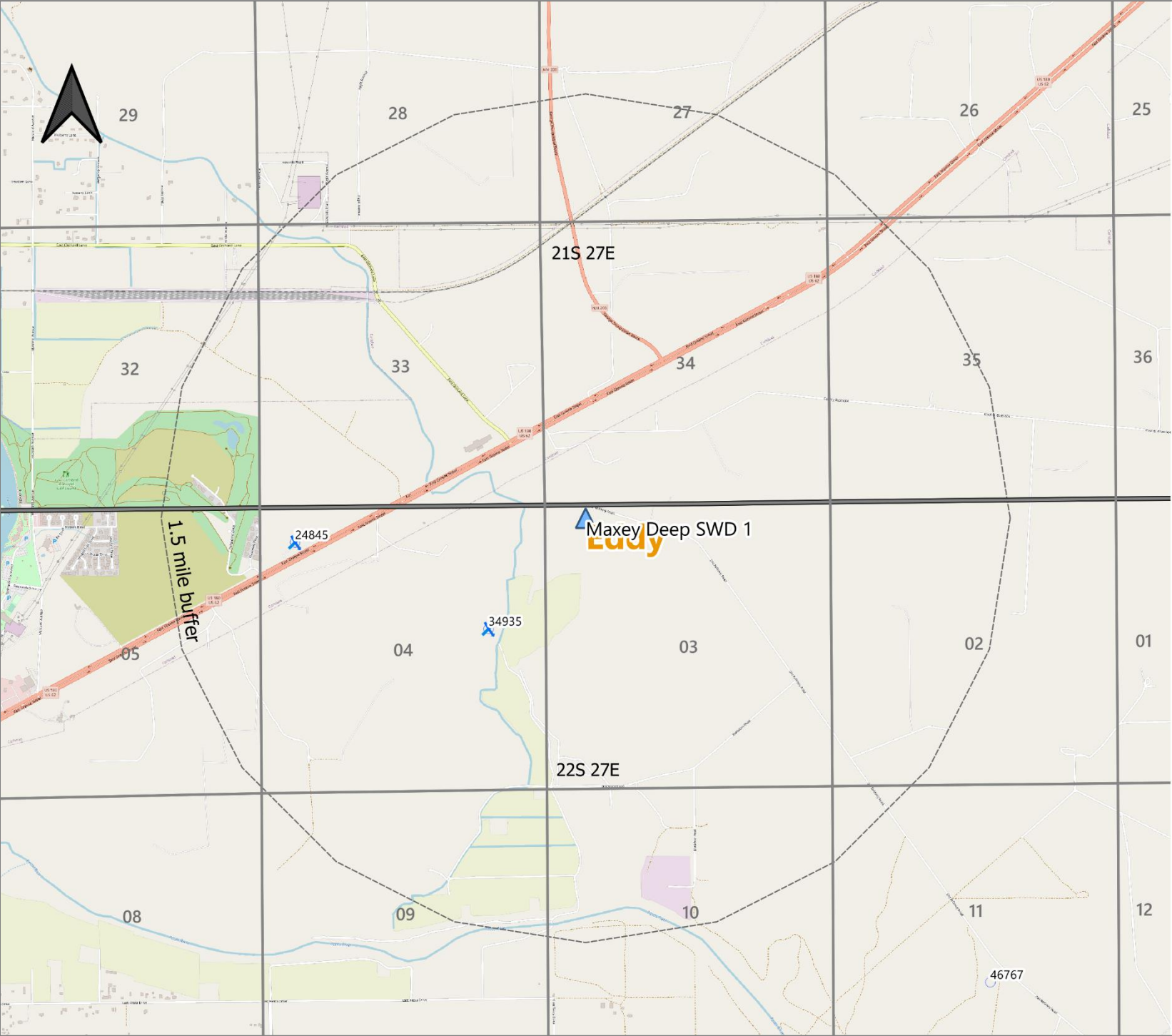
Attachment 2: Mineral Ownership Map



Attachment 2: Surface Ownership Map



Attachment 2: 1.5 Mile Deep SWD Map



- Legend**
- SWD, New
 - ✕ SWD, Plugged (rel.)

Sec 03 T22S R27E
Eddy County
New Mexico

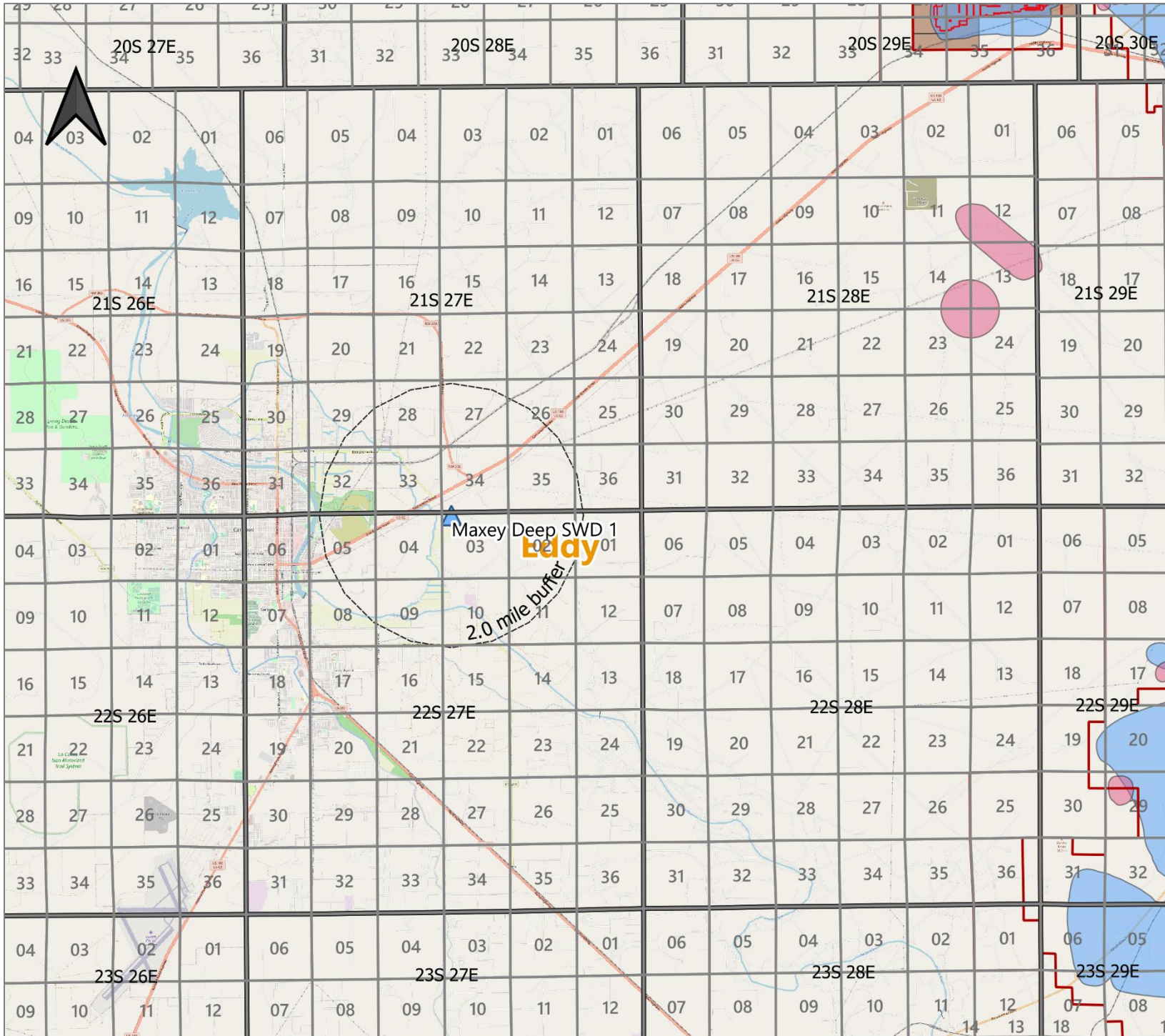
**Deep SWD Review
Area of Review**

Maxey Deep 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 03 T22S R27E
Eddy County
New Mexico

**Potash Map
Area of Review**

Maxey Deep 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



- Active
- Pending
- Unknown

Sec 03 T22S R27E
Eddy County
New Mexico

**Water Wells
Area of Review**

Maxey Deep SWD 1

01/25/2021

ANTHEM
WATER SOLUTIONS

Water Well Sampling Rational					
Maxey Deep SWD 1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
C 00479	FRANCIS G. TRACY	P.O. Box 712 Carlsbad, NM 88220	DOM	Yes	
C 00589	FRANCIS G. TRACY	P.O. Box 712 Carlsbad, NM 88220	IRR	Yes	
C 02921	MARBOB ENERGY	P.O. Box 227 Artesia, NM 88211	PRO	Yes	
C 00105	FRANCIS G. TRACY	P.O. Box 712 Carlsbad, NM 88220	IRR	Yes	Water samples were collected 10/08/2020. Anaysis included.
C 04346 POD1	STAN WATSON	1700 E. Greene Carlsbad, NM 88220	DOM	Yes	Water samples were collected 10/08/2020. Anaysis included.

October 06, 2020

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

RE: ANTHEM - WATER SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 09/18/20 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: ANTHEM - WATER SAMPLING
Project Number: 32.4376416812,-104.185202145
Project Manager: DANIEL ARTHUR
Fax To: NAReported:
06-Oct-20 15:24

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C 04346	H002475-01	Water	17-Sep-20 00:00	18-Sep-20 08:20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: ANTHEM - WATER SAMPLING
Project Number: 32.4376416812,-104.185202145
Project Manager: DANIEL ARTHUR
Fax To: NA

Reported:
06-Oct-20 15:24

C 04346

H002475-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	220		5.00	mg/L	1	0082102	GM	18-Sep-20	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	0082102	GM	18-Sep-20	310.1	
Chloride*	6100		4.00	mg/L	1	0091809	GM	18-Sep-20	4500-Cl-B	QM-07
Conductivity*	16500		1.00	umhos/cm @ 25°C	1	0091805	GM	18-Sep-20	120.1	
pH*	6.88		0.100	pH Units	1	0091805	GM	18-Sep-20	150.1	
Temperature °C	22.4			pH Units	1	0091805	GM	18-Sep-20	150.1	
Resistivity	0.606			Ohms/m	1	0091805	GM	18-Sep-20	120.1	
Sulfate*	1160		2.50	mg/L	25	0092103	AC	21-Sep-20	375.4	
TDS*	11100		5.00	mg/L	1	0091706	GM	21-Sep-20	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	0082102	GM	18-Sep-20	310.1	
TSS*	33.0		2.00	mg/L	1	0091804	GM	21-Sep-20	160.2	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	
Calcium*	1330		0.500	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	
Hardness as CaCO3	5460		9.48	mg/L	20	[CALC]	JDA	29-Sep-20	2340 B	
Iron*	<0.250		0.250	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	
Magnesium*	520		2.00	mg/L	20	B202034	JDA	29-Sep-20	EPA200.7	
Potassium*	11.1		5.00	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	
Sodium*	1590		5.00	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	
Strontium*	24.5		0.500	mg/L	5	B202034	JDA	29-Sep-20	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: ANTHEM - WATER SAMPLING
Project Number: 32.4376416812,-104.185202145
Project Manager: DANIEL ARTHUR
Fax To: NA

Reported:
06-Oct-20 15:24

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0082102 - General Prep - Wet Chem										
Blank (0082102-BLK1)				Prepared & Analyzed: 21-Aug-20						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (0082102-BS1)				Prepared & Analyzed: 21-Aug-20						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			
LCS Dup (0082102-BSD1)				Prepared & Analyzed: 21-Aug-20						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	342	12.5	mg/L				80-120	11.6	20	
Alkalinity, Total	280	10.0	mg/L	250		112	80-120	11.3	20	
Batch 0091706 - Filtration										
Blank (0091706-BLK1)				Prepared: 17-Sep-20 Analyzed: 22-Sep-20						
TDS	ND	5.00	mg/L							
LCS (0091706-BS1)				Prepared: 17-Sep-20 Analyzed: 21-Sep-20						
TDS	827		mg/L	1000		82.7	80-120			
Duplicate (0091706-DUP1)				Source: H002447-02 Prepared: 17-Sep-20 Analyzed: 22-Sep-20						
TDS	278	5.00	mg/L		353			23.8	20	QR-03
Batch 0091804 - Filtration										
Blank (0091804-BLK1)				Prepared: 18-Sep-20 Analyzed: 21-Sep-20						
TSS	ND	2.00	mg/L							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: ANTHEM - WATER SAMPLING
 Project Number: 32.4376416812,-104.185202145
 Project Manager: DANIEL ARTHUR
 Fax To: NA

 Reported:
 06-Oct-20 15:24

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0091804 - Filtration
Duplicate (0091804-DUP1)

Source: H002457-01

Prepared: 18-Sep-20 Analyzed: 21-Sep-20

TSS	253	2.00	mg/L		243			4.03	52.7	
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Batch 0091805 - General Prep - Wet Chem
LCS (0091805-BS1)

Prepared & Analyzed: 18-Sep-20

Conductivity	51600		uS/cm	50000		103	80-120			
pH	7.11		pH Units	7.00		102	90-110			

Duplicate (0091805-DUP1)

Source: H002474-01

Prepared & Analyzed: 18-Sep-20

Conductivity	11300	1.00	umhos/cm @ 25°C		11000			2.42	20	
pH	6.96	0.100	pH Units		6.87			1.30	20	
Resistivity	0.878		Ohms/m		0.907			3.15	20	
Temperature °C	22.5		pH Units		22.6			0.443	200	

Batch 0091809 - General Prep - Wet Chem
Blank (0091809-BLK1)

Prepared & Analyzed: 18-Sep-20

Chloride	ND	4.00	mg/L							
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LCS (0091809-BS1)

Prepared & Analyzed: 18-Sep-20

Chloride	100	4.00	mg/L		100		100	80-120		
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LCS Dup (0091809-BSD1)

Prepared & Analyzed: 18-Sep-20

Chloride	100	4.00	mg/L		100		100	80-120	0.00	20
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: ANTHEM - WATER SAMPLING
Project Number: 32.4376416812,-104.185202145
Project Manager: DANIEL ARTHUR
Fax To: NA

Reported:
06-Oct-20 15:24

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 0092103 - General Prep - Wet Chem								
Blank (0092103-BLK1)				Prepared & Analyzed: 21-Sep-20				
Sulfate	ND	10.0	mg/L					
LCS (0092103-BS1)				Prepared & Analyzed: 21-Sep-20				
Sulfate	20.5	10.0	mg/L	20.0		102 80-120		
LCS Dup (0092103-BSD1)				Prepared & Analyzed: 21-Sep-20				
Sulfate	22.2	10.0	mg/L	20.0		111 80-120	8.02 20	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: ANTHEM - WATER SAMPLING
Project Number: 32.4376416812,-104.185202145
Project Manager: DANIEL ARTHUR
Fax To: NA

Reported:
06-Oct-20 15:24

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202034 - Total Rec. 200.7/200.8/200.2

Blank (B202034-BLK1)

Prepared: 28-Sep-20 Analyzed: 29-Sep-20

Magnesium	ND	0.100	mg/L
Strontium	ND	0.100	mg/L
Calcium	ND	0.100	mg/L
Sodium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Potassium	ND	1.00	mg/L
Barium	ND	0.050	mg/L

LCS (B202034-BS1)

Prepared: 28-Sep-20 Analyzed: 29-Sep-20

Strontium	3.76	0.100	mg/L	4.00	94.1	85-115
Sodium	3.10	1.00	mg/L	3.24	95.8	85-115
Potassium	7.60	1.00	mg/L	8.00	95.0	85-115
Magnesium	18.6	0.100	mg/L	20.0	93.1	85-115
Iron	3.57	0.050	mg/L	4.00	89.2	85-115
Calcium	3.64	0.100	mg/L	4.00	91.0	85-115
Barium	1.85	0.050	mg/L	2.00	92.3	85-115

LCS Dup (B202034-BSD1)

Prepared: 28-Sep-20 Analyzed: 29-Sep-20

Strontium	3.75	0.100	mg/L	4.00	93.7	85-115	0.408	20
Iron	3.57	0.050	mg/L	4.00	89.3	85-115	0.137	20
Potassium	7.62	1.00	mg/L	8.00	95.2	85-115	0.257	20
Calcium	3.63	0.100	mg/L	4.00	90.7	85-115	0.366	20
Sodium	3.07	1.00	mg/L	3.24	94.6	85-115	1.19	20
Barium	1.91	0.050	mg/L	2.00	95.4	85-115	3.29	20
Magnesium	18.6	0.100	mg/L	20.0	92.8	85-115	0.275	20

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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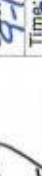



Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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Relinquished By: 		Date: 4-18-20 Time: 0820		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By: _____		Date: _____ Time: _____		Received By: _____		REMARKS: Samples in wrong containers.	
Delivered By: (Circle One)		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor None	
Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

FORM 5000 R-3 10/01/02



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 22, 2020

NATE ALLEMAN
ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA, OK 74119

RE: FRANCIS TRACY

Enclosed are the results of analyses for samples received by the laboratory on 10/08/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NAReported:
22-Oct-20 13:27

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WELL 32.415421-104.187351 Water Well: C-00105 Owner: Francis Tracy	H002688-01	Water	08-Oct-20 11:20	08-Oct-20 15:30

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NA

Reported:
22-Oct-20 13:27

WELL 32.415421-104.187351

H002688-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	200		5.00	mg/L	1	0100210	GM	09-Oct-20	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	0100210	GM	09-Oct-20	310.1	
Chloride*	1680		4.00	mg/L	1	0100504	GM	09-Oct-20	4500-Cl-B	
Conductivity*	7940		1.00	umhos/cm @ 25°C	1	0100901	GM	09-Oct-20	120.1	
pH*	7.03		0.100	pH Units	1	0100901	GM	09-Oct-20	150.1	
Temperature °C	22.2			pH Units	1	0100901	GM	09-Oct-20	150.1	
Resistivity	1.26			Ohms/m	1	0100901	GM	09-Oct-20	120.1	
Sulfate*	1890		500	mg/L	50	0101402	GM	14-Oct-20	375.4	
TDS*	5740		5.00	mg/L	1	0100903	GM	13-Oct-20	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	0100210	GM	09-Oct-20	310.1	
TSS*	5.00		2.00	mg/L	1	0100902	AC	13-Oct-20	160.2	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Barium*	<0.500		0.500	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	
Calcium*	642		1.00	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	
Hardness as CaCO3	2530		6.62	mg/L	10	[CALC]	AES	20-Oct-20	2340 B	
Iron*	<0.500		0.500	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	
Magnesium*	225		1.00	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	
Potassium*	7.73	1.52	10.0	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	J
Sodium*	918		10.0	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	
Strontium*	9.93		1.00	mg/L	10	B202185	AES	20-Oct-20	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NA

Reported:
22-Oct-20 13:27

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0100210 - General Prep - Wet Chem										
Blank (0100210-BLK1)				Prepared & Analyzed: 02-Oct-20						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (0100210-BS1)				Prepared & Analyzed: 02-Oct-20						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120			
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120			
LCS Dup (0100210-BSD1)				Prepared & Analyzed: 02-Oct-20						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	8.20	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	8.00	20	
Batch 0100504 - General Prep - Wet Chem										
Blank (0100504-BLK1)				Prepared & Analyzed: 05-Oct-20						
Chloride	ND	4.00	mg/L							
LCS (0100504-BS1)				Prepared & Analyzed: 05-Oct-20						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (0100504-BSD1)				Prepared & Analyzed: 05-Oct-20						
Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 0100901 - General Prep - Wet Chem										
LCS (0100901-BS1)				Prepared & Analyzed: 09-Oct-20						
Conductivity	502		uS/cm	500		100	80-120			
pH	7.07		pH Units	7.00		101	90-110			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NA

Reported:
22-Oct-20 13:27

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100901 - General Prep - Wet Chem

Duplicate (0100901-DUP1)		Source: H002688-01		Prepared & Analyzed: 09-Oct-20						
pH	7.06	0.100	pH Units		7.03			0.426	20	
Conductivity	7900	1.00	umhos/cm @ 25°C		7940			0.505	20	
Resistivity	1.27		Ohms/m		1.26			0.505	20	
Temperature °C	21.3		pH Units		22.2			4.14	200	

Batch 0100902 - Filtration

Blank (0100902-BLK1)		Prepared: 09-Oct-20 Analyzed: 13-Oct-20								
TSS	ND	2.00	mg/L							
Duplicate (0100902-DUP1)		Source: H002688-01		Prepared: 09-Oct-20 Analyzed: 13-Oct-20						
TSS	6.00	2.00	mg/L		5.00			18.2	52.7	

Batch 0100903 - Filtration

Blank (0100903-BLK1)		Prepared: 09-Oct-20 Analyzed: 13-Oct-20								
TDS	ND	5.00	mg/L							
LCS (0100903-BS1)		Prepared: 09-Oct-20 Analyzed: 13-Oct-20								
TDS	497		mg/L		500		99.4	80-120		
Duplicate (0100903-DUP1)		Source: H002664-01		Prepared: 09-Oct-20 Analyzed: 13-Oct-20						
TDS	5410	5.00	mg/L		5470			1.12	20	

Batch 0101402 - General Prep - Wet Chem

Blank (0101402-BLK1)		Prepared & Analyzed: 14-Oct-20								
Sulfate	ND	10.0	mg/L							

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Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NAReported:
22-Oct-20 13:27**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0101402 - General Prep - Wet Chem**LCS (0101402-BS1)**

Prepared & Analyzed: 14-Oct-20

Sulfate	18.4	10.0	mg/L	20.0	92.0	80-120
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LCS Dup (0101402-BSD1)

Prepared & Analyzed: 14-Oct-20

Sulfate	18.9	10.0	mg/L	20.0	94.3	80-120	2.41	20
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: FRANCIS TRACY
Project Number: 32.415421-104.187351
Project Manager: NATE ALLEMAN
Fax To: NA

Reported:
22-Oct-20 13:27

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202185 - Total Rec. 200.7/200.8/200.2

Blank (B202185-BLK1)

Prepared: 15-Oct-20 Analyzed: 19-Oct-20

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

LCS (B202185-BS1)

Prepared: 15-Oct-20 Analyzed: 19-Oct-20

Strontium	3.88	0.100	mg/L	4.00		96.9	85-115			
Sodium	3.25	1.00	mg/L	3.24		100	85-115			
Potassium	7.91	1.00	mg/L	8.00		98.9	85-115			
Magnesium	19.9	0.100	mg/L	20.0		99.7	85-115			
Iron	3.83	0.050	mg/L	4.00		95.8	85-115			
Calcium	3.98	0.100	mg/L	4.00		99.4	85-115			
Barium	1.94	0.050	mg/L	2.00		96.9	85-115			

LCS Dup (B202185-BS1)

Prepared: 15-Oct-20 Analyzed: 19-Oct-20

Magnesium	19.8	0.100	mg/L	20.0		99.1	85-115	0.654	20	
Strontium	3.88	0.100	mg/L	4.00		97.0	85-115	0.0974	20	
Potassium	7.90	1.00	mg/L	8.00		98.8	85-115	0.0694	20	
Calcium	3.95	0.100	mg/L	4.00		98.8	85-115	0.603	20	
Sodium	3.27	1.00	mg/L	3.24		101	85-115	0.612	20	
Barium	1.93	0.050	mg/L	2.00		96.6	85-115	0.378	20	
Iron	3.82	0.050	mg/L	4.00		95.5	85-115	0.280	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



all Consulting
Nathan Almont

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celley.keene@cardinallabsnm.com

2 hours 138 miles

April 27, 2021

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

Subject: Induced Seismicity Potential Statement for the Maxey Deep SWD #1

Dear Mr. Goetze,

This letter provides information regarding the potential for seismicity associated with injection operations at the Anthem Water Solutions (Anthem), proposed Maxey Deep SWD #1, hereinafter referred to as the “Subject Well.”

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

The Subject Well, is located 250’ FNL & 760’ FWL of Section 3, in T22-S and R27-E of Eddy County, New Mexico. Historically, the Eddy and Lea County area has experienced very limited recorded seismic activity (per the U.S. Geological Survey [USGS] earthquake catalog database). There have been thirteen known seismic events located within a 25-mile radius of the proposed Subject Well. The closest recorded seismic event was a M3.9 that occurred on November 28th, 1974 and was located approximately 8.4 miles south of the Subject Well (See Exhibit 1). The closest Class IID well injecting into the same formations (Devonian-Silurian) of the Subject Well is approximately 2.2 miles to the southeast (See Exhibit 1).

Anthem does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Fault data from USGS indicates that the closest known fault is approximately 8.0 miles south of the Subject Well (See Exhibit 1).

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

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

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

In the Eddy and Lea Counties area of New Mexico, the Simpson Group is comprised of a series of Middle to Upper Ordovician carbonates, several sandstones, and sandy shales that range from approximately 350 to 650 feet thick (Jones 2008). This group of rocks is capped by the limestones of the Bromide Formation, which is approximately 200 feet thick in this area (Jones 2008). The closest deep well drilled into the Precambrian basement was completed by the Skelly Oil Company in 1975. This well is located in Section 17, Range 36E, Township 25S of Lea County (API No.30-025-25046) and encountered 602 feet of Ellenburger Formation before reaching the top of the Precambrian basement at a depth of 18,920 feet. Based on the estimated thickness of the Simpson Group and Ellenburger Formation in this area, the Precambrian basement should be approximately 950 to 1,250 feet below the bottom of the proposed injection zone in the Subject Well.

Conclusion

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

Sincerely,
ALL Consulting

A handwritten signature in black ink, appearing to read "J. Daniel Arthur", with a stylized flourish at the end.

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

Enclosures
References
Exhibits

References

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

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

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

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

U.S. Geological Survey (USGS). No date. Earthquakes Hazard Program: Earthquake Catalog. <https://earthquake.usgs.gov/earthquakes/search/> (accessed April 26, 2021).

Exhibits

Induced Seismicity Potential Statement for the Maxey Deep SWD #1
April 27, 2021

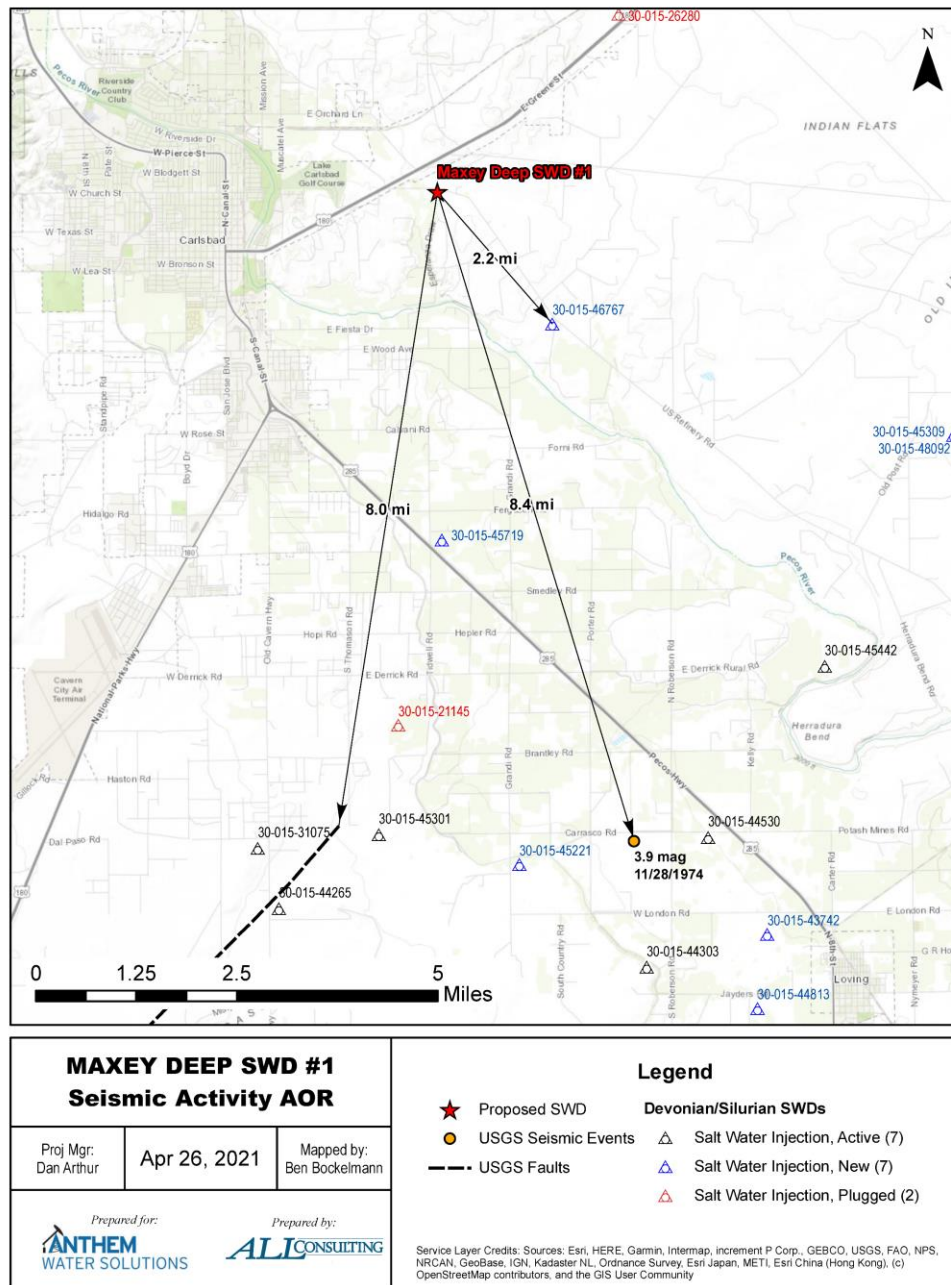


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

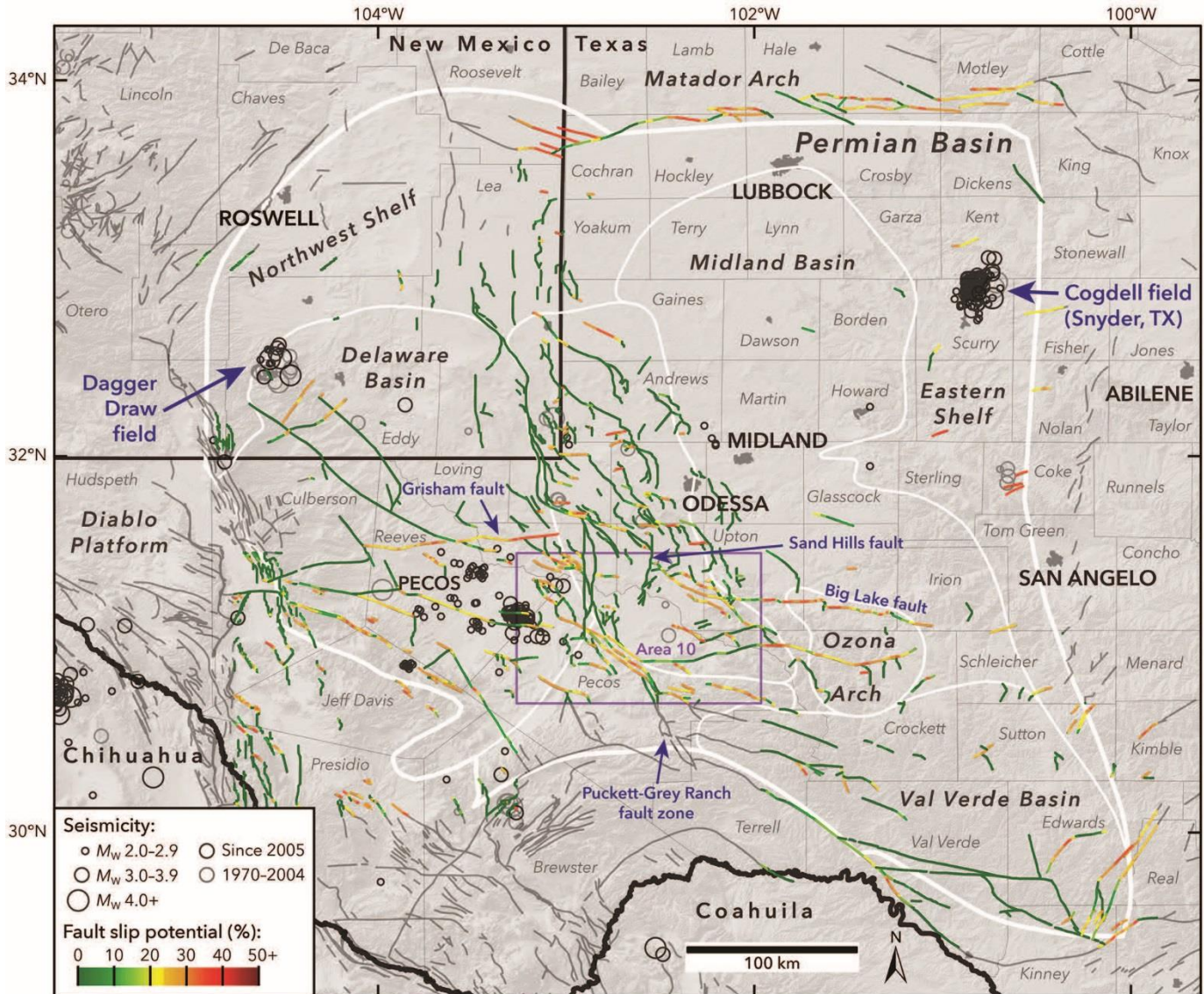


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

Induced Seismicity Potential Statement for the Maxey Deep SWD #1
April 27, 2021

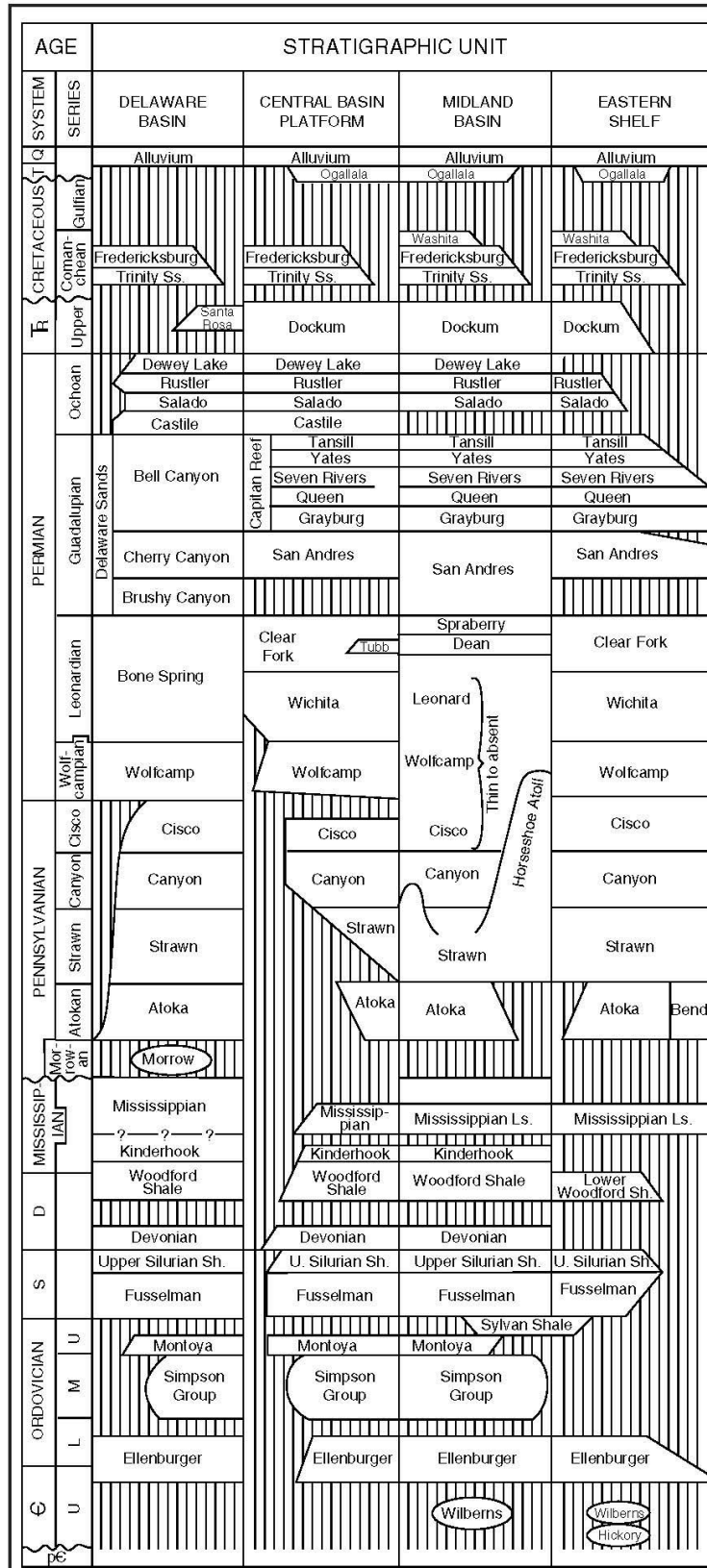


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 6: List of Notification Applicants & Delivery Confirmations

Ranch Water State SWD #1 - Notice of Application Receipts				
Entity	Address	City	State	Zip Code
Landowner and Mineral Owner				
Frank Maxey	437 Pennington Drive	Corpus Christi	TX	78412
David Wersell	24523 Ripple Way	San Antonio	TX	78266
OCD District				
NMOCD District 2	811 S. First St	Artesia	NM	88210
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
Leasehold Operators (1-mile)				
Chevron	6001 Bollinger Canyon Rd	San Ramon	CA	94583
RKC Inc.	7500 E Arapahoe Rd, Ste 380	Centennial	CO	80112
COG O&G	600 W Illinois Ave	Midland	TX	79701
Francis G. Tracy	415 Pecos River Dr	Carlsbad	NM	88220
Devon Energy Prod LP	333 West Sheridan Ave	Oklahoma City	OK	73102
OXY USA WTP LP	5 Greenway Plaza Ste 110	Houston	TX	77046-0521
Sun Valley Energy	1181 Estates Dr	Gainesville	GA	30501
BWAB LTD Co	100 St. Paul St., Ste 305	Denver	CO	80206
Magnum Hunter	3500 William D. Tate, Ste 200	Grapevine	TX	76051
Black Mountain	500 Main St., Ste 1200	Fort Worth	TX	76102
Marathon Oil	P.O. Box 2069	Houston	TX	77252-2069
Marbob Energy	P.O. Box 227	Artesia	NM	88211
Mewbourne	P.O. Box 7698	Tyler	TX	75711
R. Andersen (Richard Anderson)	P.O. Box 213	Roy	NM	87743
Chesapeake	P.O. Box 18496	Oklahoma City	OK	73154
Sun-West O&G	P.O. Box 1684	Midland	TX	79702
SPC RESOURCES LLC	101 S. 4th St., Suite B	Artesia	NM	88210
SCRATCH PROPERTIES LLC	2412 W. Richey Ave	Artesia	NM	88210
SNOW OIL & GAS INC.	P.O. Box 1277	Andrews	TX	79714
OGX RESOURCES LLC	400 N Marienfeld St., Ste 200	Midland	TX	79701
JAMES H ISOBELL	2820 Moss Ave	Midland	TX	79705
EOG	P.O. Box 4362	Houston	TX	77210-4362
Elaine M. Murphy	P.O. Box 1674	Carlsbad	NM	88221
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).				

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004716489


This is not an invoice

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

AUSTIN, TX 78730

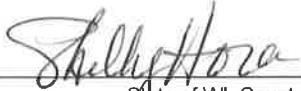
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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:

05/02/2021



Legal Clerk

Subscribed and sworn before me this May 6, 2021:



State of WI, County of Brown
NOTARY PUBLIC



My commission expires

SHELLY HORA
Notary Public
State of Wisconsin

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:

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WELL NAME AND LOCATION: Maxey Deep SWD 1 Located 1 Mile East of Carlsbad. NW1/4 of the NW1/4 Section 3, Township 22S, Range 27E, 250' from North Line & 760' from West Line, Eddy County, New Mexico.

NAME AND DEPTH OF DISPOSAL ZONE: Devonian-Silurian (12417' - 13417')

EXPECTED MAXIMUM INJECTION RATE: 30,000 barrels/day

EXPECTED MAXIMUM INJECTION PRESSURE: 2483 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.

#0004716489, Current Argus, May 2, 2021

Ad # 0004716489

PO #: ANTHEM WATER SOLUTIONS, LLC
of Affidavits: 1

This is not an invoice



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

Frank Maxey
437 Pennington Drive
Corpus Christi, TX 78412

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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

David Wersell
24532 Ripple Way
San Antonio, TX 78266

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

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

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Chevron
6001 Bollinger Canyon Rd
San Ramon, CA 94583

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Anthem Water Solutions, LLC
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RKC Inc.
7500 E Arapahoe Rd, Ste 380
Centennial, CO 80112

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COG O&G
600 W Illinois Ave
Midland, TX 79701

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Francis G. Tracy
415 Pecos River Dr
Carlsbad, NM 88220

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Anthem Water Solutions, LLC
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Devon Energy Prod LP
333 West Sheridan Ave
Oklahoma City, OK 73102

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OXY USA WTP LP
5 Greenway Plaza Ste 110
Houston, TX 0

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Gainesville, GA 30501

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Marshall Tippen
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BWAB LTD Co
100 St. Paul St., Ste 305
Denver, CO 80206

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

Magnum Hunter
3500 William D. Tate, Ste 200
Grapevine, TX 76051

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

Black Mountain
500 Main St., Ste 1200
Fort Worth, TX 76102

APPLICATION FOR AUTHORITY TO INJECT

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NAME AND DEPTH OF DISPOSAL ZONE: Devonian-Silurian (12417' – 13417')

EXPECTED MAXIMUM INJECTION RATE: 30,000 barrels/day

EXPECTED MAXIMUM INJECTION PRESSURE: 2483 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', written in a cursive style.

Marshall Tippen



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

Marathon Oil
P.O. Box 2069
Houston, TX 0

APPLICATION FOR AUTHORITY TO INJECT

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

Marbob Energy
P.O. Box 227
Artesia, NM 88211

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Marshall Tippen



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

Mewbourne
P.O. Box 7698
Tyler, TX 75711

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

R. Andersen (Richard Anderson)
P.O. Box 213
Roy, NM 87743

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Marshall Tippen



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

Chesapeake
P.O. Box 18496
Oklahoma City, OK 73154

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

Sun-West O&G
P.O. Box 1684
Midland, TX 79702

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

SPC RESOURCES LLC
101 S. 4th St., Suite B
Artesia, NM 88210

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Anthem Water Solutions, LLC
3300 North A Street, Building 2, Suite 222
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SCRATCH PROPERTIES LLC
2412 W. Richey Ave
Artesia, NM 88210

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Andrews, TX 79714

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OGX RESOURCES LLC
400 N Marienfeld St., Ste 200
Midland, TX 79701

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JAMES H ISOBELL
2820 Moss Ave
Midland, TX 79705

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Anthem Water Solutions, LLC
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EOG
P.O Box 4362
Houston, TX 0

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

Elaine M. Murphy
P.O. Box 1674
Carlsbad, NM 88221

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R. Andersen (Richard Anderson)
P.O. Box 213
Roy, NM 87743

SPC RESOURCES LLC
101 S. 4th St., Suite B
Artesia, NM 88210

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☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$0.55

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Roy NM 87743
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

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Sun-West O&G
P.O. Box 1684
Midland, TX 79702

SNOW OIL & GAS INC.
P.O. Box 1277
Andrews, TX 79714

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Black Mountain
500 Main St., Ste 1200
Fort Worth, TX 76102

U.S. Postal Service™
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Fort Worth, TX 76102

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Mewbourne
P.O. Box 7698
Tyler, TX 75711

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City, State, ZIP+4®

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Marbob Energy
P.O. Box 227
Artesia, NM 88211

Chesapeake
P.O. Box 18496
Oklahoma City, OK 73154

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See Reverse for Instructions

Frank Maxey
437 Pennington Drive
Corpus Christi, TX 78412

David Wersell
24532 Ripple Way
San Antonio, TX 78266

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
437 Pennington Drive
Street and Apt. No., or PO Box No.
Corpus Christi, TX 78412
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AUSTIN TX

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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
24532 Ripple Way
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San Antonio, TX 78266
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AUSTIN TX

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

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

7020 1290 0000 8759 0808

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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
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Street and Apt. No., or PO Box No.
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

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Devon Energy Prod LP
333 West Sheridan Ave
Oklahoma City, OK 73102

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Oklahoma City, OK 73102

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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
333 West Sheridan Ave
Street and Apt. No., or PO Box No.
Oklahoma City, OK 73102
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Sun Valley Energy
1181 Estates Dr
Gainesville, GA 30501

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Gainesville, GA 30501

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
1181 Estates Drive
Street and Apt. No., or PO Box No.
Gainesville, GA 30501
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OXY USA WTP LP
5 Greenway Plaza Ste 110
Houston, TX 77046-0521

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Houston, TX 77046

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
5 Greenway Plaza, Ste. 110
Street and Apt. No., or PO Box No.
Houston, TX 77046
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BWAB LTD Co
100 St. Paul St., Ste 305
Denver, CO 80206

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Denver, CO 80206

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Certified Mail Fee \$3.60

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
100 St. Paul St., Ste. 305
Street and Apt. No., or PO Box No.
Denver, CO 80206
City, State, ZIP+4®

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Chevron
6001 Bollinger Canyon Rd
San Ramon, CA 94583

RKC Inc.
7500 E Arapahoe Rd, Ste 380
Centennial, CO 80112

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
6001 Bollinger Canyon Rd
Street and Apt. No., or PO Box No.
San Ramon, CA 94583
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
7500 E. Arapahoe Road, Ste 380
Street and Apt. No., or PO Box No.
Centennial, CO 80112
City, State, ZIP+4®

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COG O&G
600 W Illinois Ave
Midland, TX 79701

Francis G. Tracy
415 Pecos River Dr
Carlsbad, NM 88220

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
600 W. Illinois Ave
Street and Apt. No., or PO Box No.
Midland, TX 79701
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
415 Pecos River Dr
Street and Apt. No., or PO Box No.
Carlsbad, NM 88220
City, State, ZIP+4®

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SCRATCH PROPERTIES LLC
2412 W. Richey Ave
Artesia, NM 88210

Magnum Hunter
3500 William D. Tate, Ste 200
Grapevine, TX 76051

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$0.55

Total Postage and Fees \$

Sent To
7412 W. Richey Ave.
Street and Apt. No., or PO Box No.
Artesia NM 88210
City, State, ZIP+4®
Scratch

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Certified Mail Fee \$13.60

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
3500 William Tate, Ste 200
Street and Apt. No., or PO Box No.
Grapevine, TX 76051
City, State, ZIP+4®

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OGX RESOURCES LLC
400 N Marienfeld St., Ste 200
Midland, TX 79701

Marathon Oil
P.O. Box 2069
Houston, TX 77252-2069

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$0.55

Total Postage and Fees \$

Sent To
400 N. Marienfeld St., Ste. 200
Street and Apt. No., or PO Box No.
Midland, TX 79701
City, State, ZIP+4®
OGX

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Certified Mail Fee \$13.60

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$0.55

Total Postage and Fees \$

Sent To
PO Box 2069
Street and Apt. No., or PO Box No.
Houston, TX 77252
City, State, ZIP+4®

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JAMES H ISOBEL
2820 Moss Ave
Midland, TX 79705

EOG
P.O Box 4362
Houston, TX 77210-4362

7021 0350 0000 0375 47

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Certified Mail Fee \$3.60

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
2820 Moss Ave.
Street and Apt. No., or PO Box No.
Midland, TX 79705
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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
PO Box 4362
Street and Apt. No., or PO Box No.
Houston, TX 77210
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Elaine M. Murphy
P.O. Box 1674
Carlsbad, NM 88221

7021 0350 0000 0375 4409

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Certified Mail Fee \$3.60

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.55

Total Postage and Fees \$4.15

Sent To
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Street and Apt. No., or PO Box No.
Carlsbad, NM 88221
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