

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF PILOT WATER SOLUTIONS  
SWD, LLC FOR SALT WATER DISPOSAL IN  
LEA COUNTY, NEW MEXICO**

**CASE NO.** \_\_\_\_\_

**APPLICATION FOR SALT WATER DISPOSAL**

PILOT WATER SOLUTIONS SWD, LLC, by and through its undersigned attorney, applies for an order approving a salt water disposal well, and in support thereof, states:

1. Applicant seeks an order for a salt water disposal well for its Cannon SWD No. 1, (Pool Code 96121) to be drilled at a location 2,363' FNL and 1,271' FEL, Unit H, Section 9, Township 19 South, Range 37 East, N.M.P.M., Lea County, New Mexico.
2. Applicant proposes to set a packer at 4,237' feet below the surface of the earth and then inject into the San Andres formation at depths between 4,237' through 5,568' open hole, as stated in the attached C-108.
3. Attached hereto as Exhibit A is the C-108 for the subject well.
4. The granting of this application will prevent waste and protect correlative rights.

**WHEREFORE**, Applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

PADILLA LAW FIRM, P.A.

/s/ Ernest L. Padilla

Ernest L. Padilla  
Attorney for Pilot Water Solutions SWD, LLC  
PO Box 2523  
Santa Fe, New Mexico 87504  
505-988-7577  
[padillalawnm@outlook.com](mailto:padillalawnm@outlook.com)



September 1, 2023

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

Subject: Pilot Water Solutions SWD LLC  
Application for Authorization to Inject  
Cannon SWD State #1

Mr. Fuge,

Pilot Water Solutions SWD LLC (Pilot) is applying for administrative approval of the attached Application for Authorization to Inject (Form C-108) for their proposed Cannon SWD State #1. The application is requesting authorization to dispose of saltwater from oil and gas production in the area via commercial disposal into the San Andres Formation in Lea County, NM.

Questions regarding this application or the included materials can be directed to Nate Alleman (Pilot Regulatory Advisor Contractor) via telephone at 918-237-0559 or via email at [nate.alleman@aceadvisors.com](mailto:nate.alleman@aceadvisors.com).

Sincerely,

A handwritten signature in black ink that reads "Nathan Alleman".

Nate Alleman  
Chief Regulatory Advisor  
Ace Energy Advisors

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: Pilot Water Solutions SWD LLC OGRID Number: 331374  
 Well Name: Cannon SWD State #1 API: 30-025-  
 Pool: SWD; San Andres Pool Code: 96121

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

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

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

FOR OCD ONLY	
<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.

David Grounds

Print or Type Name

David Grounds

Signature

09/01/2023  
Date

713-307-8752  
Phone Number

david.grounds@pilotwater.com  
e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

II. OPERATOR: Pilot Water Solutions SWD LLC

ADDRESS: 20 Greenway Plaza, Suite 200, Houston, TX 77046

CONTACT PARTY: David Grounds PHONE: 713-307-8752

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: David Grounds TITLE: VP - Regulatory Compliance

SIGNATURE: David Grounds DATE: 09/01/2023

E-MAIL ADDRESS: david.grounds@pilotwater.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: \_\_\_\_\_

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

### 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.**

Operator: Pilot Water Solutions SWD LLC  
 Lease/Well Name & Number: Cannon SWD State #1  
 Legal Location: 2,363' FNL, 1,271' FEL- Unit H – Section 9 T19S R37E – Lea County

- (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.**

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	17-1/2	13-3/8	1,558	2,442	0	Circulation
Production	12-1/4	9-5/8	5,568	1,662	0	Circulation

A wellbore diagram is included in **Attachment 1**.

- (3) A description of the tubing to be used including its size, lining material, and setting depth.**

5-1/2" fiberglass-coated tubing set at 4,237'

- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.**

Weatherford AS1X Stainless 9-5/8" X 5-1/2" set at 4,237'

**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.**

Injection Formation Name - San Andres  
 Pool Name - SWD; San Andres  
 Pool Code – 96121

- (2) The injection interval and whether it is perforated or open-hole.**

Cased-hole injection between 4,237' - 5,568'

- (3) State if the well was drilled for injection or, if not, the original purpose of the well.**

New drill for injection

- (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.**

None

- (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.**

- **Overlying**
  - Yates (2,783')
  - 7 Rivers (3,053')
  - Queen (3,600')
  - Grayburg (3,960')
- **Underlying** - No underlying oil and gas zones present.

**Note:** the proposed SWD is located on the Central Basin Platform. Therefore, the listed productive zones are limited to those productive zones occurring on the Central Basin Platform.

## **V. AOR Maps**

**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.**

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

- ½-Mile AOR/Surface & Mineral Ownership Map
- 2-Mile Oil & Gas Well Map
- 2-Mile Lease Map

## **VI. AOR List**

**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.**

Details of the wells within the 0.5-mile AOR are included in **Attachment 2**. No wells within the 0.5-mile AOR penetrate the top of the proposed injection zone.

## **VII. Operational Information**

**Attach data on the proposed operation, including:**

- (1) Proposed average and maximum daily rate and volume of fluids to be injected;**

Maximum: 25,000 bpd  
Average: 15,000 bpd

- (2) Whether the system is open or closed;**

The system will be closed.

- (3) Proposed average and maximum injection pressure;**

Maximum: 847 psi (surface)  
Average: approx. 500-600 psi (surface)

- (4) Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water;**

It is anticipated that produced water from Wolfcamp and Bone Spring production wells in the area will be injected into the proposed SWD. Therefore, water analysis from these formations was obtained and is included in **Attachment 3**.

- (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.).**

The proposed injection interval for this SWD is the San Andres formation, which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Spring formations. Water analyses of samples collected from the proposed injection formation in the area were obtained and are included in **Attachment 4**.

## **VIII. Geologic Description**

**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.**

The proposed injection interval is located in the San Andres formation between the depths of 4,237 and 5,568 feet. The San Andres formation consists of an interbedded carbonate sequence composed of limestone and dolomite. These cycles tend to be mappable within the San Andres and are differentiated by sections of either very high or very low porosity and permeability development. Upper and lower confinement will be provided by tight carbonate facies present within San Andres that occur above and below the porous injection interval. The upper confining interval occurs at the top of the San Andres formation, directly underlying the Grayburg formation, and ranges from 125' – 150' net thickness based on a review of nearby open-hole geophysical logs. The lower confining interval occurs at the bottom of the San Andres formation, directly overlying the Glorieta formation, and ranges from 150' - 200' net thickness based on a review of nearby open-hole geophysical logs.

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,533'. Water wells in the area are drilled to a depth of approximately 110' – 150'.

## **IX. Proposed Stimulation Program**

**Describe the proposed stimulation program, if any.**

A minor acid job utilizing 15-20% hydrochloric acid may be used to cleanup the wellbore.

## **X. Logging and Test Data**

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

Logs will be run and submitted to the Division once the well is completed.

## **XI. Groundwater Wells**

**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.**

Based on data obtained from the New Mexico Office of the State Engineer (OSE), a total of 12 groundwater wells (4 active, 1 Pending and 7 Plugged) are located within 1 mile of the proposed SWD location. Ten of the water wells within the 1-mile radius do not meet sampling criteria due to their status (i.e. Plugged) or use (i.e. Commercial or O&G Prospecting).

A water sample has been collected and analyzed from one (1) of the fresh, active water wells. Multiple attempts have been made to contact the owner of the second well that meets the sampling criteria; however, approval for sampling has not yet been obtained. Attempts to contact the water well owner and sample the water well will be continued and the associated analysis will be submitted to OCD upon completion.

A map depicting the locations of nearby water wells and details of the water wells within 1-mile, including rationale as to whether they meet the sampling criteria, are included in **Attachment 5**.

## **XII. No Hydrologic Connection Statement**

**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.**

A geologic review conducted on offset wireline log data and published regional studies did not identify any faulting in the vicinity of the proposed locations that would allow for the hydraulic communication between the injection interval and overlying USDWs. The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,533'.

## **XIII. Proof of Notice**

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

**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.**

A copy of the application was mailed to the Affected Persons, including the OCD District Office, surface owner, leasehold operators within the AOR, and BLM/SLO if they own minerals within the AOR. **Attachment 6** includes a list of the Affected Persons receiving notice of the application and the associated certified mailing receipts (green sheets).

**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.**

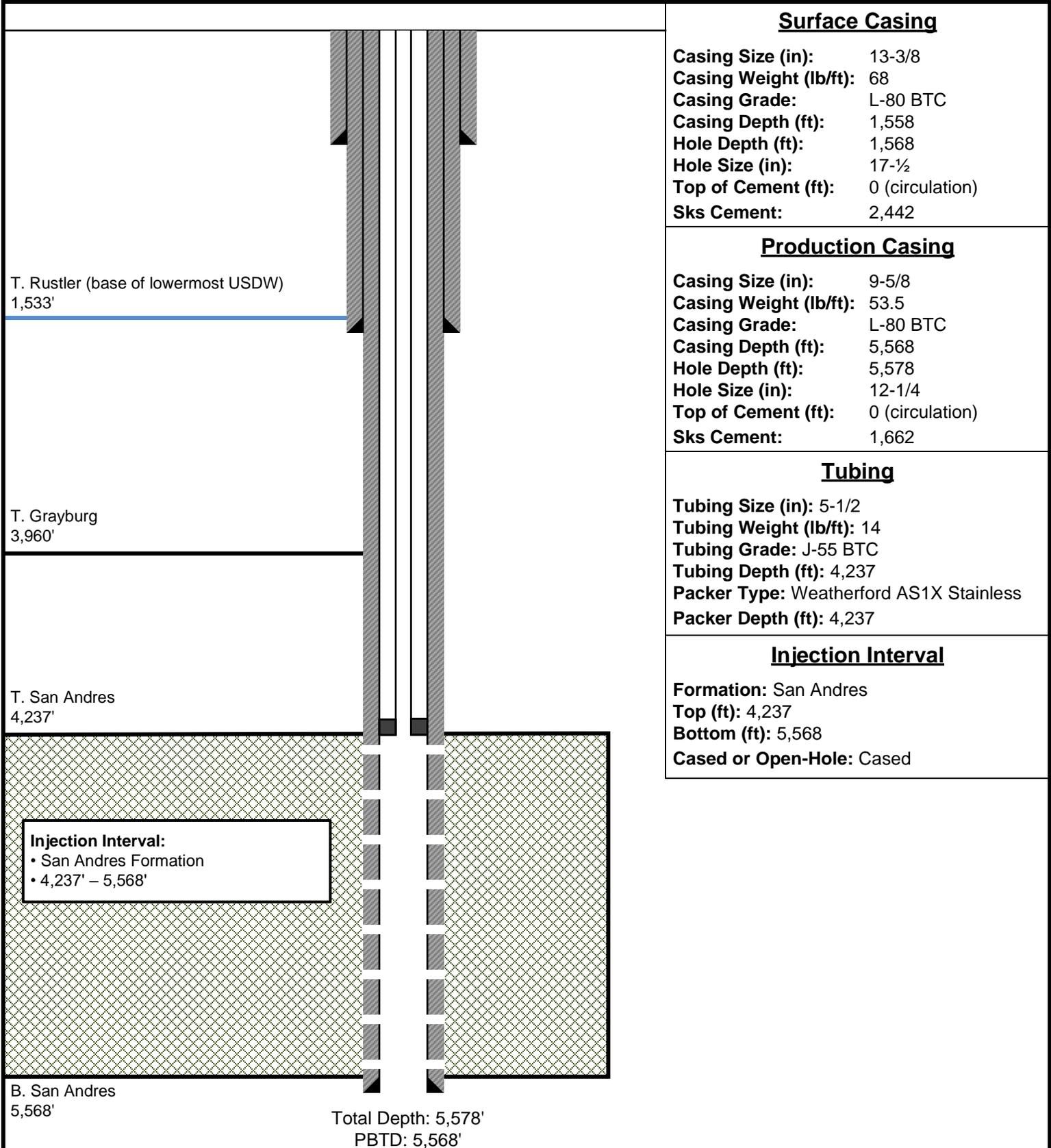
A Public Notice was published in the Hobbs NewsSun, a newspaper of general circulation in the area, and the associated affidavit is included in **Attachment 6**.

**Attachment 1**



# Pilot Water Solutions SWD LLC

## Cannon SWD State #1 Wellbore Diagram



### Surface Casing

**Casing Size (in):** 13-3/8  
**Casing Weight (lb/ft):** 68  
**Casing Grade:** L-80 BTC  
**Casing Depth (ft):** 1,558  
**Hole Depth (ft):** 1,568  
**Hole Size (in):** 17-1/2  
**Top of Cement (ft):** 0 (circulation)  
**Sks Cement:** 2,442

### Production Casing

**Casing Size (in):** 9-5/8  
**Casing Weight (lb/ft):** 53.5  
**Casing Grade:** L-80 BTC  
**Casing Depth (ft):** 5,568  
**Hole Depth (ft):** 5,578  
**Hole Size (in):** 12-1/4  
**Top of Cement (ft):** 0 (circulation)  
**Sks Cement:** 1,662

### Tubing

**Tubing Size (in):** 5-1/2  
**Tubing Weight (lb/ft):** 14  
**Tubing Grade:** J-55 BTC  
**Tubing Depth (ft):** 4,237  
**Packer Type:** Weatherford AS1X Stainless  
**Packer Depth (ft):** 4,237

### Injection Interval

**Formation:** San Andres  
**Top (ft):** 4,237  
**Bottom (ft):** 5,568  
**Cased or Open-Hole:** Cased

**Injection Interval:**  
 • San Andres Formation  
 • 4,237' – 5,568'

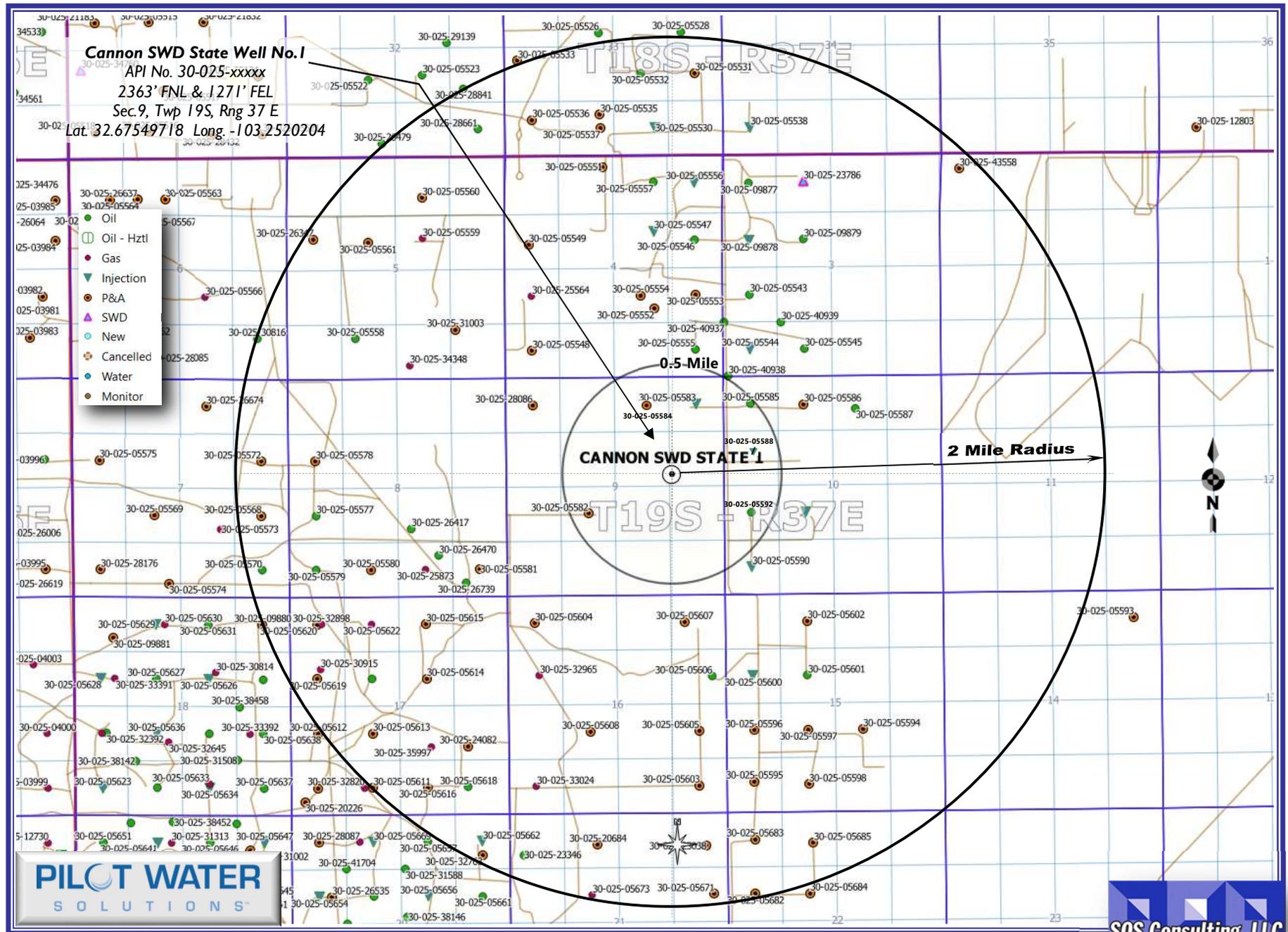
Note: Listed depths and cement volumes are approximates based on available information.

NOT TO SCALE

**Attachment 2**

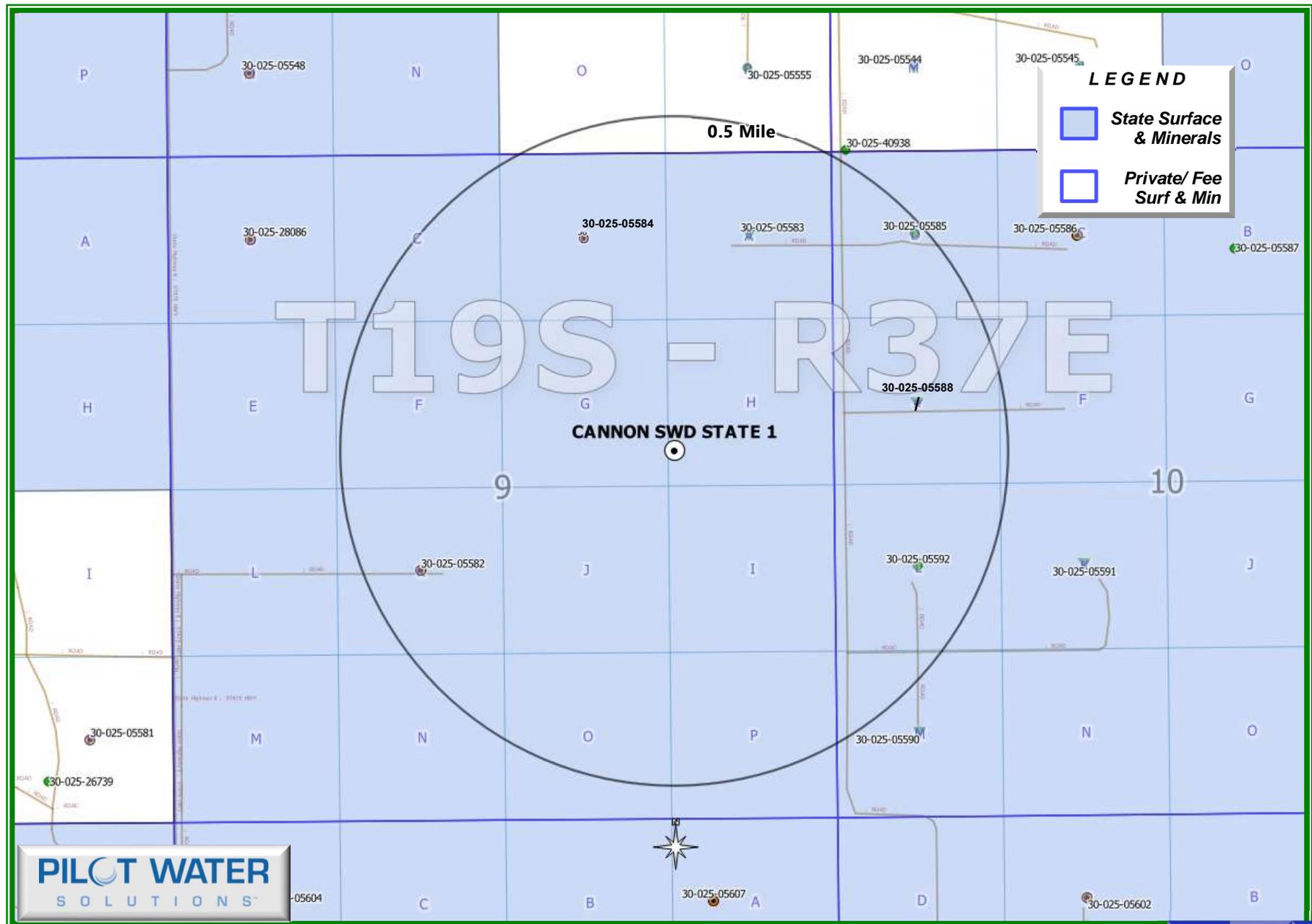
# Cannon SWD State Well No.1 - Area of Review - 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



# Cannon SWD State #1 – Surface & Minerals Ownership

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



**1/2-Mile AOR Tabulation for Cannon SWD State #1 (Top of Injection Interval: 4,237')**

Well Name	API#	Well Type	Operator	Status	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
PRE-ONGARD WELL #001	30-025-05582	G	PRE-ONGARD WELL OPERATOR	Plugged (site released)	11/13/1955	K-09-19S-37E	3,900	No
EAST EUMONT UNIT #027	30-025-05584	O	J R OIL, LTD. CO.	Plugged (not released)	12/12/1956	B-09-19S-37E	3,980	No
EAST EUMONT UNIT #028	30-025-05583	I	J R OIL, LTD. CO.	Active	2/20/1956	A-09-19S-37E	3,975	No
EAST EUMONT UNIT #032	30-025-05588	I	J R OIL, LTD. CO.	Temporary Abandonment	6/26/1956	E-10-19S-37E	4,020	No
EAST EUMONT UNIT #029	30-025-05585	O	J R OIL, LTD. CO.	Active	6/20/1956	D-10-19S-37E	4,080	No
EAST EUMONT UNIT #034	30-025-05592	O	J R OIL, LTD. CO.	Active	7/2/1957	L-10-19S-37E	4,065	No

**Notes:** No wells within the 1/2-mile AOR penetrate the injection interval.



**Attachment 3**

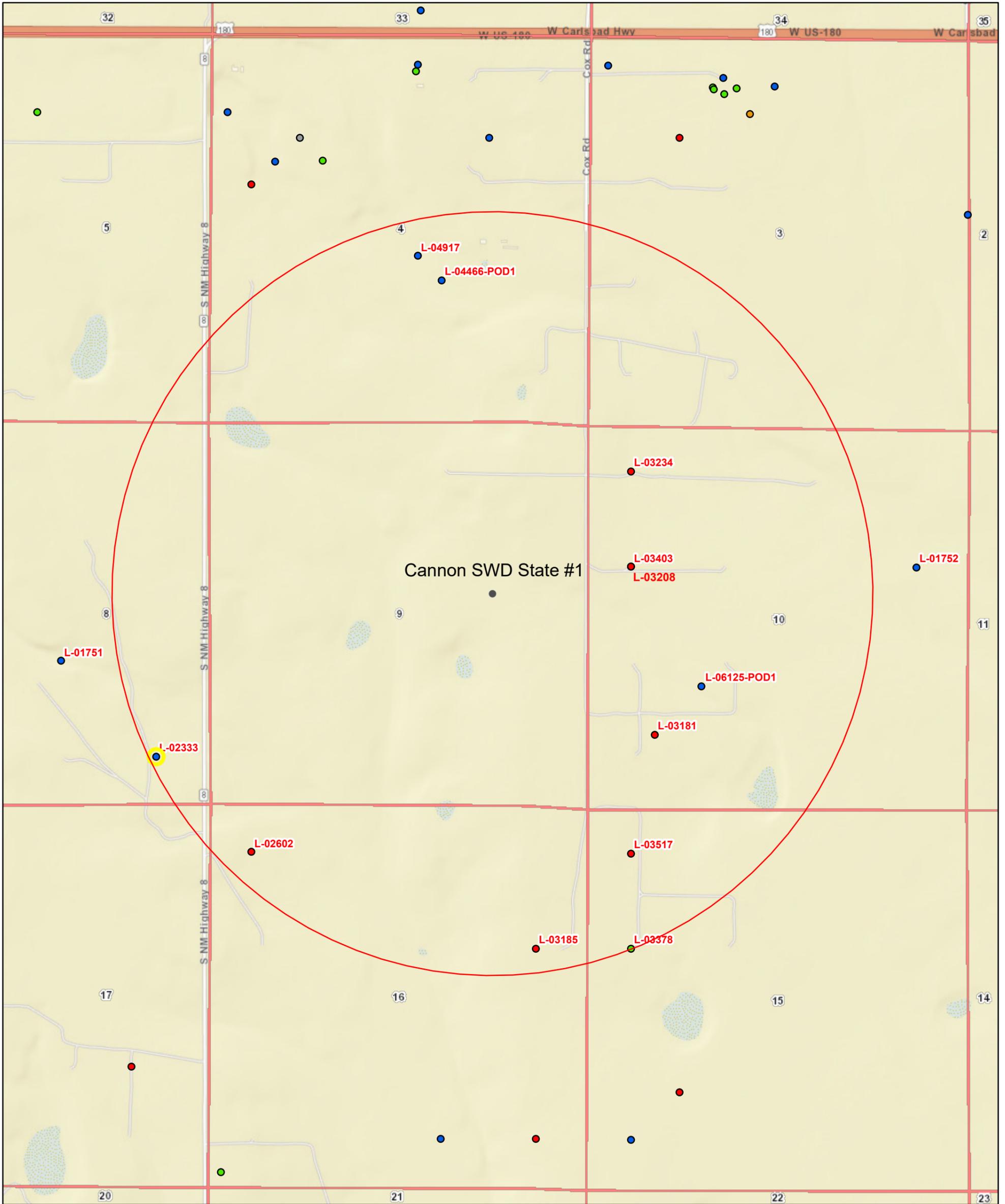
Source Formation Water Analysis																							
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgew	County	State	Formation	Sampled	PH	TDS (Mg/L)	Sodium (Mg/L)	Calcium (MG/L)	Iron (MG/L)	Magnesium (MG/L)	Manganese (MG/L)	Chloride (MG/L)	Bicarbonate (MG/L)	Sulfate (MG/L)
STATE NPA #001	3002503156	32.6879654	-103.5031815	6	19S	35E	L	1980S	660W	LEA	NM	BONE SPRING	1960	7.7	25800.0						14100.0	830.0	1120.0
SHOOTING STAR STATE SWD #001	3002529805	32.7594261	-103.4270935	11	18S	35E	J	1650S	2310E	LEA	NM	BONE SPRING	2001	6.2		15600.0	2.5	981.9			148248.0	244.0	650.0
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	WOLFCAMP	1960	7.1	60950.0						33568.0	1087.0	3049.0
IRONHOUSE 19 STATE COM #001H	3002540676	32.7266121	-103.499527	19	18S	35E	N	200S	1800W	Lea	NM	BONE SPRING 2ND SAND	2014	6.4	182863.9	58171.0	4944.4	49.0	1892.6	1.4	113954.0	195.2	0.0
IRONHOUSE 19 STATE COM #004H	3002541245	32.7264938	-103.5014343	19	18S	35E	M	150S	1215W	Lea	NM	BONE SPRING 2ND SAND	2014	6.2	189029.2	64016.2	5319.3	38.8	2044.4	1.5	113566.0	158.6	0.0
IRONHOUSE 19 STATE COM #002H	3002541094	32.7271118	-103.4903336	19	18S	35E	P	410S	630E	Lea	NM	BONE SPRING 2ND SAND	2014	6.0	205332.0	72646.0	4828.0	39.0	2316.0	2.0	130450.0	488.0	1503.0
IRONHOUSE 20 STATE COM #001	3002540611	32.7265129	-103.4774857	20	18S	35E	O	200S	1980E	Lea	NM	BONE SPRING 2ND SAND	2014	6.1	186865.0	65638.0	4698.0	16.0	1700.0	1.0	116510.0	1098.0	1804.0
IRONHOUSE 20 STATE #002H	3002540748	32.7265129	-103.4731903	20	18S	35E	P	200S	660E	Lea	NM	BONE SPRING 2ND SAND	2014	6.6	196865.0	66738.0	4631.0	23.0	1790.0	1.0	116580.0	1298.0	1894.0
IRONHOUSE 19 STATE COM #003H	3002541050	32.7264977	-103.4941711	19	18S	35E	O	175S	1810E	Lea	NM	BONE SPRING 2ND SAND	2014	6.2	178457.0	56874.0	6125.0	22.0	1457.0	1.0	125412.0	845.0	849.0
HAMON STATE #001	3002503140	32.7175827	-103.4464035	27	18S	35E	K	2310S	2310W	LEA	NM	BONE SPRING			154510.0						96360.0	430.0	1210.0
LEA 403 STATE #001	3002503126	32.7386093	-103.4518051	22	18S	35E	D	660N	660W	LEA	NM	BONE SPRING	1958	6.7	255451.0						156699.0	327.0	779.0

**Attachment 4**

Injection Formation Water Analysis																		
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Formation	Sampled	PH	TDS (Mg/L)	Chloride (MG/L)	Bicarbonate (MG/L)	Sulfate (MG/L)
B V CULP NCT A #008	3002505640	32.6467896	-103.2919235	19	19S	37E	F	2310N	2239W	LEA	NM	SAN ANDRES			10905	2350	1100	3700
B V CULP NCT A #008	3002505640	32.6467896	-103.2919235	19	19S	37E	F	2310N	2239W	LEA	NM	SAN ANDRES			26735	14500	1370	1020
B V CULP NCT A #008	3002505640	32.6467896	-103.2919235	19	19S	37E	F	2310N	2239W	LEA	NM	SAN ANDRES			40250	20800	1390	3100
B V CULP NCT A #008	3002505640	32.6467896	-103.2919235	19	19S	37E	F	2310N	2239W	LEA	NM	SAN ANDRES			71110	39800	810	3500
B V CULP NCT A #008	3002505640	32.6467896	-103.2919235	19	19S	37E	F	2310N	2239W	LEA	NM	SAN ANDRES			156218	95130	176	771
NORTH MONUMENT G/SA UNIT #001	3002505647	32.6512489	-103.2843475	19	19S	37E	A	660N	660E	Lea	NM	SAN ANDRES	1964	6.0		10200	592	1938
GOODWIN #002	3002520651	32.7204323	-103.2928467	30	18S	37E	F	1980N	1980W	LEA	NM	SAN ANDRES			80467	45060	1492	3315
GOODWIN #002	3002520651	32.7204323	-103.2928467	30	18S	37E	F	1980N	1980W	LEA	NM	SAN ANDRES			69848	39130	1225	3114
NORTH HOBBS UNIT #001	3002505449	32.7530632	-103.21138	13	18S	37E	D	660N	660W	LEA	NM	SAN ANDRES	1960	8.0	12100	4500	504	2300
NORTH HOBBS UNIT #001	3002505449	32.7530632	-103.21138	13	18S	37E	D	660N	660W	LEA	NM	SAN ANDRES			12100	4541	509	2321
BOBBI STATE WF UNIT #006	3002503978	32.7231979	-103.373436	29	18S	36E	B	990N	1650E	LEA	NM	SAN ANDRES			20882	11190	645	1232
STATE NG #001	3002522795	32.7349815	-103.3057404	24	18S	36E	G	1980N	1980E	LEA	NM	SAN ANDRES	1968	6.5	265665	157000	98	5400
STATE NG #001	3002522795	32.7349815	-103.3057404	24	18S	36E	G	1980N	1980E	LEA	NM	SAN ANDRES	1968	6.3	203913	122000	110	3000
GRAHAM STATE NCT F #003	3002512476	32.6149902	-103.3056641	36	19S	36E	J	1980S	1980E	LEA	NM	SAN ANDRES	1900	6.5		16406	611	
NORTHWEST EUMONT UNIT #156	3002504099	32.617733	-103.3518143	33	19S	36E	H	2310N	330E	Lea	NM	SAN ANDRES	1960	7.0		38119	405	4317
GRAHAM STATE NCT F #003	3002512476	32.6149902	-103.3056641	36	19S	36E	J	1980S	1980E	Lea	NM	SAN ANDRES	1964	6.5		16406	611	
GRAHAM STATE NCT F #003	3002512476	32.6149902	-103.3056641	36	19S	36E	J	1980S	1980E	LEA	NM	SAN ANDRES			26344			
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	SAN ANDRES	1964	8.5	65365	36905	560	1460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM	SAN ANDRES	1964	6.7		67245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	SAN ANDRES			65361	36900	560	1460
EUNICE MONUMENT UNIT #031	3002506169	32.5531693	-103.2843781	19	20S	37E	P	660S	660E	LEA	NM	SAN ANDRES			91120	59850	0	722

**Attachment 5**

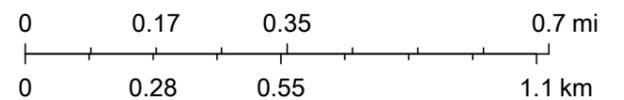
# Cannon SWD State #1 Water Well Map



9/1/2023, 7:59:28 AM

- GIS WATERS PODs
- Active
  - Plugged
  - Pending
  - Capped
  - Incomplete
  - Sections

1:18,056



City of Hobbs, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, NGA, USGS, OSE SLO

Water Well Sampling Table					
Water Well ID	OSE Status	Owner	Available Contact Information	Use	Notes
L 02333	Active	ROGERS INC	J W Rogers Inc Hobbs, NM	Prospecting	O&G Prospecting - not fresh water supply well
L 02602	Plugged	OSCAR BOURG DRILLING COMPANY	Oscar Bourg Drilling Company Po Box 73 Midland, TX	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 03181	Plugged	HUMBLE OIL AND REFINING CO.	Humble Oil And Refining Co. Box 1287 Roswell, NM	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 03185	Plugged	CARPER DRILLING CO.	Carper Drilling Co. Box 978 Midland, TX	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 03208	Plugged	OSCAR BOURG DRLG. CO.	Oscar Bourg Drilling Company C/o O R Musslewhite Box 56 Hobbs, NM	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 03234	Plugged	MAKIN DRILLING COMPANY	Makin Drilling Company Box 1628 Hobbs, NM	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 03378	Pending	MAKIN DRILLING COMPANY	Makin Drilling Company Box 1628 Hobbs, NM	Prospecting	O&G Prospecting - not fresh water supply well
L 03403	Plugged	OSCAR BOURG DRILLING COMPANY	Oscar Bourg Drilling Company C/o O R Musslewhite Box 56 Hobbs, NM	Prospecting	O&G Prospecting - not fresh water supply well
L 06125 POD1	Active	OXY USA INC.	Oxy Usa, Inc. 6 Desta Drive P.o. Box 50250 Midland, TX 79710	Commercial	Commercial - not fresh water supply well
L 03517	Plugged	CACTUS DRILLING COMPANY	Cactus Drilling Company 217 Greenacres Drive Hobbs, NM	Prospecting	Plugged - O&G Prospecting - not fresh water supply well
L 04917	Active	COX	E W Cox 602 East Corbett Street Hobbs, NM	Domestic and livestock watering	<b>Sample collected 8-17-23</b>
L 04466 POD1	Active	COOPER	Jimmie B. Cooper P.o. Box 36 Monument, NM 88265	Irrigation	Unable to contact water well owner after multiple attempts.
Notes:					



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

August 24, 2023

NATE ALLEMAN

ACE ENERGY ADVISORS

501 E. FRANK PHILLIPS BLVD. SUITE 201

BARTLESVILLE, OK 74003

RE: PILOT

Enclosed are the results of analyses for samples received by the laboratory on 08/17/23 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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



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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L - 06216-POD 2	H234446-01	Water	17-Aug-23 09:10	17-Aug-23 10:20
L - 04917	H234446-02	Water	17-Aug-23 09:20	17-Aug-23 10:20
L - 06216	H234446-03	Water	17-Aug-23 09:00	17-Aug-23 10:20

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**L - 06216-POD 2  
H234446-01 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	215		5.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Chloride*	56.0		4.00	mg/L	1	3081602	AC	17-Aug-23	4500-Cl-B	
Conductivity*	632		1.00	umhos/cm @ 25°C	1	3081722	AC	17-Aug-23	120.1	
pH*	7.73		0.100	pH Units	1	3081722	AC	17-Aug-23	150.1	
Temperature °C	19.9			pH Units	1	3081722	AC	17-Aug-23	150.1	
Resistivity	15.8			Ohms/m	1	3081722	AC	17-Aug-23	120.1	
Sulfate*	57.0		10.0	mg/L	1	3081701	AC	17-Aug-23	375.4	
TDS*	378		5.00	mg/L	1	3081603	AC	22-Aug-23	160.1	
Alkalinity, Total*	176		4.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
TSS*	<2.00		2.00	mg/L	1	3081737	AC	18-Aug-23	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.080		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Calcium*	64.3		0.200	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Hardness as CaCO3	207		0.911	mg/L	1	[CALC]	AES	23-Aug-23	2340 B	
Iron*	0.217		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Magnesium*	11.3		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Potassium*	3.00		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Sodium*	44.4		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Strontium*	0.681		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	

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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**L - 04917  
H234446-02 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	244		5.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Chloride*	44.0		4.00	mg/L	1	3081602	AC	17-Aug-23	4500-Cl-B	
Conductivity*	604		1.00	umhos/cm @ 25°C	1	3081722	AC	17-Aug-23	120.1	
pH*	7.51		0.100	pH Units	1	3081722	AC	17-Aug-23	150.1	
Temperature °C	19.9			pH Units	1	3081722	AC	17-Aug-23	150.1	
Resistivity	16.6			Ohms/m	1	3081722	AC	17-Aug-23	120.1	
Sulfate*	71.5		10.0	mg/L	1	3081701	AC	17-Aug-23	375.4	
TDS*	376		5.00	mg/L	1	3081603	AC	22-Aug-23	160.1	
Alkalinity, Total*	200		4.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
TSS*	3.00		2.00	mg/L	1	3081737	AC	18-Aug-23	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.064		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Calcium*	64.8		0.200	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Hardness as CaCO3	210		0.911	mg/L	1	[CALC]	AES	23-Aug-23	2340 B	
Iron*	<0.050		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Magnesium*	11.7		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Potassium*	2.93		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Sodium*	37.4		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Strontium*	0.684		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	

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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**L - 06216  
H234446-03 (Water)**

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

**Inorganic Compounds**

Alkalinity, Bicarbonate	259		5.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
Chloride*	132		4.00	mg/L	1	3081602	AC	17-Aug-23	4500-Cl-B	
Conductivity*	950		1.00	umhos/cm @ 25°C	1	3081722	AC	17-Aug-23	120.1	
pH*	7.32		0.100	pH Units	1	3081722	AC	17-Aug-23	150.1	
Temperature °C	19.9			pH Units	1	3081722	AC	17-Aug-23	150.1	
Resistivity	10.5			Ohms/m	1	3081722	AC	17-Aug-23	120.1	
Sulfate*	66.6		25.0	mg/L	2.5	3081701	AC	17-Aug-23	375.4	
TDS*	528		5.00	mg/L	1	3081603	AC	22-Aug-23	160.1	
Alkalinity, Total*	212		4.00	mg/L	1	3080401	AC	17-Aug-23	310.1	
TSS*	2.00		2.00	mg/L	1	3081737	AC	18-Aug-23	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.082		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Calcium*	89.7		0.200	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Hardness as CaCO3	290		0.911	mg/L	1	[CALC]	AES	23-Aug-23	2340 B	
Iron*	0.454		0.050	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Magnesium*	16.1		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Potassium*	3.46		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Sodium*	68.2		1.00	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	
Strontium*	0.927		0.100	mg/L	1	B232484	AES	23-Aug-23	EPA200.7	

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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**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 3080401 - General Prep - Wet Chem**

<b>Blank (3080401-BLK1)</b>			Prepared & Analyzed: 04-Aug-23							
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (3080401-BS1)</b>			Prepared & Analyzed: 04-Aug-23							
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			

<b>LCS Dup (3080401-BSD1)</b>			Prepared & Analyzed: 04-Aug-23							
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	0.00	20	

**Batch 3081602 - General Prep - Wet Chem**

<b>Blank (3081602-BLK1)</b>			Prepared & Analyzed: 16-Aug-23							
Chloride	ND	4.00	mg/L							

<b>LCS (3081602-BS1)</b>			Prepared & Analyzed: 16-Aug-23							
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (3081602-BSD1)</b>			Prepared & Analyzed: 16-Aug-23							
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 3081603 - Filtration**

<b>Blank (3081603-BLK1)</b>			Prepared: 16-Aug-23 Analyzed: 17-Aug-23							
TDS	ND	5.00	mg/L							

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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**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 3081603 - Filtration**

**LCS (3081603-BS1)** Prepared: 16-Aug-23 Analyzed: 17-Aug-23

TDS	247		mg/L	300		82.3	80-120			
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**Duplicate (3081603-DUP1)** Source: H234290-05 Prepared: 16-Aug-23 Analyzed: 17-Aug-23

TDS	6220	5.00	mg/L		6370			2.41	20	
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**Batch 3081701 - General Prep - Wet Chem**

**Blank (3081701-BLK1)** Prepared & Analyzed: 17-Aug-23

Sulfate	ND	10.0	mg/L							
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**LCS (3081701-BS1)** Prepared & Analyzed: 17-Aug-23

Sulfate	19.3	10.0	mg/L	20.0		96.6	80-120			
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**LCS Dup (3081701-BSD1)** Prepared & Analyzed: 17-Aug-23

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	0.623	20	
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**Batch 3081722 - General Prep - Wet Chem**

**LCS (3081722-BS1)** Prepared & Analyzed: 17-Aug-23

pH	2.02		pH Units	2.00		101	90-110			
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Conductivity	490		uS/cm	500		98.0	80-120			
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**Duplicate (3081722-DUP1)** Source: H234446-01 Prepared & Analyzed: 17-Aug-23

pH	7.75	0.100	pH Units		7.73			0.258	20	
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Conductivity	629	1.00	umhos/cm @ 25°C		632			0.476	20	
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Resistivity	15.9		Ohms/m		15.8			0.476	20	
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Temperature °C	19.9		pH Units		19.9			0.00	200	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**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 3081737 - Filtration**

**Blank (3081737-BLK1)**

Prepared: 17-Aug-23 Analyzed: 18-Aug-23

TSS	ND	2.00	mg/L							
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**Duplicate (3081737-DUP1)**

Source: H234446-01

Prepared: 17-Aug-23 Analyzed: 18-Aug-23

TSS	1.00	2.00	mg/L		1.00			0.00	52.7	
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**Analytical Results For:**

ACE ENERGY ADVISORS 501 E. FRANK PHILLIPS BLVD. SUITE 201 BARTLESVILLE OK, 74003	Project: PILOT Project Number: NONE GIVEN Project Manager: NATE ALLEMAN Fax To:	Reported: 24-Aug-23 08:51
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**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B232484 - Total Recoverable by ICP**

**Blank (B232484-BLK1)**

Prepared: 22-Aug-23 Analyzed: 23-Aug-23

Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							

**LCS (B232484-BS1)**

Prepared: 22-Aug-23 Analyzed: 23-Aug-23

Sodium	1.67	1.00	mg/L	1.62		103	85-115			
Potassium	4.19	1.00	mg/L	4.00		105	85-115			
Strontium	2.06	0.100	mg/L	2.00		103	85-115			
Magnesium	10.4	0.100	mg/L	10.0		104	85-115			
Iron	2.04	0.050	mg/L	2.00		102	85-115			
Calcium	2.04	0.200	mg/L	2.00		102	85-115			
Barium	1.00	0.050	mg/L	1.00		100	85-115			

**LCS Dup (B232484-BSD1)**

Prepared: 22-Aug-23 Analyzed: 23-Aug-23

Potassium	4.20	1.00	mg/L	4.00		105	85-115	0.171	20	
Iron	2.01	0.050	mg/L	2.00		101	85-115	1.34	20	
Sodium	1.65	1.00	mg/L	1.62		102	85-115	1.35	20	
Calcium	2.03	0.200	mg/L	2.00		101	85-115	0.389	20	
Barium	1.01	0.050	mg/L	1.00		101	85-115	0.213	20	
Strontium	2.05	0.100	mg/L	2.00		103	85-115	0.286	20	
Magnesium	10.4	0.100	mg/L	10.0		104	85-115	0.372	20	

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Notes and Definitions

- 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*

Celey D. Keene, Lab Director/Quality Manager



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

501 E. Frank Phillips Blvd, Suite 201

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <u>Acc Energy Advisors</u> Project Manager: <u>Nate Allemann</u> Address: <u>501 E. Frank Phillips Blvd, Suite 201</u> City: <u>Barthesville</u> State: <u>OK</u> Zip: <u>74003</u> Phone #: <u>918-237-0559</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Pilot</u> Project Location: _____ Sampler Name: <u>Nate Allemann</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Acc Energy Advisors</u> Attn: <u>Nate Allemann</u> Address: <u>501 E. Frank Phillips Blvd, Suite 201</u> City: <u>Barthesville</u> State: <u>OK</u> Zip: <u>74003</u> Phone #: <u>918-237-0559</u> Fax #: _____	
Lab I.D. <u>H334446</u> Sample I.D. <u>NT</u> <u>1 L-06216-PODA</u> <u>2 L-04917</u> <u>3 L-06216</u>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV. SAMPLING DATE TIME
Relinquished By: <u>[Signature]</u> Relinquished Date: <u>8/17/23</u> Relinquished Time: <u>10:00</u>		Received By: <u>[Signature]</u> Received Date: _____ Received Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: <u>note. allemann @ accenergyadvisors.com</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>28.8</u> Corrected Temp. °C _____ Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) <u>[Signature]</u> Turnaround Time: _____ Thermometer ID #140 _____ Correction Factor 0°C _____ Standard <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/> _____ Bacteria (only) <input type="checkbox"/> <input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition: <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____		ANALYSIS REQUEST Cation/Anions Ba, Fe, Sr Resistivity Total Hardness TSS	

**Attachment 6**

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
August 24, 2023  
and ending with the issue dated  
August 24, 2023.



Publisher

Sworn and subscribed to before me this  
24th day of August 2023.



Business Manager

My commission expires  
January 29, 2027

(Seal)  
STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087526  
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

**LEGAL NOTICE**  
**August 24, 2023**  
Pilot Water Solutions SWD LLC, 20 Greenway Plaza, Suite 200, Houston, TX 77046, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for commercial saltwater injection into its Cannon SWD State #1. This will be a new well located 2,363' FNL & 1,271' FEL in Section 9 Township 19S Range 37E in Lea County, New Mexico. The purpose of the well is to inject produced water from permitted oil and gas wells in the area for commercial disposal into the San Andres formation at depths of 4,237' - 5,568' at a maximum surface injection pressure of 847 psi and a maximum injection rate of 25,000 barrels of water per day.  
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. Additional information may be obtained by contacting the operator contact, David Grounds, at 713-307-8752.  
#00281927

67117907

00281927

NATE ALLEMAN  
ACE ENERGY ADVISORS  
501 E. FRANK PHILLIPS BLVD.  
SUITE 201  
BARTLESVILLE, OK 74006

### Statement of Affected Person Notification

A copy of the C-108 application has been provided to the following Affected Persons as notification of the subject Application for Authorization to Inject (C-108).

Entity Name	Entity Address	Mailing Date
<b>Surface Owner</b>		
STATE LAND OFFICE	P.O. Box 1148, Santa Fe, NM 87504	09/01/2023
<b>Mineral Owners (BLM/SLO or Unleased Tracts)</b>		
STATE LAND OFFICE	P.O. Box 1148, Santa Fe, NM 87504	09/01/2023
<b>OCD District</b>		
OCD - DISTRICT 1	1625 N. French Drive, Hobbs, NM 88240	09/01/2023
<b>Applicable Affected Persons</b>		
SOUTHWEST ROYALTIES INC.	6 Desta Drive, Suite 2100 Midland, TX 79705	09/01/2023
CHEVRON USA INC.	6301 Deauville Blvd Midland, TX 79706	09/01/2023
OXY USA INC.	P.O. Box 50250 Midland, TX 797100250	09/01/2023
EOG RESOURCES, INC.	P.O. Box 2267 Midland, TX 79702	09/01/2023
OAKSPRING ENERGY HOLDINGS, LLC	3540 S. Boulevard, Suite 205 Edmond, OK 73012	09/01/2023
XTO HOLDINGS, LLC	22777 Springwoods Village Pkwy Spring, TX 77389	09/01/2023
J R OIL, LTD. CO.	PO Box 2975 Hobbs, NM 88241	09/01/2023
MISSION E&P PARTNERSHIP	1331 Lamar Suite 1455 Houston, TX 77010	09/01/2023

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Midland TX 79706-2964

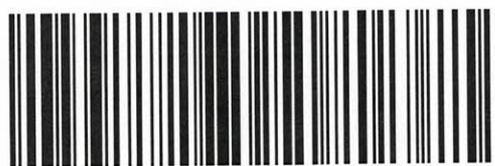
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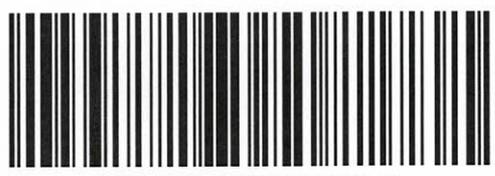
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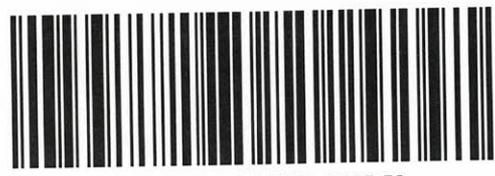
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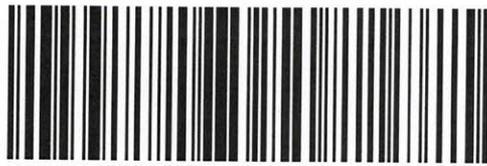


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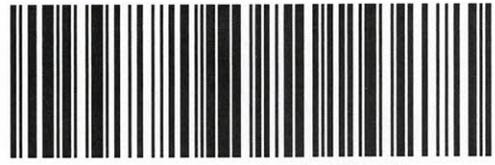
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