

# Initial Application Part I

Received 10/29/20

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



New Mexico Energy, Minerals, and Natural Resources Department  
Oil Conservation Division District II  
1220 S St. Francis Drive  
Santa Fe, NM 87505

Re: C-108 Application for Authorization to Inject  
Rev Midstream SWD #1, LLC  
AABCD #2  
788' FSL & 2,416' FWL  
Sec 31, T21S, R28E  
Eddy County, New Mexico

Attached for review is the Form C-108 application for administrative approval of Rev Midstream SWD #1, LLC's proposed AABCD #2 located in Section 31, Township 21S, Range 28E, Eddy County, New Mexico. In addition, Form C-102 is included.

Notices have been sent to all Affected Persons and Operators, as the affidavit of publication is also enclosed with the distribution list and proof of mailing. A copy of this application has also been sent to NM OCD District 2 in Artesia.

If you have any question, please contact us at (972) 510-7710 or [jwatkins@revmidstream.com](mailto:jwatkins@revmidstream.com).

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Josh Watkins', written over a white background.

Josh Watkins  
Manager  
Rev Midstream SWD #1, LLC

AHD5F-201029-C-1080

Revised March 23, 2017

RECEIVED: 10/29/20	REVIEWER:	TYPE: SWD	APP NO: pBL2030734512
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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:** Rev Midstream SWD #1, LLC **OGRID Number:** 330316  
**Well Name:** AABCD #2 **API:** TBA  
**Pool:** Devonian; SWD **Pool Code:** \_\_\_\_\_

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

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

SWD-2400

- 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.**

Josh Watkins \_\_\_\_\_  
Print or Type Name

  
 \_\_\_\_\_  
 Signature

10/12/2020  
Date

972-510-7710  
Phone Number


jwatkins@revmidstream.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: **Rev Midstream SWD #1, LLC**  
ADDRESS: **P.O. Box 12878 Oklahoma City, OK 73157**  
CONTACT PARTY: **Josh Watkins** PHONE: **(972) 510-7710**
- 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? **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: **Josh Watkins** TITLE: **Regulatory Manager**  
SIGNATURE:  DATE: **10/01/2020**  
E-MAIL ADDRESS: **jwatkins@revmidstream.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: \_\_\_\_\_

Side 2

## III. WELL DATA

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

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

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

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

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

## XIV. PROOF OF NOTICE

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

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

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

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

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

### INJECTION WELL DATA SHEET

OPERATOR: **Rev Midstream SWD #1, LLC**

WELL NAME & NUMBER: **AABCD #2**

WELL LOCATION:	<b>788' FSL &amp; 2,416 FWL</b>	<b>N</b>	<b>31</b>	<b>21S</b>	<b>28E</b>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: <b>26"</b>	Casing Size: <b>18-5/8"</b>
Cemented with:	<i>or</i> <b>988.3 ft<sup>3</sup></b>
Top of Cement: <b>Surface</b>	Method Determined: <b>Calculated</b>

Intermediate Casing

Hole Size: <b>17-1/2"</b>	Casing Size: <b>13-3/8"</b>
Cemented with:	<i>or</i> <b>1912.3 ft<sup>3</sup></b>
Top of Cement: <b>Surface</b>	Method Determined: <b>Calculated</b>

Intermediate Casing

Hole Size: <b>12-1/4"</b>	Casing Size: <b>9-5/8"</b>
Cemented with:	<i>or</i> <b>3009.8 ft<sup>3</sup></b>
Top of Cement: <b>Surface</b>	Method Determined: <b>Calculated</b>

Production Casing

Hole Size: **8-1/2"**

Casing Size: **7"**

Cemented with:

*or* **393.5 ft<sup>3</sup>**

Top of Cement: **Surface**

Method Determined: **Calculated**

Total Depth: **13,750'**

Injection Interval

**12,625 feet To 13,650 feet**

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: **5.5" x 4.5" IPC Tubing**

Lining Material: **Duoline**

Type of Packer: **7-5/8" x 3-1/2" Tryton TX-8 (Nickel-Plated)**

Packer Setting Depth: **12,500'**

Other Type of Tubing/Casing Seal (if applicable): **N/A**

Additional Data

1. Is this a new well drilled for injection? **Yes**

If no, for what purpose was the well originally drilled? **N/A**

2. Name of the Injection Formation: **Devonian – Open Hole Completion**

3. Name of Field or Pool (if applicable): **Devonian**

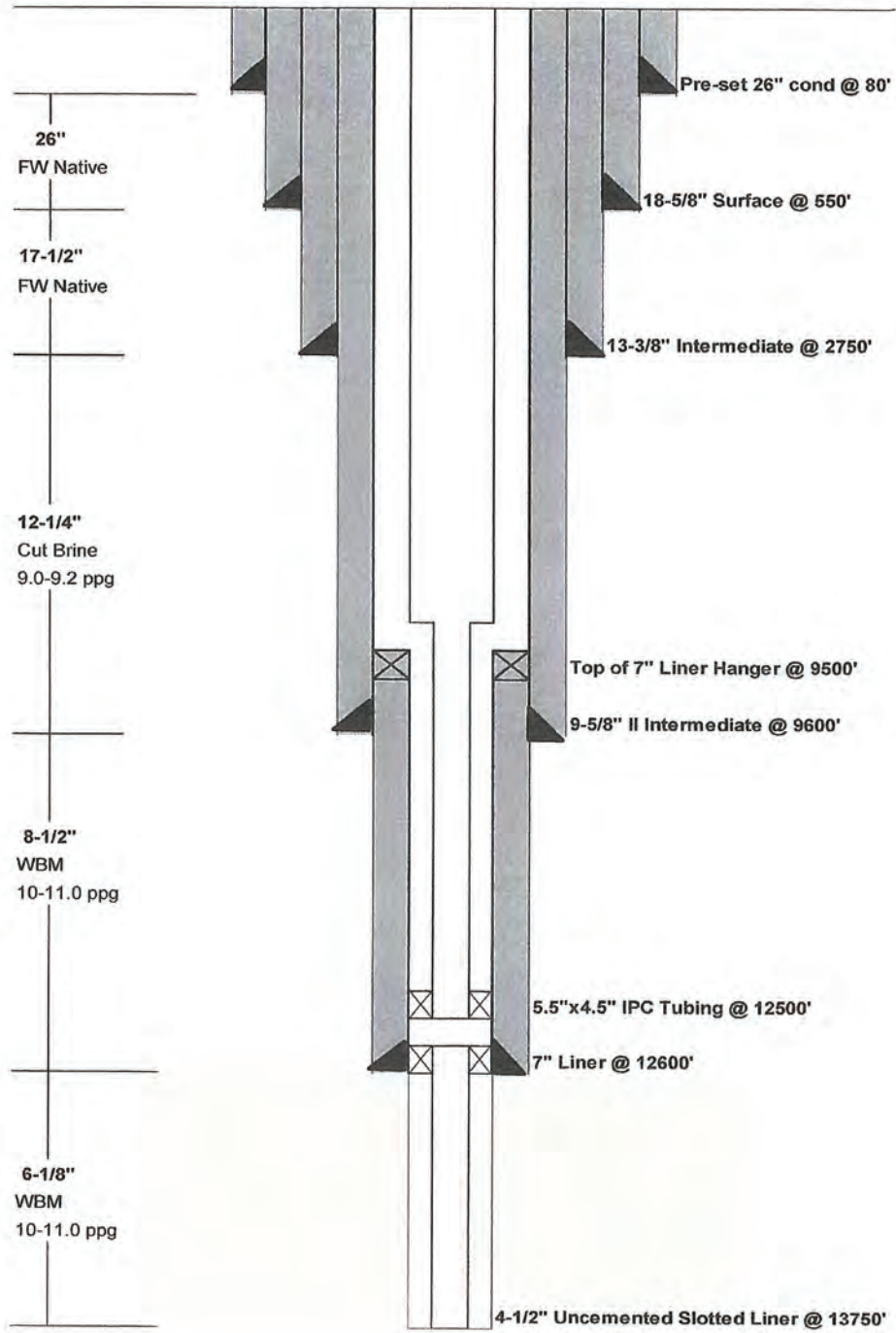
4. Has the well ever been perforated in any other zone(s)? **No**

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Potential overlying productive zone tops - **Estimated: Capitan (1,120'), Delaware (2,841'), Bone Spring (5,895'), Wolfcamp (9,388'), Strawn (10,510'), Atoka (10,912'), Morrow (11,408'), Barnett (12,112'), Woodford Shale (12,231')**

Underlying – **N/A**





### III. Well Data

#### A. Wellbore Information

1. Operator: **Rev Midstream SWD #1, LLC**

Lease Name and Number: **AABCD #2**

Location: **S31-T21S-R28E, 788' FSL, 2,416' FWL**

2. Surface Casing: **(18-5/8", 87.5#, J-55, LTC)** will be set at 550' in a 26" hole with cement **988.3 ft<sup>3</sup>**

Intermediate Casing: **(13-3/8", 68#, J-55, LTC)** will be set at 2,750' in a 17-1/2" hole with cement **1912.3 ft<sup>3</sup>**

Intermediate Casing: **(9-5/8", 53.5#, J-55, LTC)** will be set at 9,600' in a 12-1/4" hole with cement **3009.8 ft<sup>3</sup>**

Production Casing: **(7", 29#, J-55, LTC)** will be set at 12,600' in an 8-1/2" hole with cement **393.5 ft<sup>3</sup>**

A 6-1/8" open hole will be drilled to 13,750'.

3. Tubing to be used (size, lining material, setting depth):

<b>Tubing Size</b>	<b>Set Depth</b>
5-1/2", 17#, P-110 IPC	12,500'
4-1/2, 13.5#, P-110 IPC	12,500' – 13,750'

4. Packer Description:

**7-5/8" x 3-1/2" Tryton TX-8 (Nickel-Plated) @ 12,500'**

#### B. Completion Information

1. Injection Formation: **Devonian-Silurian**
2. Injection Interval: **12,625' – 13,650' with an Open-Hole Completion**
3. Purpose: **A new drill for a Saltwater Disposal Well.**
4. Perforated Intervals: **None**
5. Oil and Gas Bearing Zones within the area of the well:

Formation	Depth
Capitan	1,120
Delaware	2,841'
Bone Spring	5,895'
Wolfcamp	9,388'
Strawn	10,510'
Atoka	10,912'
Morrow	11,408'
Barnett	12,112'
Woodford Shale	12,231'

\*There are no known oil and gas zones beneath the proposed injection zone.

#### V. Wells and Leases within One and Two Miles

*(Please See Attachment #1)*

**(Form C-102 included)**

#### VI. Area of Review

There are no wells within the area of review that penetrate the proposed injection zone.

#### VII. Proposed Operation Data

1. Average injection rate volume = **38,000 BPD**  
Maximum injection rate volume = **45,000 BPD**
2. The system will be open and closed.
3. Average injection pressure = **1880 PSI**  
Maximum injection pressure = **2,520 PSI**
4. The disposal water being injected will be produced water, including waters from the Atoka, Bone Springs, Delaware, Morrow, and Wolfcamp. Listed below is a table of TDS range within the area of the proposed SWD. *(Please see Attachment #2)*

Formation	TDS range (mg/l)
Atoka	31910 - 50026
Bone Springs	129393 - 271010

Delaware	116786 – 250530
Morrow	62522 - 92700
Wolfcamp	13902 – 86367

- We will be injecting into the Devonian formation. The disposal interval is non-productive. No Devonian water analysis are available within the immediate area due to no disposal wells being located neither 1 nor 2 miles of the proposed well.

### VIII. Geological Data

The characteristics found during the analysis of the proposed injection zone are as follows:

The thickness of the Devonian-Silurian formation is estimated between 1,200 - 1,300 feet. Found at the proposed injection site is porous dolomite and mixes of limestone and grainstone textures. Most of the porosity found is in the coarse crystalline cherty dolomite. The Devonian-Silurian formation is well suited for salt water disposal purposes, with a low permeability shale barrier overlying the injection interval to prevent upward fluid migrations. There is a large injection depth range available which will allow for low injection pressures at high injection rates. An approximate depth of the Devonian-Silurian is 12,600 feet.

According to the New Mexico Office of the State Engineer, fresh water is indicated in the Salado and Quaternary, at depths less than 300'. Shallow fresh water is known to exist at depths less than 300' in this region. There are no fresh water sources that are known to exist underlying the proposed disposal zone.

### IX. Proposed Stimulation Program

The well will be stimulated with an estimated 45,000 gallon HCl 152 acid job.

### X. Logging & Test Data

A neutron/gamma ray log will be run from surface to TD upon well completion with all logs being submitted to the New Mexico Oil Conservation Division upon completion.

### XI. Chemical Analysis of Fresh Water Wells

According to the New Mexico Office of the State Engineer, there are three *inactive* fresh water wells within a one-mile radius of the proposed well. (Please see Attachment #3)

## **XII. Affirmative Statement**

*(Please see Attachment #4)*

Snee and Zoback (2018) published “State of Stress in the Permian Basin, Texas and New Mexico” regarding the fault slip potential of fault traces. The disposal well’s proposed location consists of relative low faulting, and seismic activity. A fault-slip event is highly improbable. *(Please see Attachment #5)* which illustrates published findings along with the proposed well highlighted in blue.

Currently posted on the U.S. Geological Survey (USGS) website, a map depicts the chance of damage from an earthquake at less than 1% within the area of review. *(Please see Attachment #6)*

### **United States Geological Survey 15 KM Seismic Event Search (1900 – 2019)**

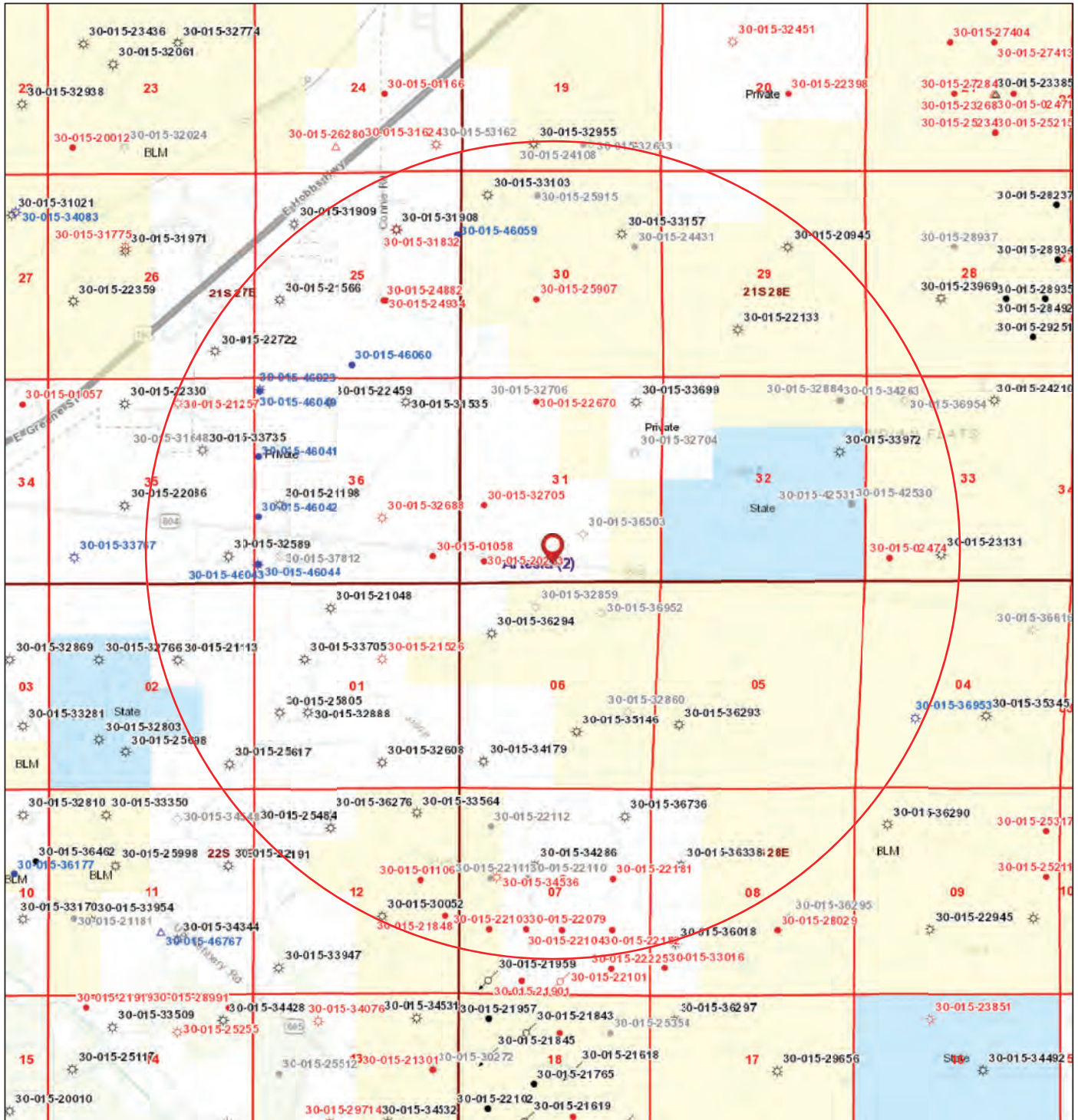
Between the years of 1900 – 2020, one seismic event at magnitude 2.0+ was found within a 9-mile radius of the proposed well. *(Please see Attachment #7)*

## **XIII. Proof of Notice**

*(Please see Attachment #8)*

*(Please see Attachment #9)*

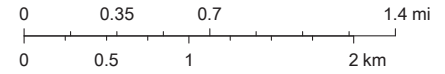
# AABCD #2, Eddy County, New Mexico, 2 Mile Radius



10/3/2020, 2:25:31 PM

1:36,112

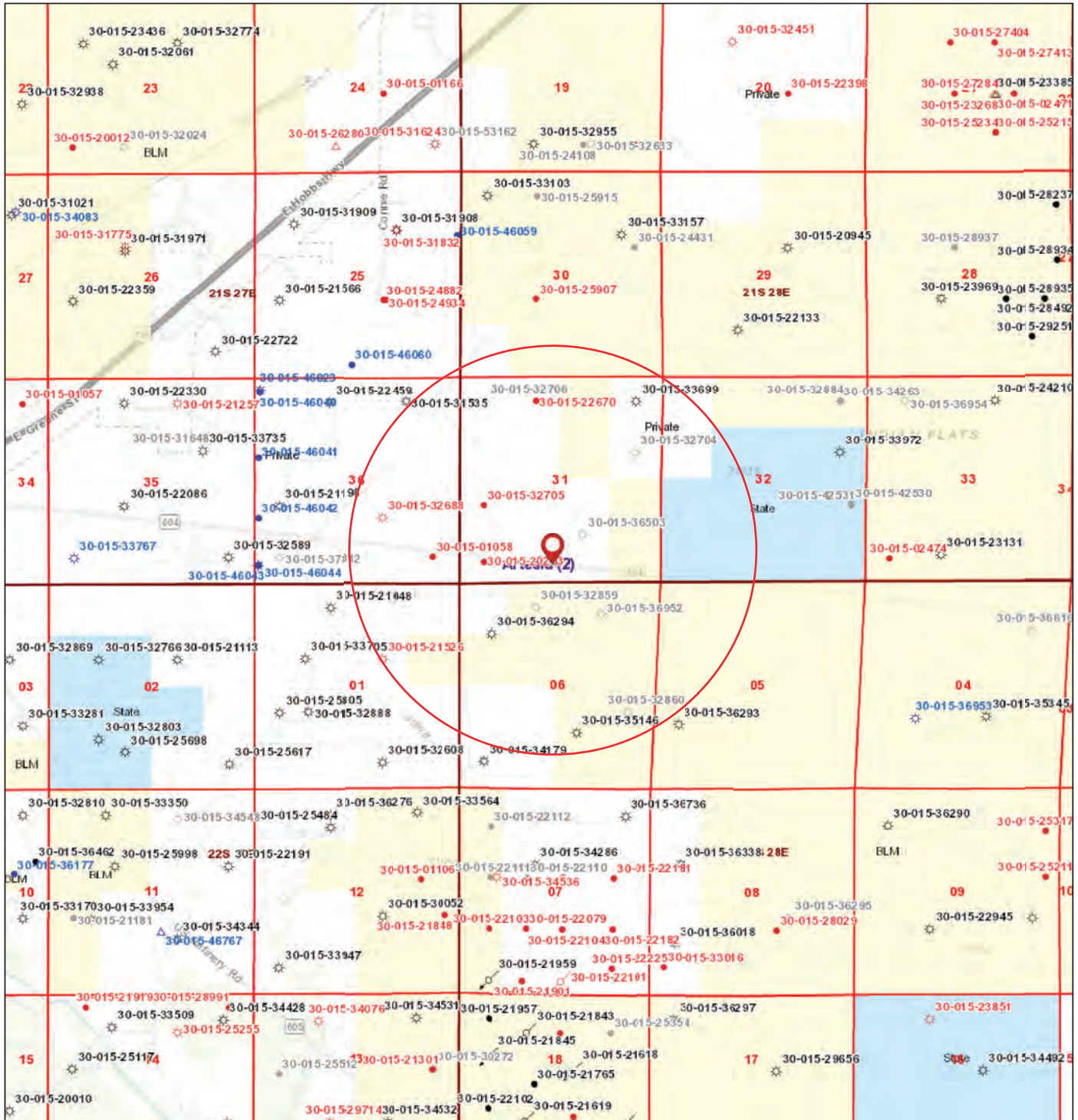
- |                            |                                  |   |
|----------------------------|----------------------------------|---|
| Wells - Large Scale        | Injection, Cancelled             | Salt Water Injection, Temporarily Abandoned |
| undefined                  | Injection, New                   | Water, Active                               |
| Miscellaneous              | Injection, Plugged               | Water, Cancelled                            |
| CO2, Active                | Injection, Temporarily Abandoned | Water, New                                  |
| CO2, Cancelled             | Oil, Active                      | Water, Plugged                              |
| CO2, New                   | Oil, Cancelled                   | Water, Temporarily Abandoned                |
| CO2, Plugged               | Oil, New                         | OCD Districts                               |
| CO2, Temporarily Abandoned | Oil, Plugged                     | OCD District Offices                        |
| Gas, Active                | Oil, Temporarily Abandoned       | PLSS First Division                         |
| Gas, Cancelled             | Salt Water Injection, Active     | PLSS Townships                              |
| Gas, New                   | Salt Water Injection, Cancelled  | Land Ownership                              |
| Gas, Plugged               | Salt Water Injection, New        | BLM   |
| Gas, Temporarily Abandoned | Salt Water Injection, Plugged    | BOR   |
| Injection, Active          |                                  | DOD   |



(No active saltwater disposal wells in buffer)

U.S. BLM, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

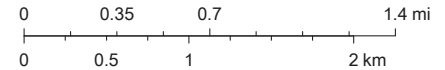
# AABCD #2, Eddy County, New Mexico, 1 Mile Area of Review



10/3/2020, 2:32:22 PM

1:36,112

- |                            |                                  |   |
|----------------------------|----------------------------------|---|
| Wells - Large Scale        | Injection, Cancelled             | Salt Water Injection, Temporarily Abandoned |
| undefined                  | Injection, New                   | Water, Active                               |
| Miscellaneous              | Injection, Plugged               | Water, Cancelled                            |
| CO2, Active                | Injection, Temporarily Abandoned | Water, New                                  |
| CO2, Cancelled             | Oil, Active                      | Water, Plugged                              |
| CO2, New                   | Oil, Cancelled                   | Water, Temporarily Abandoned                |
| CO2, Plugged               | Oil, New                         | OCD Districts                               |
| CO2, Temporarily Abandoned | Oil, Plugged                     | OCD District Offices                        |
| Gas, Active                | Oil, Temporarily Abandoned       | PLSS First Division                         |
| Gas, Cancelled             | Salt Water Injection, Active     | PLSS Townships                              |
| Gas, New                   | Salt Water Injection, Cancelled  | Land Ownership                              |
| Gas, Plugged               | Salt Water Injection, New        | BOR   |
| Gas, Temporarily Abandoned | Salt Water Injection, Plugged    | DOD   |
| Injection, Active          |                                  |   |



U.S. BLM, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

AABCD #2  
1 Mile Area of Review List  
NMOCD (2020)

API	WELL NAME	WELL TYPE	STATUS	OGRID	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	ASSOCIATED POOLS
30-015-32688	AUSTIN 36 STATE #002	G	P	15445	EOG M RESOURCES, INC.	12143	32.4338417	-104.1409149	3-Apr-03	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-21526	WILSON GAS COM #001	G	P	25078	WHITING OIL AND GAS CORPORATION	99999	32.4238586	-104.1409454	31-Dec-99	[74160] CARLSBAD, WOLF CAMP, EAST (GAS)
30-015-01058	PRE-ONGARD WELL #001	D	P	214263	PRE-ONGARD WELL OPERATOR	0	32.4311218	-104.1366577	1-Jan-00	No Data
30-015-32705	JUNEAU 31 FEE COM #001	D	P	260737	BOPCO, L.P.	12237	32.4347687	-104.1323547	27-May-09	[73920] CARLSBAD, MORROW, EAST (GAS); [74080] CARLSBAD, STRAWN, EAST (GAS); [96144] CARLSBAD, BONE SPRING, EAST; [97804] WC-015 G-02 S212831L, DELAWARE
30-015-32706	JUNEAU 31 FEE COM #002	G	C	15445	EOG M RESOURCES, INC.	0	32.44212442	-104.1322994	31-Dec-99	No Data
30-015-20253	PRE-ONGARD WELL #031	D	P	214263	PRE-ONGARD WELL OPERATOR	0	32.4307938	-104.1323776	1-Jan-00	No Data
30-015-36294	INDIAN DRAW 6 FEDERAL COM #002	G	A	6137	DEVON ENERGY PRODUCTION COMPANY, LP	12315	32.4256744	-104.1317368	31-Aug-08	[73920] CARLSBAD, MORROW, EAST (GAS); [73960] CARLSBAD, MORROW, SOUTH (GAS)
30-015-22670	PRE-ONGARD WELL #065	D	P	214263	PRE-ONGARD WELL OPERATOR	0	32.4421349	-104.1280289	1-Jan-00	No Data
30-015-32859	BIG EDDY UNIT #147	G	C	1801	BEPCO, L.P.	0	32.42758084	-104.1280783	31-Dec-99	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-36952	BIG EDDY UNIT #245E	G	C	260737	BOPCO, L.P.	0	32.42711154	-104.1225909	31-Dec-99	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-36503	BIG EDDY UNIT #204E	G	C	260737	BOPCO, L.P.	0	32.43269118	-104.1240891	31-Dec-99	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-35146	BIG EDDY UNIT #148	G	A	373075	XTO PERMIAN OPERATING LLC.	12400	32.4186592	-104.1246414	26-Mar-07	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-32860	BIG EDDY UNIT #148E	G	C	1801	BEPCO, L.P.	0	32.42009623	-104.1203004	31-Dec-99	[73920] CARLSBAD, MORROW, EAST (GAS)
30-015-33699	PANTHER CITY 31 FEE COM #001	G	A	7377	EOG RESOURCES INC	12202	32.4421539	-104.1196136	29-Jan-05	[73920] CARLSBAD, MORROW, EAST (GAS); [74080] CARLSBAD, STRAWN, EAST (GAS)
30-015-32704	PANTHER CITY 31 FEE COM #001	G	C	15445	EOG M RESOURCES, INC.	0	32.43852287	-104.1197219	31-Dec-99	No Data



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name Devonian; SWD
<sup>4</sup> Property Code	<sup>5</sup> Property Name AABCD	
<sup>7</sup> OGRID No. 330316	<sup>8</sup> Operator Name Rev Midstream SWD #1, LLC	<sup>6</sup> Well Number #2
		<sup>9</sup> Elevation 3131'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	31	21S	28E		788	South	2,416	West	Eddy

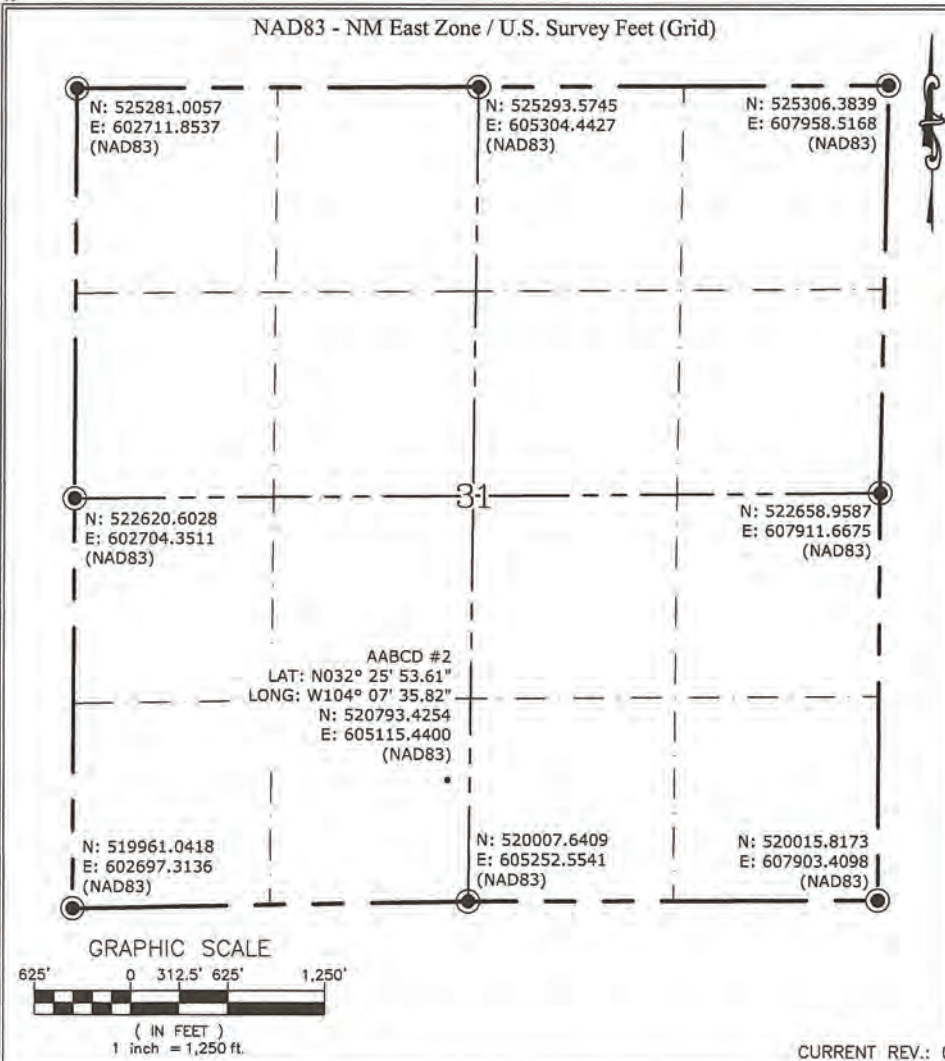
<sup>11</sup> Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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.

<sup>16</sup>



**<sup>17</sup> OPERATOR CERTIFICATION**

*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.*

10/01/2020  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Printed Name Josh Watkins  
 E-mail Address jswatkins@revmidstream.com

---

**<sup>18</sup> SURVEYOR CERTIFICATION**

*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.*

09-23-20  
Date of Survey

Signature and Seal of Professional Surveyor:

25344  
Certificate Number

CURRENT REV.: 0

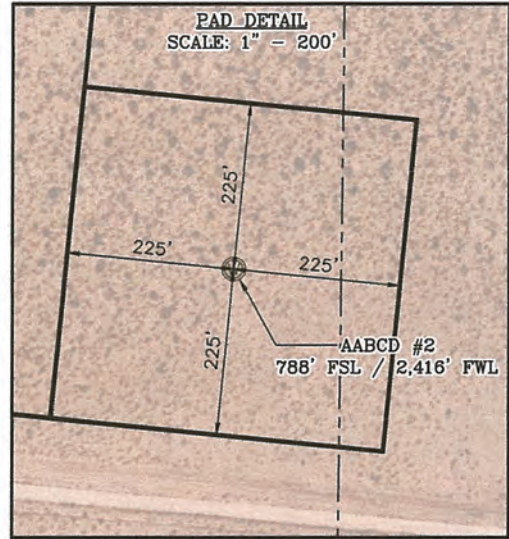
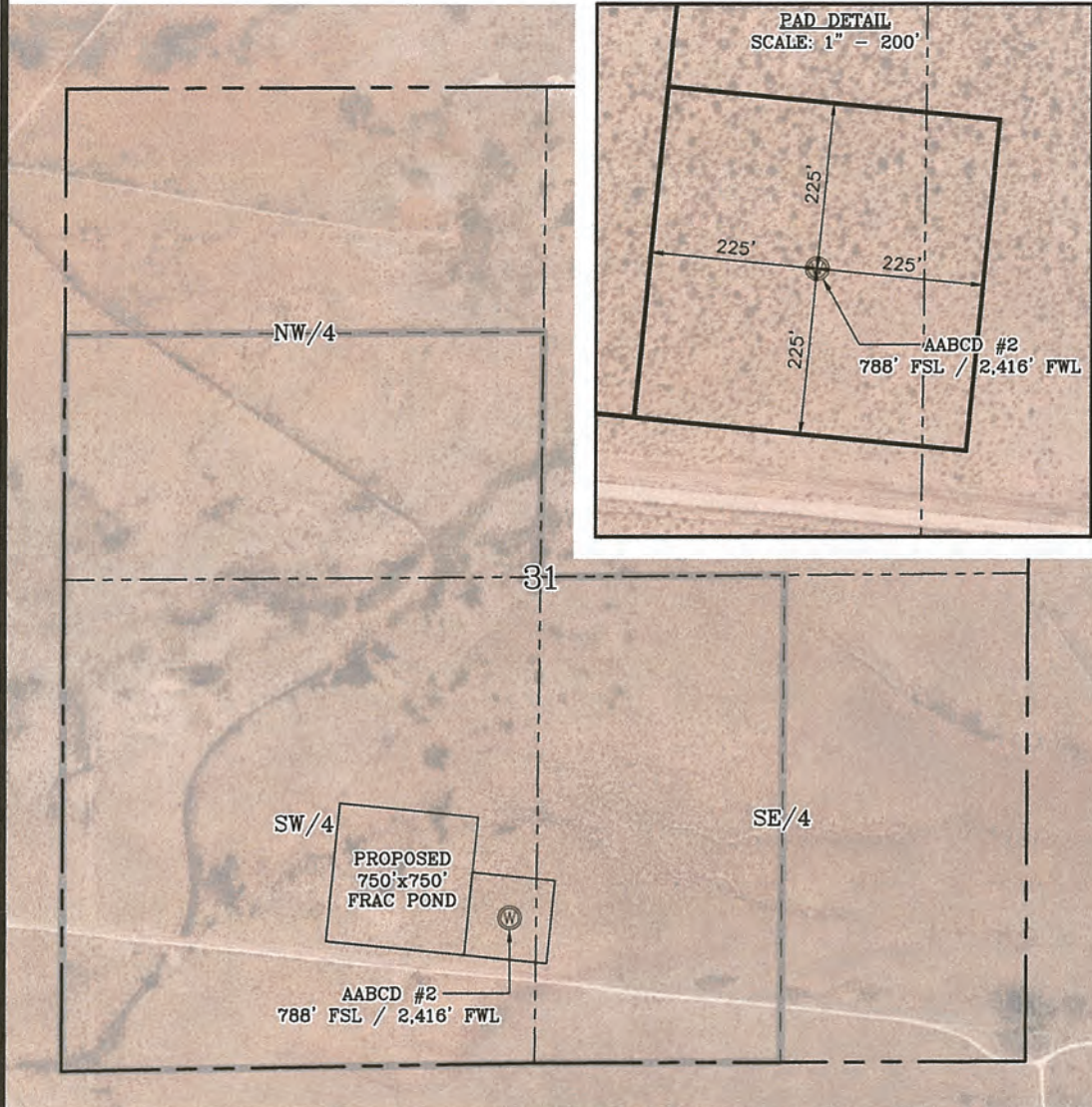
# Form C-102

**TABLE OF QUANTITIES**

FOOTAGE = N/A  
 PERMANENT EASEMENT = N/A  
 TEMPORARY EASEMENT = N/A  
 PAD SITE = 450'x450' / ±4.66 ACRES  
 FRAC POND = 750'x750' / ±12.91 ACRES

## EXHIBIT "A"

MASON OAKS ENERGY, LLC  
 PART OF THE  
 S/2 SEC 31-T21S-R28E, N.M.P.M.  
 EDDY COUNTY, NEW MEXICO



**LEGEND**

- PROPOSED PAD SITE
- SUBJECT PROPERTY
- SECTION LINE
- 1/4 SECTION LINES
- 1/4 1/4 SECTION LINES



1. THIS SURVEY DOES NOT GUARANTEE TITLE OR OWNERSHIP.
2. BEARINGS BASED ON GRID NORTH, NEW MEXICO STATE PLANE COORDINATE SYSTEM, NAD83 EAST ZONE (3001).
3. DISTANCES: U.S. SURVEY FEET (GRID)



<b>AABCD #2</b>			
DRAWN BY	MWC	SCALE	1" = 800'
APPROVED BY	JAS	SHEET	1 OF 1
DATE ISSUED	09-23-20	REV. No.	00

Map of Produced Water Sample Locations

USGS Basemaps Explanation Filter More info / download complete dataset

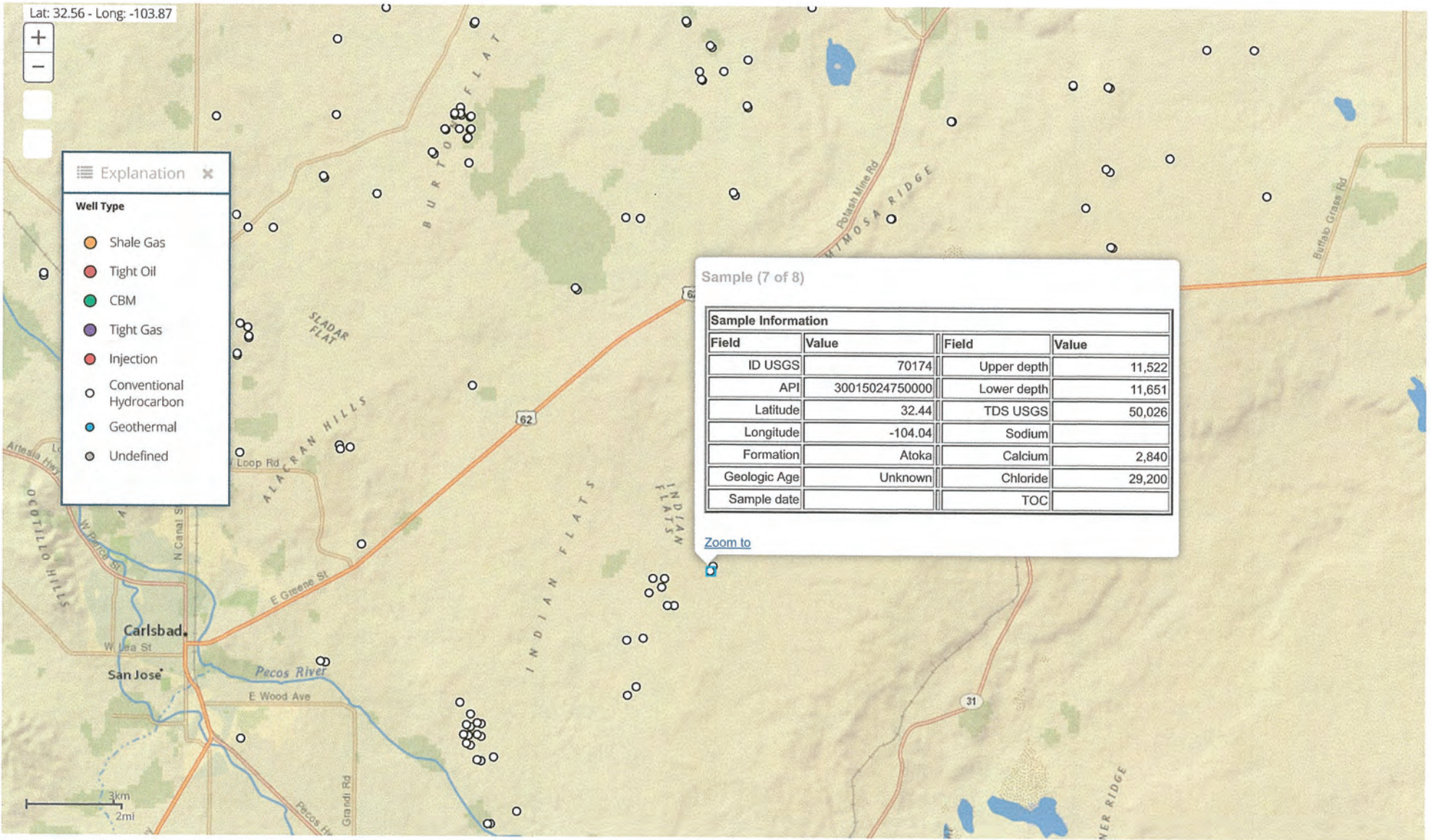
Lat: 32.56 - Long: -103.87



Explanation

**Well Type**

- Shale Gas
- Tight Oil
- CBM
- Tight Gas
- Injection
- Conventional Hydrocarbon
- Geothermal
- Undefined



Sample (7 of 8)

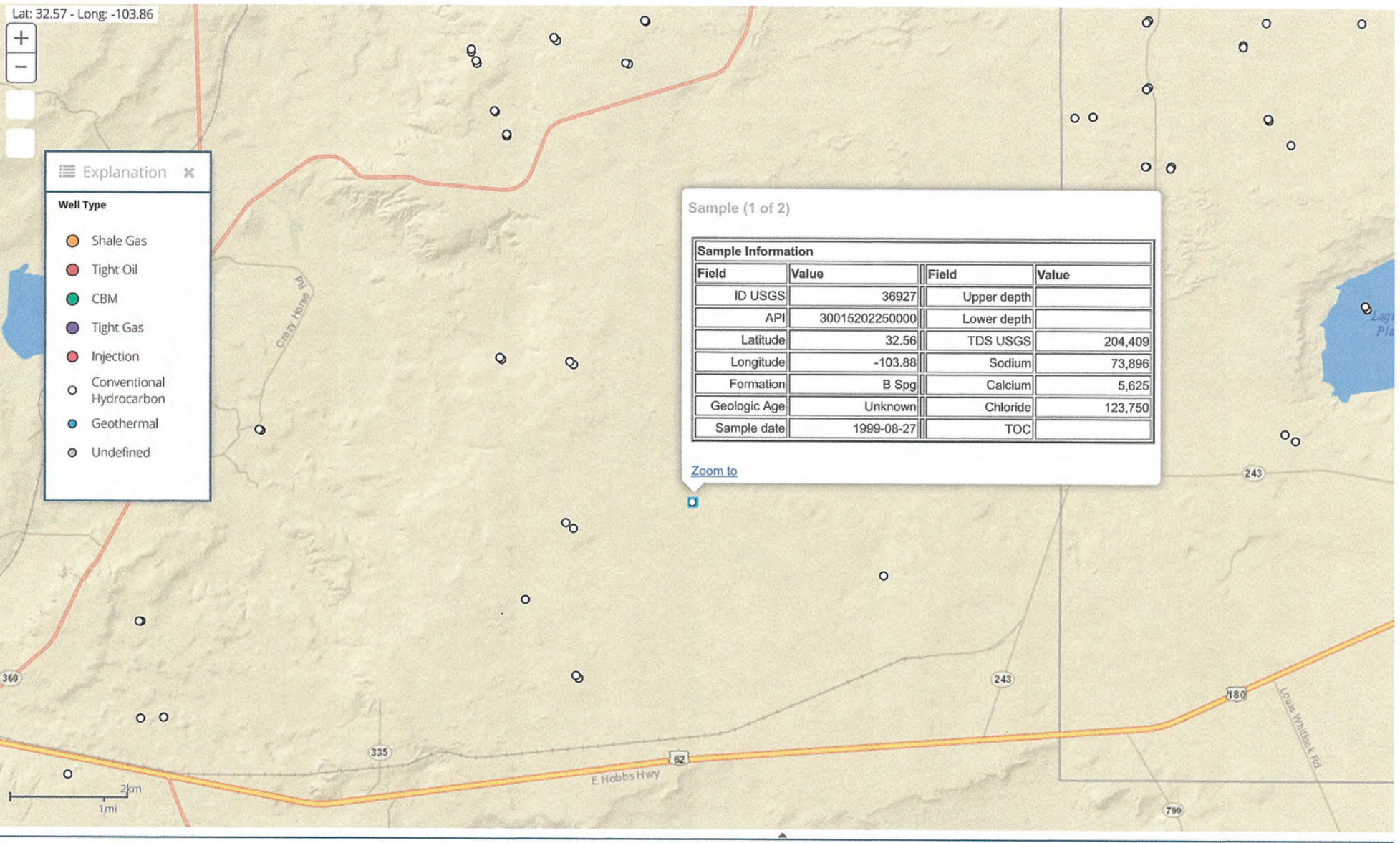
Sample Information			
Field	Value	Field	Value
ID USGS	70174	Upper depth	11,522
API	30015024750000	Lower depth	11,651
Latitude	32.44	TDS USGS	50,026
Longitude	-104.04	Sodium	
Formation	Atoka	Calcium	2,840
Geologic Age	Unknown	Chloride	29,200
Sample date		TOC	

[Zoom to](#)

No Filter: 246 of 103,910 features visible.

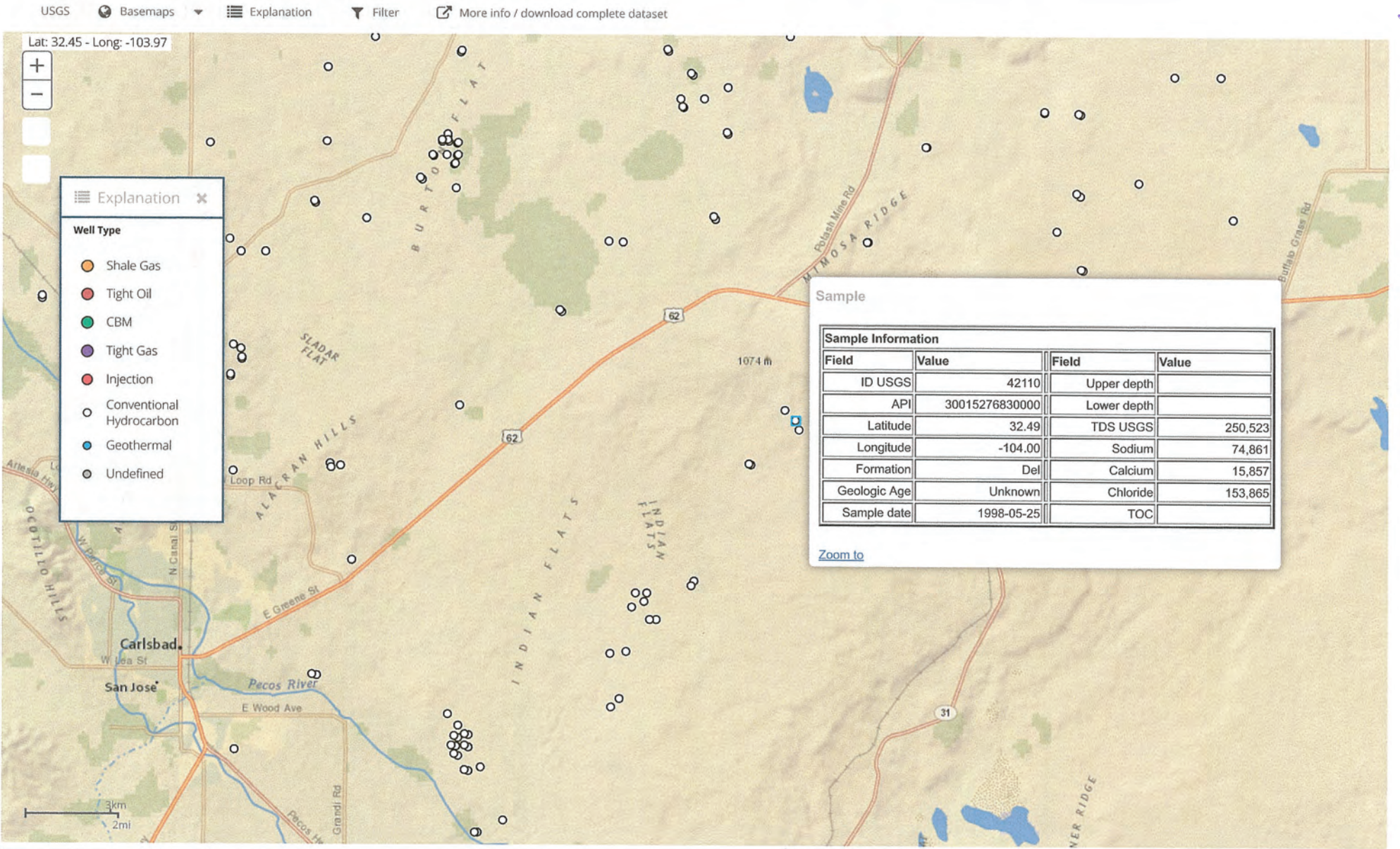
Map of Produced Water Sample Locations

USGS Basemaps Explanation Filter More info / download complete dataset



No Filter: 139 of 103,910 features visible.

Map of Produced Water Sample Locations



No Filter: 246 of 103,910 features visible.

Map of Produced Water Sample Locations

USGS Basemaps Explanation Filter More info / download complete dataset

Lat: 32.40 - Long: -104.02

Explanation

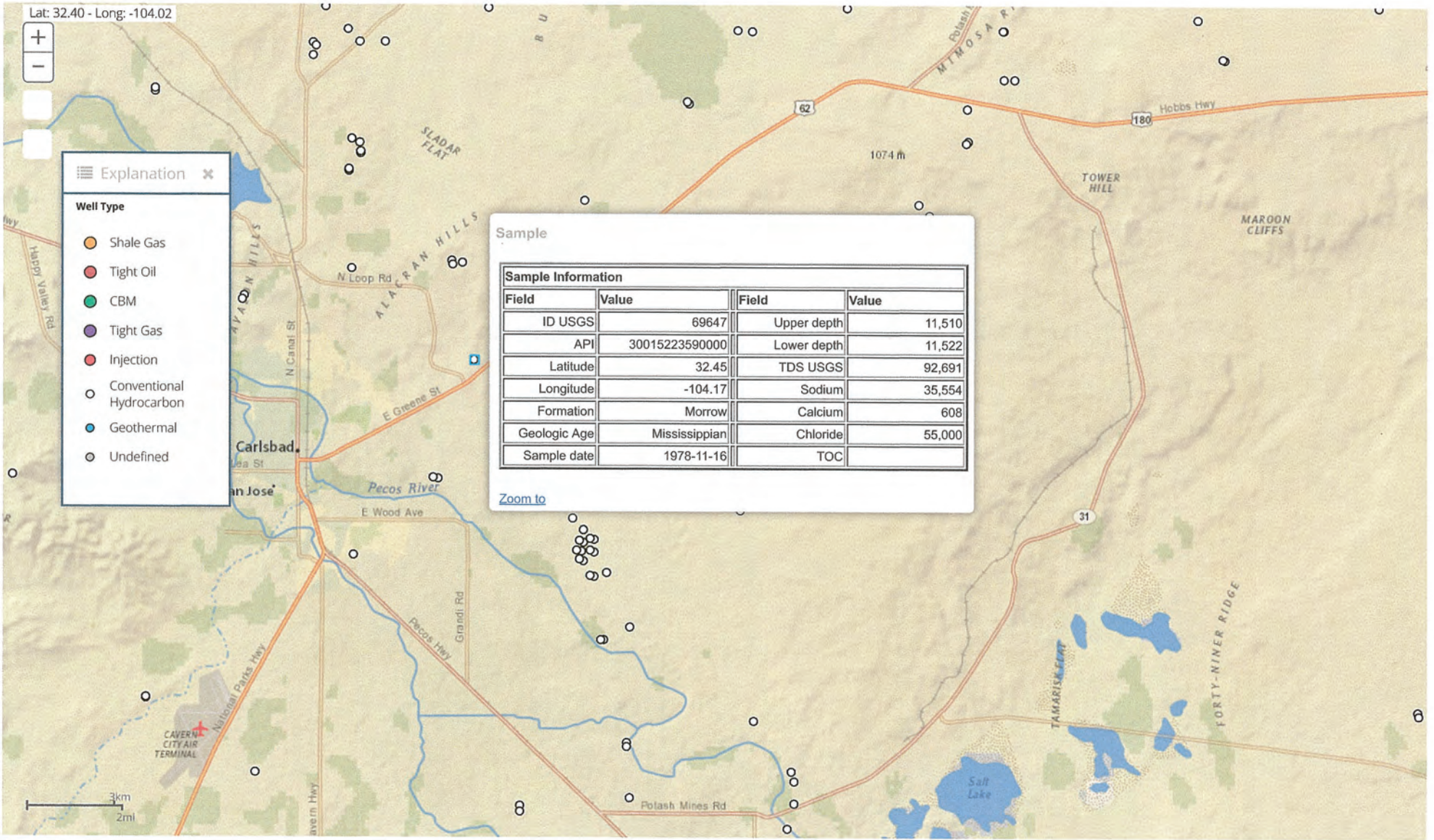
**Well Type**

- Shale Gas
- Tight Oil
- CBM
- Tight Gas
- Injection
- Conventional Hydrocarbon
- Geothermal
- Undefined

Sample

Sample Information			
Field	Value	Field	Value
ID USGS	69647	Upper depth	11,510
API	30015223590000	Lower depth	11,522
Latitude	32.45	TDS USGS	92,691
Longitude	-104.17	Sodium	35,554
Formation	Morrow	Calcium	608
Geologic Age	Mississippian	Chloride	55,000
Sample date	1978-11-16	TOC	

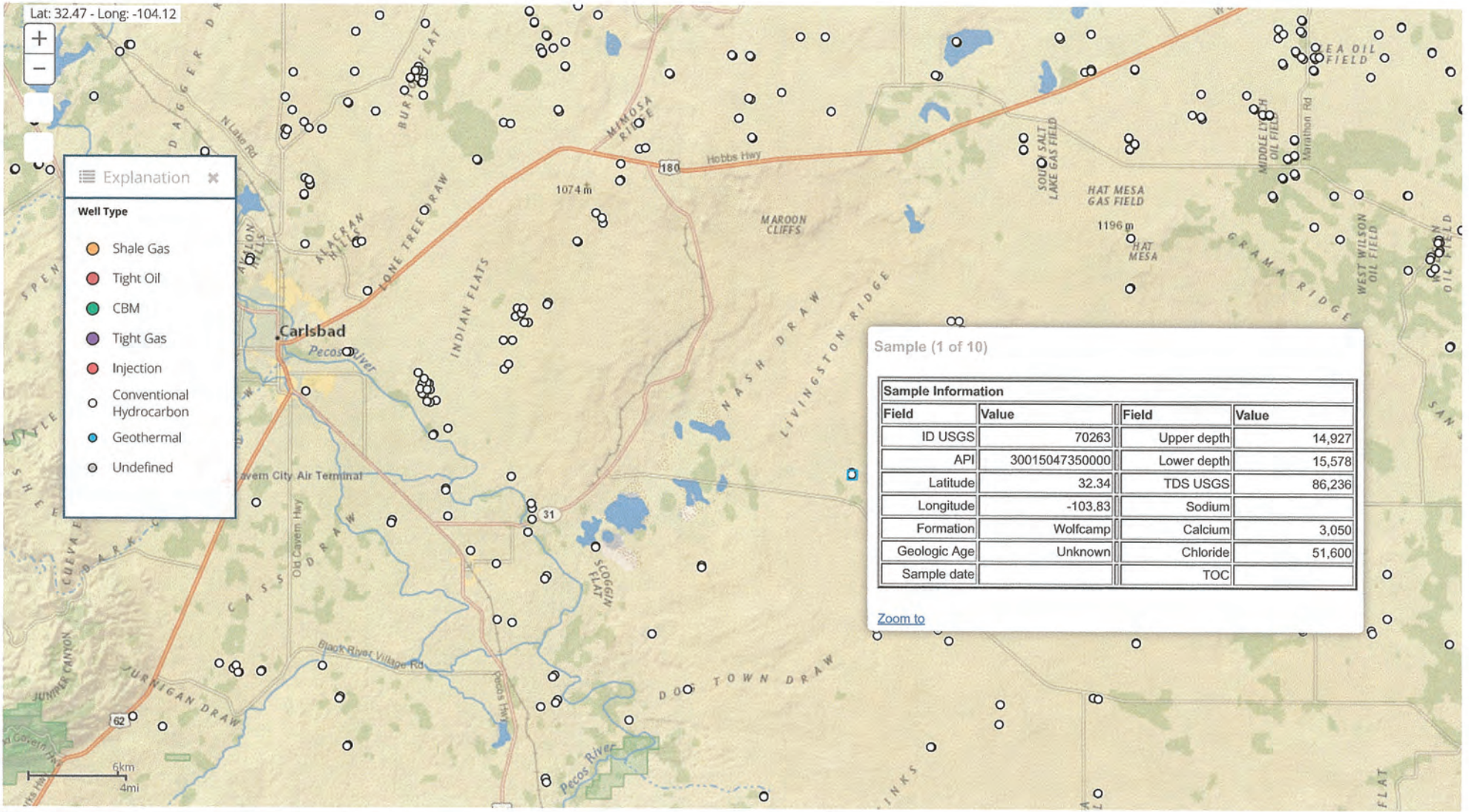
[Zoom to](#)



No Filter: 183 of 103,910 features visible.

Map of Produced Water Sample Locations

USGS Basemaps Explanation Filter More info / download complete dataset



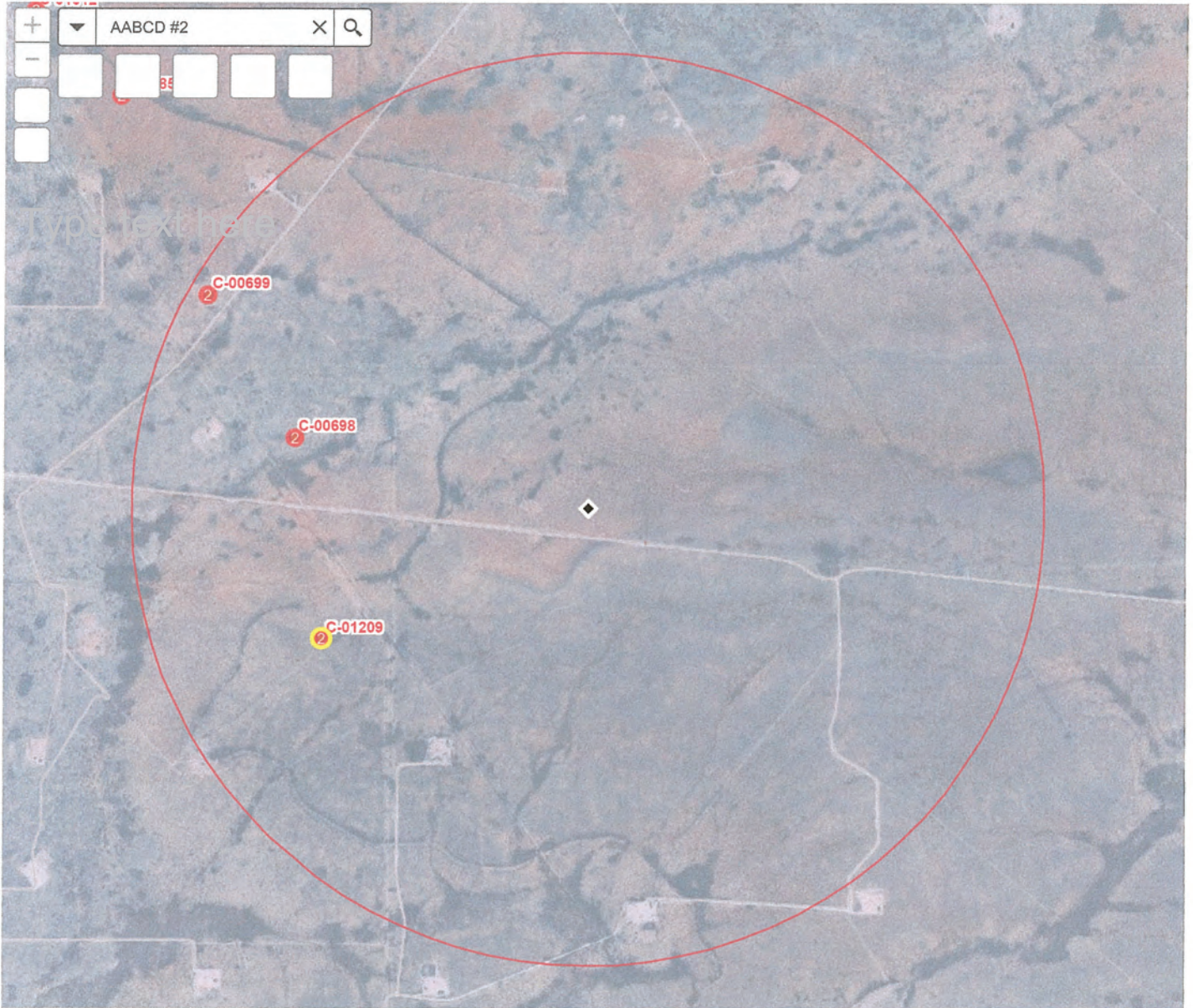
No Filter: 985 of 103,910 features visible.



### OSE POD Locations

Points of Diversion visible at 1:19,000 with 1,000 features per view

Water Rights Look Up



1.18055  
0.3mi  
-104.09432429 Degrees





# New Mexico Office of the State Engineer

## Water Right Summary



[get image list](#)

**WR File Number:** C 00699      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING  
**Primary Status:** EXP EXPIRED  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Owner:** PAUL BOND  
**Owner:** DAMON BOND

**Documents on File**

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">get images</a> 462773	72121	1956-05-08	EXP	EXP	C 00699	T		3	

**Current Points of Diversion**

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	X	Y	Other Location Desc
<u>C 00699</u>			64Q16Q4Sec 3 2 36 21S 27E	580760	3589349*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/17/20 5:35 PM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer Water Right Summary



[get image list](#)

**WR File Number:** C 00698      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** PAUL BOND  
**Owner:** DAMON BOND

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">get images</a> 462761	72121	1956-05-08	PMT	APR	C 00698	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc
			64Q16Q4Sec	Tws	Rng				
<u>C 00698</u>			3 2 4 36	21S	27E	581067	3588849*		

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/17/20 5:02 PM

WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer Water Right Summary



[get image list](#)

**WR File Number:** C 01209      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** DANIEL MUNOZ

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
<a href="#">get images</a> 462705	72121	1964-07-21	PMT	APR	C 01209	T		3	

### Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc	
			64	Q16	Q4	Sec	Tws	Rng		X
<u>C 01209</u>		Shallow	2	2	01	22S	27E	581173	3588142*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/17/20 5:35 PM

WATER RIGHT SUMMARY

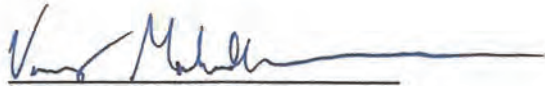
AABCD #2  
 Eddy County, New Mexico  
 1-Mile Water Well Review

displayName	use	use_of_well	status	pod_status	own_lname	own_fname	depth_well	depth_water	distance_to_center	utm_easting	utm_northing	start_date	finish_date
C 01209	DOM	null	PMT	PEN	MUNOZ	DANIEL	150	null	0.65	581173	3588142	Wed Dec 31 1969	Wed Dec 31 1969
C 00698	DOL	null	PMT	PEN	BOND	PAUL	null	null	0.665	581067	3588849	Wed Dec 31 1969	Wed Dec 31 1969
C 00699	DOL	null	EXP	PEN	BOND	PAUL	null	null	0.957	580760	3589349	Wed Dec 31 1969	Wed Dec 31 1969

## XII. Affirmative Statement

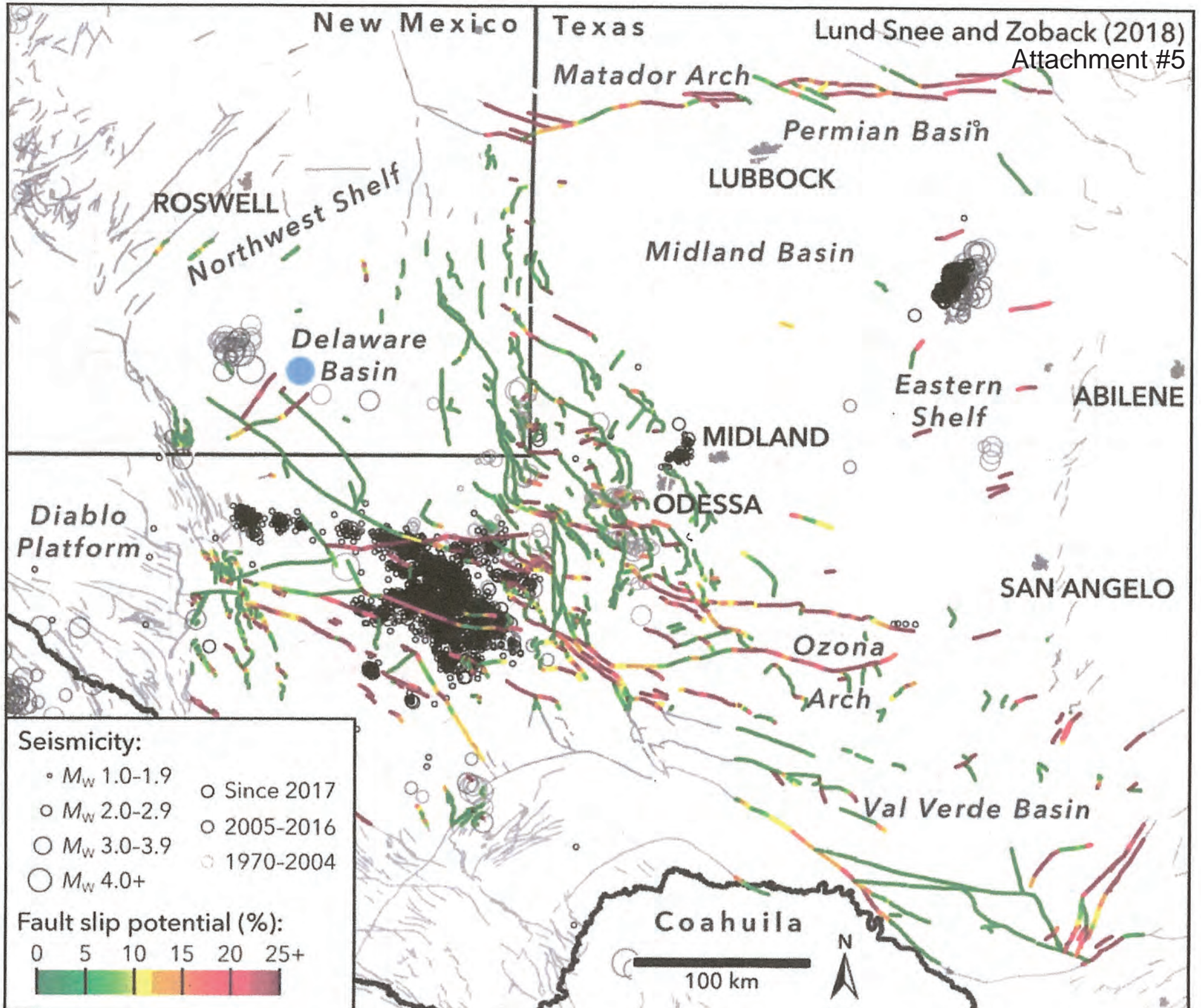
Based on the available engineering and geologic data at the above mention well located 788 feet FSL and 2,416 feet FWL of Section 31, Township 21 South, Range 28 East, Eddy County, New Mexico; we have found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Respectively Submitted,

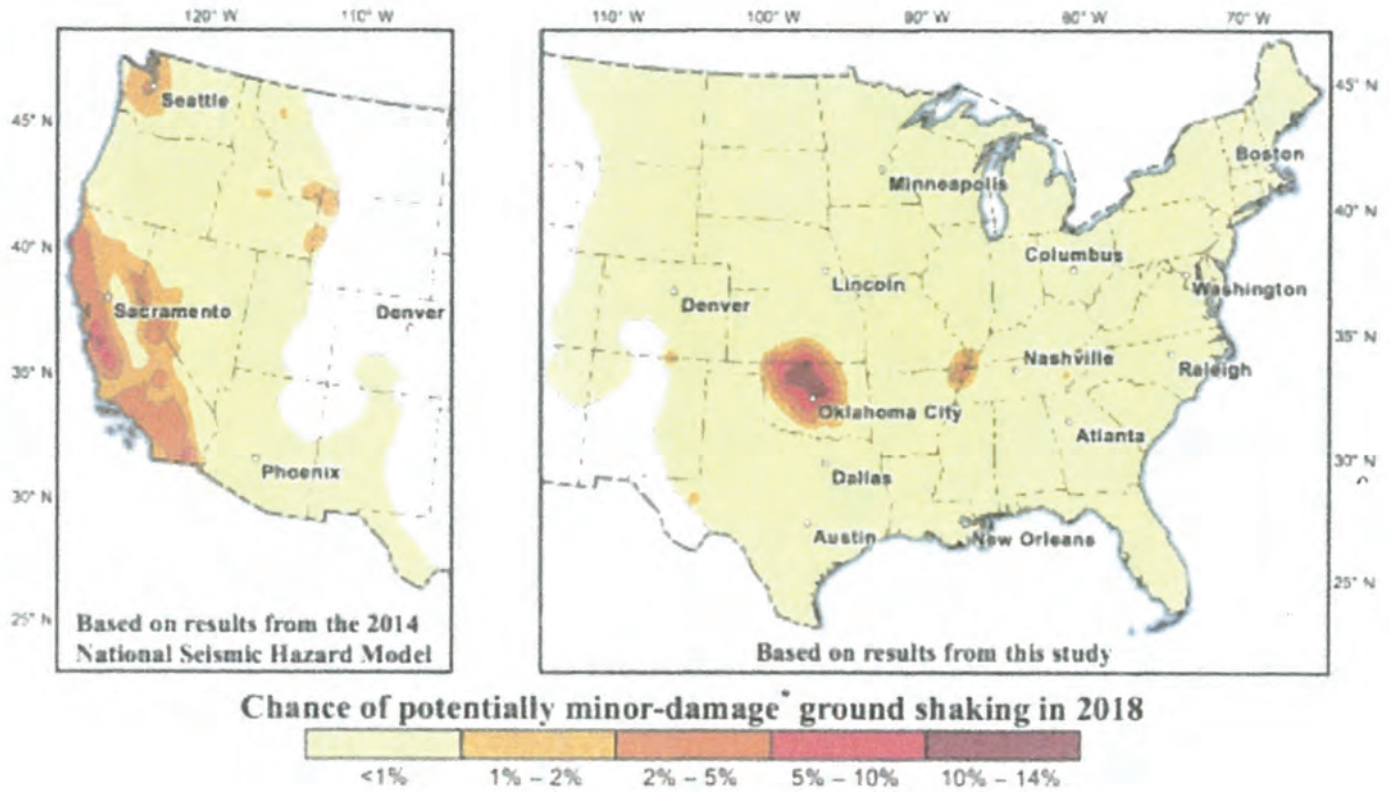


Vinny Mahadevan  
Chief Executive Officer  
Rev Midstream SWD #1, LLC.





# Short-term Seismicity Model 2018



U.S. Geological Survey - Earthquake Hazards Program

# Search Earthquake Catalog

Search results are limited to 20,000 events. To get URL for a search, click the search button, then copy the URL from the browser address bar.

- [Help](#)
- [ANSS Comprehensive Earthquake Catalog \(ComCat\) Documentation](#)
- [Developer's Corner - Library of functions and wrapper scripts for accessing and using tools for the NEIC's ComCat data](#)
- [Significant Earthquakes Archive](#)

## Basic Options

### Magnitude

- 2.5+
- 4.5+
- Custom

Minimum

Maximum

### Date & Time

- Past 7 Days
- Past 30 Days
- Custom

Start (UTC)

End (UTC)

### Geographic Region

- World
- Conterminous U.S.<sup>1</sup>
- Custom

Custom Circle

- 32.43155749 Latitude
- -104.12661622 Longitude
- 15 Radius (km)

[Draw Rectangle on Map](#)

## - Advanced Options

### Geographic Region

Decimal degree coordinates. North must be greater than South. East must be greater than West.

North

West
East

South

### Depth (km)

Minimum

Maximum

### Azimuthal Gap

Minimum

Maximum

### Circle

Center Latitude

Center Longitude

Outer Radius (km)

### Review Status

- Any
- Automatic
- Reviewed

## + Event Type



Impact (PAGER, ShakeMap, DYFI)

Catalog

Contributor

Product Type

Output Options

---

Search

<sup>1</sup>Contiguous U.S. refers to a rectangular region including the lower 48 states and surrounding areas which are outside the Contiguous U.S.



### Search Results

1 earthquakes.

Only List Earthquakes Shown on Map

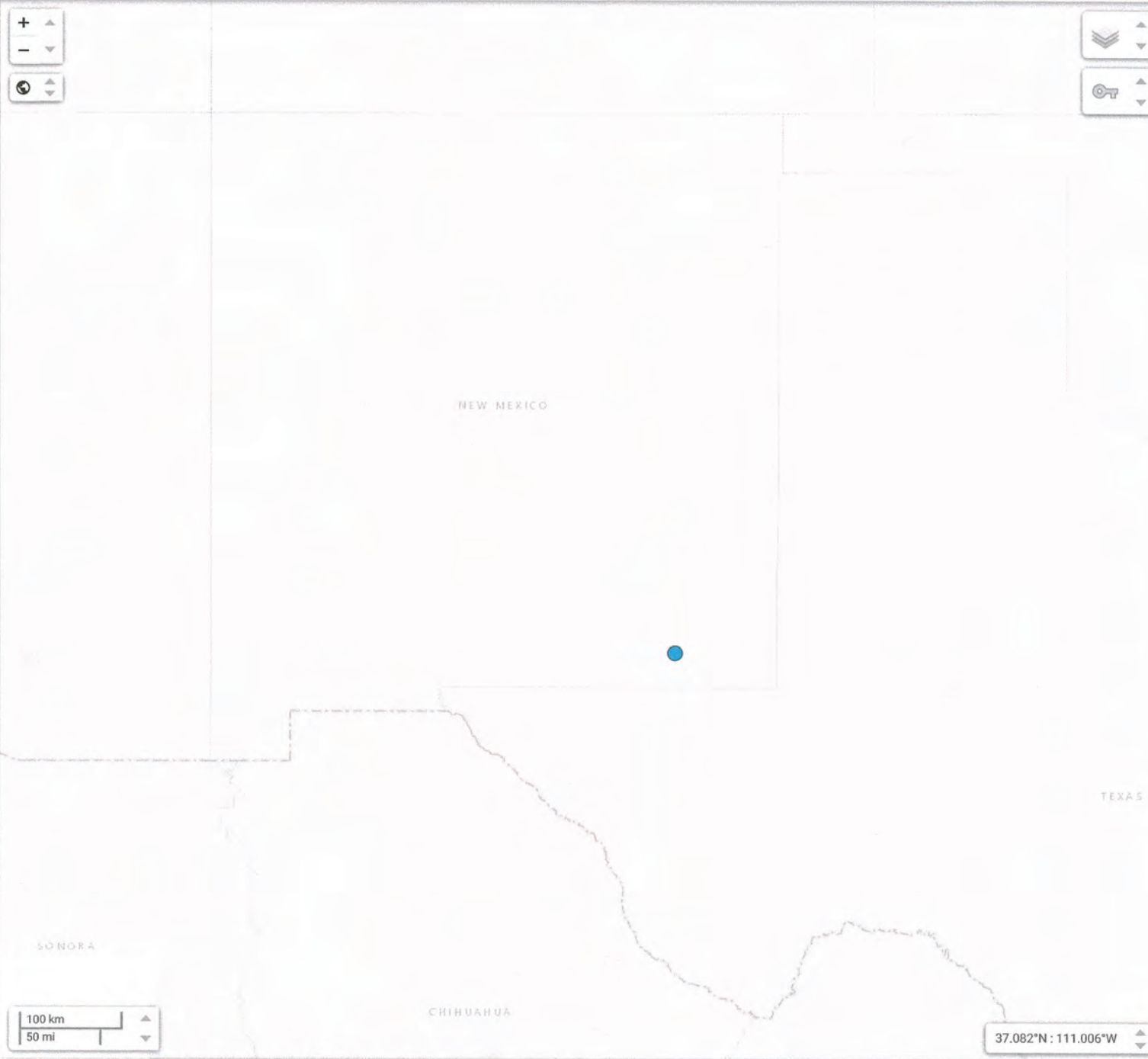
Format: Magnitude    Sort: Newest First

3.9    New Mexico    1974-11-28 03:35:20 (UTC)    5.0 km

DOWNLOAD

### Didn't find what you were looking for?

- Check your [Settings](#).
- [Which earthquakes are included on the map and list?](#)
- [Felt something not shown - report it here.](#)



### M 3.9 - New Mexico

Time 1974-11-28 03:35:20 (UTC)  
Location 32.311°N 104.143°W  
Depth 5.0 km

CLOSE

# Carlsbad Current Argus.

## Affidavit of Publication

Ad # 0004408127

This is not an invoice

REV MIDSTREAM SWD #1, LLC  
PO BOX 12878

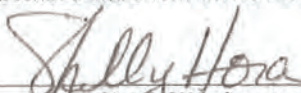
OKLAHOMA CITY, OK 73157

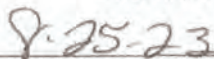
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements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

10/07/2020

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

Subscribed and sworn before me this October 7, 2020:

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

  
\_\_\_\_\_  
My commission expires

SHELLY HORA  
Notary Public /  
State of Wisconsin

Rev Midstream SWD #1, LLC is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to drill and complete the AABCD #2 as a salt water disposal well. The AABCD #2 is located 788 feet FSL and 2,416 feet FWL, in Section 31, Township 21 South, and Range 28 East in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian formation through an open-hole completion from a depth of 12,625 feet to 13,650 feet. The maximum surface injection pressure will not exceed 2,520 psi with a maximum rate of 45,000 BWPD. Interested parties opposing the action 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. The name and address for the contact party is Josh Watkins, Rev Midstream SWD #1, LLC, P.O. BOX 12878 Oklahoma City, OK 73157, (972)-510-7710. #4408127, Current Argus, October 7, 2020

Ad # 0004408127

PO #:

# of Affidavits 1

This is not an invoice

Notification To Interested Parties

RE: Application for Authorization to Inject  
AABCD #2  
Township 21S, Range 28E  
Section 31, 788' FSL & 2,416 FWL  
Eddy County, New Mexico

To Whom It May Concern,

Enclosed for your review is a copy of a C-108 Application submitted by Rev Midstream SWD #1, LLC to the New Mexico Oil Conservation Division to drill and complete for produced water disposal the AABCD #2.

As required by NMOCD, we are notifying you because you have been identified as an operator or surface owner and therefore an affected party by this action. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, submitting in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

The well will be a commercial SWD well taking produced water from oil and gas operations in the surrounding area. Any questions or concerns regarding this application may be directed to Josh Watkins with Rev Midstream SWD #1, LLC.

Sincerely,



Josh Watkins  
Manager  
(972) 510-7710



**AABCD #2**  
**Proof of Notice**

Notified Name within 1-Mile	Notified Address	Notified City, State, Zip Code	Shipper	Tracking Number	Mail Date
Bureau Of Land Management	620 E Greene St	Carlsbad, NM 88220	USPS	7019 0140 0000 0115 2078	10/28/2020
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	7019 0140 0000 0115 2030	10/28/2020
New Mexico OCD	1220 S St. Francis Dr.	Santa Fe, NM 87505	USPS	7019 0140 0000 0115 2047	10/28/2020
New Mexico OCD - District 2	811 S. First	Artesia, NM 88210	USPS	7019 0140 0000 0115 2061	10/28/2020
EOG M Resources, INC.	P.O. Box 840	Artesia, NM 88211	USPS	7019 0140 0000 0115 2054	10/28/2020
Whiting Oil and Gas Corp.	1700 N Lincoln St Ste 4700	Denver, CO 80203	USPS	7019 0140 0000 0115 2092	10/28/2020
BOPCO, L.P.	6401 Holiday Hill Rd Bldg 5	Midland, TX 79707	USPS	7019 0140 0000 0115 2023	10/28/2020
Devon Energy Production Company, LP	333 W Sheridan Ave	Oklahoma City, OK 73102	USPS	7019 0140 0000 0115 2115	10/28/2020
BEPCO, L.P.	6401 Holiday Hill Rd Bldg 5	Midland, TX 79707	USPS	7019 0140 0000 0115 2016	10/28/2020
XTO Permian Operating LLC.	6401 Holiday Hill Rd Bldg 5	Midland, TX 79707	USPS	7019 0140 0000 0115 2009	10/28/2020
EOG Resources, INC.	P.O. Box 4362	Houston, TX 77210-4362	USPS	7019 0140 0000 0115 2108	10/28/2020
Surface Owners	Notified Address	Notified City, State, Zip Code	Shipper	Tracking Number	Mail Date
Carnegie Energy, LLC	4925 Greenville Ave. Suite 200	Dallas, TX 75206	USPS	7019 0140 0000 0115 1941	10/28/2020
Kane Resources, LLC	P.O. Box 471096	Fort Worth, TX 76147	USPS	7019 0140 0000 0115 2085	10/28/2020
Mason Oaks Energy Holdings, LLC	6125 Luther Lane, #188	Dallas, TX 75225	USPS	7019 0140 0000 0115 1934	10/28/2020
Anthony Moschetto	P.O. Box 600635	Dallas, TX	USPS	7019 0140 0000 0115 1989	10/28/2020
Mr. & Mrs. Charles R. Wiggins	P.O. Box 10862	Midland, TX 79702	USPS	7019 0140 0000 0115 1996	10/28/2020