

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 #1
983' FNL & 965' FEL
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 #1 located in Section 35, Township 21S, Range 27E, 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.

Respectfully Submitted,



Josh Watkins
Manager
Rev Midstream SWD #1, LLC

Revised March 23, 2017

O6V07-201029-C-1080

RECEIVED: 10/29/20	REVIEWER:	TYPE: SWD	APP NO: pBL2030733650
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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 #1 **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

SWD-2399

- 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

- ☐ Notice Complete
☐ Application Content Complete

- 3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Josh Watkins

Print or Type Name

Signature

10/12/2020

Date


972-510-7710

Phone Number

jwatkins@revmidstream.com

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X 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: **10/12/2020**
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.

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.

WELL NAME & NUMBER: AABCD #1

WELL LOCATION:	983' FNL & 965' FEL	A	35	21S	27E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELL CONSTRUCTION DATA

Hole Size: 26"	Casing Size: 18-5/8"
Cemented with:	<i>or</i> 988.3 ft³
Top of Cement: Surface	Method Determined: Calculated

Hole Size: 17-1/2"	Casing Size: 13-3/8"
Cemented with:	<i>or</i> 1912.3 ft³
Top of Cement: Surface	Method Determined: Calculated

Hole Size: 12-1/4"	Casing Size: 9-5/8"
Cemented with:	<i>or</i> 3009.8 ft³
Top of Cement: Surface	Method Determined: Calculated

Production Casing

Hole Size: 8-1/2"

Casing Size: 7"

Cemented with:

or 393.5 ft³

Top of Cement: Surface

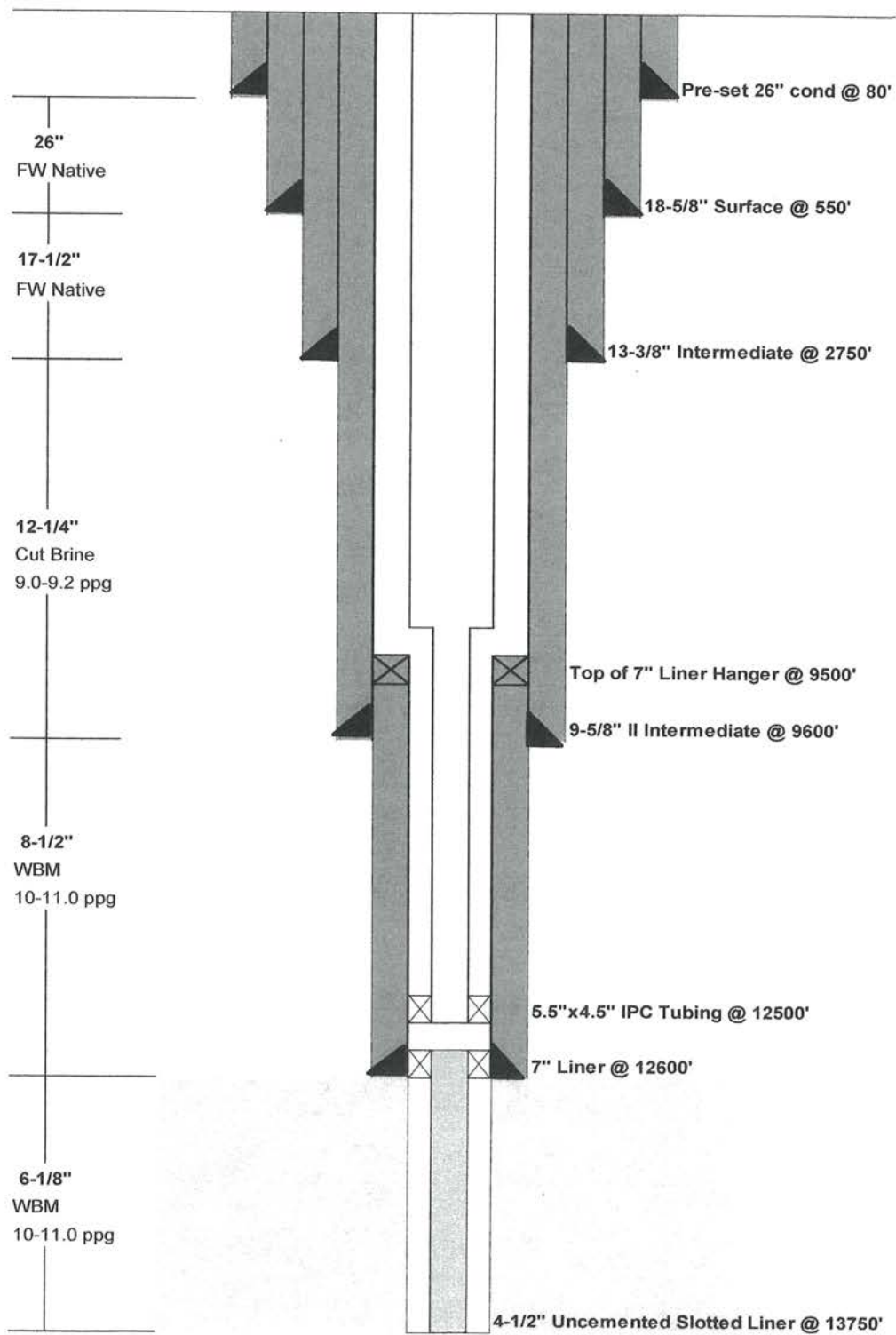
Method Determined: Calculated

Total Depth: 13,750'

Injection Interval

12,625 feet To 13,650 feet

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEETTubing 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 #1**

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 ft³**

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 ft³**

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 ft³**

Production Casing: **(7", 29#, J-55, LTC)** will be set at 12,600' in an 8-1/2" hole with cement **393.5 ft³**

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

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

Tubing Size	Set Depth
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

5. 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 thirteen fresh water wells within a one-mile radius of the proposed well. A chemical analysis of C-04340 POD1 and C-04340 POD5 is provided. *(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)

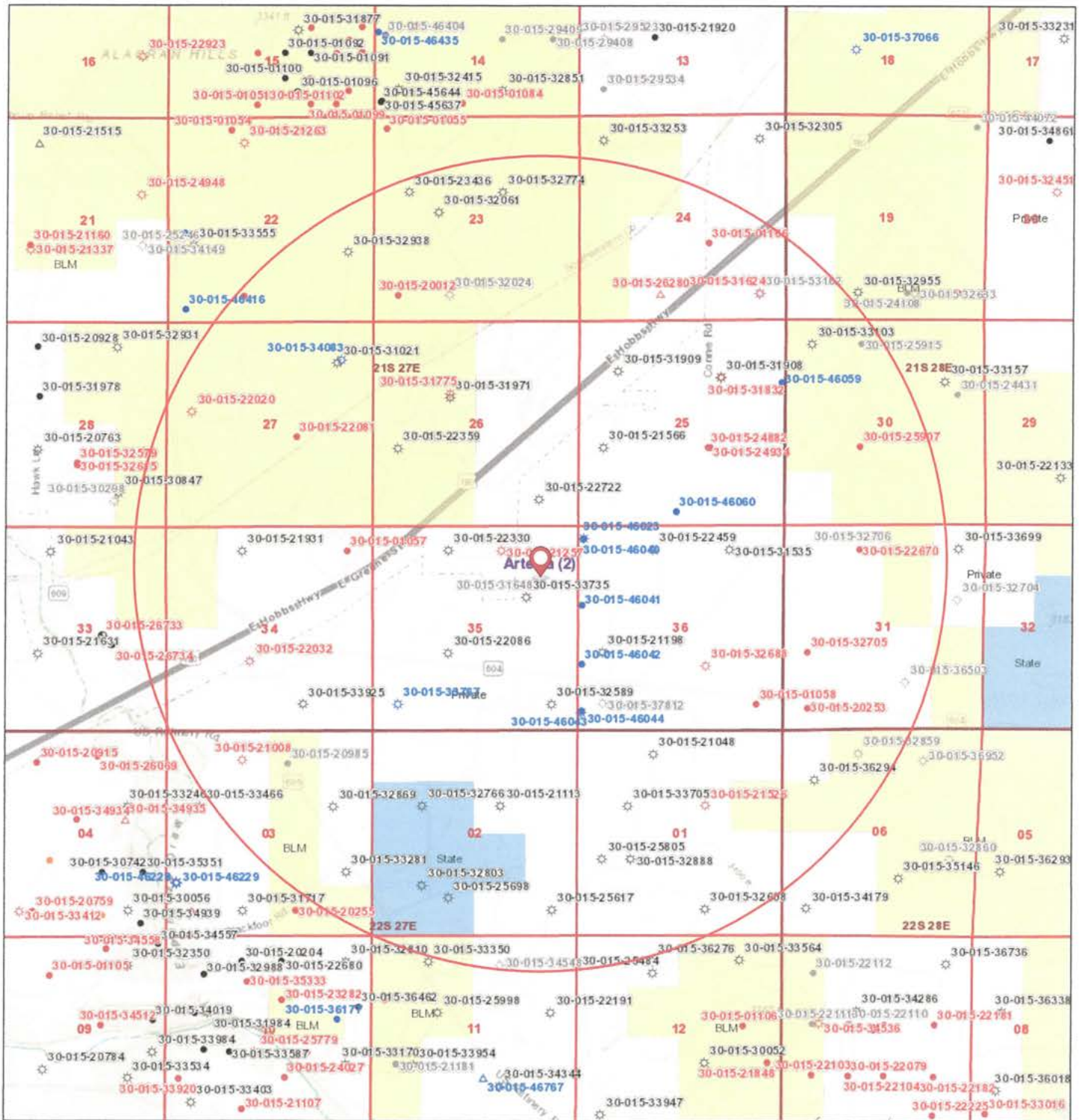
Between the years of 1900 – 2020, one seismic event at magnitude 2.0+ was found within a 9-mile radius of the proposed well. *(Please see Attachment #7)*

XIII. Proof of Notice

(Please see Attachment #8)

(Please see Attachment #9)

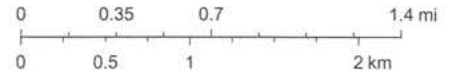
Attachment #1



10/12/2020, 1:09:25 PM

1:36,112

- | | | |
|---|----------------------------------|---|
| Wells - Large Scale | Injection, Cancelled | Salt Water Injection, Temporarily Abandoned |
| undefined | Injection, New | Water, Active |
| Miscellaneous | Injection, Plugged | Water, Cancelled |
| CO ₂ , Active | Injection, Temporarily Abandoned | Water, New |
| CO ₂ , Cancelled | Oil, Active | Water, Plugged |
| CO ₂ , New | Oil, Cancelled | Water, Temporarily Abandoned |
| CO ₂ , Plugged | Oil, New | |
| CO ₂ , Temporarily Abandoned | Oil, Plugged | OCD Districts |
| 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 | | NOD |



(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

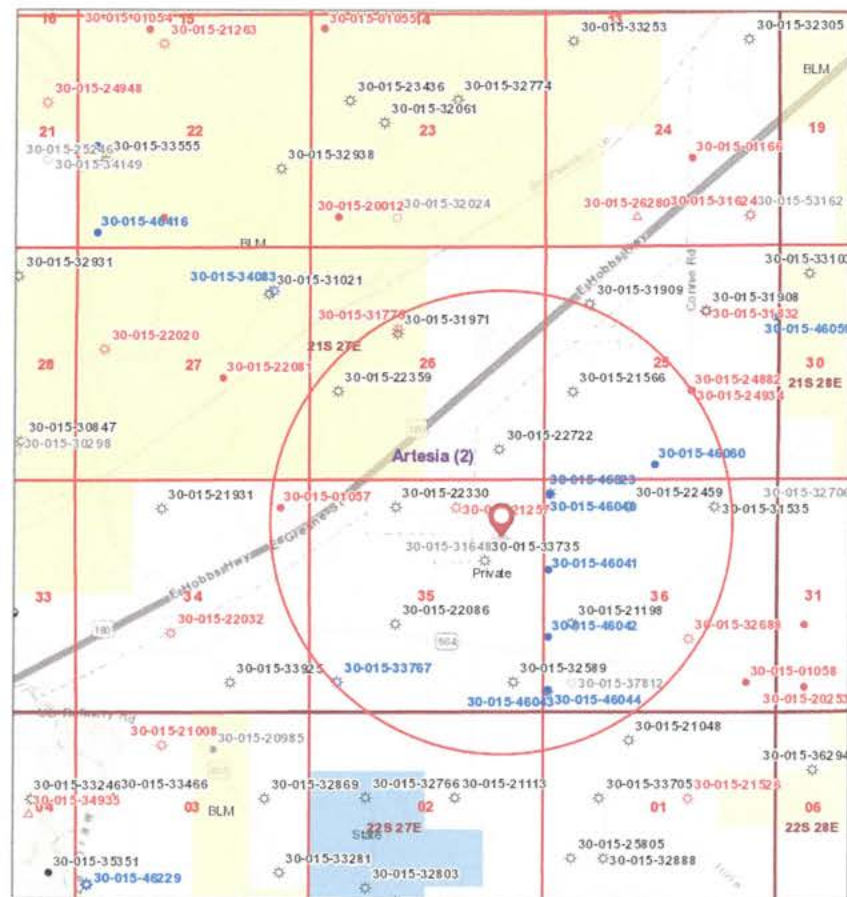


AABCD #1, Eddy County, New Mexico, 1-Mile Area of Review

Area of Interest (AOI) Information

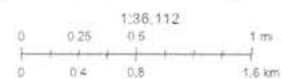
Area : 2,009.02 acres

Oil Conservation Division's Mapped Wells Report (2020)



Wells - Large Scale

- undefined
- Miscellaneous
- CO2, Active
- CO2, Cancelled
- CO2, New
- CO2, Plugged
- CO2, Temporarily Abandoned
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged



U.S. BLM, Oil Conservation Division of the New Mexico Energy, Minerals, and Natural Resources Department. Sources: ERI, H&B, Geomatics, Interstate, Interstate P, Corp., GEBCO, USGS, FAD, NPS, NRCAN, Gridbase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri

No Saltwater Disposal Wells are within this area of review.

Summary

Name	Count	Area(acres)	Length(mi)
Well Locations	26	N/A	N/A

Well Locations

#	API	Well Name	Well Type	Well Status	Operator Name
1	30-015-01057	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR
2	30-015-22359	BAUMGARTNER FEDERAL GAS COM #001	Gas	Active	OCCIDENTAL PERMIAN LTD
3	30-015-22330	REEVES FEDERAL #002	Gas	Active	MATADOR PRODUCTION COMPANY
4	30-015-31775	BAUMGARTNER FEDERAL GAS COM #002	Gas	Plugged (site released)	OCCIDENTAL PERMIAN LTD
5	30-015-22086	HUNKER COM #001	Gas	Active	COG OPERATING LLC
6	30-015-31971	BAUMGARTNER FEDERAL GAS COM #002Y	Gas	Active	OCCIDENTAL PERMIAN LTD
7	30-015-33735	BOISE FEDERAL #001Q	Gas	Active	EOG RESOURCES INC
8	30-015-22722	E J GARNER COM #001	Gas	Active	MATADOR PRODUCTION COMPANY
9	30-015-31648	BOISE FEDERAL #001	Gas	Cancelled	EOG M RESOURCES, INC.
10	30-015-21257	REEVES FEDERAL #001	Gas	Plugged (site released)	FINLEY RESOURCES INC
11	30-015-33767	OTIS 35 FEDERAL COM #002	Gas	New	MEWBOURNE OIL CO
12	30-015-46023	WINNIPEG 36 STATE W #001H	Gas	New	MATADOR PRODUCTION COMPANY
13	30-015-21198	STATE 36 #001	Gas	Active	MATADOR PRODUCTION COMPANY
14	30-015-37812	CIGAR BCM STATE COM #001E	Gas	Cancelled	EOG Y RESOURCES, INC.
15	30-015-21566	TOOTHMAN GAS COM #001	Gas	Active	MATADOR PRODUCTION COMPANY
16	30-015-22459	STATE 36 #002	Gas	Active	MATADOR PRODUCTION COMPANY
17	30-015-32589	OTIS 35 FEE COM #001	Gas	Active	MEWBOURNE OIL CO
18	30-015-32688	AUSTIN 36 STATE #002	Gas	Plugged (site released)	EOG M RESOURCES, INC.
19	30-015-31535	AUSTIN STATE #001	Gas	Active	MATADOR PRODUCTION COMPANY
20	30-015-24882	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR
21	30-015-46060	EDMONTON STATE #002H	Oil	New	MATADOR PRODUCTION COMPANY
22	30-015-46044	WINNIPEG 36 STATE W #002H	Gas	New	MATADOR PRODUCTION COMPANY
23	30-015-46041	WINNIPEG 36 STATE B #002H	Oil	New	MATADOR PRODUCTION COMPANY
24	30-015-46043	WINNIPEG 36 STATE B #004H	Oil	New	MATADOR PRODUCTION COMPANY
25	30-015-46040	WINNIPEG 36 STATE B #001H	Oil	New	MATADOR PRODUCTION COMPANY
26	30-015-46042	WINNIPEG 36 STATE B #003H	Oil	New	MATADOR PRODUCTION COMPANY

#	OCD District Office	County	PLSS Location (ULSTR)	Y-Coordinate (Latitude)	X-Coordinate (Longitude)
1	Artesia	Eddy	A-34-21S-27E	32.4419518	-104.1712036
2	Artesia	Eddy	L-26-21S-27E	32.4492302	-104.1669388
3	Artesia	Eddy	C-35-21S-27E	32.4419861	-104.1626434
4	Artesia	Eddy	F-26-21S-27E	32.4531479	-104.1625443
5	Artesia	Eddy	K-35-21S-27E	32.4347038	-104.1626129
6	Artesia	Eddy	F-26-21S-27E	32.4528732	-104.1625443
7	Artesia	Eddy	H-35-21S-27E	32.4386597	-104.1560135
8	Artesia	Eddy	P-26-21S-27E	32.4456406	-104.1549683
9	Artesia	Eddy	H-35-21S-27E	32.43866051	-104.15601827
10	Artesia	Eddy	B-35-21S-27E	32.4420013	-104.1581802
11	Artesia	Eddy	M-35-21S-27E	32.4310608	-104.1668777
12	Artesia	Eddy	D-36-21S-27E	32.4429039	-104.151222
13	Artesia	Eddy	L-36-21S-27E	32.4347382	-104.1496201
14	Artesia	Eddy	M-36-21S-27E	32.43110621	-104.14960255
15	Artesia	Eddy	L-25-21S-27E	32.4492912	-104.1496048
16	Artesia	Eddy	C-36-21S-27E	32.4420586	-104.14534
17	Artesia	Eddy	P-35-21S-27E	32.4310989	-104.1539001
18	Artesia	Eddy	J-36-21S-27E	32.4338417	-104.1409149
19	Artesia	Eddy	B-36-21S-27E	32.4420967	-104.1389847
20	Artesia	Eddy	J-25-21S-27E	32.4493446	-104.1408234
21	Artesia	Eddy	N-25-21S-27E	32.4447612	-104.1434769
22	Artesia	Eddy	M-36-21S-27E	32.4305141	-104.1513715
23	Artesia	Eddy	E-36-21S-27E	32.4381622	-104.1513675
24	Artesia	Eddy	M-36-21S-27E	32.4305966	-104.1513714
25	Artesia	Eddy	D-36-21S-27E	32.4428215	-104.1512218
26	Artesia	Eddy	L-36-21S-27E	32.4339356	-104.1513659

#	Datum	Well Bore Direction	Link to Well Details	Link to Scanned Well Files	Associated Pools	Count
1	NAD83	No Data	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-01057&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015010570000& GISReferenceSource =ArcGISOnline	No Data	1
2	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-22359&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015223590000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS)	1
3	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-22330&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015223300000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS)	1
4	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-31775&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015317750000& GISReferenceSource =ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
5	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-22086&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015220860000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
6	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-31971&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015319710000& GISReferenceSource =ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS); [97208] LONE TREE DRAW, WOLFCAMP	1
7	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-33735&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015337350000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
8	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-22722&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015227220000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
9	NAD83	No Data	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-31648&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015316480000& GISReferenceSource =ArcGISOnline	No Data	1
10	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-21257&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015212570000& GISReferenceSource =ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1

11	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-33767&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015337670000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS)	1
12	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46023&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460230000& GISReferenceSource =ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
13	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-21198&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015211980000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
14	NAD83	No Data	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-37812&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015378120000& GISReferenceSource =ArcGISOnline	[72170] BLACK RIVER, MORROW (GAS)	1
15	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-21566&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015215660000& GISReferenceSource =ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
16	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-22459&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015224590000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
17	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-32589&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015325890000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS)	1
18	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-32688&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015326880000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS)	1
19	NAD83	V	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-31535&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015315350000& GISReferenceSource =ArcGISOnline	[73920] CARLSBAD, MORROW, EAST (GAS); [74080] CARLSBAD, STRAWN, EAST (GAS); [96144] CARLSBAD, BONE SPRING, EAST	1
20	NAD83	No Data	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-24882&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015248820000& GISReferenceSource =ArcGISOnline	No Data	1

21	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46060&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460600000& GISReferenceSource=ArcGISOnline	[96144] CARLSBAD, BONE SPRING, EAST	1
22	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46044&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460440000& GISReferenceSource=ArcGISOnline	[74160] CARLSBAD, WOLFCAMP, EAST (GAS)	1
23	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46041&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460410000& GISReferenceSource=ArcGISOnline	[96144] CARLSBAD, BONE SPRING, EAST	1
24	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46043&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460430000& GISReferenceSource=ArcGISOnline	[96144] CARLSBAD, BONE SPRING, EAST	1
25	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46040&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460400000& GISReferenceSource=ArcGISOnline	[96144] CARLSBAD, BONE SPRING, EAST	1
26	NAD83	H	https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/Data/WellDetails.aspx?api=30-015-46042&GISReferenceSource=ArcGISOnline	http://ocdimage.emnrd.state.nm.us/imagi ng/WellFileView.aspx? RefType=WF&RefID =30015460420000& GISReferenceSource=ArcGISOnline	[96144] CARLSBAD, BONE SPRING, EAST	1

This report published from the NM Oil Conservation Division Oil and Gas Map, <https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2b9f8f35ca75>

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name Devonian; SWD
⁴ Property Code	⁵ Property Name AABCD	⁶ Well Number #1
⁷ OGRID No. 330316	⁸ Operator Name Rev Midstream SWD #1, LLC	⁹ Elevation 3108'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	21S	27E		983	North	965	East	Eddy

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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

¹⁶

NAD83 - NM East Zone / U.S. Survey Feet (Grid)

AABCD #1
LAT: N032° 26' 27.95"
LONG: W104° 09' 17.39"
N: 524248.0736
E: 596404.7128
(NAD83)

GRAPHIC SCALE
625' 0 312.5' 625' 1,250'
(IN FEET)
1 inch = 1,250 ft.

¹⁷ **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.

Signature: *Josh Watkins* Date: 10/12/2020
Printed Name: Josh Watkins
E-mail Address: jwatkins@revmidstream.com

¹⁸ **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: *Tyler J. Willis*

25344
Certificate Number

CURRENT REV.: 0

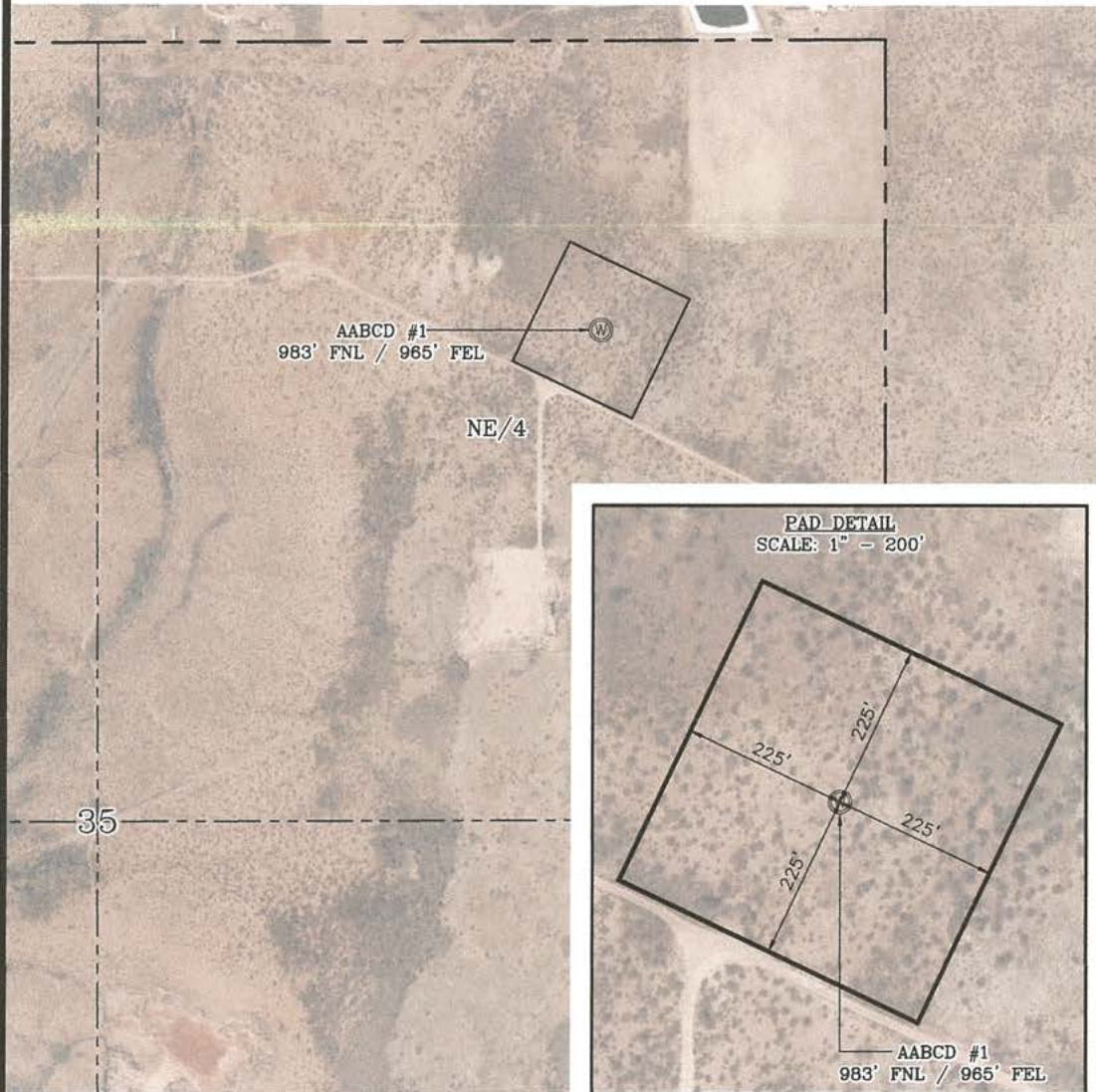
TABLE OF QUANTITIES

FOOTAGE = N/A
 PERMANENT EASEMENT = N/A
 TEMPORARY EASEMENT = N/A
 PAD SITE = 450'x450' / ±4.85 ACRES

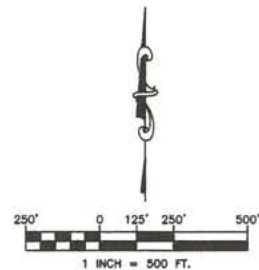
EXHIBIT "A"

MASON OAKS ENERGY, LLC

PART OF THE NE/4
 SEC 35-T21S-R27E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

LEGEND

- PROPOSED PAD SITE
 SUBJECT PROPERTY
 SECTION LINE
 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)

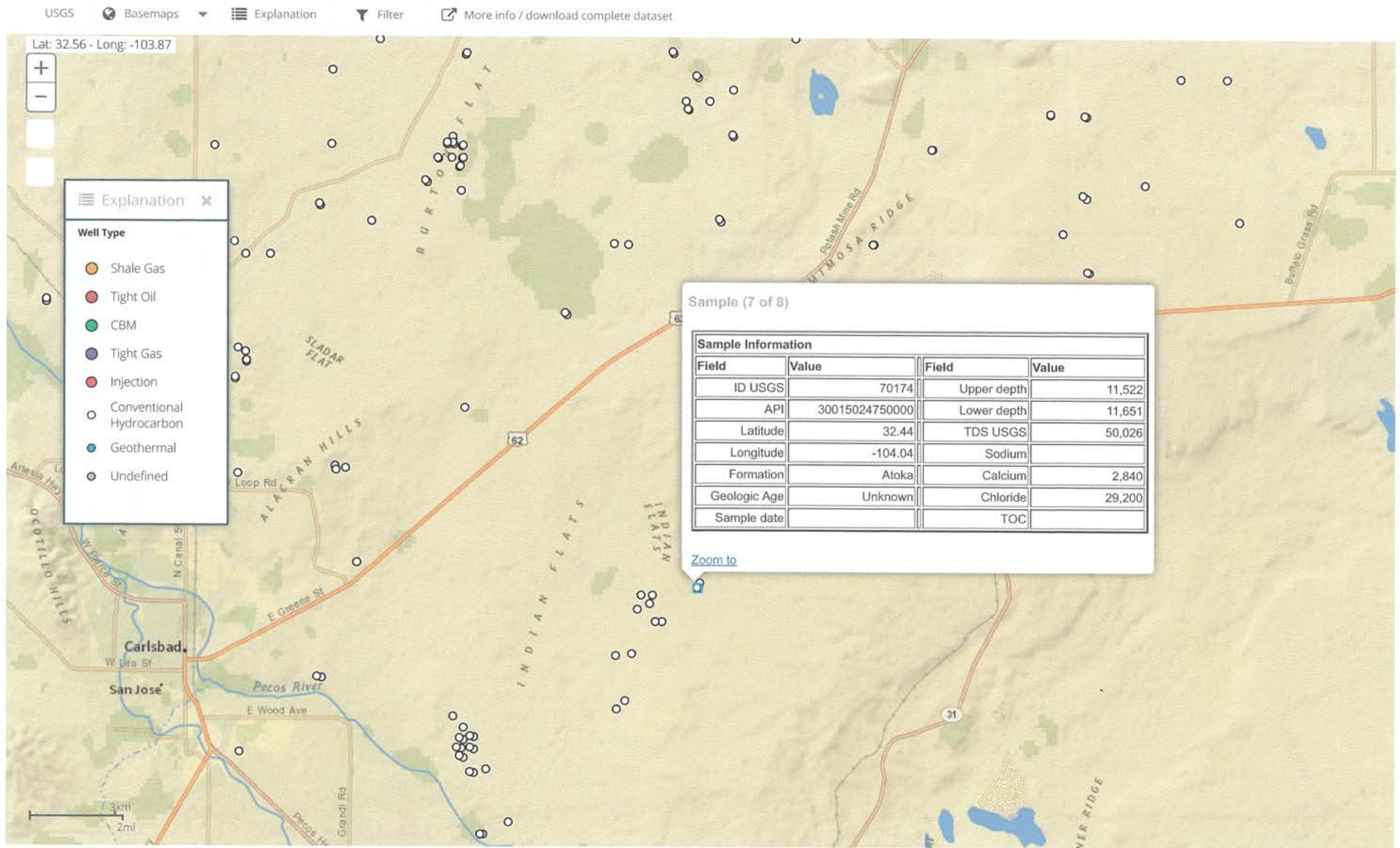


AABCD #1

DRAWN BY	MWC	SCALE	1" = 500'
APPROVED BY	JAS	SHEET	1 OF 1
DATE ISSUED	09-23-20	REV. No.	00

Attachment #2

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: 32.57 - Long: -103.86



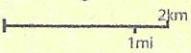
 Explanation 

Well Type

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

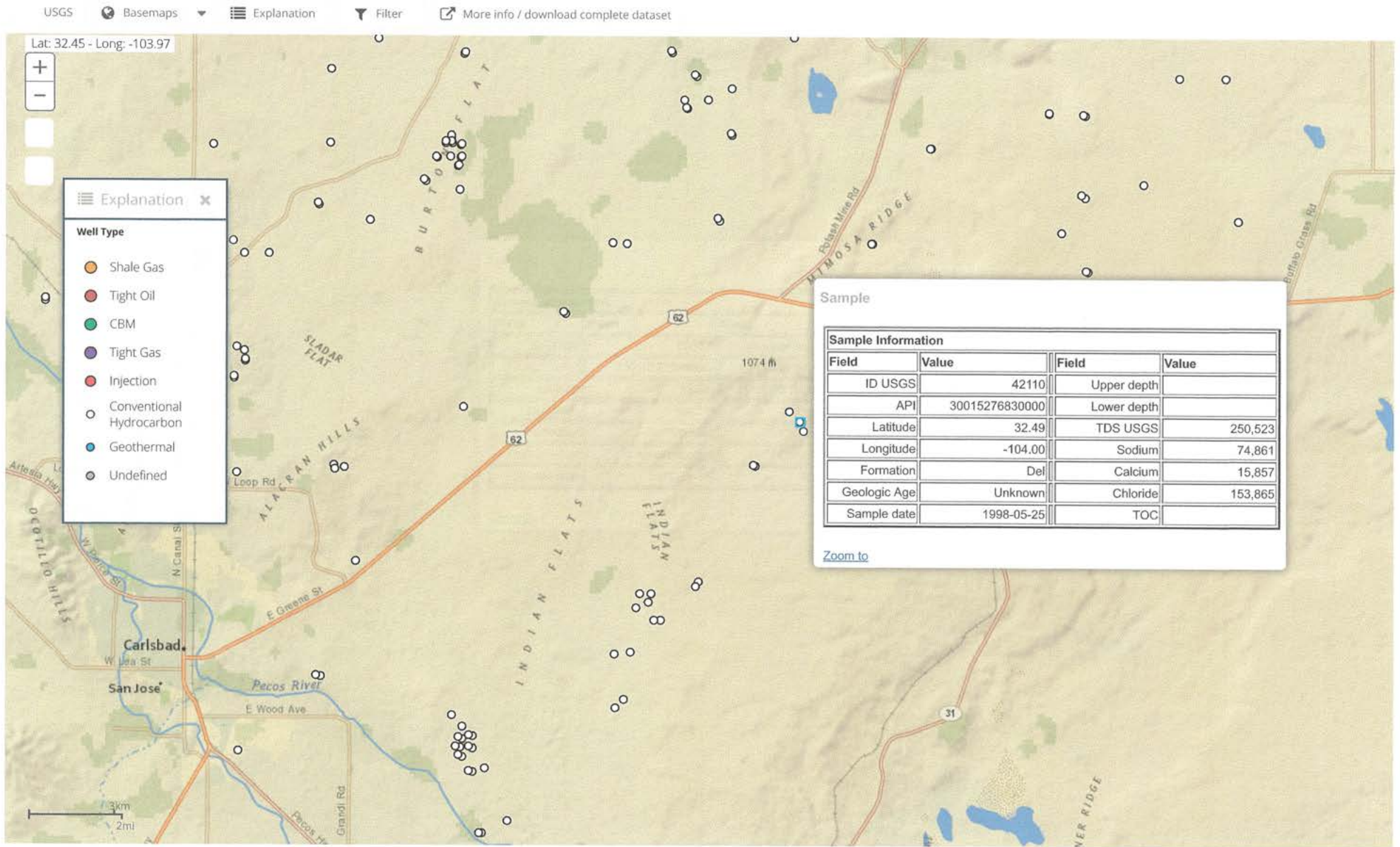
Sample (1 of 2)

Sample Information			
Field	Value	Field	Value
ID USGS	36927	Upper depth	
API	30015202250000	Lower depth	
Latitude	32.56	TDS USGS	204,409
Longitude	-103.88	Sodium	73,896
Formation	B Spg	Calcium	5,625
Geologic Age	Unknown	Chloride	123,750
Sample date	1999-08-27	TOC	

[Zoom to](#)

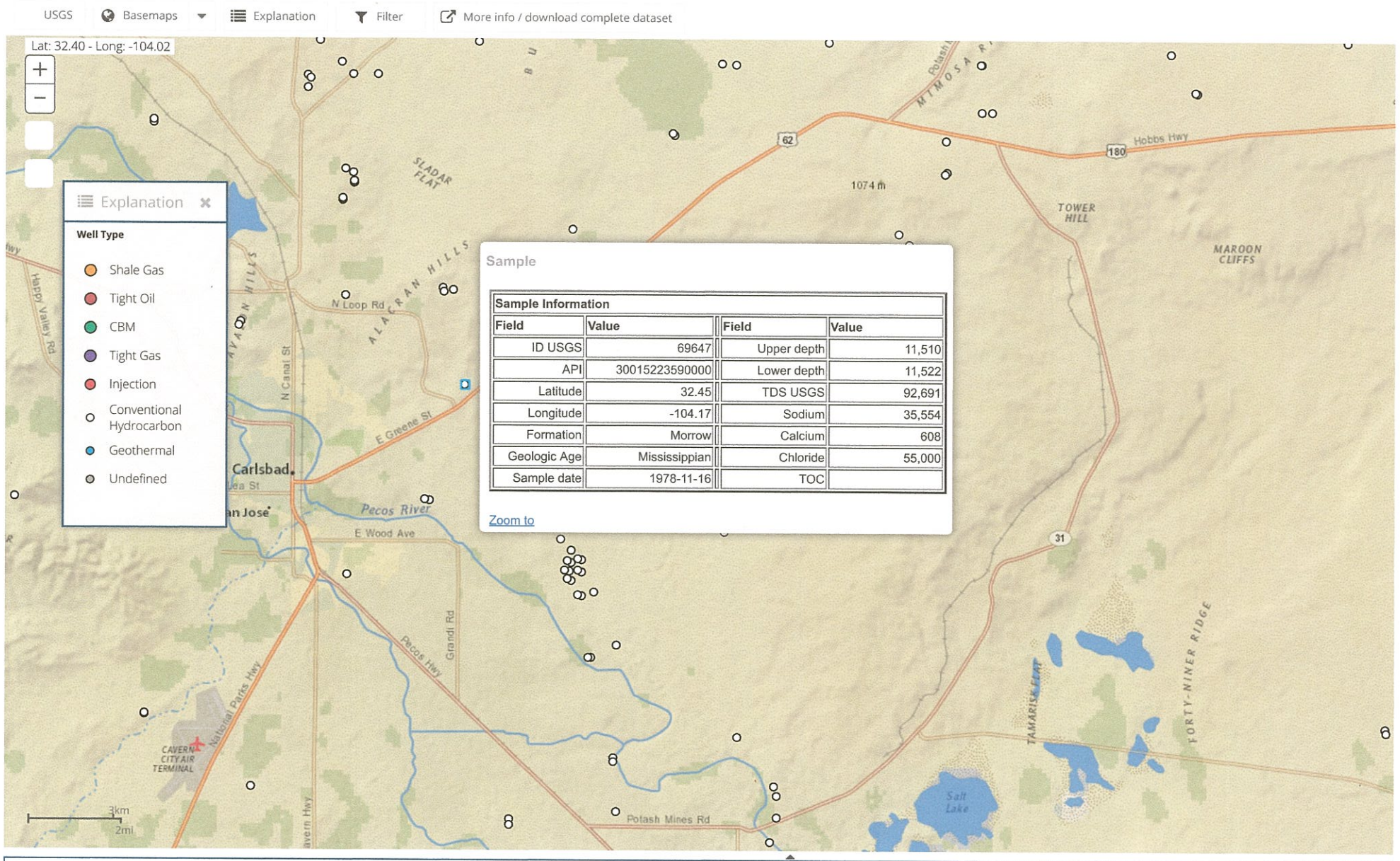
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Map of Produced Water Sample Locations



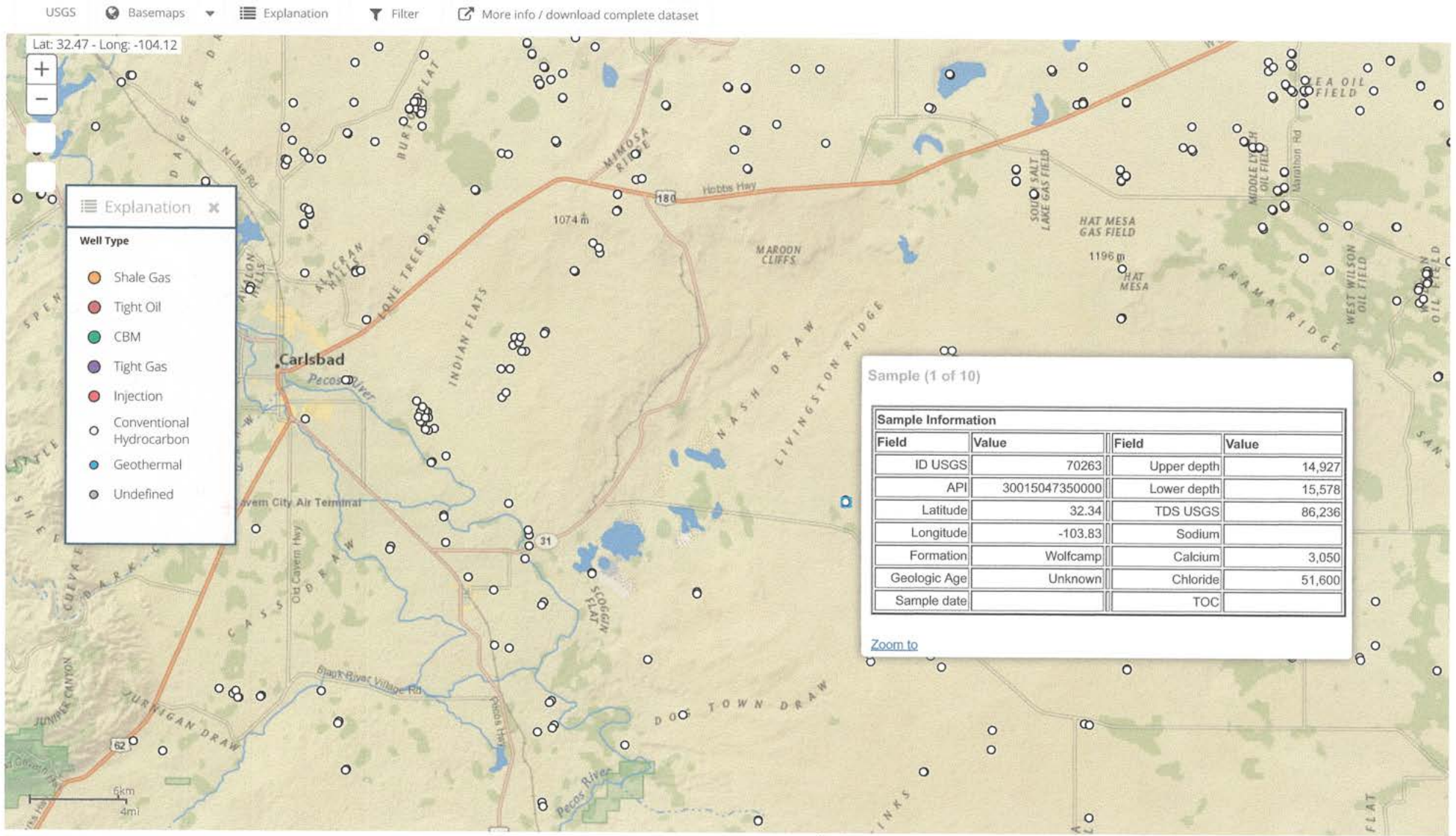
No Filter: 246 of 103,910 features visible.

Map of Produced Water Sample Locations



No Filter: 183 of 103,910 features visible.

Map of Produced Water Sample Locations



No Filter: 985 of 103,910 features visible.

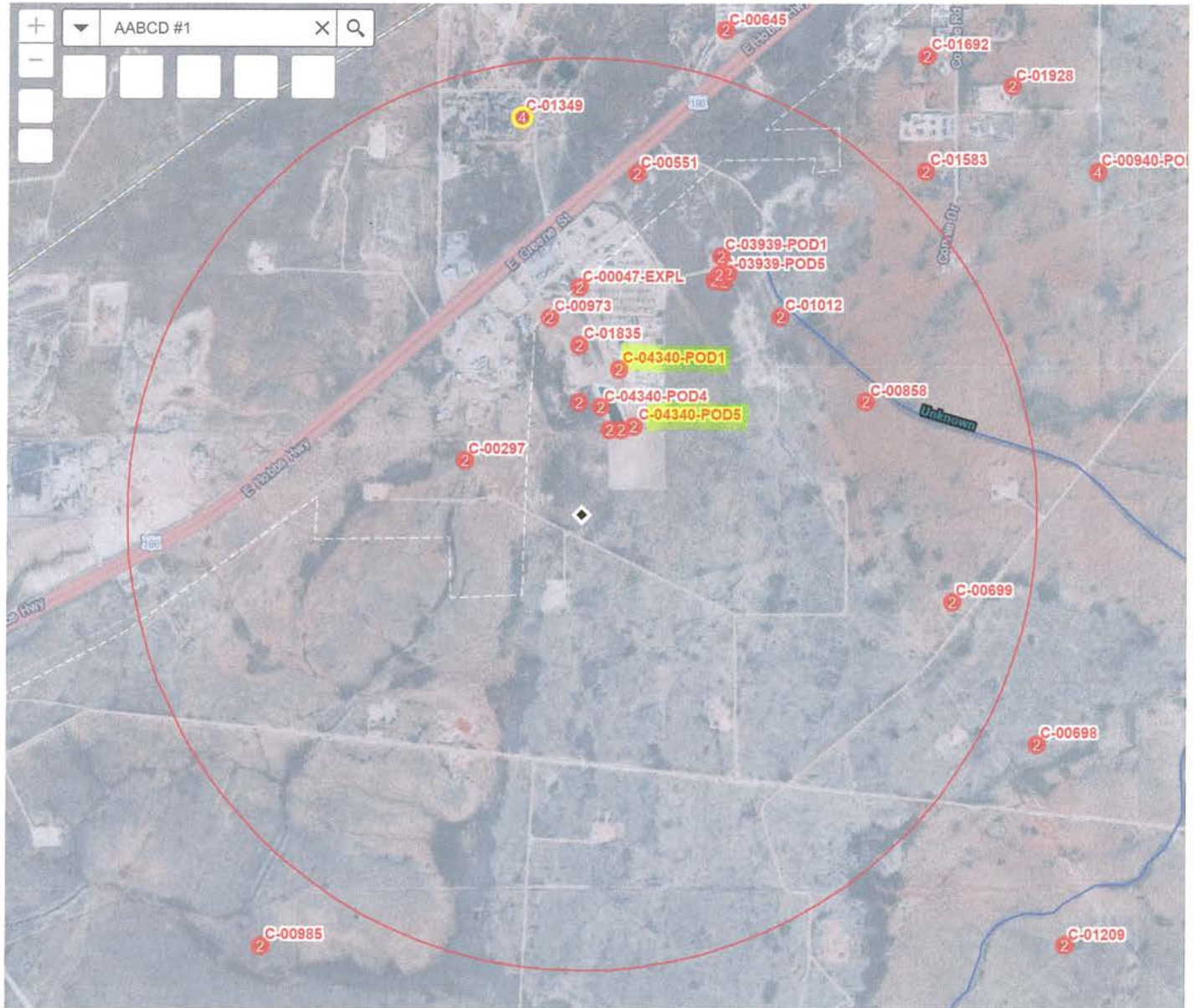
Attachment #3



OSE POD Locations

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

Water Rights Look Up



1:18053

0.3mi

-104.176 32.453 Degrees

AABCD #1
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 00047 A	IRR	DOM	LIC	ACT	CITY OF CARLSBAD	null	90	70	0.882	579218	3591043	Mon May 30 1966	Mon May 30 1966
C 01012	DOM	null	EXP	PEN	BERKSTRESSER	SALLIE FAYE	null	null	0.614	580141	3590347	Wed Dec 31 1969	Wed Dec 31 1969
C 00858	IRR	IRR	DCL	null	CARTER	ALBERT	304	null	0.67	580446	3590051	Wed Dec 31 1969	Sun Dec 30 1945
C 00699	DOL	null	EXP	PEN	BOND	PAUL	null	null	0.835	580760	3589349	Wed Dec 31 1969	Wed Dec 31 1969
C 01349	DOL	null	PMT	ACT	GARNER	BUDDY	395	45	0.882	579218	3591043	Sun Jul 31 1966	Sun Oct 30 1966
C 00468	DOM	null	PMT	ACT	TOOTHMAN	O. V.	80	null	0.248	579432	3590041	Thu Oct 08 1953	Fri Oct 16 1953
C 01835	DOL	null	PMT	ACT	CHAMPLAIN PETROLEUM COMPANY	null	58	5	0.372	579432	3590241	Wed Nov 29 1978	Thu Nov 30 1978
C 00047 EXPL	IRR	EXPL	LIC	ACT	CITY OF CARLSBAD	null	490	null	0.498	579429	3590444	Sun Dec 14 1975	Fri Jan 16 1976
C 03939 POD1	MON	null	PMT	ACT	ENTERPRISE FIELD SERVICES LLC	null	19	9	0.643	579926.7	3590559.7	Tue Apr 05 2016	Tue Apr 05 2016
C 03939 POD2	MON	null	PMT	ACT	ENTERPRISE FIELD SERVICES LLC	null	19	7	0.596	579936.8	3590468.3	Tue Apr 05 2016	Tue Apr 05 2016
C 03939 POD3	MON	null	PMT	ACT	ENTERPRISE FIELD SERVICES LLC	null	19	8	0.589	579903.9	3590472.7	Tue Apr 05 2016	Fri Apr 15 2016
C 03939 POD4	MON	null	PMT	PLG	ENTERPRISE FIELD SERVICES LLC	null	12	null	0.619	579954.8	3590499.6	Wed Jun 22 2016	Wed Jun 22 2016
C 03939 POD5	MON	null	PMT	PLG	ENTERPRISE FIELD SERVICES LLC	null	12	null	0.605	579920.9	3590493.1	Wed Jun 22 2016	Wed Jun 22 2016
C 00297	DOM	null	PMT	ACT	SCOTT	BOYD	130	30	0.286	579029	3589833	Sat Mar 29 1952	Wed Apr 02 1952
C 00551	DOL	null	PMT	ACT	HARPER	ALMA T.	null	null	0.757	579626	3590847	Wed Dec 31 1969	Wed Dec 31 1969
C 00973	DOM	null	PMT	ACT	GARNER	E J	80	32	0.439	579327	3590338	Tue Oct 25 1960	Wed Oct 26 1960
C 04340 POD1	MON	null	PMT	ACT	SANDS DEVELOPMENT LLC	null	20'	9.95'	0.33	579571.6	3590158.1	Wed Dec 31 1969	Wed Dec 31 1969
C 04340 POD2	MON	null	PMT	PEN	SANDS DEVELOPMENT LLC	null	null	null	0.205	579581.9	3589944.7	Wed Dec 31 1969	Wed Dec 31 1969
C 04340 POD3	MON	null	PMT	PEN	SANDS DEVELOPMENT LLC	null	null	null	0.198	579543.5	3589946	Wed Dec 31 1969	Wed Dec 31 1969
C 04340 POD4	MON	null	PMT	PEN	SANDS DEVELOPMENT LLC	null	null	null	0.239	579508.7	3590023	Wed Dec 31 1969	Wed Dec 31 1969
C 04340 POD5	MON	null	PMT	ACT	SANDS DEVELOPMENT LLC	null	21'	13.95'	0.225	579628.8	3589956.5	Wed Dec 31 1969	Wed Dec 31 1969



New Mexico Office of the State Engineer Water Right Summary



WR File Number: C 04340 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: SANDS DEVELOPMENT LLC
Contact: SCOTT GOODALE

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
654366	EXPL	2019-07-11	PMT	APR	C 04340 POD1-5	T		0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						X	Y	Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng			
C 04340 POD1	NA		2	4	4	26	21S	27E	579572	3590158	MW-1
C 04340 POD2	NA		4	4	4	26	21S	27E	579582	3589944	MW-2
C 04340 POD3	NA		4	4	4	26	21S	27E	579544	3589946	MW-3
C 04340 POD4	NA		3	4	4	26	21S	27E	579509	3590023	MW-4
C 04340 POD5	NA		4	4	4	26	21S	27E	579629	3589956	MW-5

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.

10/1/20 2:43 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 04340 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: MON MONITORING WELL
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: SANDS DEVELOPMENT LLC
Contact: SCOTT GOODALE

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
654366	EXPL	2019-07-11	PMT	APR	C 04340 POD1-5	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 04340 POD1	NA		2	4	4	26	21S	27E		579572	3590158	MW-1
C 04340 POD2	NA		4	4	4	26	21S	27E		579582	3589944	MW-2
C 04340 POD3	NA		4	4	4	26	21S	27E		579544	3589946	MW-3
C 04340 POD4	NA		3	4	4	26	21S	27E		579509	3590023	MW-4
C 04340 POD5	NA		4	4	4	26	21S	27E		579629	3589956	MW-5

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.

10/1/20 2:40 PM

WATER RIGHT SUMMARY

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

October 15, 2020

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REVOLUTION MIDSTREAM WELLS
REV MIDSTREAM SWD #1, LLC
AABCD #1

Enclosed are the results of analyses for samples received by the laboratory on 10/01/20 16:55.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905Reported:
15-Oct-20 11:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 04340-POD 5	H002616-01	Water	01-Oct-20 09:30	01-Oct-20 16:55
C - 04340-POD 1	H002616-02	Water	01-Oct-20 10:00	01-Oct-20 16:55

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905

Reported:
15-Oct-20 11:03

C - 04340-POD 5**H002616-01 (Water)**

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

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	307		5.00	mg/L	1	0100210	AC	02-Oct-20	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	0100210	AC	02-Oct-20	310.1	
Chloride*	5600		4.00	mg/L	1	0092902	AC	02-Oct-20	4500-Cl-B	
Conductivity*	24200		1.00	umhos/cm @ 25°C	1	0100209	GM	02-Oct-20	120.1	
pH*	6.80		0.100	pH Units	1	0100209	GM	02-Oct-20	150.1	
Temperature °C	23.1			pH Units	1	0100209	GM	02-Oct-20	150.1	
Sulfate*	2160		500	mg/L	50	0100117	GM	02-Oct-20	375.4	
TDS*	17800		5.00	mg/L	1	0100215	GM	07-Oct-20	160.1	
Alkalinity, Total*	252		4.00	mg/L	1	0100210	AC	02-Oct-20	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Calcium*	1350		1.00	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Magnesium*	801		1.00	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Potassium*	88.7		10.0	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Sodium*	2270		10.0	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905

Reported:
15-Oct-20 11:03

C - 04340-POD 1
H002616-02 (Water)

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

Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	293		5.00	mg/L	1	0100210	AC	02-Oct-20	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	0100210	AC	02-Oct-20	310.1	
Chloride*	4500		4.00	mg/L	1	0092902	AC	02-Oct-20	4500-Cl-B	
Conductivity*	20100		1.00	umhos/cm @ 25°C	1	0100209	GM	02-Oct-20	120.1	
pH*	6.99		0.100	pH Units	1	0100209	GM	02-Oct-20	150.1	
Temperature °C	23.1			pH Units	1	0100209	GM	02-Oct-20	150.1	
Sulfate*	2370		500	mg/L	50	0100117	GM	02-Oct-20	375.4	
TDS*	14700		5.00	mg/L	1	0100215	GM	07-Oct-20	160.1	
Alkalinity, Total*	240		4.00	mg/L	1	0100210	AC	02-Oct-20	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Calcium*	1300		1.00	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Magnesium*	824		1.00	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Potassium*	83.5		10.0	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	
Sodium*	2330		10.0	mg/L	10	B202129	AES	13-Oct-20	EPA200.7	

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905

Reported:
15-Oct-20 11:03

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0092902 - General Prep - Wet Chem										
Blank (0092902-BLK1)				Prepared & Analyzed: 29-Sep-20						
Chloride	ND	4.00	mg/L							
LCS (0092902-BS1)				Prepared & Analyzed: 29-Sep-20						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (0092902-BSD1)				Prepared & Analyzed: 29-Sep-20						
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 0100117 - General Prep - Wet Chem										
Blank (0100117-BLK1)				Prepared: 01-Oct-20 Analyzed: 02-Oct-20						
Sulfate	ND	10.0	mg/L							
LCS (0100117-BS1)				Prepared: 01-Oct-20 Analyzed: 02-Oct-20						
Sulfate	18.3	10.0	mg/L	20.0		91.6	80-120			
LCS Dup (0100117-BSD1)				Prepared: 01-Oct-20 Analyzed: 02-Oct-20						
Sulfate	18.8	10.0	mg/L	20.0		94.2	80-120	2.80	20	
Batch 0100209 - General Prep - Wet Chem										
LCS (0100209-BS1)				Prepared & Analyzed: 02-Oct-20						
pH	7.08		pH Units	7.00		101	90-110			
Conductivity	50300		uS/cm	50000		101	80-120			
Duplicate (0100209-DUP1)				Source: H002616-01 Prepared & Analyzed: 02-Oct-20						
pH	6.83	0.100	pH Units		6.80			0.440	20	
Conductivity	24200	1.00	umhos/cm @ 25°C		24200			0.165	20	
Temperature °C	23.1		pH Units		23.1			0.00	200	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905

Reported:
15-Oct-20 11:03

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 0100210 - General Prep - Wet Chem**Blank (0100210-BLK1)**

Prepared & Analyzed: 02-Oct-20

Alkalinity, Carbonate	ND	1.00	mg/L
Alkalinity, Bicarbonate	5.00	5.00	mg/L
Alkalinity, Total	4.00	4.00	mg/L

LCS (0100210-BS1)

Prepared & Analyzed: 02-Oct-20

Alkalinity, Carbonate	ND	2.50	mg/L				80-120
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120

LCS Dup (0100210-BSD1)

Prepared & Analyzed: 02-Oct-20

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	8.20	20
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	8.00	20

Batch 0100215 - Filtration**Blank (0100215-BLK1)**

Prepared: 02-Oct-20 Analyzed: 07-Oct-20

TDS	ND	5.00	mg/L
-----	----	------	------

LCS (0100215-BS1)

Prepared: 02-Oct-20 Analyzed: 07-Oct-20

TDS	512		mg/L	500		102	80-120
-----	-----	--	------	-----	--	-----	--------

Duplicate (0100215-DUP1)

Source: H002613-03

Prepared: 02-Oct-20 Analyzed: 08-Oct-20

TDS	1280	5.00	mg/L	1500		15.9	20
-----	------	------	------	------	--	------	----

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Analytical Results For:

TALON LPE
408 W. TEXAS AVE.
ARTESIA NM, 88210

Project: REVOLUTION MIDSTREAM WELLS
Project Number: 702878.001.01
Project Manager: DAVID ADKINS
Fax To: (575) 745-8905

Reported:
15-Oct-20 11:03

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 B202129 - Total Rec. 200.7/200.8/200.2										
Blank (B202129-BLK1)				Prepared: 08-Oct-20 Analyzed: 13-Oct-20						
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
LCS (B202129-BS1)				Prepared: 08-Oct-20 Analyzed: 13-Oct-20						
Magnesium	20.2	0.100	mg/L	20.0		101	85-115			
Calcium	3.99	0.100	mg/L	4.00		99.9	85-115			
Potassium	8.11	1.00	mg/L	8.00		101	85-115			
Sodium	3.20	1.00	mg/L	3.24		98.8	85-115			
LCS Dup (B202129-BSD1)				Prepared: 08-Oct-20 Analyzed: 13-Oct-20						
Sodium	3.16	1.00	mg/L	3.24		97.6	85-115	1.22	20	
Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.128	20	
Potassium	7.95	1.00	mg/L	8.00		99.4	85-115	1.99	20	
Calcium	3.98	0.100	mg/L	4.00		99.5	85-115	0.353	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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 9

Company Name: TALON LPE				BILL TO				ANALYSIS REQUEST													
Project Manager: D. ADKINS				P.O. #: 702870,001,01				Cation / Anion													
Address: 408 W. TEXAS AVE.				Company: TALON LPE																	
City: ARTESIA State: NM Zip: 88210				Attn: D. ADKINS																	
Phone #: 575-746-8768 Fax #:				Address:																	
Project #: 702870,001,01 Project Owner:				City:																	
Project Name: REVOLUTION MIDSTREAM WELLS				State: Zip:																	
Project Location: EDDY COUNTY, NM				Phone #:																	
Sampler Name: MICHAEL COLLIER				Fax #:																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR C/COMP)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME							
H002616	1 C-04340 - POD 5		2	✓						✓			10-01-20	9:30							
	2 C-04340 - POD 1		2	✓						✓			10-01-20	10:00							

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Relinquished By:	Date: 10/01 Time: 2:00	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 10/01 Time: 10:55	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C 5.2	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	CHECKED BY:	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Thermometer ID #113 Correction Factor None	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

FORM-005 R 3.1 08/04/20

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

Attachment #4

XII. Affirmative Statement

Based on the available engineering and geologic data at the above mention well located 983 feet FNL and 965 feet FEL of Section 35, Township 21 South, Range 27 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.

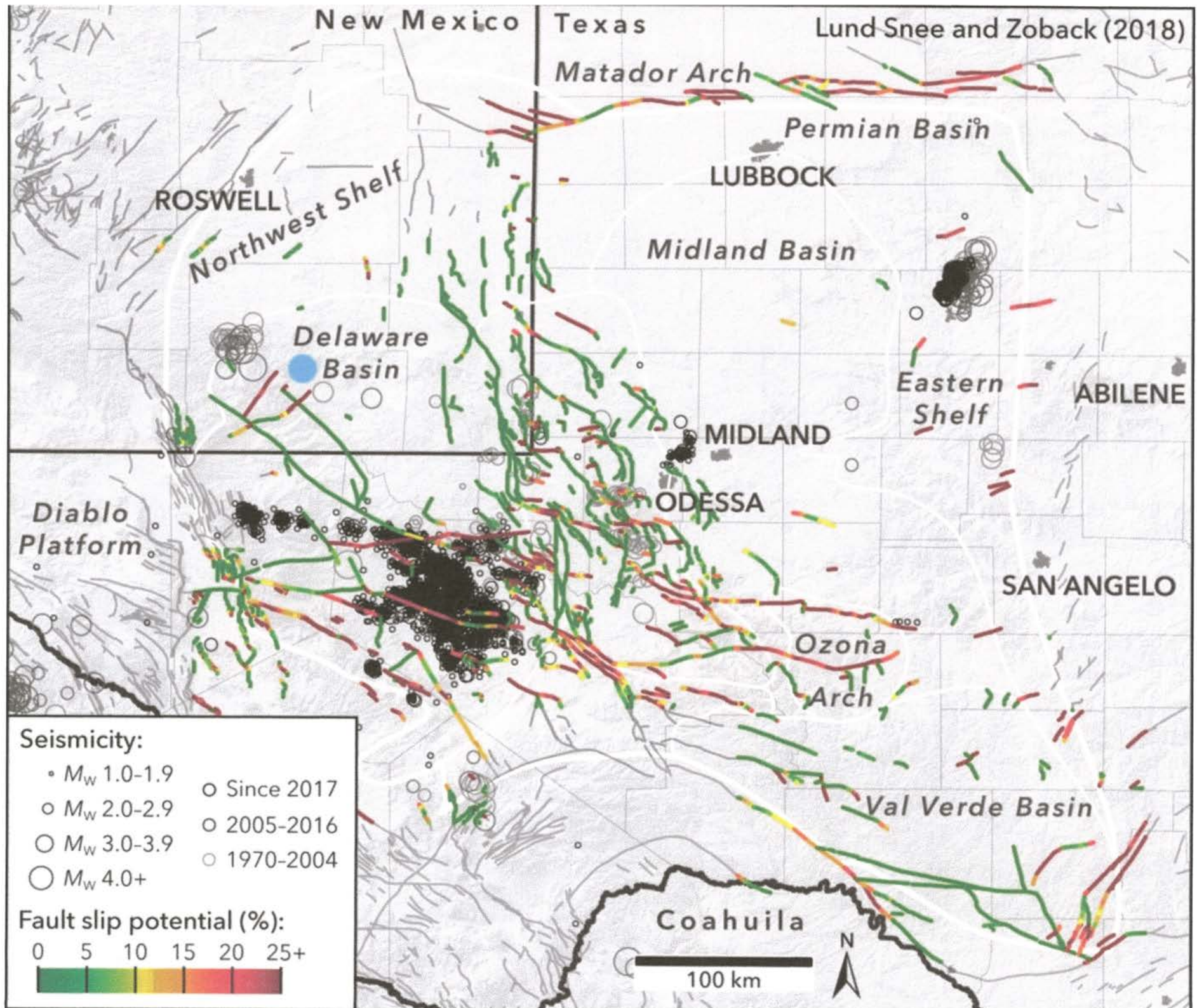
Respectively Submitted,



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

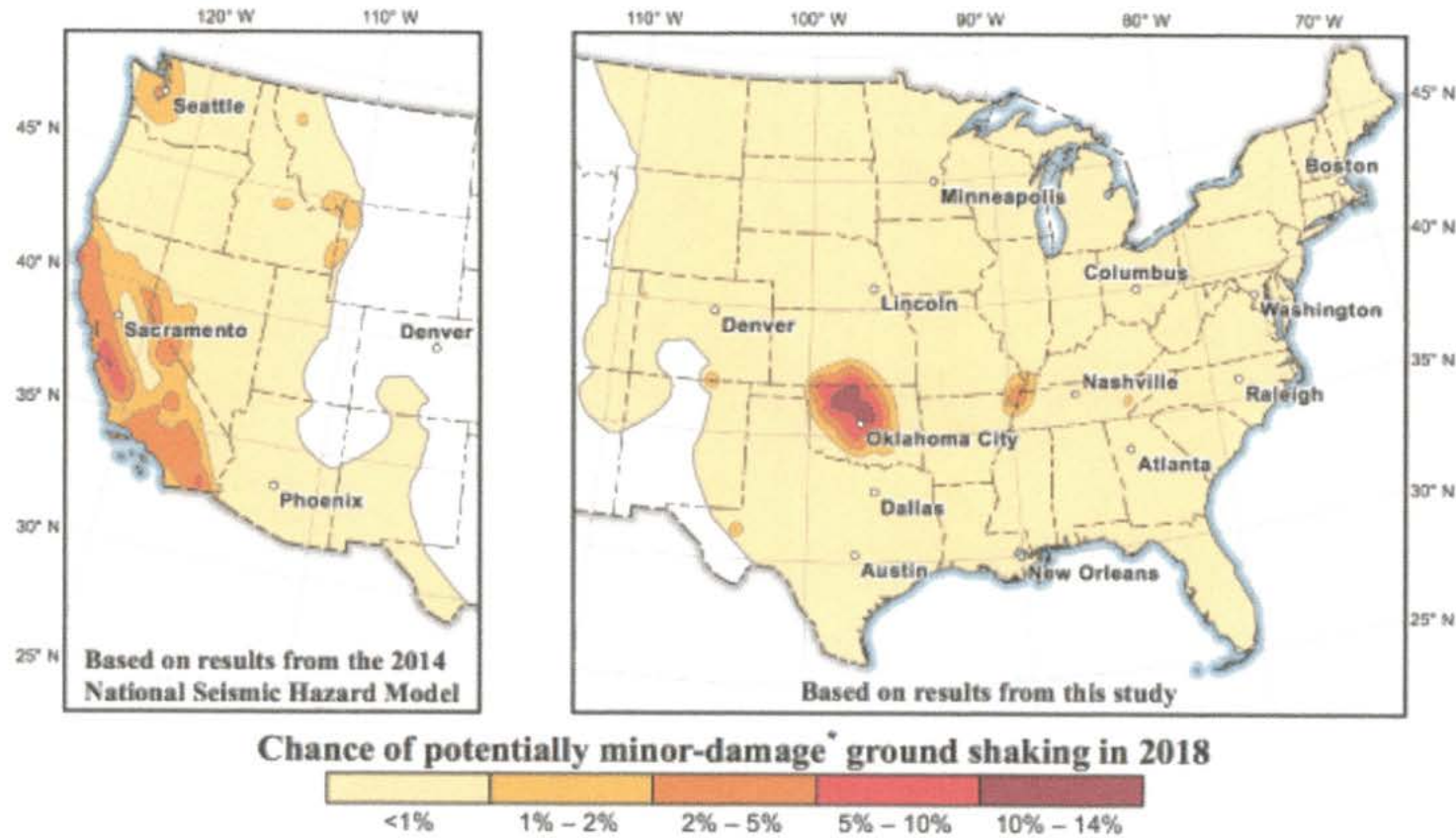


Attachment #5



Attachment #6

Short-term Seismicity Model 2018



Attachment #7

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

2

Maximum

Date & Time

- ☐ Past 7 Days
- ☐ Past 30 Days
- ☐ Custom

Start (UTC)

1900-01-01 00:00:00

End (UTC)

2020-09-24 23:59:59

Geographic Region

- ☐ World
- ☐ Conterminous U.S.¹
- ☐ Custom

Custom Circle

- 32.44109679 Latitude
- -104.1548305 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

32.44109679

Center Longitude

-104.15483050

Outer Radius (km)

15

Review Status

- ☐ Any
- ☐ Automatic
- ☐ Reviewed

+ Event Type

☐ **Impact (PAGER, ShakeMap, DYFI)**

☐ **Catalog**

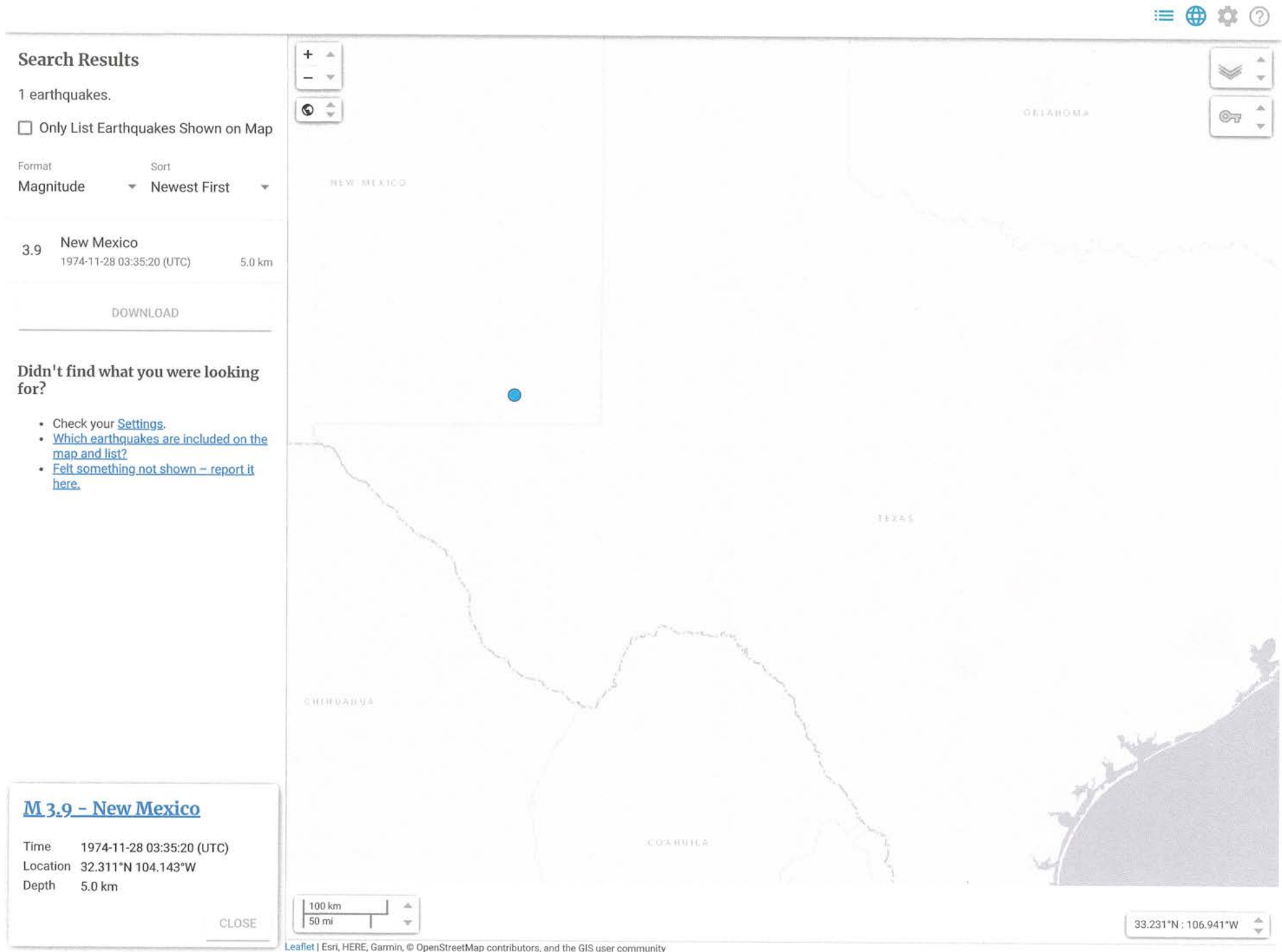
☐ **Contributor**

☐ **Product Type**

☐ **Output Options**

Search

¹Conterminous U.S. refers to a rectangular region including the lower 48 states and surrounding areas which are outside the Conterminous U.S.



Attachment #8

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004418394

This is not an invoice

REV MIDSTREAM SWD #1, LLC
PO BOX 12878

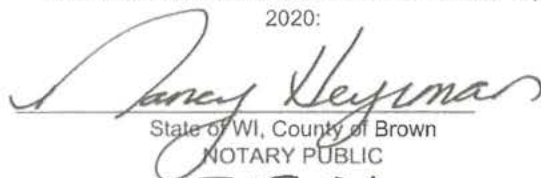
OKLAHOMA CITY, OK 73157

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:

10/13/2020


Legal Clerk

Subscribed and sworn before me this October 13, 2020:


State of WI, County of Brown
NOTARY PUBLIC
5.15.23
My commission expires

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 #1 as a salt water disposal well. The AABCD #1 is located 983 feet FNL and 965 feet FEL, in Section 35, Township 21 South, and Range 27 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. #4418394, Current Argus, October 13, 2020

NANCY HEYRMAN
Notary Public
State of Wisconsin

Ad # 0004418394
PO #: Form C-108
of Affidavits 1

This is not an invoice

Attachment #9

Notification To Interested Parties

RE: Application for Authorization to Inject
AABCD #1
Township 21S, Range 27E
Section 35, 983' FNL & 965' FEL
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 #1.

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 #1
Notification List

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 1965	10/28/2020
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	7019 0140 0000 0115 1828	10/28/2020
New Mexico OCD	1220 S St. Francis Dr.	Santa Fe, NM 87505	USPS	7019 0140 0000 0115 1835	10/28/2020
New Mexico OCD - District 2	811 S. First	Artesia, NM 88210	USPS	7019 0140 0000 0115 1842	10/28/2020
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	7019 0140 0000 0115 1897	10/28/2020
MATADOR PRODUCTION COMPANY	5400 LBJ Freeway, Suite 1500	Dallas, TX 75240	USPS	7019 0140 0000 0115 1873	10/28/2020
MEWBOURNE OIL CO	3901 S Broadway Ave	Tyler, TX 75701	USPS	7019 0140 0000 0115 1972	10/28/2020
OCCIDENTAL PERMIAN LTD	P.O. Box 4294	Houston, TX 77210	USPS	7019 0140 0000 0115 1910	10/28/2020
EOG Resources, INC.	P.O. Box 4362	Houston, TX 77210-4362	USPS	7019 0140 0000 0115 1927	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 1859	10/28/2020
Kane Resources, LLC	P.O. Box 471096	Fort Worth, TX 76147	USPS	7019 0140 0000 0115 1958	10/28/2020
Mason Oaks Energy Holdings, LLC	6125 Luther Lane, #188	Dallas, TX 75225	USPS	7019 0140 0000 0115 1880	10/28/2020
Anthony Moschetto	P.O. Box 600635	Dallas, TX	USPS	7019 0140 0000 0115 1866	10/28/2020
Mr. & Mrs. Charles R. Wiggins	P.O. Box 10862	Midland, TX 79702	USPS	7019 0140 0000 0115 1903	10/28/2020