

# Initial Application Part I

Received: 12/11/2019

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

GA6A9-191211-C-1080

Revised March 23, 2017

RECEIVED: 12/11/19	REVIEWER: BLL	TYPE: SWD	APP NO: pBL1934553688
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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:** Permian Water Solutions, LLC **OGRID Number:** 373626  
**Well Name:** Rusty Nail SWD 1 **API:** 30-015-  
**Pool:** SWD; Devonian **Pool Code:** 96101

**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-2352

- 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.**

Brian Wood

Print or Type Name

Signature

12-10-19

Date

505 466-8120

Phone Number

brian@permitswest.com

e-mail Address

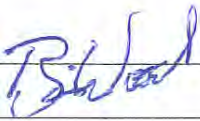


STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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 XXX Disposal Storage  
Application qualifies for administrative approval? XXX Yes No
- II. OPERATOR: PERMIAN WATER SOLUTIONS, LLC  
ADDRESS: 600 TRAVIS ST., SUITE 4700, HOUSTON TX 77002  
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes XXX 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.  
**Rusty Nail SWD 1**  
**Devonian (96101)**
- 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: BRIAN WOOD  TITLE: CONSULTANT  
SIGNATURE: \_\_\_\_\_ DATE: DEC. 9, 2019  
E-MAIL ADDRESS: brian@permitswest.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

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

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.



Side 1

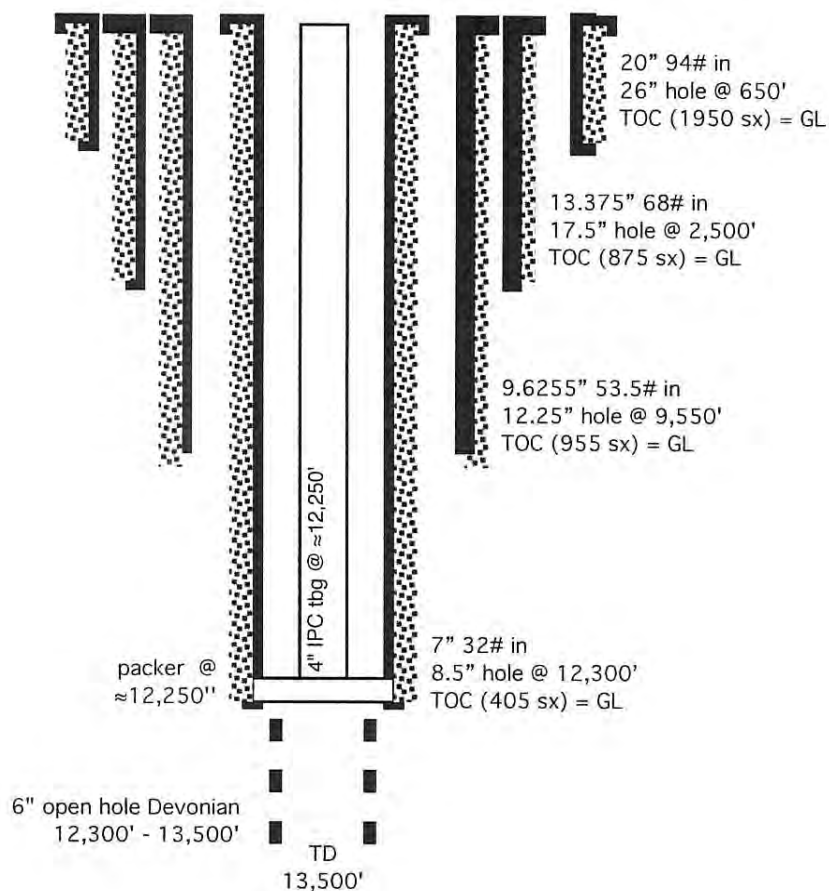
## INJECTION WELL DATA SHEET

OPERATOR: PERMIAN WATER SOLUTIONS, LLCWELL NAME & NUMBER: RUSTY NAIL SWD 1

WELL LOCATION: <u>333' FNL &amp; 1144' FEL</u>	<u>A</u>	<u>27</u>	<u>20 S</u>	<u>28 E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface CasingHole Size: 26" Casing Size: 20"Cemented with: 1950 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: GL Method Determined: CIRC.Intermediate Casing

Hole Size: <u>17.5"</u>	Casing Size: <u>13.375"</u>
<u>12.25"</u>	<u>9.625"</u>
<u>875</u>	

Cemented with: 955 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: GL Method Determined: CIRC. & CBLProduction CasingHole Size: 8.5" Casing Size: 7" @ 12,300'Cemented with: 405 sx. *or* \_\_\_\_\_ ft<sup>3</sup>Top of Cement: GL Method Determined: CBLTotal Depth: CSG @ 12,300' & TD @ 13,500'Injection Interval6.0" OPEN HOLE 12,300 feet to 13,500'

(Perforated or Open Hole; indicate which)

■■■■■■■■■■

Side 2

**INJECTION WELL DATA SHEET**Tubing Size: 4 " Lining Material: IPCType of Packer: 4 " x 7 " STAINLESS STEEL OR NICKELPacker Setting Depth: ≈12,250 '

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? xxx Yes \_\_\_\_\_ No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: DEVONIAN

3. Name of Field or Pool (if applicable): SWD; DEVONIAN (POOL CODE 96101)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. \_\_\_\_\_

NO

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

OVER: YATES (760'), DELAWARE (2890'), BONE SPRING (5270'), WOLFCAMP (8850'), STRAWN (10030'), ATOKA (10450'), & MORROW (10765')UNDER: NONE



PERMIAN WATER SOLUTIONS, LLC  
RUSTY NAIL SWD 1  
333' FNL & 1144' FEL  
SEC. 27, T. 20 S., R. 28 E., EDDY COUNTY, NM

PAGE 1

I. Goal is to drill a 13,500' deep commercial saltwater disposal well. Proposed disposal interval will be 12,300' – 13,500' in the SWD; Devonian (96101). See Exhibit A for C-102 and map. Well is on fee surface and fee minerals.

II. Operator: Permian Water Solutions, LLC [OGRID 373626]  
Operator phone number: (432) 305-4124  
Operator address: 600 Travis St., Suite 4700  
Houston, TX 77002  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease name: Rusty Nail SWD (fee)  
Well name and number: Rusty Nail SWD 1  
Location: 333' FNL & 1144' FEL Section 27, T. 20 S., R. 28 E.

A. (2) Surface casing (20", 94#) will be set at 650' in a 26" hole and cemented to GL with 1950 sacks.

Intermediate casing 1 (13.375", 68#) will be set at 2500' in a 17.5" hole and cemented with 875 sacks.

Intermediate casing 2 (9.625", 53.5#) will be set at 9,550' in a 12.25" hole and cemented with 955 sacks.

Intermediate casing 3 (7", 32#) will be set at 12,300' in an 8.5" hole and cemented with 405 sacks. Intermediate casing strings will be cemented to GL.

A 6" open hole will be drilled to 13,500'.

A. (3) Tubing will be IPC, 4", P-110 set at  $\approx$ 12,250'. (Disposal interval will be 12,300' to 13,500'.)

PERMIAN WATER SOLUTIONS, LLC  
RUSTY NAIL SWD 1  
333' FNL & 1144' FEL  
SEC. 27, T. 20 S., R. 28 E., EDDY COUNTY, NM

PAGE 2

- A. (4) A stainless-steel or nickel 4" x 7" packer will be set at  $\approx 12,250'$  (or  $\leq 100'$  above the top of the open hole which will be at 12,300').
- B. (1) Disposal zone will be the Devonian (SWD; Devonian (96101) pool). Estimated fracture gradient is  $\approx 0.65$  psi per foot.
- B. (2) Disposal interval will be open hole from 12,300' to 13,500'.
- B. (3) Well has not been drilled. It will be drilled as a saltwater disposal well.
- B. (4) No perforated intervals are in the well.
- B. (5) Productive zones in the area of review and above the Devonian (12,275') are the Yates (760'), Delaware (2,890'), Bone Spring (5,270'), Wolfcamp (8,850'), Strawn (10,030'), Atoka (10,450') and Morrow (10,765'). No oil or gas zone is below the Devonian in the area of review.

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit B shows and tabulates the 27 existing wells within a one mile radius. Eighteen of the wells are P&A. Deepest of the 27 wells is 11,600' TVD. Exhibit C shows all 136 existing wells (3 water + 44 oil or gas + 88 P&A + 1 SWD (Delaware) within a two-mile radius.

All leases within a one-mile radius are BLM, fee, or NMSLO. Exhibit D shows and tabulates all leases within a one-mile radius. Two-mile radius leases are BLM, fee, or NMSLO (Exhibit E).

VI. No Devonian penetrator is within a mile. Deepest (11,600' TVD) well within a mile bottomed in the Barnett, 675' above the Devonian. (APD and SWD approval for a Devonian; SWD well (30-015-41982) 0.91 mile south expired in 2017 prior to drilling.)



PERMIAN WATER SOLUTIONS, LLC  
 RUSTY NAIL SWD 1  
 333' FNL & 1144' FEL  
 SEC. 27, T. 20 S., R. 28 E., EDDY COUNTY, NM

PAGE 3

- VII. 1. Average injection rate will be  $\approx 25,000$  bwpd.  
 Maximum injection rate will be 30,000 bwpd.
2. System will be open and closed. Water will both be trucked and piped.
3. Average injection pressure will be  $\approx 2,250$  psi.  
 Maximum injection pressure will be 2,460 psi ( $= 0.2$  psi/foot  $\times 12,300'$  (top of open hole)).
4. Disposal water will be produced water, mainly Bone Spring and Wolfcamp. There are 153 approved Bone Spring wells and 54 approved Wolfcamp wells in T. 20 S., R. 28 E and the adjacent T. 21 S., R. 27 E. The well will take other Permian Basin waters (e. g., Delaware, Morrow) too. Abstracts from the NM Produced Water Quality Database v.2 for wells in T. 20 S., R. 28 E. are in Exhibit F. A table of TDS ranges from those wells in T. 20 S., R. 28 E. is below. Two Devonian samples from 30-015-02475 (10 miles southeast) found TDS at 16,223 and 19,941.

Formation	TDS range (mg/l)
Artesia	3,211 – 81,000
Bone Spring	1,595 – 197,409
Capitan	22,198 – 22,205
Delaware	7,792 – 161,114
Morrow	31,643 – 44,978
Rustler	3,735
San Andres	210,774
Tansill	3,237 – 3,728
Wolfcamp	40,785 – 297,557

No compatibility problems have been reported from the closest active Devonian; SWD wells. At least 9,893,315 barrels have been disposed in 30-015-30828 (2.8 miles northeast) and 1,400,298 barrels have been disposed in 30-015-32274 (2.8 miles southwest).

5. Closest Devonian producer (30-015-05614) is >17 miles northeast.

PERMIAN WATER SOLUTIONS, LLC  
RUSTY NAIL SWD 1  
333' FNL & 1144' FEL  
SEC. 27, T. 20 S., R. 28 E., EDDY COUNTY, NM

PAGE 4

VIII. The Devonian (estimated 1200' thick) consists of limestone and dolomite. Closest possible underground source of drinking water above the proposed disposal interval are the Quaternary red beds at the surface. According to State Engineer records (Exhibit G), deepest water well within 2 miles is 170' deep and closest water well is 1.18 mile southeast. No underground source of drinking water is below the proposed disposal interval.

Estimated formation tops are:

Quaternary = 0'  
Yates = 760'  
Capitan = 965'  
Delaware = 2890'  
Bone Spring = 5270'  
Wolfcamp = 8850'  
Strawn = 10030'  
Atoka = 10450'  
Morrow = 10765'  
Barnett = 11355'  
Devonian = 12275'  
*disposal interval = 12300' - 13500'*  
TD = 13500'

According to State Engineer records (Exhibit G), closest water well is 1.18 mile southeast. Its depth is 109'. There will be >12,000' of vertical separation including shale, salt, and anhydrite intervals between the bottom of the only likely underground water source (Quaternary red beds) and the top of the Devonian.

IX. Well will be stimulated with acid as needed.

X. Deviation surveys and CBL, CNL, GR, and DLL logs will be run.

XI. According to State Engineer records (Exhibit G), three water wells are within a 2-mile radius. None were found during a September 24, 2019 field inspection.



PERMIAN WATER SOLUTIONS, LLC  
RUSTY NAIL SWD 1  
333' FNL & 1144' FEL  
SEC. 27, T. 20 S., R. 28 E., EDDY COUNTY, NM

PAGE 5

However, two water wells (0.28 mile south and 1.22 mile WNW) not in the State Engineer records were found and sampled that day. Well is in the Capitan Reef and all casing strings will be cemented to the surface.

XII. Permian Water Solutions, LLC (Exhibit H) is not aware of any geologic or engineering data that may indicate the Devonian is in hydrologic connection with any underground sources of water. Deepest water well within a 2-mile radius is 250'. There are 256 approved Devonian SWD APDs in New Mexico, of which 154 are active. Closest Quaternary fault is  $\approx$ 56 miles southwest.

XIII. A legal ad (Exhibit I) was published on November 19, 2019. Notice (Exhibit J) and this application has been sent to the surface owner (Harley & Carol Ballard), all well operators regardless of depth, government lessors, lessees, and operating right holders within a mile.

TOPO! map printed on 09/13/19 from "Untitled.tpo"

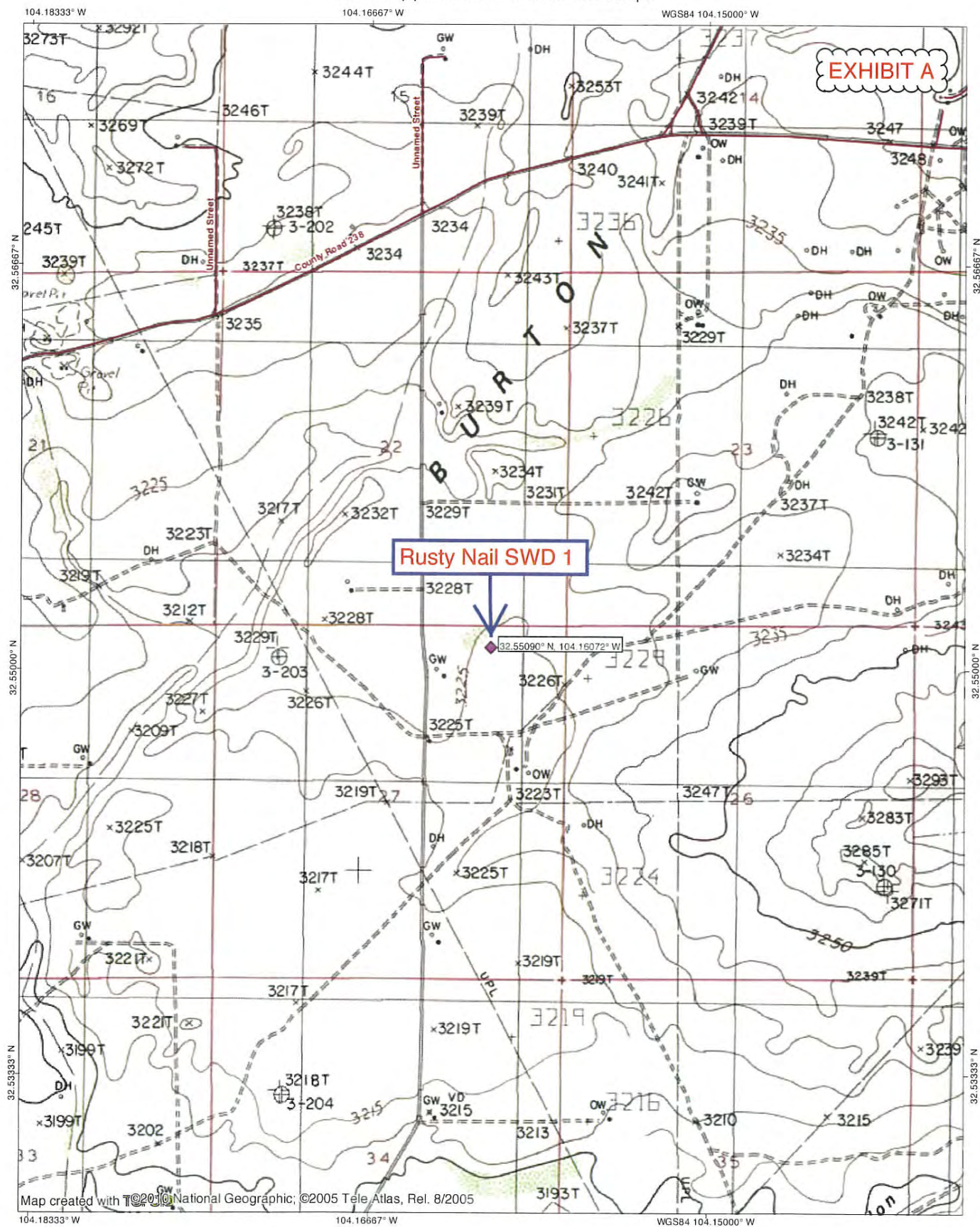
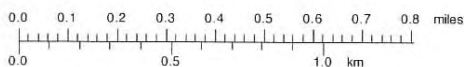


EXHIBIT A

Rusty Nail SWD 1

Map created with TOPO! National Geographic, ©2005 Tele Atlas, Rel. 8/2005



TN MN

7°

09/13/19



**EXHIBIT A**

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 <b>30-015-</b>	<sup>2</sup> Pool Code <b>96101</b>	<sup>3</sup> Pool Name <b>SWD; Devonian</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>RUSTY NAIL SWD</b>	<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>373626</b>	<sup>8</sup> Operator Name <b>PERMIAN WATER SOLUTIONS, LLC</b>	<sup>9</sup> Elevation <b>3227±</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	20 S	28 E	N/A	333'	NORTH	1144'	EAST	EDDY

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

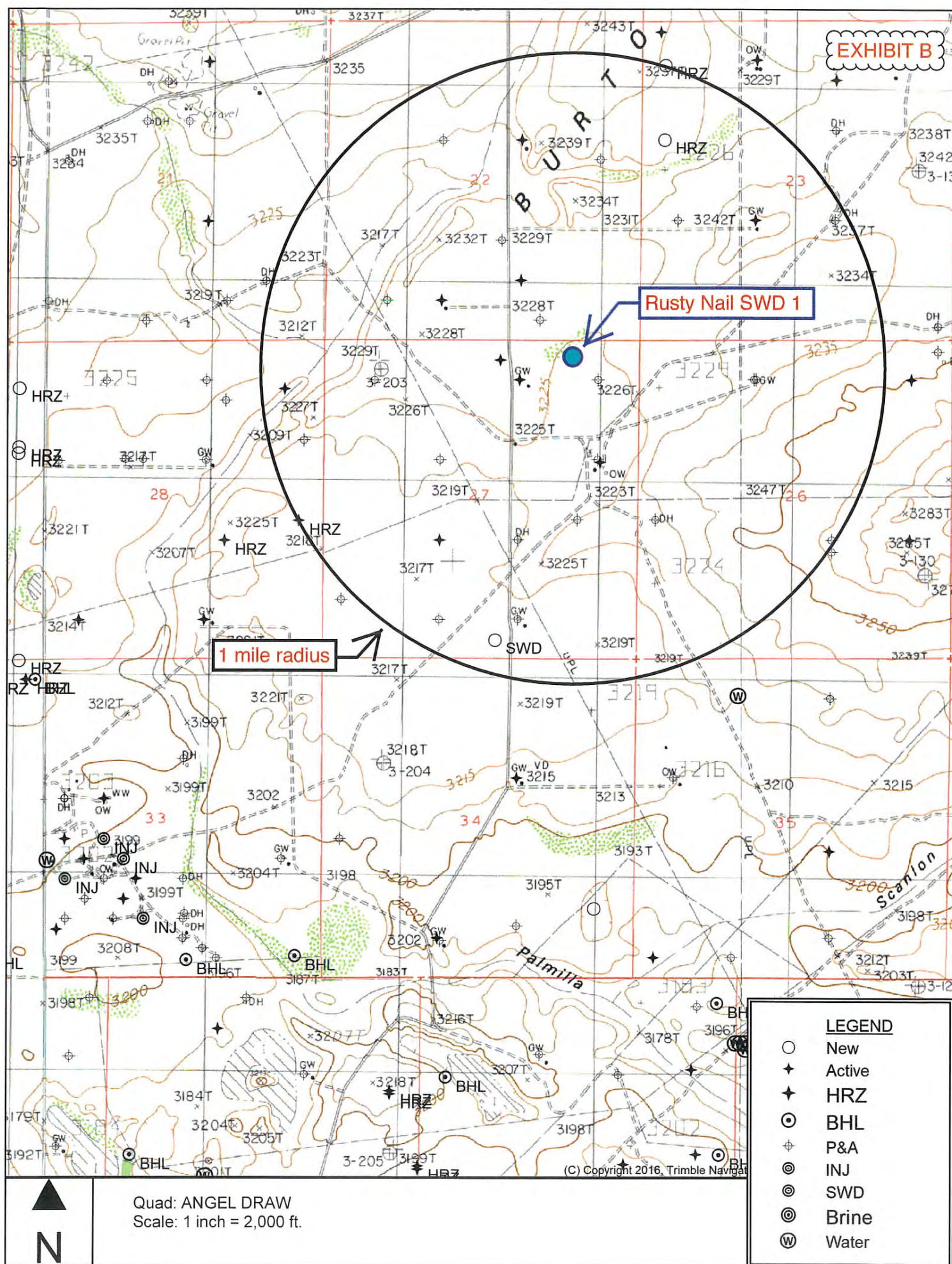
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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

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		<p>RUSTY NAIL SWD</p> <p>NMSP-E (NAD27) N: 564132.31' E: 553341.10'</p>	<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  <b>10-20-19</b> Signature Date <b>BRIAN WOOD</b> Printed Name <b>brian@permitswest.com</b> E-mail Address <b>(505) 466-8120</b> E-mail Address
		<p>NMSP-E (NAD83) N: 564193.52' E: 594521.53' LAT: N032.550906 LONG: W104.160725</p>	
		SECTION 27	<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 6/24/19 Date of Survey Signature and Seal of Professional Surveyor  23002 Certificate Number







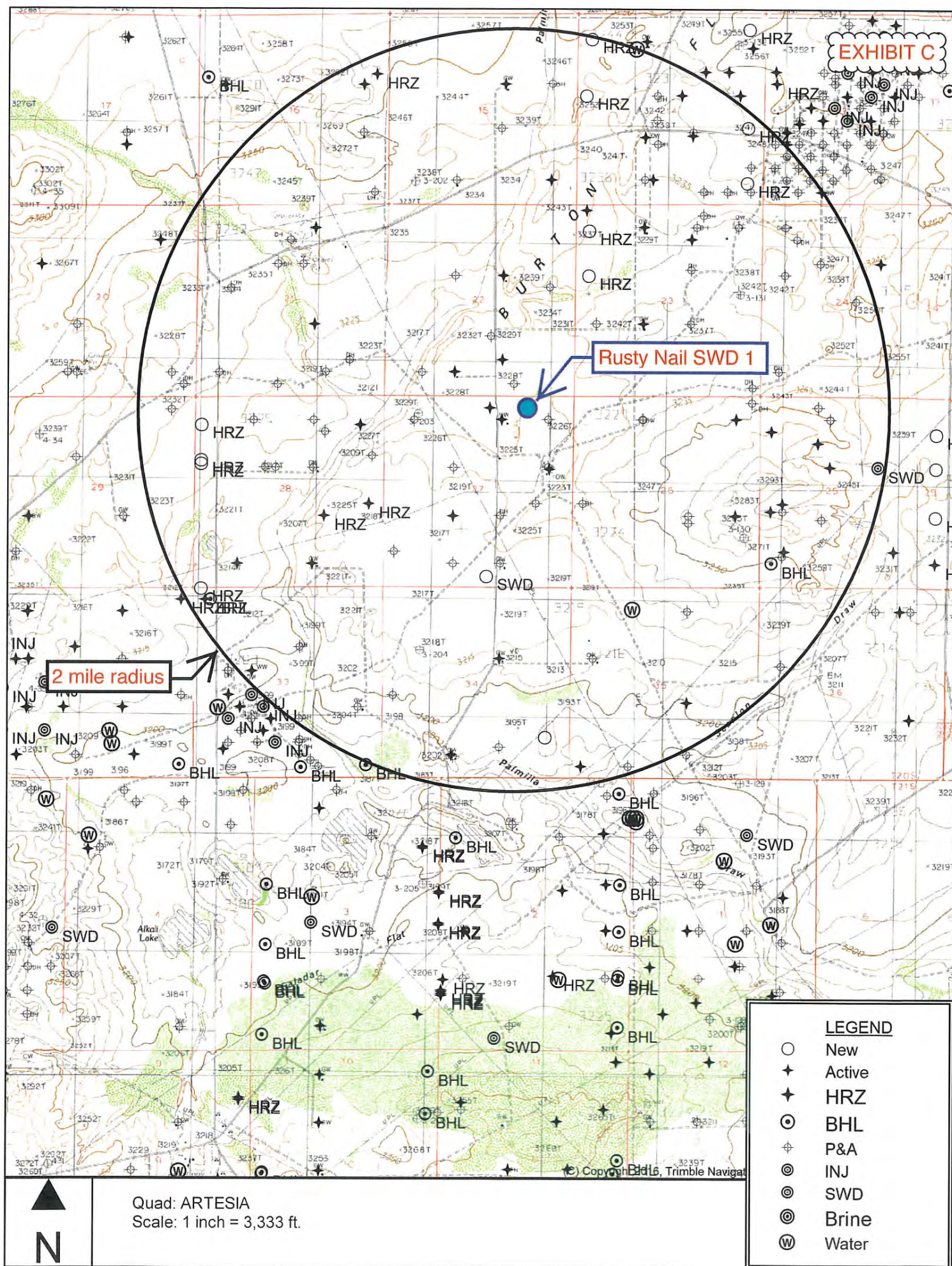
## SORTED BY DISTANCE FROM RUSTY NAIL SWD 1

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T20S-R28E	TVD	ZONE @ TD	FEET FROM RUSTY NAIL SWD 1
3001502432	Wills	Harrell et al 002	P&A	A-27	833	Yates	569
3001502416	Wills	Fed Union 001	P&A	O-22	904	Yates	842
3001521027	Devon	Burton Flat Deep Unit 011	G	B-27	11500	Barnett	921
3001529359	Nordstrand	Rains 27 001	G	B-27	810	Yates	1189
3001526253	OXY USA	Government W 002	G	O-22	11492	Morrow	1569
3001502651	Wills	Harrell et al 001	P&A	H-27	810	Yates	1708
3001502650	Permex	Harrell 001	O	H-27	736	Yates	1767
3001530674	E G L	Oxy Yates 22 Federal 005	P&A	J-22	817	Yates	2301
3001521067	OXY USA	Government W Com 001	G	N-22	11523	Chester	2379
3001502539	A H Rains	Hondo Fed 001	P&A	I-27	791	Yates	2658
3001524664	Devon Louisiana	Burton Flat Deep Unit 015	P&A	F-27	5600	Bone Spring	2740
3001530595	E G L	Oxy Yates 23 Federal 004	P&A	L-23	820	Yates	2943
3001502428	William B Barnhill	Connelly Fed 001	P&A	L-26	887	Yates	3021
3001502433	Wills	Wright 002	P&A	J-27	901	Yates	3117
3001521304	BHP	Burton Flat Deep Unit 012	P&A	C-26	11475	Morrow	3135
3001502429	Forrest E Levers	Levers Fed 002	P&A	C-26	1062	Seven Rivers	3165

## SORTED BY DISTANCE FROM RUSTY NAIL SWD 1

3001529167	OXY USA	OXY 22 Federal 001	P&A	M-22	906	Yates	3242
3001530808	E G L	Oxy Yates 27 Federal 010	P&A	D-27	801	Yates	3316
3001530673	E G L	Oxy Yates 22 Federal 006	P&A	H-22	795	Yates	3361
3001527800	Devon	Burton Flat Deep Unit 041	G	K-27	11400	Barnett	3709
3001521020	OXY USA	Government U Com 001	G	G-22	11600	Chester	3742
3001521242	OXY USA	Government Z Com 001	G	K-23	11485	Chester	3904
3001526402	OXY USA	Government U 002	P&A	F-22	11525	Chester	4230
3001520959	Devon	Burton Flat Deep Unit 008	P&A	O-27	11460	Barnett	4398
3001502435	Collier & Bassett	Miller State 001	P&A	H-28	766	Yates	4695
3001502431	Wills	Wright 001	P&A	N-27	989	Yates	4837
3001534416	COG	Blue Ridge 28 State 001	G	A-28	11600	Chester	4852
3001540518	Devon	Burton Flat Deep Unit 048H	O	I-28	6535	Bone Spring	5302

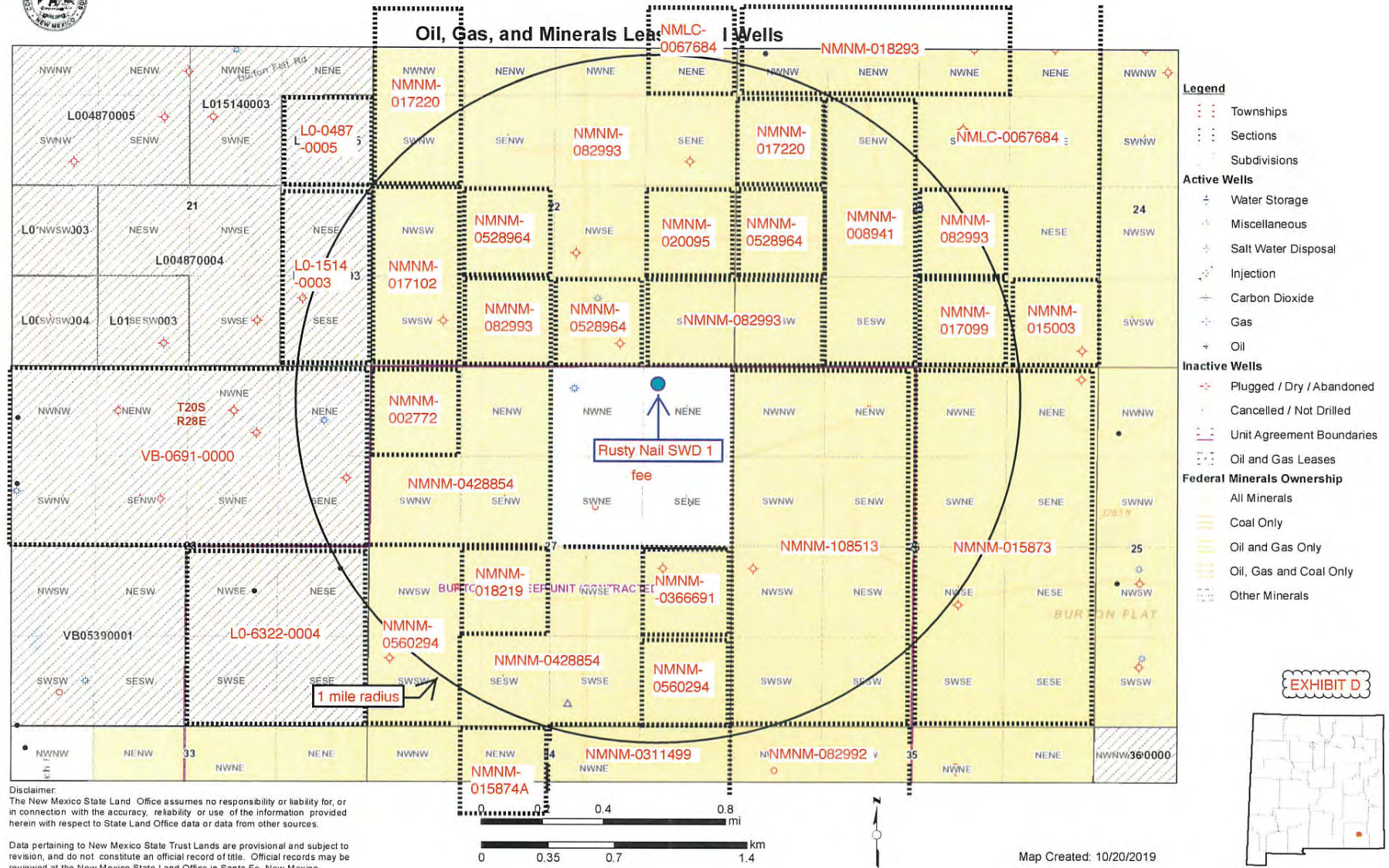








New Mexico State Land Office





## RUSTY NAIL SWD 1 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review (T. 20 S., R. 28 E.)	Lessor	Lease	Lessee(s) of Record	Well Operators (all shallower than Devonian)
SENE Sec. 21	NMSLO	LO-0487-0005	EOG	Oxy USA WTP
E2SE4 Sec. 21	NMSLO	LO-1514-0003	Magnum Hunter	Vision Energy
NENE Sec. 22	BLM	NMLC-0067684	Oxy USA WTP, Tanos, Devon, Marr, Tighe, Dunigan	Oxy USA WTP
NWNE, NENW, SENW, S2NE4, & NWSE Sec. 22	BLM	NMNM-082993	Oxy USA WTP	Oxy USA WTP
W2NW4 Sec. 22	BLM	NMNM-017220	Oxy USA WTP	Oxy USA WTP
NESE Sec. 22	BLM	NMNM-020095	Oxy USA WTP, Gilmore Truusts, Martin, Hurt, Gilmore Resources, Wheeler	Oxy USA WTP
NESW Sec. 22	BLM	NMNM-0528964	Oxy USA WTP	Oxy USA WTP
W2SW4 Sec. 22	BLM	NMNM-017102	Great Western, Davoil	Oxy USA WTP
SESW Sec. 22	BLM	NMNM-082993	Oxy USA WTP	Oxy USA WTP
SWSE Sec. 22	BLM	NMNM-0528964	Oxy USA WTP	Oxy USA WTP
SESE Sec. 22	BLM	NMNM-082993	Oxy USA WTP	Oxy USA WTP
N2NW4 Sec. 23	BLM	NMNM-018293	Sabinal, Oxy USA WTP, Devon, Tanos	Oxy USA WTP
SWNW Sec. 23	BLM	NMNM-017220	Oxy USA WTP	Oxy USA WTP
SENE & E2SW4 Sec. 23	BLM	NMNM-008941	Oxy USA WTP	Oxy USA WTP
SWNE Sec. 23	BLM	NMLC-0067684	Oxy USA WTP, Tanos, Devon, Marr, Tighe, Dunigan	Oxy USA WTP
NWSE Sec. 23	BLM	NMNM-082993	Oxy USA WTP	Oxy USA WTP
NWSW Sec. 23	BLM	NMNM-0528964	Oxy USA WTP	Oxy USA WTP
SWSW Sec. 23	BLM	NMNM-082993	Oxy USA WTP	Oxy USA WTP
SWSE Sec. 23	BLM	NMNM-017099	Oxy USA WTP	Oxy USA WTP
SESE Sec. 23	BLM	NMNM-015003	Oxy USA WTP	Oxy USA WTP
NE4 & W2SE4 Sec. 26	BLM	NMNM-015873	Colgate	Colgate, Mewbourne
W2 Sec. 26	BLM	NMNM-108513	Devon	N/A
NE4 Sec. 27	fee	Burton Flat Deep Unit, Harrell, & Rains	Devon, Permex	Devon, Permex
E2NW4 & SWNW Sec. 27	BLM	NMNM-0428854	Devon	Devon

## RUSTY NAIL SWD 1 AREA OF REVIEW LEASES

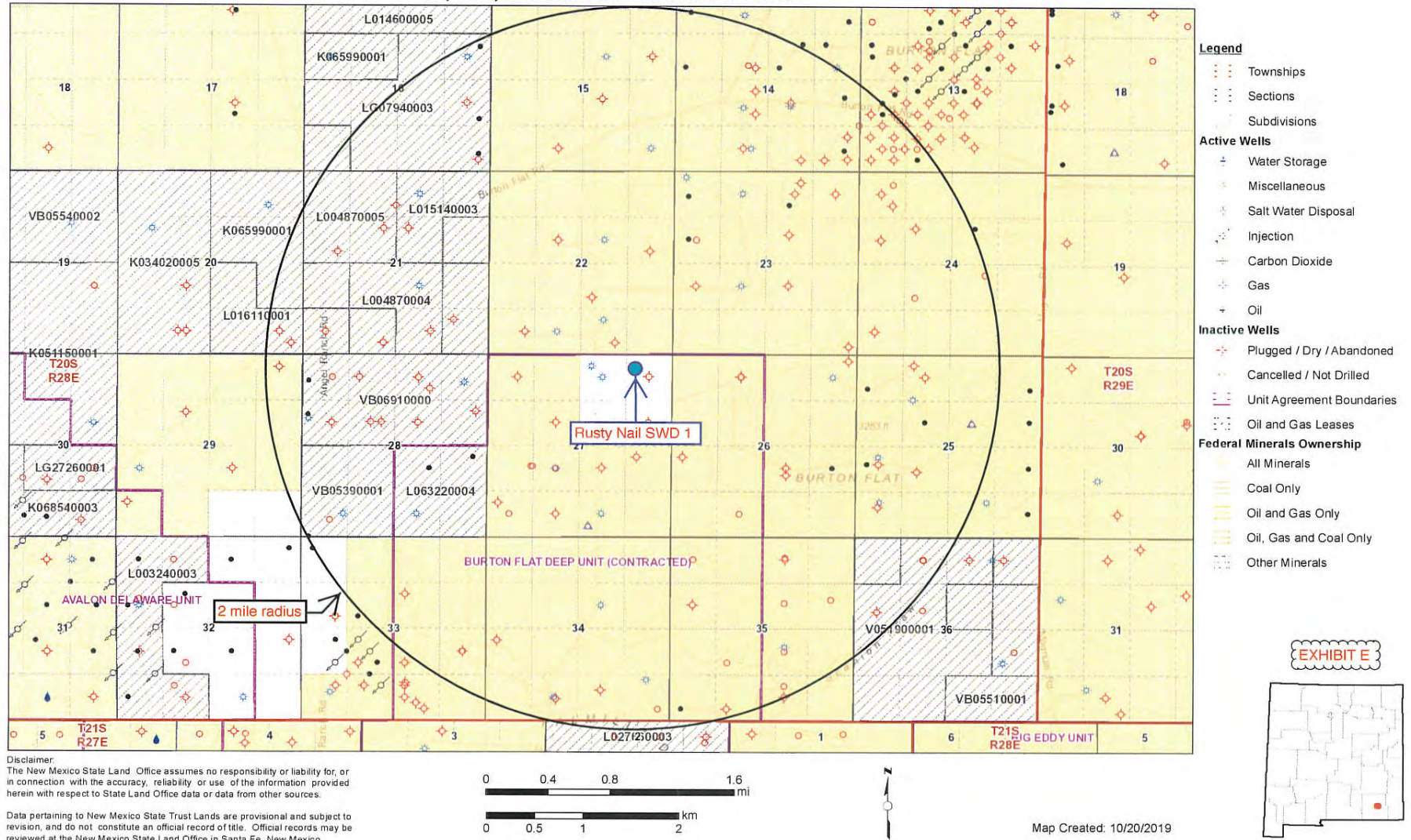
NWNW Sec. 27	BLM	NMNM-002772	Great Western, Davoil	Devon
NESE Sec. 27	BLM	NMNM-0366691	Kerr-McGee (Anadarko, Oxy)	Devon
NWSE, SESW, & SWSE Sec. 27	BLM	NMNM-0428854	Devon	Devon
NESW Sec. 27	BLM	NMNM-018219	Antelope, Johnston, Wheeler, Hurt, Hurt Properties, Gilmore Resources, Martin	Devon
W2SW4 Sec. 27	BLM	NMNM-0560294	Devon	Devon
SESE Sec. 27	BLM	NMNM-0560294	Devon	Devon
E2NE4 Sec. 28	NMSLO	VB-0691-0000	COG	COG
NESE Sec. 28	NMSLO	L0-6322-0004	Ocean Permian	Devon
NENW Sec. 34	BLM	NMNM-015874A	Devon	Devon
N2NE4 Sec. 34	BLM	NMNM-0311499	Sabinal, Devon	Devon
NWNW Sec. 35	BLM	NMNM-082992	Devon	N/A





New Mexico State Land Office

## Oil, Gas, and Minerals Leases and Wells





## T. 20 S., R. 28 E. WATER SAMPLES (parameters in mg/l)

API	Section	UL	Formation	TDS	Sodium	Calcium	Iron	Magesium	Chloride	Bicarbonate	Sulfate
3001502406	19	E	Artesia	3211					130	98	2124
3001502419	23	A	Artesia	25500					11500	716	4590
3001502352	13	L	Artesia	50610					29400	861	1428
3001502395	13	F	Artesia	28980					14640	660	3080
3001502335	1	G	Artesia	32300					14800	1430	5450
3001502356	13	O	Artesia	81000					45500	684	4130
3001502361	13	O	Artesia	29100					14400	658	3620
3001502381	13	C	Artesia	40200					17400	1120	8470
3001502390	13	F	Artesia	24308					12310	884	2381
3001502353	13	J	Artesia	38600					17600	756	7230
3001502390	13	F	Artesia	27048					13330	894	2969
3001521640	29	J	Bone Spring	131898	46844	6407	5	1395	85954	635	2419
3001521640	29	J	Bone Spring	142444	45650	10949	5	1821	93828	679	1879
3001527288	4	P	Bone Spring	1595	1286	8	127	1	65	93	5
3001527288	4	P	Bone Spring	6038	2218	26	36	6	3352	221	142
3001540518	28	I	Bone Spring 1st	185448	61572	1308	9	344	119363	683	680
3001540517	28	J	Bone Spring 1st	192410	72267	1344	18	367	114048	2074	0
3001540518	28	I	Bone Spring 1st	197409	76634	1421	24	397	114243	2196	0
3001540517	28	J	Bone Spring 1st	184770	71077	1425	18	391	108741	720	0
3001540518	28	I	Bone Spring 1st	187017	72901	1420	15	392	109200	695	0
3001502406	19	E	Capitan	22198					11170	274	2692
3001502406	19	E	Capitan	22205	6502	1001		559	11176	274	2692
3001527070	24	G	Delaware	7792	496	1384	815	176	4767	93	31
3001524414	30	O	Delaware	110018	67321	1064	0	566	105500	1320	1368
3001524710	30	F	Delaware	131032	75440	1400	0	2600	125000	456	1320
3001524414	30	O	Delaware	113918	66125	1420	0	1880	108500	358	1600
3001524546	30	M	Delaware	100084	56097	2440	0	3660	100500	460	792
3001524637	30	L	Delaware	123556	71737	1840	0	1860	118000	392	1128
3001522235	19	N	Delaware	37852	74405	2120	17	4280	130000	228	1152
3001524637	30	L	Delaware	161114	53113	11872	19	2363	109216	692	1151



## T. 20 S., R. 28 E. WATER SAMPLES (parameters in mg/l)

API	Section	UL	Formation	TDS	Sodium	Calcium	Iron	Magesium	Chloride	Bicarbonate	Sulfate
3001527070	24	G	Delaware	32129	5253	4235	1123	1028	20380	110	159
3001522235	19	N	Delaware			1600	100	5126	41535	122	25
3001522002	19	N	Morrow			11000	9	1100	81792	122	1425
3001529234	16	H	Morrow	31643	11186	919	105	160	19505	273	87
3001528996	3	A	Morrow	44978	15978	1345	198	252	27888	467	31
3001521222	18	F	Morrow	36642		1120	0	1555	23004	183	13
3001522002	19	N	Morrow			10360	38	638	94572	122	1375
3001502406	19	E	Rustler	3735	581	571		230	130	98	2124
3001502416	22	O	San Andres	210774					123500	847	4512
3001522554	30	H	Strawn			1000	85	244	11502	122	3
3001502406	19	E	Tansill	3237		228		56	130	120	2122
3001502406	19	E	Tansill	3728	580	570		230	130	98	2120
3001502406	19	E	Tansill		581	228		56	130	120	2122
3001522299	21	J	Wolfcamp	41597					25000	449	76
3001522299	21	J	Wolfcamp	43441					26100	446	100
3001502416	22	O	Wolfcamp	55965					32400	252	2260
3001522299	21	J	Wolfcamp	40785					24300	688	44
3001522299	21	J	Wolfcamp	144926					87600	37	1350
3001502416	22	O	Wolfcamp	297557					186000	143	447



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

**EXHIBIT G**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 01589 POD1</a>		CP	ED	1	2	1	35	20S	28E	579674	3600121	1903	109	70	39
<a href="#">CP 00920 POD1</a>		CP	ED	2	4	1	33	20S	28E	576627	3599766*	2983	47	29	18
<a href="#">CP 00923 POD1</a>		CP	ED	2	4	1	33	20S	28E	576627	3599766*	2983	57		
<a href="#">CP 00525</a>		CP	ED	3	2	1	14	20S	28E	579656	3604847*	3153	171	140	31

Average Depth to Water: **79 feet**

Minimum Depth: **29 feet**

Maximum Depth: **140 feet**

**Record Count:** 4

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 578798

**Northing (Y):** 3601812

**Radius:** 3220

\*UTM location was derived from PLSS - see Help

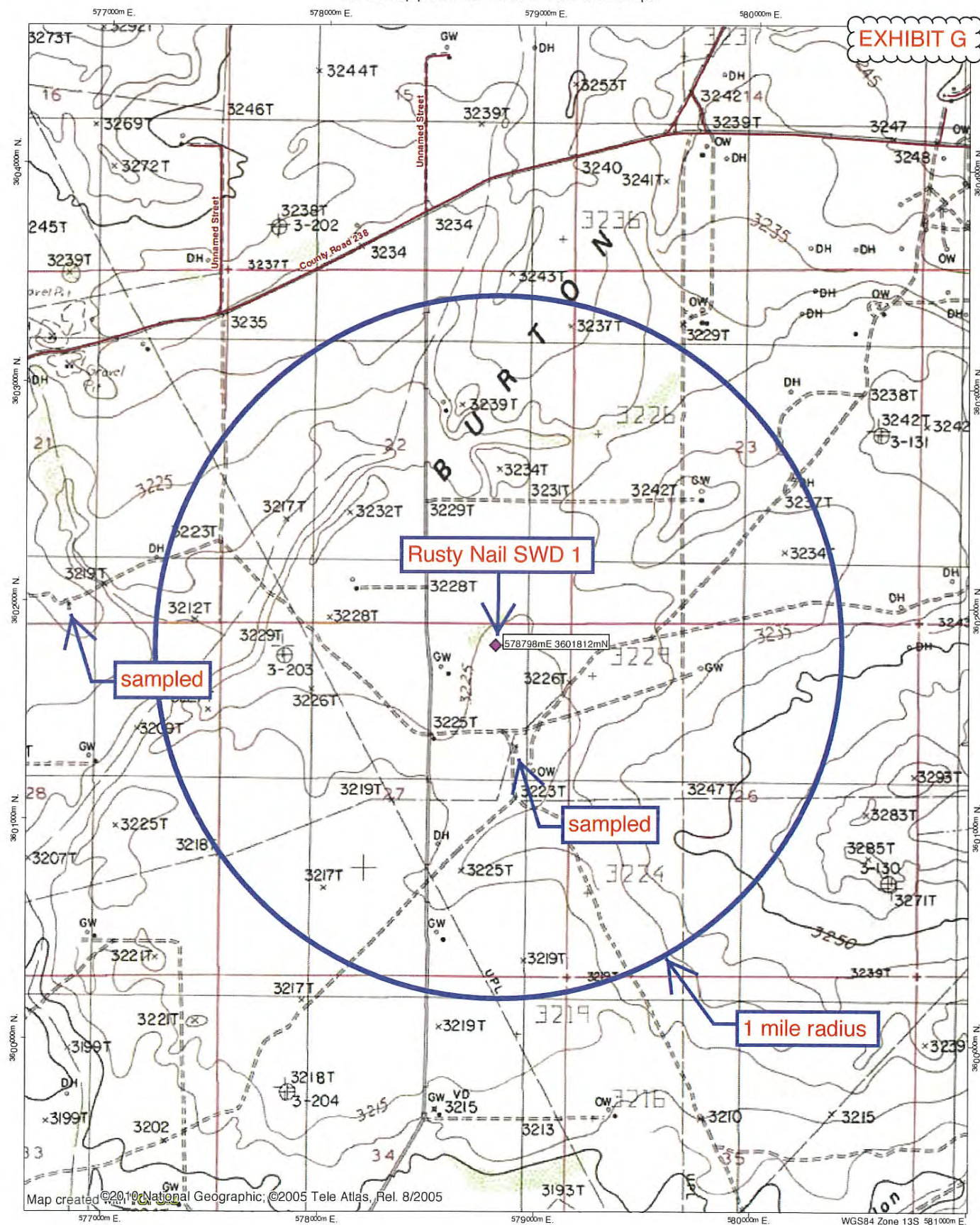
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/13/19 10:59 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



TOPO! map printed on 09/13/19 from "Untitled.tpo"



Analytical Re **EXHIBIT G**  
 Lab Order 1909F51  
 Date Reported: 10/21/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Permits West

**Client Sample ID:** Windmill/Trough #3-32.55256

**Project:** PWS Rusty Nail SWD I

**Collection Date:** 9/24/2019 12:30:00 PM

**Lab ID:** 1909F51-001

**Matrix:** AQUEOUS

**Received Date:** 9/26/2019 11:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>KMN</b>
N-Hexane Extractable Material	ND	9.25		mg/L	1	10/1/2019 5:07:00 PM	47810
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	760	50	*	mg/L	100	10/10/2019 5:24:18 PM	R63597
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	5380	20.0	*	mg/L	1	10/2/2019 7:43:00 AM	47824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Analytical Re **EXHIBIT G**  
 Lab Order **1909F51**  
 Date Reported: **10/21/2019**

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Permits West

**Client Sample ID:** Windmill/Trough #2-32.54699

**Project:** PWS Rusty Nail SWD 1

**Collection Date:** 9/24/2019 1:50:00 PM

**Lab ID:** 1909F51-002

**Matrix:** AQUEOUS

**Received Date:** 9/26/2019 11:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>KMN</b>
N-Hexane Extractable Material	ND	9.20		mg/L	1	10/1/2019 5:07:00 PM	47810
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	400	50	*	mg/L	100	10/10/2019 5:37:11 PM	R63597
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	3880	20.0	*	mg/L	1	10/2/2019 7:43:00 AM	47824

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.****EXHIBIT G**WO#: **1909F51****21-Oct-19****Client:** Permits West**Project:** PWS Rusty Nail SWD 1

Sample ID: <b>MB-47810</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 1664B</b>								
Client ID: <b>PBW</b>	Batch ID: <b>47810</b>	RunNo: <b>63378</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/1/2019</b>	SeqNo: <b>2164392</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID: <b>LCS-47810</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 1664B</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>47810</b>	RunNo: <b>63378</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/1/2019</b>	SeqNo: <b>2164393</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	38.8	10.0	40.00	0	97.0	78	114			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit





# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909F51

21-Oct-19

Client: Permits West

Project: PWS Rusty Nail SWD I

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R63597	RunNo: 63597								
Prep Date:	Analysis Date: 10/10/2019	SeqNo: 2172771 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R63597	RunNo: 63597								
Prep Date:	Analysis Date: 10/10/2019	SeqNo: 2172772 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.4	90	110			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1909F51

21-Oct-19

**Client:** Permits West**Project:** PWS Rusty Nail SWD 1

Sample ID: <b>MB-47824</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>47824</b>	RunNo: <b>63351</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/2/2019</b>	SeqNo: <b>2162583</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

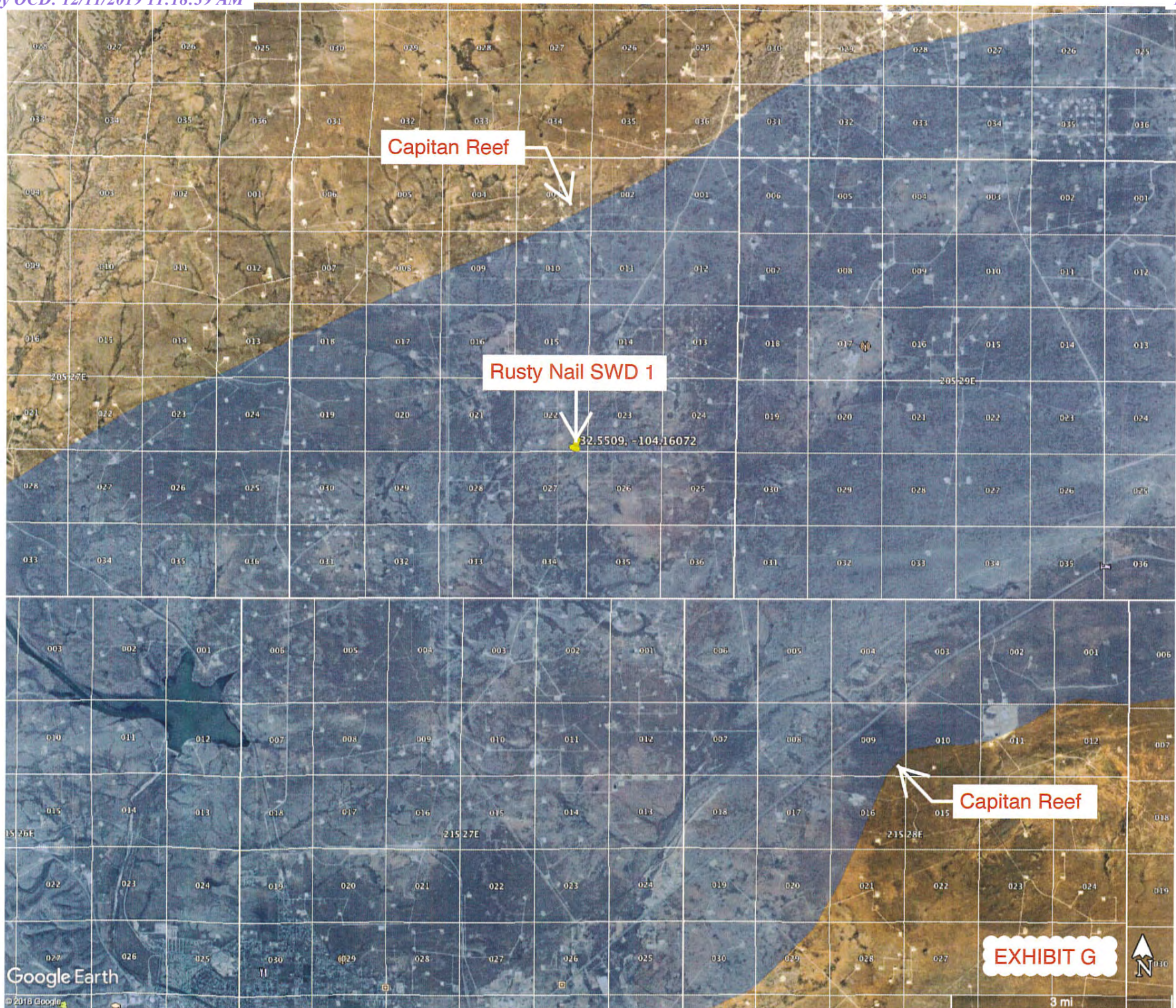
Sample ID: <b>LCS-47824</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>47824</b>	RunNo: <b>63351</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/2/2019</b>	SeqNo: <b>2162584</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit









**Seismic Risk Assessment**  
**Permian Water Solutions, LLC**  
**Rusty Nail SWD No. 1**  
**Section 27, Township 20 South, Range 28 East**  
**Eddy County, New Mexico**

**Cory Walk**

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

**B.S., M.S.**

**Geologist**

**Permits West Inc.**

**November 15, 2019**





## GENERAL INFORMATION

Rusty Nail SWD #1 is located in the NE 1/4, section 27, T20S, R28E, about 10 miles north of Carlsbad, NM in the Permian Basin. Permian Water Solutions proposes the injection zone to be within the Devonian formation through an open hole from 12,300'-13,500' below ground surface. This report assesses any potential concerns relating to induced seismicity along deep penetrating Precambrian faults or the connection between the injection zone and known underground potable water sources.

## SEISMIC RISK ASSESSMENT

### *Historical Seismicity*

Searching the USGS earthquake catalog resulted in no (0) earthquakes above a magnitude 2.5 within 6 miles (9.7 km) of the proposed deep disposal site since 1970 (Fig 1). The nearest earthquake occurred in 1974 about 16.5 miles (~26.5 km) south of the proposed Rusty Nail SWD site and had a magnitude of 3.9.

### *Basement Faults and Subsurface Conditions*

A structure contour map (Fig. 1) of the Precambrian basement shows the Rusty Nail SWD #1 is approximately 16 miles from the nearest basement-penetrating fault inferred by Ewing et al (1990). **Information about nearby faults based on GIS data from Ruppel et al. (2009) is listed in Table 1.**

Snee and Zoback (2018) state, "In the western part of Eddy County, New Mexico,  $S_{Hmax}$  is ~north-south (consistent with the state of stress in the Rio Grande Rift; Zoback and Zoback, 1980) but rotates to ~east-northeast-west-southwest in southern Lea County, New Mexico and the northernmost parts of Culberson and Reeves counties, Texas." **Around the Rusty Nail SWD site, Snee and Zoback indicate a  $S_{Hmax}$  direction of N010°E and an  $A_\phi$  of 0.57, indicating an extensional (normal) stress regime.**

Induced seismicity is a growing concern of deep SWD wells. Relatively new software developed by the Stanford Center for Induced and Triggered Seismicity allows for the probabilistic screening of deeply penetrating faults near the proposed injection zone (Walsh et al., 2016; Walsh et al., 2017). This software uses parameters such as stress orientations, fault strike/dip, injection rates, fault friction coefficients, etc. to estimate the potential for fault slip. Using the best available data as input parameters (Table 2), the Fault Slip Potential (FSP) models suggest an eight (0.08) percent chance of slip on a nearby fault, inferred by Frenzel et al (1988) and Ewing et al. (1990), through the year 2040 (Fig 2; Table 1). **This model also suggests a pore pressure increase of 0.07 psi on the nearest fault (Fault 2; Fig. 3; Table 1) by the year 2042.** Geomechanical modeling shows that the primary fault of concern (fault 24) would need a pressure increase of 1640 psi in order to reach a 100% probability of slip on the fault. Even a 50% probability requires an increase of 438 psi which is far greater than the modeled increase of 0.18 psi.



## **GROUNDWATER SOURCES**

Quaternary Alluvium acts as the principal aquifer used for potable ground water near the Rusty Nail SWD #1 location (Hendrickson and Jones, 1952). Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." Around the Rusty Nail SWD #1, the top of a thick anhydrite unit interpreted to represent the Rustler Formation lies at a depth of ~350 feet bgs.

## **STRATIGRAPHY**

Thick permeability barriers exist above (Woodford shale; 60 ft thick) and below (Simpson Group; 115 ft thick) the targeted Devonian injection zone (Plate 2, Comer et al., 1991; Fig. 8, Frenzel et al., 1988). Well data indicates ~11,950 ft of rock separating the top of the Devonian from the previously stated lower limit of potable water at the top of the Rustler anhydrite formation.

## **CONCLUDING STATEMENT**

After examination of publically available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.



## EXHIBIT H

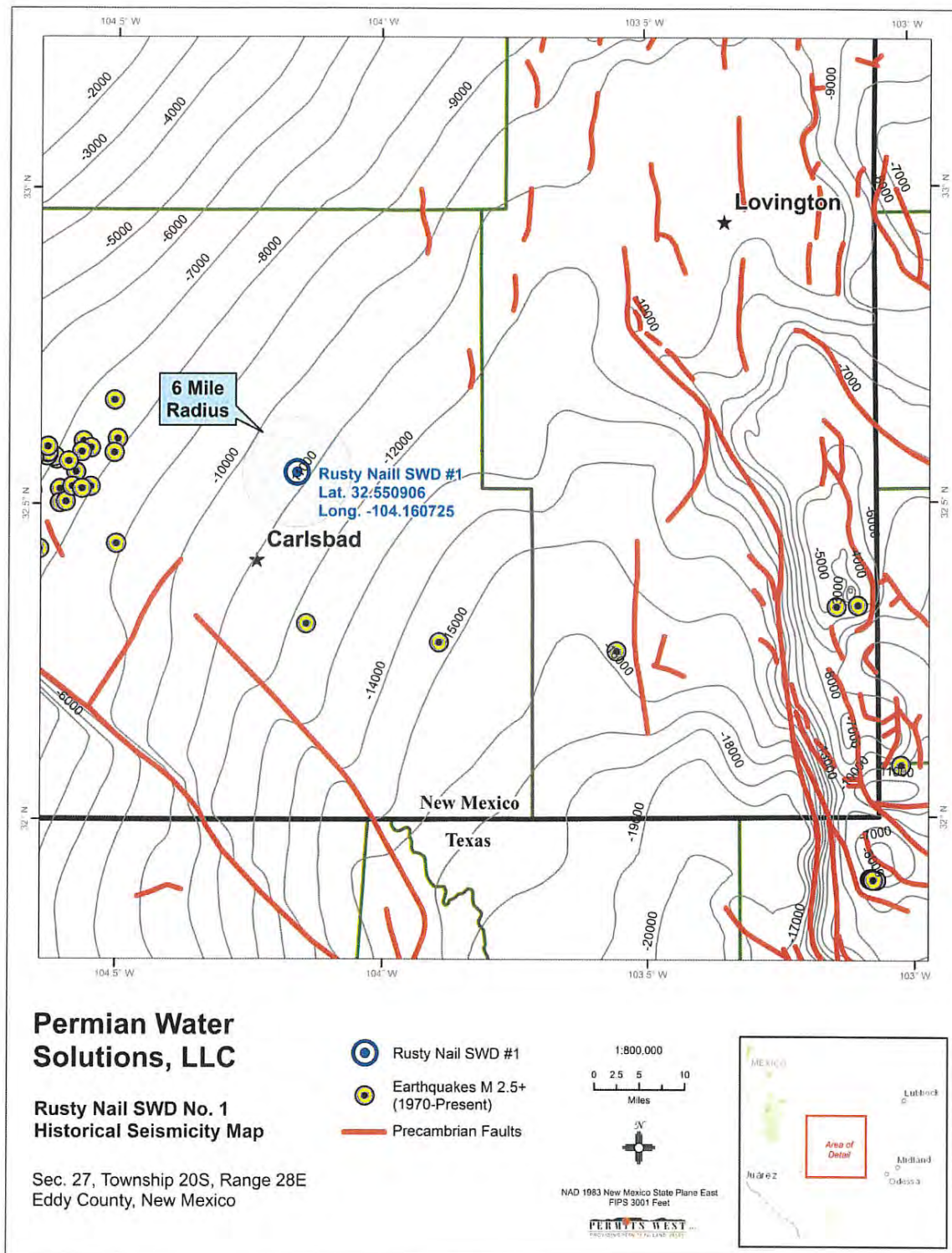


Figure 1. Structural contour map of the Precambrian basement in feet below sea level. Red lines represent the locations of Precambrian basement-penetrating faults (Ewing et al., 1990). The Rusty Nail SWD #1 well lies ~16 miles NE of the closest deeply penetrating fault and ~16.5 miles from the closest historic earthquake.

**Table 1: Nearby Basement Fault Information**

<b>ID</b>	<b>Distance from proposed Rusty Nail SWD (mi)</b>	<b>Strike (°)</b>	<b>Dip (°)</b>	<b>FSP</b>	<b>Pore Pressure change after 20 years (psi)</b>
Fault 2	16.0	24	50-90	0.06	0.07
Fault 3	19.2	140	50-90	0.00	0.07
Fault 24	21.3	170	50-90	0.08	0.18

**Table 2: Fault Slip Potential model input parameters**

<b>Faults</b>	<b>Value</b>	<b>Notes</b>
Friction Coefficient	0.58	Ikari et al. (2011)
Dip Angle (deg)	70	Snee and Zoback (2018)
<b>Stress</b>		
Vertical stress gradient (psi/ft)	1.1	Hurd and Zoback (2012)
Max Horizontal Stress Direction (deg)	10	Snee and Zoback (2018)
Depth for calculations (ft)	13500	Proposed injection zone
Initial Reservoir Pressure Gradient (psi/ft)	0.7	calculated from mud wt (ppg) used in drilling at these depths
A Phi Parameter	0.57	Snee and Zoback (2018)
Reference Friction Coefficient	0.58	Ikari et al. (2011)
<b>Hydrology</b>		
Aquifer thickness (ft)	1200	Proposed injection zone
Porosity (%)	6	
Permeability (mD)	150	
Injection Rate (bbl/day)	30000	Maximum proposed injection rate



EXHIBIT H

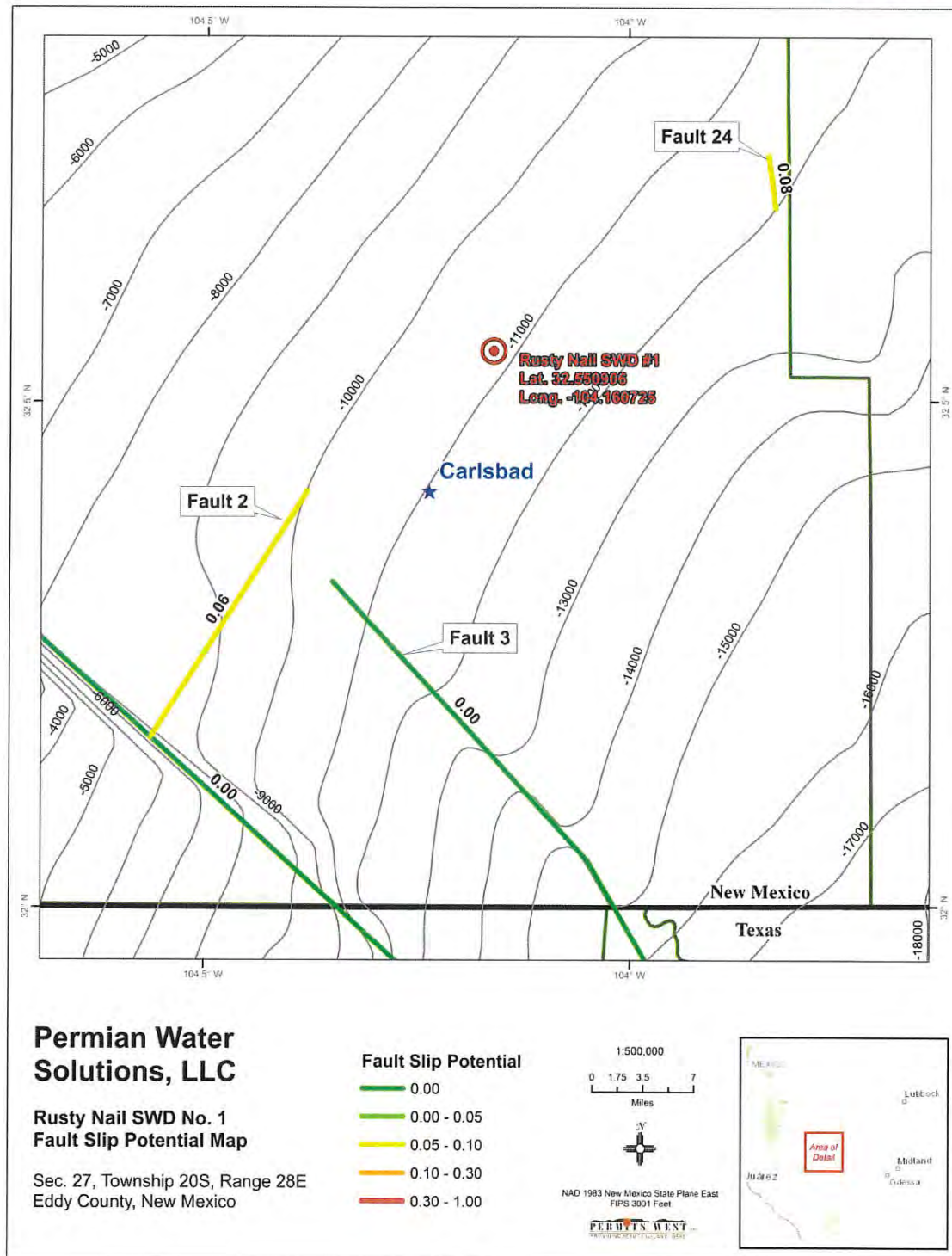


Figure 2. Precambrian fault map of Carlsbad, NM area as mapped by Ewing et al. (1990). Faults are colored based on probability of fault slip as modeled using Fault Slip Potential software (Walsh and Zoback, 2016). Labeled values represent the calculated fault slip potential using the parameters indicated in Table 2. Contours show the top of the Precambrian basement in feet below sea level.

EXHIBIT H

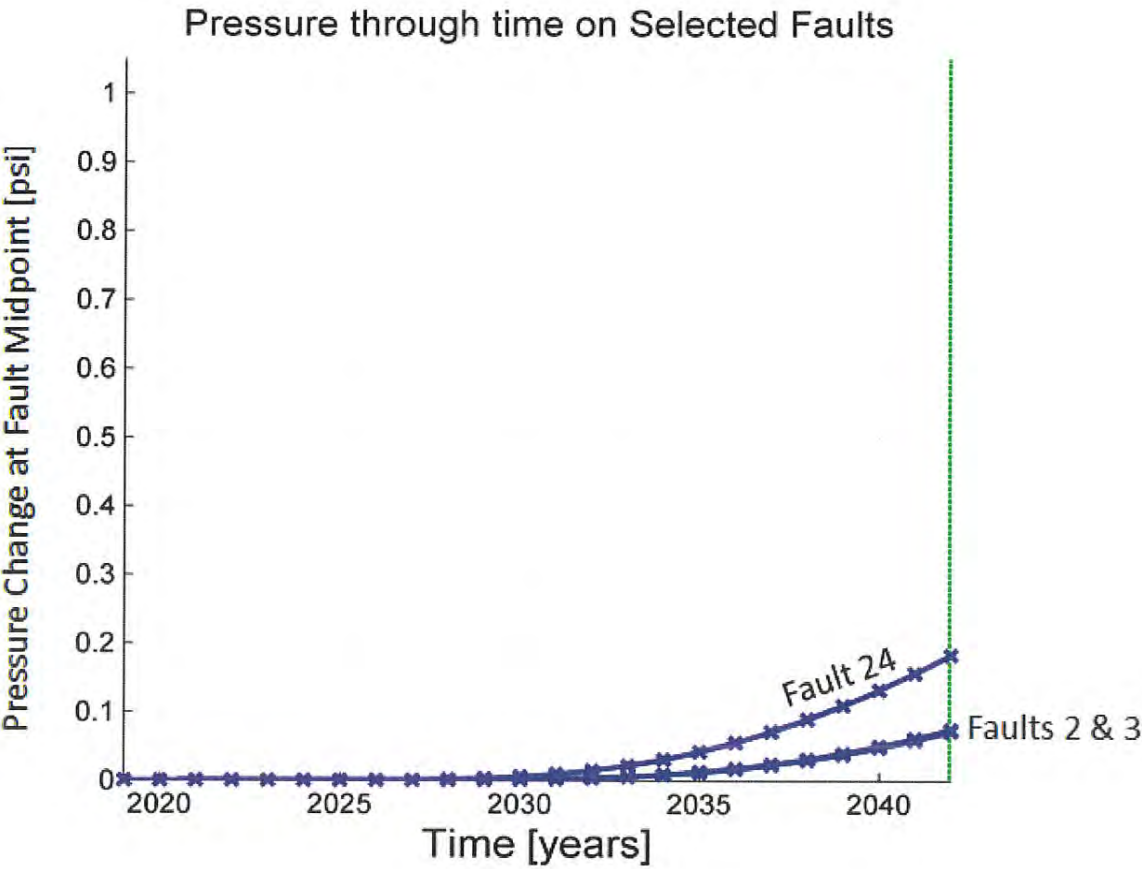


Figure 3. Scatter plot showing the modeled change of pore pressure on faults 2, 3 and 24 through time as a response to the proposed SWD well.





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# Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

EXHIBIT I

## Affidavit of Publication

Ad # 0003907969

F. /

37 VERANO LOOP

SANTA FE, NM 87508

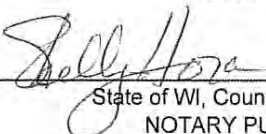
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements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

November 19, 2019

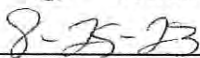


Legal Clerk

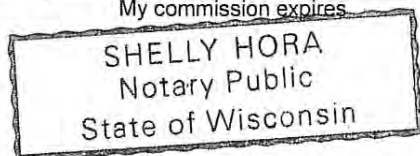
Subscribed and sworn before me this November 19, 2019:



State of WI, County of Brown  
NOTARY PUBLIC



My commission expires



Permian Water Solutions, LLC will apply to drill the Rusty Nail SWD 1 as a salt-water disposal well. The well will dispose into the Devonian formation from 12,300' to 13,500'. It is 10 miles northeast of Carlsbad, NM at 333' FNL & 1144' FEL Sec. 27, T. 20 S., R. 28 E., Eddy County, NM. Maximum disposal rate will be 30,000 bwpd. Maximum injection pressure will be 2,460 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. 3907969, Current-Argus, Nov. 19, 2019

Ad # 0003907969

PO #: Permian Water Solutions

# of Affidavits : 1





December 9, 2019

Harley & Carol Ballard  
PO Box JJ  
Carlsbad NM 88221

## TYPICAL NOTICE

Permian Water Solutions, LLC is applying (see attached application) to drill its Rusty Nail SWD 1 well as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Rusty Nail SWD 1 (fee lease) TD = 13,500'  
Proposed Disposal Zone: Devonian (12,300' - 13,500')  
Location: 333' FNL & 1144' FEL Sec. 27, T. 20 S., R. 28 E., Eddy County, NM  
Approximate Location: 10 air miles northeast of Carlsbad, NM  
Applicant Name: Permian Water Solutions, LLC (432) 305-4124  
Applicant's Address: 600 Travis St., Suite 4700, Houston TX 77002

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. NMOCD address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood



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#1700  
Denver CO 80202  
Permian Water Rusty Nail SWD 1

Street and Apt. No., or PO Box No.  
City, State, ZIP+4®

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Sent To: **Energizer-Resources Co**  
605 Richard Arrington Jr Blvd  
Birmingham AL 35203  
Permian Water Rusty Nail SWD 1

Street and Apt. No., or PO Box No.  
City, State, ZIP+4®

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Sent To: **Energizer-Resources Ltd. Co**  
410 N. Main Street  
Midland-TX 79701  
Permian Water Rusty Nail SWD 1

Street and Apt. No., or PO Box No.  
City, State, ZIP+4®

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To: **EOG-Resources Inc**  
PO Box 2267  
Midland-TX 79702  
Permian Water Rusty Nail SWD 1

Street and Apt. No., or PO Box No.  
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EXHIBIT J



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☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To: **Fidelity Oil Holdings Inc**  
**918 E Divide Ave #200**  
**Bismarck ND 58501**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Restricted Delivery \$  
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Sent To: **Frank Morgan**  
**PO Box 1**  
**Artesia NM 88214**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To: **Freddie Jean Wheeler**  
**1000 Cordova Pl #454**  
**Santa Fe NM 87506**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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Sent To: **George L Scott Jr**  
**215 W 3rd St**  
**Roswell NM 88201**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
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Sent To: **Gilmore Resources Inc**  
**PO Box 577**  
**Kimball NE 68145**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Restricted Delivery \$  
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Sent To: **Great Western Dhs Co**  
**PO Box 1659**  
**Midland TX 79702**  
 Street and Apt. No., or PO Box No.  
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☐ Adult Signature Restricted Delivery \$  
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Sent To: **Harley W S Carol J Ballard**  
**PO Box JJ**  
**Carlsbad NM 88224**  
 Street and Apt. No., or PO Box No.  
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Sent To: **Hurt Properties LP**  
**PO Box 1927**  
**Abingdon VA 24212**  
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Sent To: **Hutchings Oil Co**  
**PO Box 1216**  
**Albuquerque NM 87102**  
 Street and Apt. No., or PO Box No.  
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 Postage \$  
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Sent To: **James R Hunt**  
**PO Box 72**  
**Odessa TX 79750**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To: **James R Hunt**  
**PO Box 72**  
**Odessa TX 79750**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Required \$  
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 Postage \$  
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Sent To: **Jennifer Tighe**  
**2713 E Cathedral Rock Dr**  
**Phoenix AZ 85048**  
 Street and Apt. No., or PO Box No.  
 City, State, ZIP+4®

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☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Mitchell-Exploration Inc  
200 W 1st St. #648  
Roswell NM-88201  
Permian Water Rusty Nail SWD 1

Sent To  
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City, State, ZIP+4®

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
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 Total Postage and Fees \$

Murphy-Petro-Corp  
PO Box 2545  
Roswell NM-88202  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Nancy N-Harrell  
4928 Post Oak Timber Dr  
Houston TX-77056  
Permian Water Rusty Nail SWD 1

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New Mexico State-Land Office  
PO Box 1148  
Santa Fe NM-87504  
Permian Water Rusty Nail SWD 1

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Ocean-Permian-LLC  
1001 Fannin  
Suite 1600  
Houston TX 77002  
Permian Water Rusty Nail SWD 1

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Oxy-USA-WTP LP  
5 Greenway Plaza #110  
Houston TX 77046  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Oxy-USA-WTP LP  
6 Desta Drive #6000  
Midland TX 79705  
Permian Water Rusty Nail SWD 1

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Patricia Marr  
4024 La Adellita Dr  
El Paso TX 79922  
Permian Water Rusty Nail SWD 1

Sent To  
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 Postage \$  
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Permex Petroleum Company  
PO Box 2168  
Albuquerque NM 87103  
Permian Water Rusty Nail SWD 1

Sent To  
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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Permex Petroleum Company  
500 4th St. NW  
STE 1000  
Albuquerque NM 87103  
Permian Water Rusty Nail SWD 1

Sent To  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Petroleum-Synergy Group Inc  
1641 California St #410  
Denver CO 80202  
Permian Water Rusty Nail SWD 1

Sent To  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

R.D. and Loretta Rains  
1429 Sophia St.  
Carlsbad NM 88236  
Permian Water Rusty Nail SWD 1

Sent To  
Street and Apt. No., or PO Box No.  
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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Robert L. Bayless, Producer**  
PO Box 168  
Farmington NM 87499  
Permian Water Rusty Nail SWD 1

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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Sabron Sumner Clark**  
PO Box 1469  
Edgewood NM 87016  
Permian Water Rusty Nail SWD 1

Street and Apt. No., or PO Box No.  
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Sent To **Sonorin V LLC**  
PO Box 80174  
Phoenix AZ 85060  
Permian Water Rusty Nail SWD 1

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Sent To **Robin Morgan**  
PO Box 4  
Artesia NM 88211  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Scott Exploration Inc**  
200 W 1st St #648  
Roswell NM 88201  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Southwest Royalties Inc**  
5 Dista Drive STE 8700  
Midland TX 79705  
Permian Water Rusty Nail SWD 1

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Sent To **Rolla R. Hinkle III**  
PO Box 2992  
Roswell NM 88202  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Restricted Delivery \$  
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 Total Postage and Fees \$

Sent To **Sharon W Scott**  
245-W-3rd St  
Roswell NM 88201  
Permian Water Rusty Nail SWD 1

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☐ Adult Signature Restricted Delivery \$  
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Sent To **Strata Production Co**  
PO Box 1030  
Roswell NM 88202  
Permian Water Rusty Nail SWD 1

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Sent To **Sabinal Energy Operating LLC**  
1780 Hughes Landing Blvd  
The Woodlands TX 77380  
Permian Water Rusty Nail SWD 1

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City, State, ZIP+4®

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☐ Adult Signature Restricted Delivery \$  
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Sent To **Shirley A Johnston**  
Box 1824  
Midland TX 79701  
Permian Water Rusty Nail SWD 1

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Sent To **Suzanne L Sumner Simpson**  
6127 Nassau Ct, NW  
Albuquerque NM 87120  
Permian Water Rusty Nail SWD 1

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EXHIBIT J



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Total Postage and Fees \$  
 Sent To **Sydney Powers-Revocable Trust**  
 c/o MidFirst Bank, Trustee  
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 Oklahoma City OK 73125  
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Total Postage and Fees \$  
 Sent To **Tandem Oil Co**  
 11759 San Vicente #2  
 Los Angeles CA 90048  
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Total Postage and Fees \$  
 Sent To **Tanco Energy Holdings LLC**  
 821 E Southeast Loop 323  
 Tyler TX 75701  
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Total Postage and Fees \$  
 Sent To **The Gilmore-Revocable Trust**  
 505 N Big Spring St  
 STE 303  
 Midland TX 79701  
 Street and Apt. No., or PO Box No.  
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Total Postage and Fees \$  
 Sent To **The Katherine E Gilmore**  
 Bypass Trust  
 505 N Big Spring St  
 STE 303  
 Midland TX 79701  
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 Sent To **The Petroleum Synergy Group**  
 980 Caughlin Crossing #102  
 Reno NV 89519  
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 Sent To **Vision Energy Inc**  
 PO Box 2459  
 Carlsbad NM 88224  
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Total Postage and Fees \$  
 Sent To **Wade P Garrigan**  
 PO Box 1908  
 Gilbert AZ 85299  
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 Sent To **Warren Associates**  
 PO Box 10400  
 Albuquerque NM 87184  
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 STE 303  
 Midland TX 79701  
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 Sent To **William E Sumner**  
 11811 Eagle Rock Ave NE  
 Albuquerque NM 87122  
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 200 W 1st St #648  
 Roswell NM 88201  
 Street and Apt. No., or PO Box No.  
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