

## AE Order Number Banner

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**Application Number: pMSG2319954754**

**SWD-2545**

**Permian Oilfield Partners, LLC [328259]**

Revised March 23, 2017

|           |           |       |         |
|-----------|-----------|-------|---------|
| RECEIVED: | REVIEWER: | TYPE: | APP NO: |
|-----------|-----------|-------|---------|

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 Oilfield Partners, LLC. OGRID Number: 328259  
 Well Name: Belated Federal SWD #1 API: 30-025-Pending  
 Pool: SWD; Devonian-Silurian Pool Code: 97869

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

- 1) TYPE OF APPLICATION: Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication  
☐ NSL      ☐ NSP (PROJECT AREA)      ☐ NSP (PRORATION UNIT)      ☐ SD
- 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.

Sean Puryear

Print or Type Name

Signature

7-10-2023

Date

817-600-8772

Phone Number

spuryear@popmidstream.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: **Disposal**  
Application qualifies for administrative approval? **Yes**
- II. OPERATOR: **Permian Oilfield Partners, LLC.**  
ADDRESS: **P.O. Box 3329, Hobbs, NM 88241**  
CONTACT PARTY: **Sean Puryear** PHONE: **(817) 600-8772**
- 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.**
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-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: **Sean Puryear** TITLE: **Manager**  
SIGNATURE:  DATE: **7-10-2023**  
E-MAIL ADDRESS: **spuryear@popmidstream.com**
- XV. 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.

**III A:** See attached wellbore diagram.

**III B:**

1. Is this a new well drilled for injection?  
Yes
2. Name of the Injection Formation:  
Devonian: Open Hole Completion
3. Name of Field or Pool (if applicable):  
SWD; Devonian-Silurian
4. Has the well ever been perforated in any other zone(s)?  
No: New Drill for Injection of Produced Water
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Overlying Potentially Productive Zones:

Delaware, Bone Spring, Wolfcamp, Strawn, Atoka & Morrow Tops all above 14,604'

Underlying Potentially Productive Zones:

None

**IV:** Is this an expansion of an existing project? No.

**V:** See attached Area of Review Analysis.

**VI:** There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

**VII:**

1. The average injected volume anticipated is 40,000 BWPD. The maximum injected volume anticipated is 50,000 BWPD.
2. Injection will be through a closed system.
3. The average injection pressure anticipated is 2,000 psi. The proposed maximum injection pressure is 2,927 psi.
4. Disposal sources will be produced waters from surrounding wells in the Delaware, Avalon, Bone Spring and Wolfcamp formations. These formation waters are known to be compatible with Devonian formation water. Representative area produced water analyses were sourced from the NMT Go-Tech website. See attached Fluid Analyses.
5. Devonian water analyses from the area of review are unavailable. Representative water analyses were sourced from the NMT Go-Tech website. See attached Fluid Analyses.

**VIII:**

- Fluid injection will take place in the Devonian-Silurian formations. This sequence is bounded above by the Upper Devonian Woodford shale. Underlying the Woodford is the first injection formation, the Devonian, consisting of dolomitic and limestone carbonates & chert, followed by the Silurian Fusselman dolomite. The lower bound of the injection interval is the limestone of the Upper Ordovician Montoya. This proposed well will TD above the top of the Montoya, and will not inject fluids into the Montoya itself, in order to provide a sufficient barrier to preclude fluid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, the Cambrian, and the PreCambrian below.

Injection zone porosities are expected to range from 0% to a high of 10%, with the higher ranges being secondary porosity in the form of vugs & fractures due to weathering effects, with occasional interbedded shaly intervals. Permeabilities in the 2-3% porosity grainstone intervals are estimated to be in the 10-15 mD range, with the higher porosity intervals conservatively estimated to be in the 40-50 mD range. It is these intervals of high secondary porosity and associated high permeability that are expected to take the majority of the injected water.

The Devonian-Silurian sequence is well suited for SWD purposes, with a low permeability shale barrier overlying the injection interval to prevent upward fluid migration to USDW's, a low permeability carbonate barrier underlying the injection interval to prevent downward fluid migration, sufficient permeabilities and porosities in zone, and multiple formations available over a large depth range. This large injection depth range means there is a large injection surface area available, allowing for low injection pressures at high injection rates.

| <b>GEOLOGY PROGNOSIS</b>       |             |               |                  |
|--------------------------------|-------------|---------------|------------------|
| <b>FORMATION</b>               | <b>TOP</b>  | <b>BOTTOM</b> | <b>THICKNESS</b> |
|                                | KB TVD (ft) | KB TVD (ft)   | (ft)             |
| <b>Rustler</b>                 | 1,695       | 2,161         | 466              |
| <b>Salado</b>                  | 2,161       | 3,438         | 1,277            |
| <b>Delaware</b>                | 5,459       | 8,216         | 2,757            |
| <b>Bone Spring</b>             | 8,216       | 10,929        | 2,713            |
| <b>Wolfcamp</b>                | 10,929      | 12,222        | 1,293            |
| <b>Lwr. Mississippian</b>      | 13,867      | 14,446        | 579              |
| <b>Woodford</b>                | 14,446      | 14,604        | 158              |
| <b>Devonian</b>                | 14,604      | 15,505        | 901              |
| <b>Fusselman (Silurian)</b>    | 15,505      | 15,866        | 361              |
| <b>Montoya (U. Ordovician)</b> | 15,866      | 16,266        | 400              |
| <b>Simpson (M. Ordovician)</b> | 16,266      | 16,766        | 500              |

- Regional shallow fresh water in the Quaternary is known to exist at depths less than 200'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 14,404'. There is no USDW present below the injection interval.

- IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X:** A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI:** According to the New Mexico Office of the State Engineer, there are 0 fresh water wells within the proposed well's one-mile area of review. See attached 1 mile AOR water well map showing no active PODs in the AOR.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

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<br><b>97869</b>                              |  | 3 Pool Name<br><b>SWD; DEVONIAN-SILURIAN</b> |                             |
| 4 Property Code              |  | 5 Property Name<br><b>BELATED FEDERAL SWD</b>            |  |  | 6 Well Number<br><b>1</b>   |
| 7 OGRID NO.<br><b>328259</b> |  | 8 Operator Name<br><b>PERMIAN OILFIELD PARTNERS, LLC</b> |  |  | 9 Elevation<br><b>3725'</b> |

10 Surface Location

|                           |                      |                        |                     |         |                             |                                  |                             |                               |                      |
|---------------------------|----------------------|------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|
| UL or lot no.<br><b>P</b> | Section<br><b>27</b> | Township<br><b>19S</b> | Range<br><b>34E</b> | Lot Idn | Feet from the<br><b>637</b> | North/South line<br><b>SOUTH</b> | Feet From the<br><b>208</b> | East/West line<br><b>EAST</b> | County<br><b>LEA</b> |
|---------------------------|----------------------|------------------------|---------------------|---------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|

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 interest have been consolidated or a non-standard unit has been approved by the division.

|  |  |  |
|--|--|--|
| <p>③ S 89°17'01" W 5283.59'</p> <p>①6</p> <p>N 00°28'46" W 2634.73'</p> <p>GEODETIC DATA<br/>NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION<br/>N: 592296.3 - E: 785531.7<br/>LAT: 32.6257672° N<br/>LONG: 103.5401562° W</p> <p>CORNER DATA<br/>NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1912"<br/>N: 591625.3 - E: 780463.0</p> <p>B: FOUND BRASS CAP "1912"<br/>N: 594257.9 - E: 780440.4</p> <p>C: FOUND BRASS CAP "1912"<br/>N: 596892.0 - E: 780418.4</p> <p>D: FOUND BRASS CAP "1912"<br/>N: 596958.0 - E: 785700.5</p> <p>E: FOUND BRASS CAP "1912"<br/>N: 591661.5 - E: 785745.0</p> <p>F: FOUND BRASS CAP "1912"<br/>N: 591634.7 - E: 783105.5</p> <p>②</p> <p>④</p> <p>N 00°28'53" W 5297.74'</p> <p>⑤</p> <p>S 89°47'44" E 2643.02'</p> <p>S 89°25'03" W 2640.16'</p> <p>208'</p> <p>S.L.</p> <p>637'</p> |  | <p>17 OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Gary E. Fisher</i> 7/6/2023<br/>Signature Date<br/>Gary Fisher<br/>Printed Name<br/>gfisher@popmidstream.com<br/>E-mail Address</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>05/30/2023<br/>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>14400<br/>Certificate Number</p> <p>DALE E. BELL<br/>NEW MEXICO<br/>14400<br/>05/31/2023<br/>PROFESSIONAL SURVEYOR</p> <p>Job No.: LS23050490</p> |
|--|--|--|



III (A)

**WELL CONSTRUCTION DATA**

Permian Oilfield Partners, LLC.  
Belated Federal SWD #1  
637' FSL, 208' FEL  
Sec. 27, T19S, R34E, Lea Co. NM  
Lat 32.6257672° N, Lon -103.5401562° W  
GL 3725', RKB 3755'

**Surface - (Conventional)**

Hole Size: 26" Casing: 20" - 133# N-80 BTC Casing  
Depth Top: Surface  
Depth Btm: 1720'  
Cement: 3208 sks - Class C + Additives (100% Excess)  
Cement Top: Surface - (Circulate)

**Intermediate #1 - (Conventional)**

Hole Size: 17.5" Casing: 13.375" - 68# HCP-110 BTC Casing  
Depth Top: Surface  
Depth Btm: 5409'  
Cement: 2204 sks - Class C + Additives  
Cement Top: Surface - (Circulate)

**Intermediate #2 - (Conventional)**

Hole Size: 12.25" Casing: 9.625" - 40# HCP110 BTC Casing  
Depth Top: Surface  
Depth Btm: 10979' ECP/DV Tool: 5509'  
Cement: 1693 sks - Class C + Additives  
Cement Top: Surface - (Circulate)

**Intermediate #3 - (Liner)**

Hole Size: 8.75" Casing: 7.625" - 39# HCL-80 FJ Casing  
Depth Top: 10779'  
Depth Btm: 14639'  
Cement: 237 sks - Class H + Additives  
Cement Top: 10779' - (Circulate & Bond Log)

**Intermediate #4 - (Open Hole)**

Hole Size: 6.5" Depth: 15841'  
Inj. Interval: 14639' - 15841' (Open-Hole Completion)

**Tubing - (Tapered)**

Tubing Depth: 14594' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ  
X/O Depth: 10779' Casing (Fiberglass Lined)  
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
Packer Depth: 14604' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)  
Packer Fluid: 8.4 ppg FW + Additives

## III (A)

**WELLBORE SCHEMATIC**

Permian Oilfield Partners, LLC.  
 Belated Federal SWD #1  
 637' FSL, 208' FEL  
 Sec. 27, T19S, R34E, Lea Co. NM  
 Lat 32.6257672° N, Lon -103.5401562° W  
 GL 3725', RKB 3755'

**Surface - (Conventional)**

Hole Size: 26"  
 Casing: 20" - 133# N-80 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 1720'  
 Cement: 3208 sks - Class C + Additives (100% Excess)  
 Cement Top: Surface - (Circulate)

**Intermediate #1 - (Conventional)**

Hole Size: 17.5"  
 Casing: 13.375" - 68# HCP-110 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 5409'  
 Cement: 2204 sks - Class C + Additives  
 Cement Top: Surface - (Circulate)

**Intermediate #2 - (Conventional)**

Hole Size: 12.25"  
 Casing: 9.625" - 40# HCP110 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 10979'  
 Cement: 1693 sks - Class C + Additives  
 Cement Top: Surface - (Circulate)  
 ECP/DV Tool: 5509'

**Intermediate #3 - (Liner)**

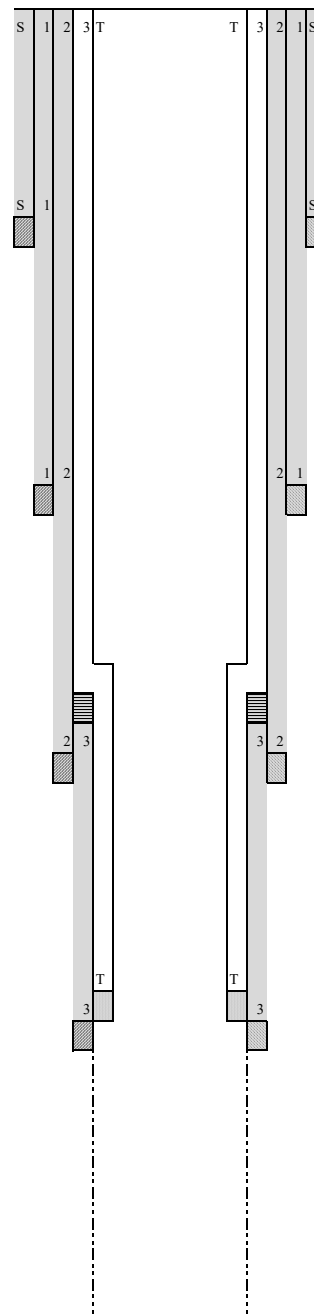
Hole Size: 8.75"  
 Casing: 7.625" - 39# HCL-80 FJ Casing  
 Depth Top: 10779'  
 Depth Btm: 14639'  
 Cement: 237 sks - Class H + Additives  
 Cement Top: 10779' - (Circulate & Bond Log)

**Intermediate #4 - (Open Hole)**

Hole Size: 6.5"  
 Depth: 15841'  
 Inj. Interval: 14639' - 15841' (Open-Hole Completion)

**Tubing - (Tapered)**

Tubing Depth: 14594'  
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 X/O Depth: 10779'  
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 Packer Depth: 14604'  
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)  
 Packer Fluid: 8.4 ppg FW + Additives



XIII.



## Statement of Notifications

Re: C-108 Application for SWD Well  
 Permian Oilfield Partners, LLC  
 Belated Federal SWD #1  
 637' FSL & 208' FEL  
 Sec 27, T19S, R34E  
 Lea County, NM

Permian Oilfield Partners, LLC has mailed notifications to affected persons as per the following list:

| Belated Federal SWD #1 - Affected Persons within 1 Mile Area of Review |   |                                |         |                        |              |
|--|---|--------------------------------|---------|------------------------|--------------|
| Notified Name  | Notified Address                          | Notified City, State, ZIP Code | Shipper | Tracking No.           | Mailing Date |
| Balog Family Trust   | PO Box 111890                             | Anchorage, AK 99504            | USPS    | 9414811899562232727235 | 7/10/2023    |
| Black Hills Gas Resources, Inc.  | 7001 Mt Rushmore Rd                       | Rapid City, SD 57702           | USPS    | 9414811899562232727860 | 7/10/2023    |
| BP America Production Company  | 1700 Platte St, Suite 150                 | Denver, CO 80202               | USPS    | 9414811899562232727891 | 7/10/2023    |
| Bureau Of Land Management  | 620 E Greene St.                          | Carlsbad, NM 88220             | USPS    | 9414811899562232727884 | 7/10/2023    |
| Burlington Resources Oil & Gas LP                                      | PO Box 2197                               | Houston, TX 77252              | USPS    | 9414811899562232727839 | 7/10/2023    |
| BXP Operating, LLC   | 11757 Katy Fwy, Suite 475                 | Houston, TX 77079              | USPS    | 9414811899562232727754 | 7/10/2023    |
| BXP Partners V LP  | 11757 Katy Fwy, Suite 475                 | Houston, TX 77079              | USPS    | 9414811899562232727709 | 7/10/2023    |
| Cargoil & Gas Co LLC   | 2981 Plaza Azul                           | Santa Fe, NM 87505             | USPS    | 9414811899562232727778 | 7/10/2023    |
| Chevron USA  | 6301 Deauville Blvd                       | Midland, TX 79706              | USPS    | 9414811899562232727907 | 7/10/2023    |
| Cimarex Energy Co. of Colorado   | 6001 Deauville Blvd, Ste 300N             | Midland, TX 79706              | USPS    | 9414811899562232727945 | 7/10/2023    |
| Cimarex Energy Company   | 6001 Deauville Blvd, Ste 300N             | Midland, TX 79706              | USPS    | 9414811899562232727693 | 7/10/2023    |
| Clarence Hyde Estate   | 6300 Ridgelea Pl., Suite 1018             | Fort Worth, TX 76116           | USPS    | 9414811899562232727129 | 7/10/2023    |
| Contango Resources, LLC  | 111 E. 5TH Street, Suite 300              | Fort Worth, TX 76102           | USPS    | 9414811899562232727358 | 7/10/2023    |
| Devon Energy Production Company, L                                     | 333 West Sheridan Ave.                    | Oklahoma City, OK 73102        | USPS    | 9414811899562232727303 | 7/10/2023    |
| EOG Resources Inc.   | PO Box 2267                               | Midland, TX 79702              | USPS    | 9414811899562232727020 | 7/10/2023    |
| Frances W Hyde Inc.  | 6300 Ridgelea Pl., Suite 1018             | Fort Worth, TX 76116           | USPS    | 9414811899562232727075 | 7/10/2023    |
| Jack V Walker Revocable Trust  | PO Box 102256                             | Anchorage, AK 99510            | USPS    | 9414811899562232727426 | 7/10/2023    |
| Lenox Mineral Title Holdings Inc.                                      | 420 Throckmorton St., Suite 1150          | Fort Worth, TX 76102           | USPS    | 9414811899562232727440 | 7/10/2023    |
| Linn Operating, LLC  | 600 Travis Street, STE 1200               | Houston, TX 77002              | USPS    | 9414811899562232727471 | 7/10/2023    |
| Matador Production Company   | 5400 LBJ Freeway, Ste 1500                | Dallas, TX 75240               | USPS    | 9414811899562232727525 | 7/10/2023    |
| Matador Resources Co.  | 5400 LBJ Freeway, Ste 1500                | Dallas, TX 75240               | USPS    | 9414811899562232726214 | 7/10/2023    |
| Merit Energy Company, LLC  | 13727 Noel Road, Suite 500                | Dallas, TX 75240               | USPS    | 9414811899562232726238 | 7/10/2023    |
| Merit Energy Partners D-III  | 13727 Noel Road, Suite 1200               | Dallas, TX 75240               | USPS    | 9414811899562232726856 | 7/10/2023    |
| Nadel and Gussman HEYCO, LLC   | P. O. Box 1936                            | Roswell, NM 88202              | USPS    | 9414811899562232726832 | 7/10/2023    |
| New Mexico State Land Office   | 310 Old Santa Fe Trail                    | Santa Fe, NM 87501             | USPS    | 9414811899562232726702 | 7/10/2023    |
| Penroc Oil Corp.   | PO Box 2769                               | Hobbs, NM 88241                | USPS    | 9414811899562232726740 | 7/10/2023    |
| Shogoi & Gas Co II LLC   | PO Box 29450                              | Santa Fe, NM 87592             | USPS    | 9414811899562232726955 | 7/10/2023    |
| XTO Energy Inc.  | 22777 Springwoods Village Pkwy, Suite 126 | Spring, TX 77389               | USPS    | 9414811899562232754804 | 7/10/2023    |

Sean Puryear  
 Permian Oilfield Partners, LLC  
[spuryear@popmidstream.com](mailto:spuryear@popmidstream.com)  
 Date: 7/10/2023

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7272 35

## ARTICLE ADDRESSED TO:

Balog Family Trust  
PO BOX 111890  
ANCHORAGE AK 99511-1890

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7278 60

## ARTICLE ADDRESSED TO:

Black Hills Gas Resources, Inc.  
7001 MOUNT RUSHMORE RD  
RAPID CITY SD 57702-8752

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7278 91

## ARTICLE ADDRESSED TO:

BP America Production Company  
1700 PLATTE ST STE 150  
DENVER CO 80202-2837

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7278 84

## ARTICLE ADDRESSED TO:

Bureau of Land Management  
620 E GREENE ST  
CARLSBAD NM 88220-6292

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7278 39

## ARTICLE ADDRESSED TO:

Burlington Resources Oil & Gas LP  
PO BOX 2197  
HOUSTON TX 77252-2197

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7277 54

## ARTICLE ADDRESSED TO:

BXP Operating, LLC  
11757 KATY FWY STE 475  
HOUSTON TX 77079-1761

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |





U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7277 09

## ARTICLE ADDRESSED TO:

BXP Partners V LP  
11757 KATY FWY STE 475  
HOUSTON TX 77079-1761

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7277 78

## ARTICLE ADDRESSED TO:

Cargoil & Gas Co., LLC  
2981 PLAZA AZUL  
SANTA FE NM 87507-5337

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7279 07

## ARTICLE ADDRESSED TO:

Chevron USA  
6301 DEAUVILLE  
MIDLAND TX 79706-2964

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7279 45

## ARTICLE ADDRESSED TO:

Cimarex Energy Co. of Colorado  
6001 DEAUVILLE STE 300N  
MIDLAND TX 79706-2671

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7276 93

## ARTICLE ADDRESSED TO:

Cimarex Energy Company  
6001 DEAUVILLE STE 300N  
MIDLAND TX 79706-2671

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7271 29

## ARTICLE ADDRESSED TO:

Clarence Hyde Estate  
6300 RIDGELEA PL., STE 1018  
FORT WORTH TX 76116-0000

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7273 58

## ARTICLE ADDRESSED TO:

Contango Resources, LLC  
111 E 5TH ST STE 300  
FORT WORTH TX 76102-5472

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7273 03

## ARTICLE ADDRESSED TO:

Devon Energy Production Co., LP  
333 W SHERIDAN AVE  
OKLAHOMA CITY OK 73102-5010

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7270 20

## ARTICLE ADDRESSED TO:

EOG Resources, Inc.  
PO BOX 2267  
MIDLAND TX 79702-2267

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7270 75

## ARTICLE ADDRESSED TO:

Frances W Hyde Inc.  
6300 RIDGELEA PL, STE 1018  
FORT WORTH TX 76116-0000

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7274 26

## ARTICLE ADDRESSED TO:

Jack V Walker Revocable Trust  
PO BOX 102256  
ANCHORAGE AK 99510-2256

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7274 40

## ARTICLE ADDRESSED TO:

Lenox Mineral Title Holdings Inc.  
420 THROCKMORTON ST STE 1150  
FORT WORTH TX 76102-3761

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |





U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7274 71

## ARTICLE ADDRESSED TO:

Linn Operating LLC  
600 TRAVIS ST STE 1200  
HOUSTON TX 77002-1279

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7275 25

## ARTICLE ADDRESSED TO:

Matador Production Company  
5400 LYNDON B JOHNSON FWY STE 1500  
DALLAS TX 75240-1017

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7262 14

## ARTICLE ADDRESSED TO:

Matador Resources Co.  
5400 LYNDON B JOHNSON FWY STE 1500  
DALLAS TX 75240-1017

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7262 38

## ARTICLE ADDRESSED TO:

Merit Energy Company, LLC  
13727 NOEL RD STE 500  
DALLAS TX 75240-7312

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7268 56

## ARTICLE ADDRESSED TO:

Merit Energy Partners D-III  
13727 NOEL RD STE 1200  
DALLAS TX 75240-7362

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7268 32

## ARTICLE ADDRESSED TO:

Nadel & Gussman HEYCO, LLC  
PO BOX 1936  
ROSWELL NM 88202-1936

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |



U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7267 02

## ARTICLE ADDRESSED TO:

New Mexico State Land Office  
310 OLD SANTA FE TRL  
SANTA FE NM 87501-2708

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

Postmark  
HereU.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7267 40

## ARTICLE ADDRESSED TO:

Penroc Oil Corp.  
PO BOX 2769  
HOBBS NM 88241-2769

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

Postmark  
HereU.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7269 55

## ARTICLE ADDRESSED TO:

Shogoi & Gas Co II LLC  
PO BOX 29450  
SANTA FE NM 87592-9450

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

Postmark  
HereU.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 7548 04

## ARTICLE ADDRESSED TO:

XTO Energy Inc.  
22777 SPRINGWOODS VILLAGE PKWY  
SPRING TX 77389-1425

## FEES

|                       |         |
|-----------------------|---------|
| Postage Per Piece     | \$4.270 |
| Certified Fee         | 4.350   |
| Total Postage & Fees: | 8.620   |

Postmark  
Here



XIII.

**Affidavit of Publication**STATE OF NEW MEXICO  
COUNTY OF LEA

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

Beginning with the issue dated  
May 26, 2023  
and ending with the issue dated  
May 26, 2023.



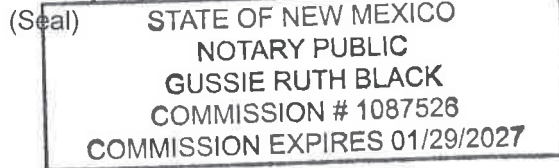
Publisher

Sworn and subscribed to before me this  
26th day of May 2023.



Business Manager

My commission expires  
January 29, 2027



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

**LEGAL NOTICE  
May 26, 2023**

Permian Oilfield Partners, LLC, PO Box 3329, Hobbs, NM 88241, phone (817)606-7630, attn. Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial salt water disposal well in Lea County, New Mexico. The proposed well is the Belated Federal SWD #1, and is located 637' FSL & 208' FEL, Unit P, Section 27, Township 19 South, Range 34 East, NMPM, approximately 16 mi W of Monument, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 14,639 feet to 15,841 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,927 psi.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.  
#00278993

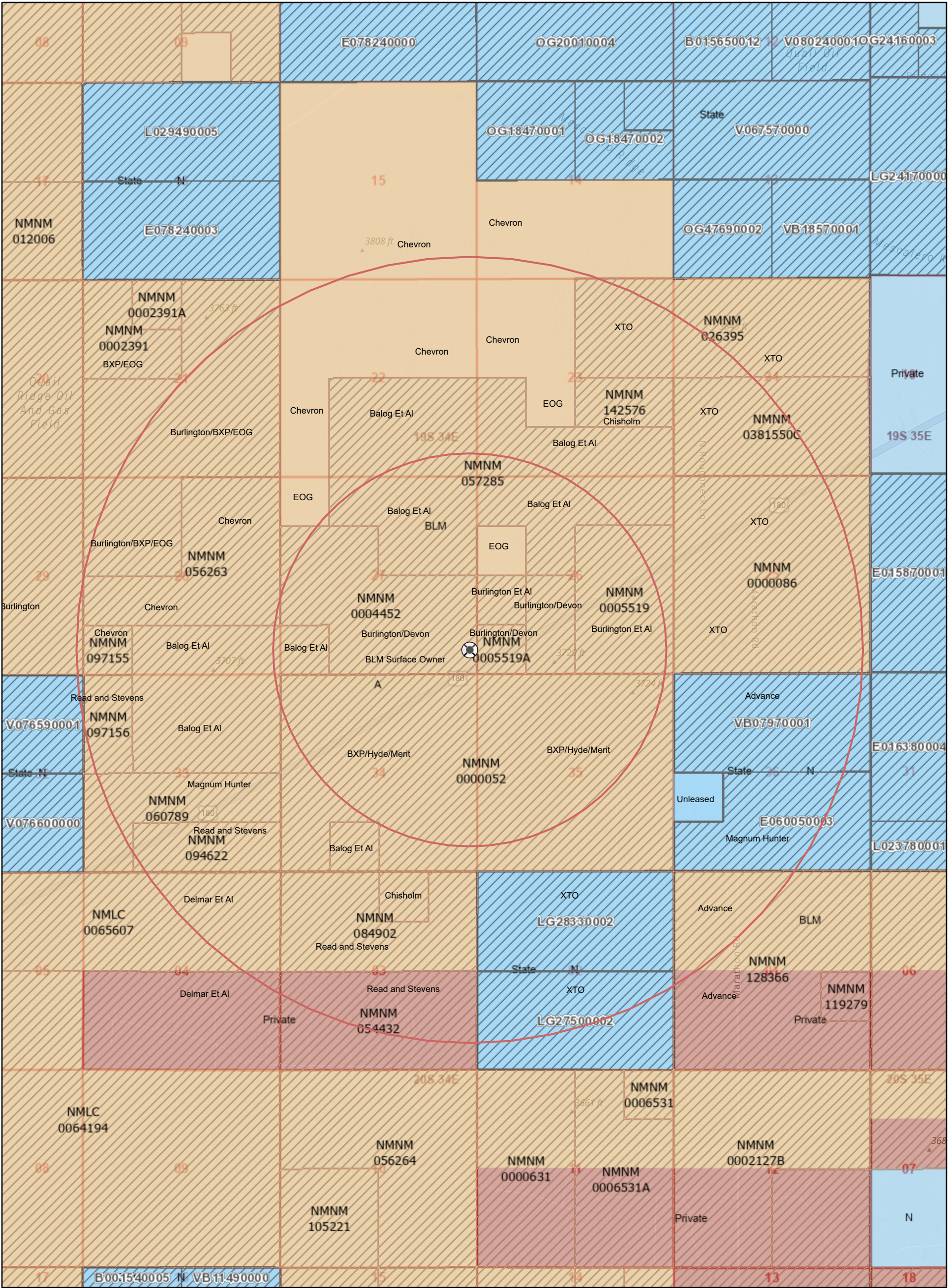
67115647

00278993

GARY FISHER  
PERMIAN OILFIELD PARTNERS, LLC  
PO BOX 3329  
HOBBS, NM 88241

V (a)

Belated Federal SWD #1, 1 & 2 Mi AOR, Leases



5/26/2023, 2:04:25 PM

Override 1

Override 1

Authorized

Oil and Gas Leases

Mineral Ownership

A-All minerals are owned by U.S.

N-No minerals are owned by the U.S.

Land Ownership

BLM

P

S

PLSS First Division

PLSS Townships

1:36,112

00.330.651.3

mi

00.512

km

U.S. BLM

U.S. Department of Interior, Bureau of Land Management (BLM)

Esri, NASA, NGA, USGS, FEMA

BLM

New Mexico Oil Conservation Division

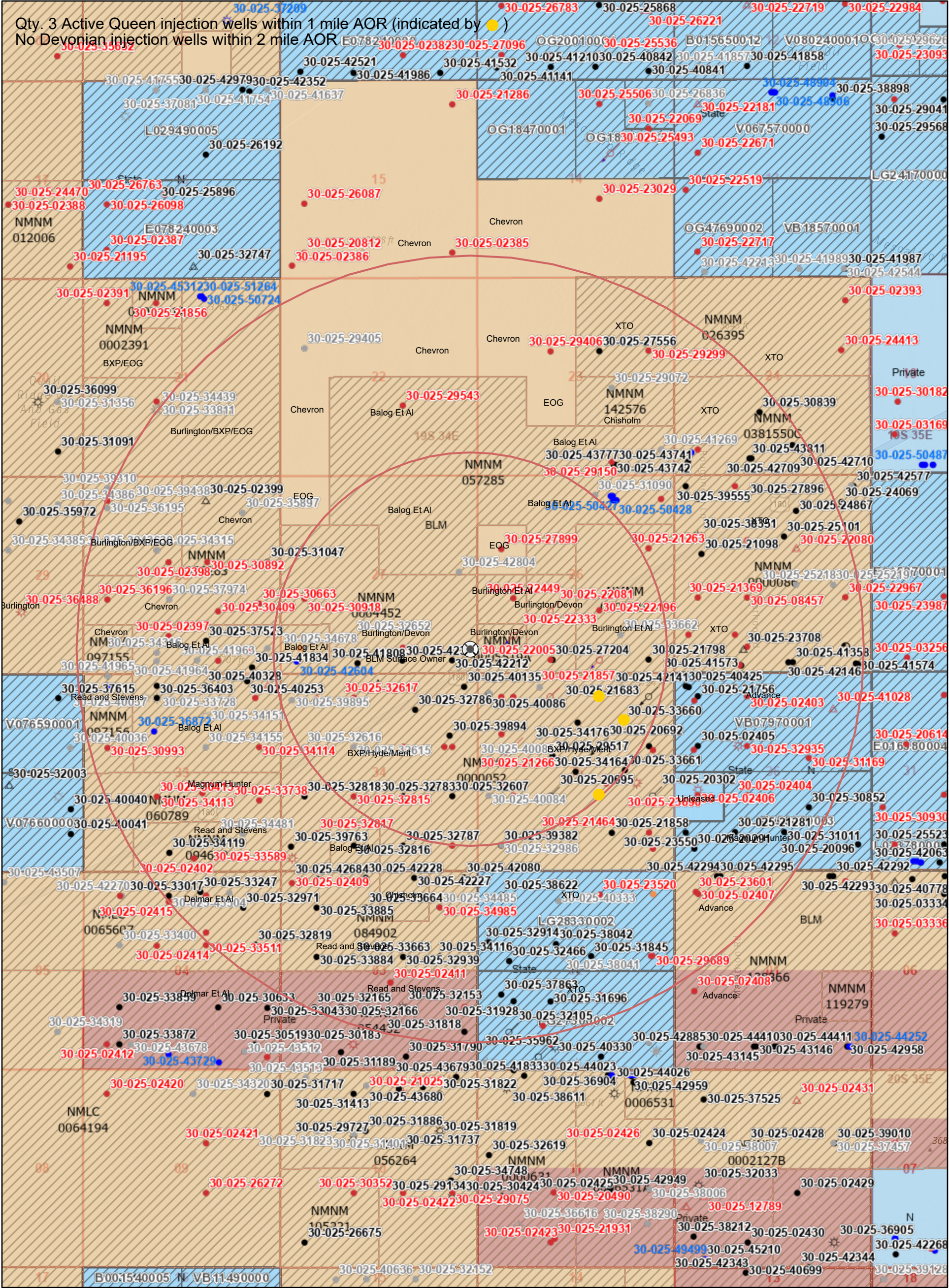
Released to Imaging: 7/18/2023 3:21:35 PM



V (b)

# Belated Federal SWD #1, 1 & 2 Mi AOR, Wells

Qty. 3 Active Queen injection wells within 1 mile AOR (indicated by ●)  
No Devonian injection wells within 2 mile AOR



5/26/2023, 2:08:56 PM

Override 1

Override 1

Wells - Large Scale

Miscellaneous

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Injection, Active

Injection, Plugged

Oil, Active

Oil, Cancelled

Oil, New

Oil, Plugged

Oil, Temporarily Abandoned

Salt Water Injection, Active

Salt Water Injection, Plugged

Authorized

Oil and Gas Leases

Mineral Ownership

A-All minerals are owned by U.S.

N-No minerals are owned by the U.S.

Land Ownership

BLM

1:36,112

00.330.651.3 mi

00.512 km

U.S. BLM

U.S. Department of Interior, Bureau of Land Management (BLM)

Esri, NASA, NGA, USGS, FEMA

Oil Conservation Division of the New Mexico Energy, Minerals and

New Mexico Oil Conservation Division

Released to Imaging: 7/18/2023 3:21:35 PM



V (c)

| Belated Federal SWD #1 - Wells Within 1 Mile Area of Review |                                     |                         |             |                     |                |                                |         |          |       |                 |                                |                                |              |       |       |  |
|---|-------------------------------------|-------------------------|-------------|---------------------|----------------|--------------------------------|---------|----------|-------|-----------------|--------------------------------|--------------------------------|--------------|-------|-------|--|
| API Number  | Current Operator                    | Well Name               | Well Number | Well Type           | Well Direction | Well Status                    | Section | Township | Range | OCD Unit Letter | Surface Location               | Bottomhole Location            | Formation    | MD    | TVD   |  |
| 30-025-34176  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #026        | Oil                 | Vertical       | Active                         | 35      | T19S     | R34E  | G               | G-35-19S-34E 1350 FNL 2570 FEL | G-35-19S-34E 2570 FNL 2570 FEL | QUEEN        | 5236  | 5236  |  |
| 30-025-34164  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #025        | Oil                 | Vertical       | Active                         | 35      | T19S     | R34E  | J               | J-35-19S-34E 2620 FSL 2620 FEL | J-35-19S-34E 2620 FSL 2620 FEL | QUEEN        | 5204  | 5204  |  |
| 30-025-20694  | LINN OPERATING, LLC                 | MESCALERO RIDGE UNIT    | #357        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | B               | B-35-19S-34E 660 FNL 1980 FEL  | B-35-19S-34E 660 FNL 1980 FEL  | QUEEN        | 5250  | 5250  |  |
| 30-025-21857  | LINN OPERATING, LLC                 | MESCALERO RIDGE UNIT    | #263        | Injection           | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | O               | O-26-19S-34E 330 FSL 1980 FEL  | O-26-19S-34E 330 FSL 1980 FEL  | QUEEN        | 5150  | 5150  |  |
| 30-025-20692  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #354        | Injection           | Vertical       | Active                         | 35      | T19S     | R34E  | G               | G-35-19S-34E 1980 FNL 1980 FEL | G-35-19S-34E 1980 FNL 1980 FEL | QUEEN        | 5260  | 5260  |  |
| 30-025-22196  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #006        | Oil                 | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | J               | J-26-19S-34E 1650 FSL 1980 FEL | J-26-19S-34E 1650 FSL 1980 FEL | QUEEN        | 5160  | 5160  |  |
| 30-025-20565  | LINN OPERATING, LLC                 | MESCALERO RIDGE UNIT    | #352        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | J               | J-35-19S-34E 1980 FSL 1980 FEL | J-35-19S-34E 1980 FSL 1980 FEL | QUEEN        | 5268  | 5268  |  |
| 30-025-23319  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #002        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | J               | J-35-19S-34E 2310 FSL 1800 FEL | J-35-19S-34E 0 FSL 1800 FEL    | BONE SPRING  | 13980 | 13980 |  |
| 30-025-36662  | DEVON ENERGY PRODUCTION COMPANY, LP | MESCALERO RIDGE UNIT    | #040        | Oil                 | Vertical       | Cancelled Apd                  | 26      | T19S     | R34E  | O               | O-26-19S-34E 1000 FSL 1400 FEL | O-26-19S-34E 1000 FSL 1400 FEL | QUEEN        | 6000  | 6000  |  |
| 30-025-21859  | BP AMERICA PRODUCTION COMPANY       | MESCALERO RIDGE UNIT    | #017        | Salt Water Disposal | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | G               | G-35-19S-34E 1980 FNL 1650 FEL | G-35-19S-34E 1980 FNL 1650 FEL | SEVEN RIVERS | 4040  | 4040  |  |
| 30-025-36660  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #023        | Oil                 | Vertical       | Active                         | 35      | T19S     | R34E  | A               | A-35-19S-34E 1300 FNL 1300 FEL | A-35-19S-34E 1300 FNL 1300 FEL | QUEEN        | 5215  | 5215  |  |
| 30-025-36661  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #024        | Oil                 | Vertical       | Active                         | 35      | T19S     | R34E  | H               | H-35-19S-34E 2620 FNL 1300 FEL | H-35-19S-34E 2620 FNL 1300 FEL | QUEEN        | 5200  | 5200  |  |
| 30-025-21798  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #262        | Oil                 | Vertical       | Active                         | 26      | T19S     | R34E  | P               | P-26-19S-34E 330 FSL 660 FEL   | P-26-19S-34E 330 FSL 660 FEL   | QUEEN        | 5150  | 5150  |  |
| 30-025-21683  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #015        | Injection           | Vertical       | Active                         | 35      | T19S     | R34E  | A               | A-35-19S-34E 660 FNL 660 FEL   | A-35-19S-34E 660 FNL 660 FEL   | QUEEN        | 5135  | 5135  |  |
| 30-025-39895  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #020D       | Oil                 | Horizontal     | Cancelled Apd                  | 34      | T19S     | R34E  | D               | D-34-19S-34E 730 FNL 330 FWL   | A-34-19S-34E 330 FNL 330 FEL   | BONE SPRING  | 15397 | 10840 |  |
| 30-025-42604  | CIMAREX ENERGY CO.                  | MALLON 27 FEDERAL COM   | #004H       | Oil                 | Horizontal     | New                            | 27      | T19S     | R34E  | M               | M-27-19S-34E 305 FSL 450 FWL   | E-27-19S-34E 1650 FNL 450 FWL  | BONE SPRING  | 13970 | 10860 |  |
| 30-025-30725  | Contango Resources, LLC             | STIVASON FEDERAL        | #005        | Oil                 | Vertical       | Approved Temporary Abandonment | 27      | T19S     | R34E  | M               | M-27-19S-34E 660 FSL 550 FWL   | M-27-19S-34E 660 FSL 550 FWL   | QUEEN        | 5115  | 5115  |  |
| 30-025-30918  | MERIT ENERGY COMPANY, LLC           | WEST PEARL FEDERAL      | #001        | Oil                 | Vertical       | Plugged, Site Released         | 27      | T19S     | R34E  | L               | L-27-19S-34E 1980 FSL 660 FWL  | L-27-19S-34E 1980 FSL 660 FWL  | SEVEN RIVERS | 5300  | 5300  |  |
| 30-025-34678  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 27 FEDERAL       | #014        | Oil                 | Vertical       | Cancelled Apd                  | 27      | T19S     | R34E  | M               | M-27-19S-34E 660 FSL 660 FWL   | M-27-19S-34E 660 FSL 660 FWL   | BONE SPRING  | 10300 | 10300 |  |
| 30-025-32654  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 27 FEDERAL       | #003        | Oil                 | Vertical       | Cancelled Apd                  | 27      | T19S     | R34E  | E               | E-27-19S-34E 1980 FNL 660 FWL  | E-27-19S-34E 1980 FNL 660 FWL  | DELAWARE     | 8300  | 8300  |  |
| 30-025-34300  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 27 FEDERAL       | #003        | Oil                 | Vertical       | Cancelled Apd                  | 27      | T19S     | R34E  | E               | E-27-19S-34E 1980 FNL 660 FWL  | E-27-19S-34E 1980 FNL 660 FWL  | DELAWARE     | 8300  | 8300  |  |
| 30-025-32605  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #001        | Salt Water Disposal | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | D               | D-34-19S-34E 660 FNL 990 FWL   | D-34-19S-34E 660 FNL 990 FWL   | DELAWARE     | 6306  | 6306  |  |
| 30-025-32616  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 34 FEDERAL       | #005        | Oil                 | Vertical       | Cancelled Apd                  | 34      | T19S     | R34E  | E               | E-34-19S-34E 1980 FNL 660 FWL  | E-34-19S-34E 1980 FNL 660 FWL  | BONE SPRING  | 10300 | 10300 |  |
| 30-025-34349  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 27 FEDERAL       | #001        | Oil                 | Vertical       | Cancelled Apd                  | 27      | T19S     | R34E  | N               | N-27-19S-34E 990 FSL 1980 FWL  | N-27-19S-34E 990 FSL 1980 FWL  | DELAWARE     | 6200  | 6200  |  |
| 30-025-32652  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 27 FEDERAL       | #001        | Oil                 | Vertical       | Cancelled Apd                  | 27      | T19S     | R34E  | N               | N-27-19S-34E 990 FSL 1980 FWL  | N-27-19S-34E 990 FSL 1980 FWL  | DELAWARE     | 6200  | 6200  |  |
| 30-025-32815  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #013        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | K               | K-34-19S-34E 1980 FSL 1980 FWL | K-34-19S-34E 1980 FSL 1980 FWL | DELAWARE     | 6270  | 6270  |  |
| 30-025-32617  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 34 FEDERAL       | #006        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | C               | C-34-19S-34E 660 FNL 1980 FWL  | C-34-19S-34E 660 FNL 1980 FWL  | DELAWARE     | 8312  | 8312  |  |
| 30-025-41808  | MATADOR PRODUCTION COMPANY          | MALLON 27 FEDERAL COM   | #003H       | Oil                 | Horizontal     | Active                         | 27      | T19S     | R34E  | N               | N-27-19S-34E 260 FSL 2080 FWL  | C-22-19S-34E 2316 FSL 1923 FWL | BONE SPRING  | 18260 | 10798 |  |
| 30-025-32615  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 34 FEDERAL       | #004        | Oil                 | Vertical       | Cancelled Apd                  | 34      | T19S     | R34E  | F               | F-34-19S-34E 1980 FNL 1980 FWL | F-34-19S-34E 1980 FNL 1980 FWL | DELAWARE     | 6200  | 6200  |  |
| 30-025-33737  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 27 FEDERAL       | #004        | Oil                 | Vertical       | Plugged, Site Released         | 27      | T19S     | R34E  | O               | O-27-19S-34E 660 FSL 1980 FEL  | O-27-19S-34E 660 FSL 1980 FEL  | QUEEN        | 7100  | 7100  |  |
| 30-025-42315  | MATADOR PRODUCTION COMPANY          | MALLON 27 FEDERAL COM   | #002H       | Oil                 | Horizontal     | Active                         | 27      | T19S     | R34E  | O               | O-27-19S-34E 330 FSL 1980 FEL  | J-22-19S-34E 2310 FSL 1900 FEL | BONE SPRING  | 18297 | 10752 |  |
| 30-025-32784  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #009        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | G               | G-34-19S-34E 1980 FNL 1980 FEL | G-34-19S-34E 1980 FNL 1980 FEL | DELAWARE     | 10395 | 10395 |  |
| 30-025-32783  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #008        | Oil                 | Vertical       | Active                         | 34      | T19S     | R34E  | J               | J-34-19S-34E 1980 FSL 1980 FEL | J-34-19S-34E 1980 FSL 1980 FEL | DELAWARE     | 6300  | 6300  |  |
| 30-025-32786  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #011        | Oil                 | Vertical       | Active                         | 34      | T19S     | R34E  | B               | B-34-19S-34E 990 FNL 1650 FEL  | B-34-19S-34E 990 FNL 1650 FEL  | DELAWARE     | 7044  | 7044  |  |
| 30-025-32653  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 27 FEDERAL       | #002        | Oil                 | Vertical       | Plugged, Site Released         | 27      | T19S     | R34E  | P               | P-27-19S-34E 660 FSL 990 FEL   | P-27-19S-34E 660 FSL 990 FEL   | DELAWARE     | 7100  | 7100  |  |
| 30-025-32782  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #007        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | H               | H-34-19S-34E 1980 FNL 860 FEL  | H-34-19S-34E 1980 FNL 860 FEL  | DELAWARE     | 6300  | 6300  |  |
| 30-025-32785  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #010        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | P               | P-34-19S-34E 660 FSL 660 FEL   | P-34-19S-34E 660 FSL 660 FEL   | DELAWARE     | 6340  | 6340  |  |
| 30-025-39894  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #019H       | Oil                 | Horizontal     | Active                         | 34      | T19S     | R34E  | H               | H-34-19S-34E 1690 FNL 720 FEL  | E-34-19S-34E 1990 FNL 4915 FEL | BONE SPRING  | 15025 | 10875 |  |
| 30-025-42212  | MATADOR PRODUCTION COMPANY          | MALLON 27 FEDERAL COM   | #001H       | Oil                 | Horizontal     | Active                         | 27      | T19S     | R34E  | P               | P-27-19S-34E 330 FSL 660 FEL   | I-22-19S-34E 2310 FSL 660 FEL  | BONE SPRING  | 18255 | 10795 |  |
| 30-025-32606  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #002        | Oil                 | Vertical       | Active                         | 34      | T19S     | R34E  | A               | A-34-19S-34E 660 FNL 660 FEL   | A-34-19S-34E 660 FNL 660 FEL   | DELAWARE     | 6313  | 6313  |  |
| 30-025-32607  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #003        | Oil                 | Vertical       | Active                         | 34      | T19S     | R34E  | I               | I-34-19S-34E 1980 FSL 660 FEL  | I-34-19S-34E 1980 FSL 660 FEL  | DELAWARE     | 6300  | 6300  |  |
| 30-025-42804  | NADL AND GUSSMAN HEYCO, LLC         | HARLEQUIN 27 22 FEDERAL | #001C       | Oil                 | Horizontal     | Cancelled Apd                  | 27      | T19S     | R34E  | H               | H-27-19S-34E 2591 FNL 510 FEL  | I-22-19S-34E 2311 FSL 510 FEL  | BONE SPRING  | 15190 | 10800 |  |
| 30-025-40135  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 34 FEDERAL       | #020H       | Oil                 | Horizontal     | Active                         | 34      | T19S     | R34E  | A               | A-34-19S-34E 380 FNL 330 FEL   | D-34-19S-34E 760 FNL 4925 FEL  | BONE SPRING  | 15352 | 10870 |  |
| 30-025-21793  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #004        | Oil                 | Vertical       | Plugged, Site Released         | 34      | T19S     | R34E  | H               | H-34-19S-34E 1980 FNL 660 FEL  | H-34-19S-34E 1980 FNL 660 FEL  | QUEEN        | 5150  | 5150  |  |
| 30-025-40086  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #007H       | Oil                 | Horizontal     | Active                         | 35      | T19S     | R34E  | D               | D-35-19S-34E 585 FNL 330 FWL   | A-35-19S-34E 574 FNL 4940 FWL  | BONE SPRING  | 15359 | 10913 |  |
| 30-025-33046  | DEVON ENERGY PRODUCTION COMPANY, LP | MESCALERO RIDGE UNIT    | #019        | Oil                 | Vertical       | Cancelled Apd                  | 35      | T19S     | R34E  | D               | D-35-19S-34E 550 FNL 330 FWL   | D-35-19S-34E 550 FNL 330 FWL   | DELAWARE     | 6300  | 6300  |  |
| 30-025-40084  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #005H       | Oil                 | Horizontal     | Cancelled Apd                  | 35      | T19S     | R34E  | L               | L-35-19S-34E 1980 FSL 330 FWL  | I-35-19S-34E 1980 FSL 510 FEL  | BONE SPRING  | 15349 | 10990 |  |
| 30-025-32983  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #001        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | D               | D-35-19S-34E 660 FNL 660 FWL   | D-35-19S-34E 660 FNL 660 FWL   | DELAWARE     | 8330  | 8330  |  |
| 30-025-32984  | BLACK HILLS GAS RESOURCES, INC.     | MALLON 35 FEDERAL       | #002        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | E               | E-35-19S-34E 1650 FNL 660 FWL  | E-35-19S-34E 1650 FNL 660 FWL  | DELAWARE     | 8300  | 8300  |  |
| 30-025-27899  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #001        | Oil                 | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | E               | E-26-19S-34E 1980 FNL 660 FWL  | E-26-19S-34E 0 FNL 660 FWL     | QUEEN        | 5200  | 5200  |  |
| 30-025-32985  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #003        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | L               | L-35-19S-34E 2310 FSL 660 FWL  | L-35-19S-34E 2310 FSL 660 FWL  | DELAWARE     | 8330  | 8330  |  |
| 30-025-40085  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #006H       | Oil                 | Horizontal     | Cancelled Apd                  | 35      | T19S     | R34E  | E               | E-35-19S-34E 2310 FNL 330 FWL  | H-35-19S-34E 1980 FNL 510 FEL  | BONE SPRING  | 15362 | 10990 |  |
| 30-025-21267  | MERIT ENERGY COMPANY, LLC           | MESCALERO RIDGE UNIT    | #013        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | L               | L-35-19S-34E 1980 FSL 990 FWL  | L-35-19S-34E 1980 FSL 990 FWL  | QUEEN        | 5200  | 5200  |  |
| 30-025-21613  | MERIT ENERGY COMPANY, LLC           | MESCALERO RIDGE UNIT    | #014        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | D               | D-35-19S-34E 660 FNL 990 FWL   | D-35-19S-34E 660 FNL 990 FWL   | QUEEN        | 5050  | 5050  |  |
| 30-025-21266  | MERIT ENERGY COMPANY, LLC           | MESCALERO RIDGE UNIT    | #012        | Injection           | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | E               | E-35-19S-34E 1980 FNL 990 FWL  | E-35-19S-34E 1980 FNL 990 FWL  | QUEEN        | 5200  | 5200  |  |
| 30-025-22333  | DEVON ENERGY PRODUCTION COMPANY, LP | MESCALERO RIDGE UNIT    | #007        | Injection           | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | M               | M-26-19S-34E 990 FSL 990 FWL   | M-26-19S-34E 990 FSL 990 FWL   | QUEEN        | 5031  | 5031  |  |
| 30-025-22449  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #008        | Oil                 | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | L               | L-26-19S-34E 1980 FSL 990 FWL  | L-26-19S-34E 1980 FSL 990 FWL  | QUEEN        | 5035  | 5035  |  |
| 30-025-32987  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #005C       | Oil                 | Vertical       | Cancelled Apd                  | 35      | T19S     | R34E  | C               | C-35-19S-34E 400 FNL 1680 FWL  | C-35-19S-34E 400 FNL 1680 FWL  | DELAWARE     | 8200  | 8200  |  |
| 30-025-32988  | CIMAREX ENERGY CO. OF COLORADO      | MALLON 35 FEDERAL       | #006F       | Oil                 | Vertical       | Cancelled Apd                  | 35      | T19S     | R34E  | F               | F-35-19S-34E 1720 FNL 1680 FWL | F-35-19S-34E 1720 FNL 1680 FWL | DELAWARE     | 8200  | 8200  |  |
| 30-025-21072  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #005        | Oil                 | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | F               | F-35-19S-34E 1980 FNL 1980 FWL | F-35-19S-34E 0 FNL 1980 FWL    | QUEEN        | 5286  | 5286  |  |
| 30-025-22005  | PRE-ONGARD WELL OPERATOR            | PRE-ONGARD WELL         | #004        | Oil                 | Vertical       | Plugged, Site Released         | 26      | T19S     | R34E  | N               | N-26-19S-34E 330 FSL 1980 FWL  | N-26-19S-34E 0 FSL 1980 FWL    | QUEEN        | 5220  | 5220  |  |
| 30-025-20693  | LINN OPERATING, LLC                 | MESCALERO RIDGE UNIT    | #356        | Injection           | Vertical       | Plugged, Site Released         | 35      | T19S     | R34E  | C               | C-35-19S-34E 660 FNL 1980 FWL  | C-35-19S-34E 660 FNL 1980 FWL  | QUEEN        | 5250  | 5250  |  |
| 30-025-27204  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #269        | Oil                 | Vertical       | Active                         | 26      | T19S     | R34E  | N               | N-26-19S-34E 330 FSL 2030 FWL  | N-26-19S-34E 330 FSL 2030 FWL  | QUEEN        | 5218  | 5218  |  |
| 30-025-29517  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #018        | Oil                 | Vertical       | Active                         | 35      | T19S     | R34E  | F               | F-35-19S-34E 2240 FNL 2030 FWL | F-35-19S-34E 2240 FNL 2030 FWL | QUEEN        | 5250  | 5250  |  |
| 30-025-20695  | BXP Operating, LLC                  | MESCALERO RIDGE UNIT    | #358        | Injection           | Vertical</     |                                |         |          |       |                 |                                |                                |              |       |       |  |

VII (4)

Permian Oilfield Partners, LLC.  
 Belated Federal SWD #1  
 637' FSL, 208' FEL  
 Sec. 27, T19S, R34E, Lea Co. NM  
 Lat 32.6257672° N, Lon -103.5401562° W  
 GL 3725', RKB 3755'

| Regional Source Water Analysis |                         |                              |                        |                            |
|--------------------------------|-------------------------|------------------------------|------------------------|----------------------------|
| Well Name                      | MOBIL LEA STATE<br>#003 | COOTER 16 STATE<br>COM #006H | PLAYA 2 STATE<br>#002H | ZINNIA BKC<br>FEDERAL #001 |
| API                            | 3002532105              | 3001537876                   | 3002540549             | 3001527939                 |
| Latitude                       | 32.5976906              | 32.123642                    | 32.6830215             | 32.5462379                 |
| Longitude                      | -103.5367584            | -103.9862061                 | -103.5371552           | -104.0686035               |
| Sec                            | 2                       | 16                           | 2                      | 27                         |
| Township                       | 20S                     | 25S                          | 19S                    | 20S                        |
| Range                          | 34E                     | 29E                          | 34E                    | 29E                        |
| Unit                           | M                       | O                            | M                      | E                          |
| Ftg NS                         | 990S                    | 330S                         | 330S                   | 1980N                      |
| Ftg EW                         | 870W                    | 1650E                        | 760W                   | 910W                       |
| County                         | Lea                     | Eddy                         | Lea                    | Eddy                       |
| State                          | NM                      | NM                           | NM                     | NM                         |
| Field                          |                         |                              |                        |                            |
| Formation                      | Delaware                | Avalon Upper                 | 3rd Bone Spring Sand   | Wolfcamp                   |
| pH                             | 5.5                     | 7                            | 6.48                   | 5.7                        |
| TDS_mgL                        | 296822                  | 193732                       | 182368                 | 189739                     |
| Sodium_mgL                     | 87727.9                 | 74027.8                      | 41450                  |                            |
| Calcium_mgL                    | 45355                   | 513                          | 8421                   | 23920                      |
| Iron_mgL                       | 8.8125                  | 104                          | 28.1                   | 0.3                        |
| Magnesium_mgL                  |                         | 118                          | 1264                   | 963.2                      |
| Manganese_mgL                  |                         | 1                            | 0.8                    |                            |
| Chloride_mgL                   | 215237                  | 113441                       | 85041                  | 116724                     |
| Bicarbonate_mgL                | 143                     | 1830                         | 362                    | 427                        |
| Sulfate_mgL                    | 293                     | 2665                         | 956                    | 750                        |
| CO2_mgL                        |                         | 700                          | 180                    |                            |

## VII (5)

Permian Oilfield Partners, LLC.  
 Beat The Punch Federal SWD #1  
 798' FNL, 128' FEL  
 Sec. 25, T20S, R32E, Lea Co. NM  
 Lat 32.549220° N, Lon -103.711560° W  
 GL 3571', RKB 3601'

| Devonian Injection Zone Water Analysis |                       |                 |               |
|--|-----------------------|-----------------|---------------|
| Well Name                              | Leonard ST 1 (A) #001 | LEA UNIT #008   | LEA UNIT #009 |
| API                                    | 3001503537            | 3002502431      | 3002502432    |
| Latitude                               | 32.6839676            | 32.5927162      | 32.578598     |
| Longitude                              | -104.0347595          | -103.511673     | -103.5121155  |
| Sec                                    | 1                     | 12              | 13            |
| Township                               | 19S                   | 20S             | 20S           |
| Range                                  | 29E                   | 34E             | 34E           |
| Unit                                   | M                     | B               | B             |
| Ftg NS                                 | 610S                  | 810N            | 660N          |
| Ftg EW                                 | 660W                  | 1980E           | 2130E         |
| County                                 | Eddy                  | Lea             | Lea           |
| State                                  | NM                    | NM              | NM            |
| Field                                  |                       |                 |               |
| Formation                              | Devonian              | Devonian        | Devonian      |
| Sample Source                          | Drill Stem Test       | Drill Stem Test | Unknown       |
| pH                                     |                       |                 |               |
| TDS mgL                                | 29011                 | 33414           | 45778         |
| Chloride mgL                           | 16000                 | 18570           | 26440         |
| Bicarbonate mgL                        | 520                   | 227             | 1145          |
| Sulfate mgL                            | 1500                  | 1961            | 729           |



**Attachment to C-108**  
**Permian Oilfield Partners, LLC**  
**Belated Federal SWD #1**  
**637' FSL & 208' FEL**  
**Sec 27, T19S, R34E**  
**Lea County, NM**

June 10, 2023

**STATEMENT REGARDING SEISMICITY**

Examination of the USGS and NMT seismic activity databases shows minimal historic seismic activity  $>M2.0$  in the area ( $< 5.64$  mile radius, 25 sq. mi.) of the proposed above referenced SWD well, with one  $M2.2$  event recorded 5.6 mi SE of the proposed well in August 2021. This proposed well is not located within any current Seismic Response Area.

Permian Oilfield Partners does not own any 2D or 3D seismic data in the area of this proposed SWD well. Fault interpretations are based on well to well correlations and publicly available data and software as follows:

1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
2. Basement faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
3. Fault data was also correlated to the publicly available USGS GIS geologic units & structural features database, the NMOCD SWD Applications & Fault Map dated 02/14/2022, to the B3 Insights proprietary faults database, and to fault maps as published in the New Mexico Geological Society Special Publication 13A, "Energy and Mineral Resources of New Mexico: Petroleum Geology," by R. F. Broadhead, 2017.
4. The distance from the proposed injection well to the nearest known fault is approximately 0.6 mi (1.0 km). This fault depth is believed to be in the PreCambrian, well below the Devonian-Silurian injection interval, and separated vertically by the presence of the Montoya, Simpson and Ellenburger formations.
5. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from

the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for probabilistic estimation of fault slip potential resulting from fluid injection", was used to calculate the probability of the fault being stressed so as to create an induced seismic event.

6. As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.1 miles away from the nearest active or permitted Devonian disposal well (Fasken Quail 16 State SWD #9, SWD-1537). There is another permitted Devonian disposal well 4.3 miles to the NE, the Blackbuck Wildrye Fee SWD #1, SWD-2369, and an active Devonian disposal 5.1 miles to the NNE, the Solaris Wild Cobra 1 State SWD #2, SWD-1525. All three of these wells are included in the below FSP analysis.
7. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

#### Input assumptions:

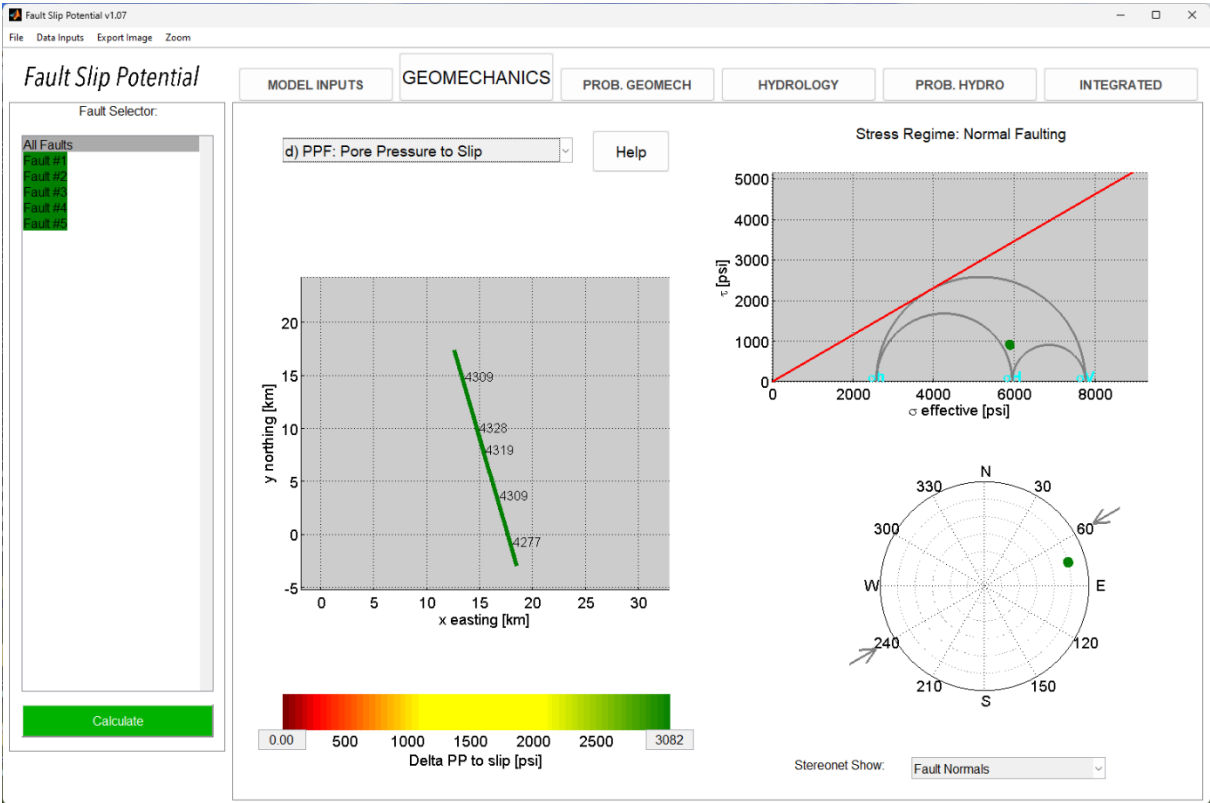
|  |           |
|--|-----------|
| Belated Fed SWD rate (BBL/day)           | 50000     |
| Fasken Quail 16 SWD #9 rate (BBL/day)    | 1800      |
| Blackbuck Wildrye Fee SWD rate (BBL/day) | 25000     |
| Solaris Wild Cobra 1 SWD #2 (BBL/day)    | 2500      |
| Interval height (ft)                     | 1262      |
| Average Porosity (%)                     | 5.4       |
| Vert stress gradient (psi/ft)            | 1.00      |
| Hor stress direction (deg N)             | 60        |
| Fault dip (deg)                          | 75        |
| Ref depth (ft)                           | 14604     |
| Initial res press gradient (psi/ft)      | 0.47      |
| A phi                                    | 0.65      |
| Friction coefficient                     | 0.58      |
| Weighted Average perm (mD)               | 19.3      |
| Fluid density (kg/m3)                    | 1100      |
| Dynamic viscosity (Pa-s)                 | 0.0003    |
| Fluid compressibility (/Pa)              | 4 e-10    |
| Rock compressibility (/Pa)               | 1.08 e-09 |

#### Note:

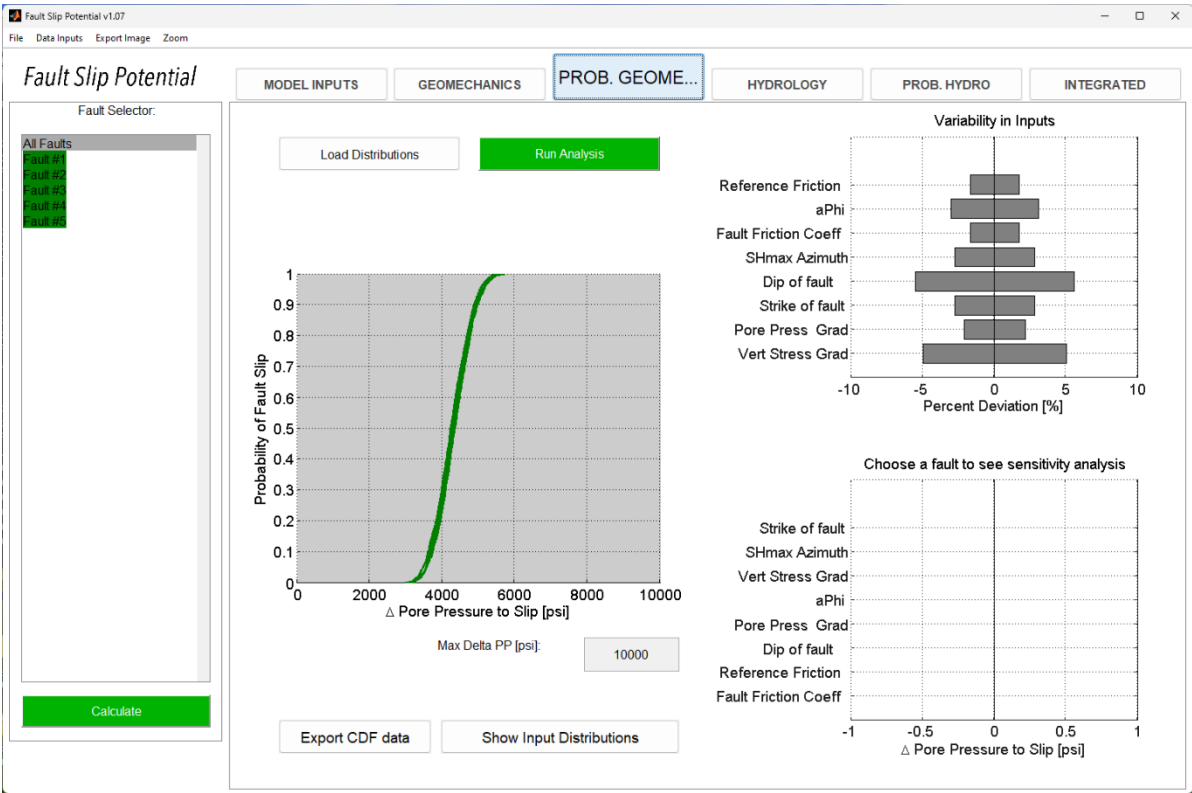
In screenshots below, injection well #1 is the proposed Belated Federal SWD #1. Injection well #2 is the active Fasken Quail 16 State SWD #9. Injection well #3 is the permitted Blackbuck Wildrye Fee SWD #1. Injection well #4 is the active Solaris Wild Cobra 1 State SWD #2.



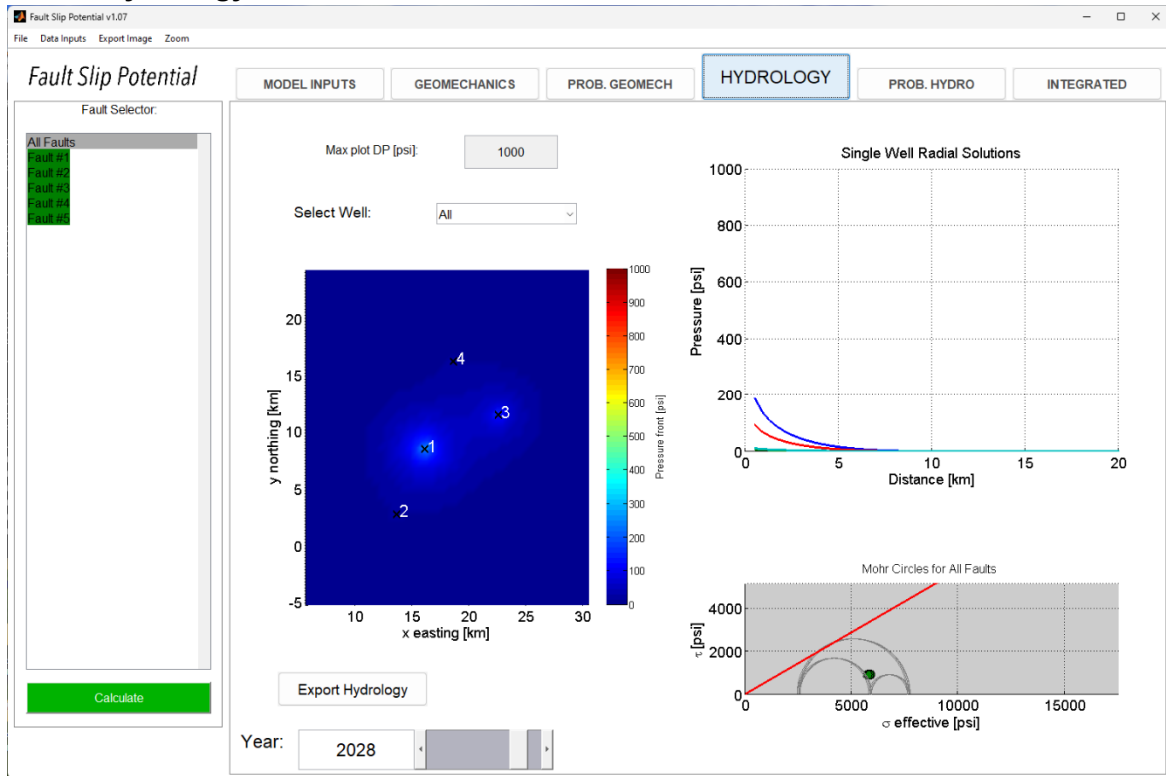
Geomechanics Pore Pressure to Slip



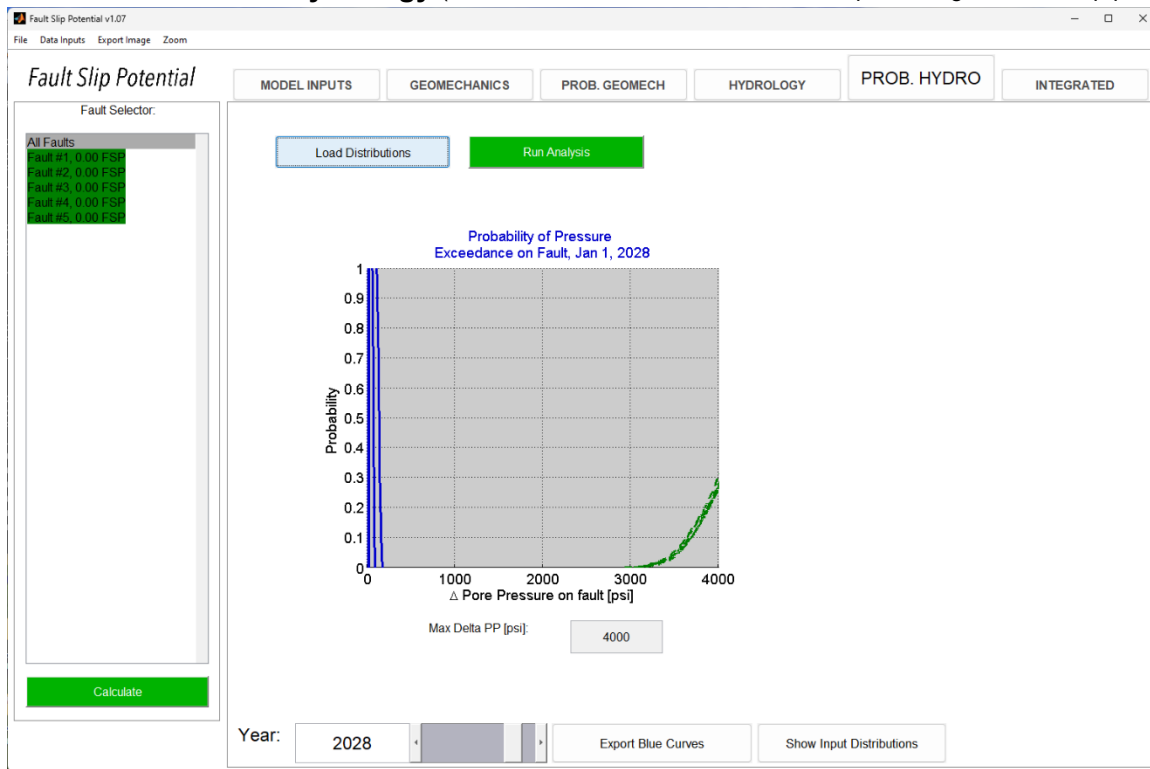
GeoMechanics Variability



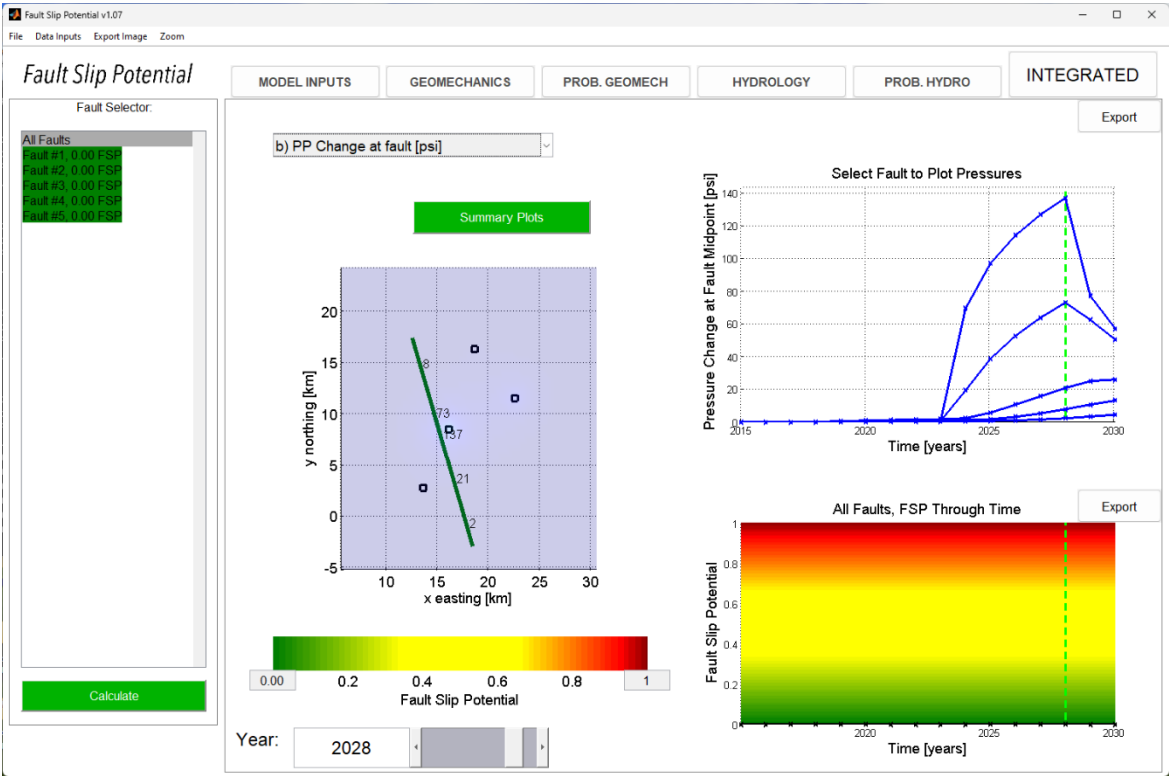
## Year 5 Hydrology



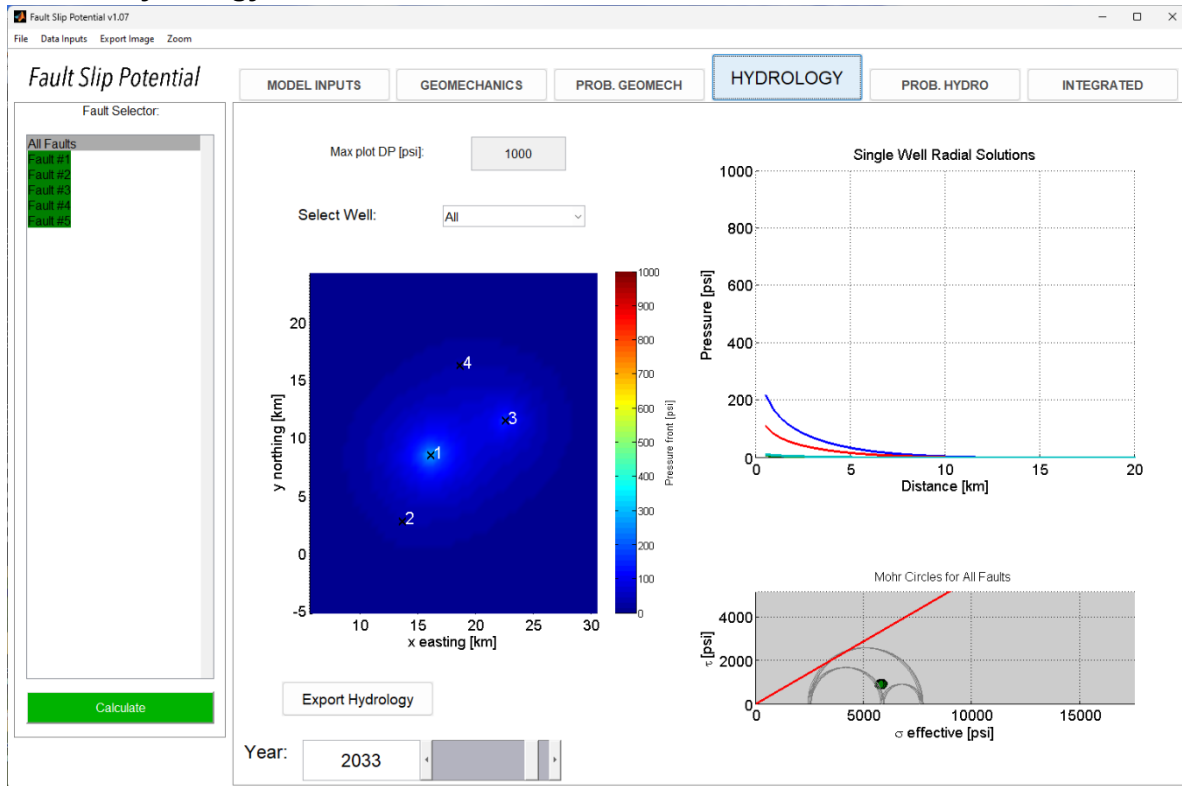
## Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. &amp; green fault slip press.)



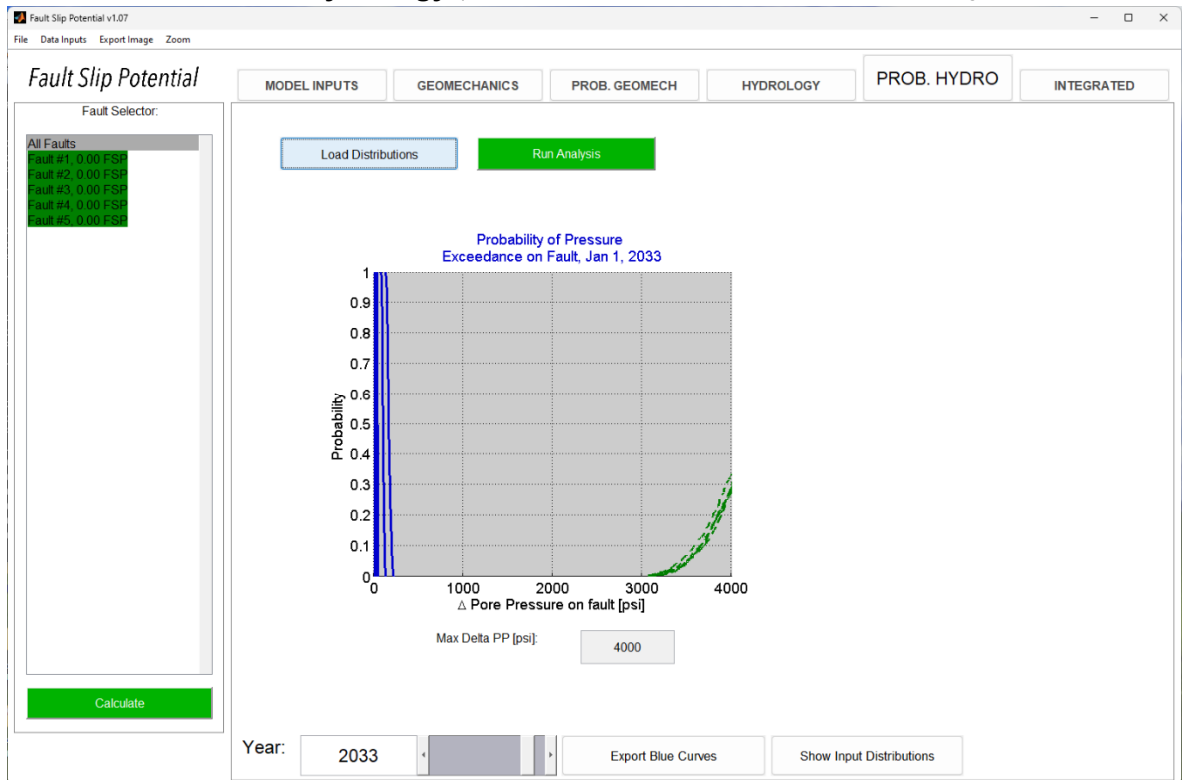
Year 5 Fault Slip Probability (0% after 5 years)



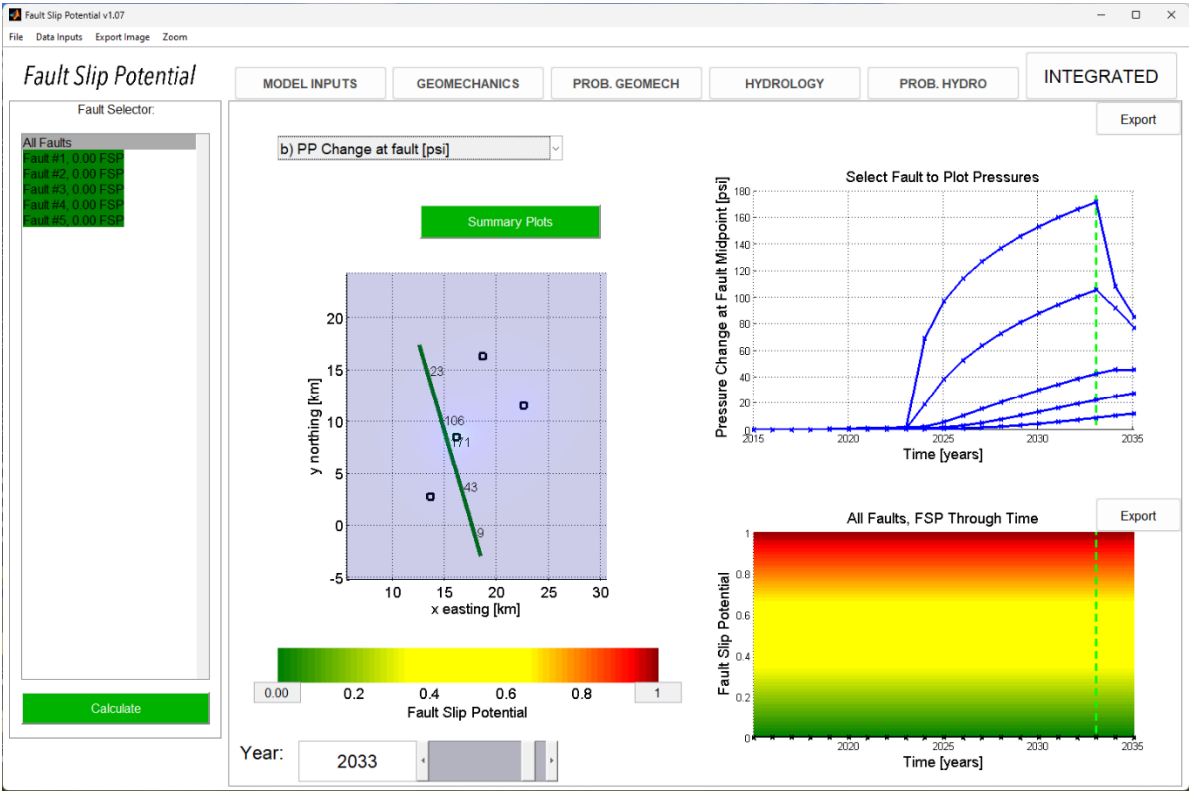
## Year 10 Hydrology



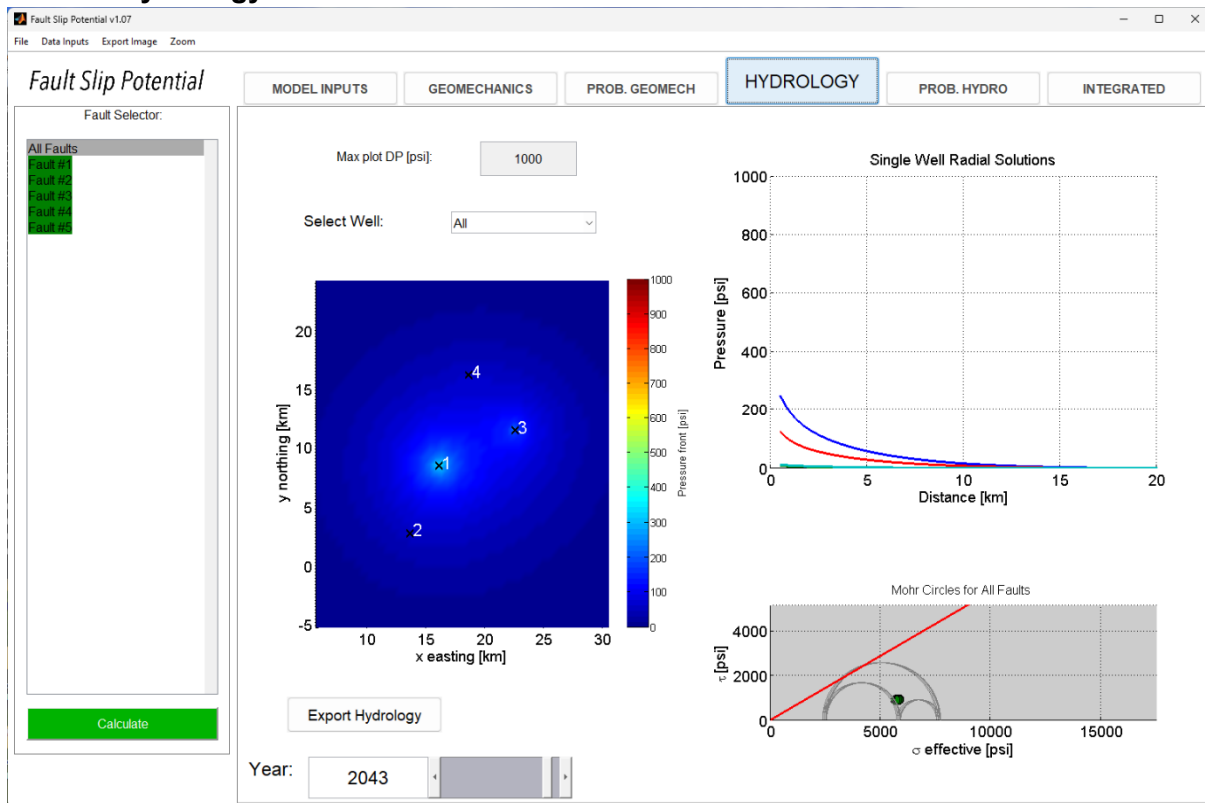
## Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



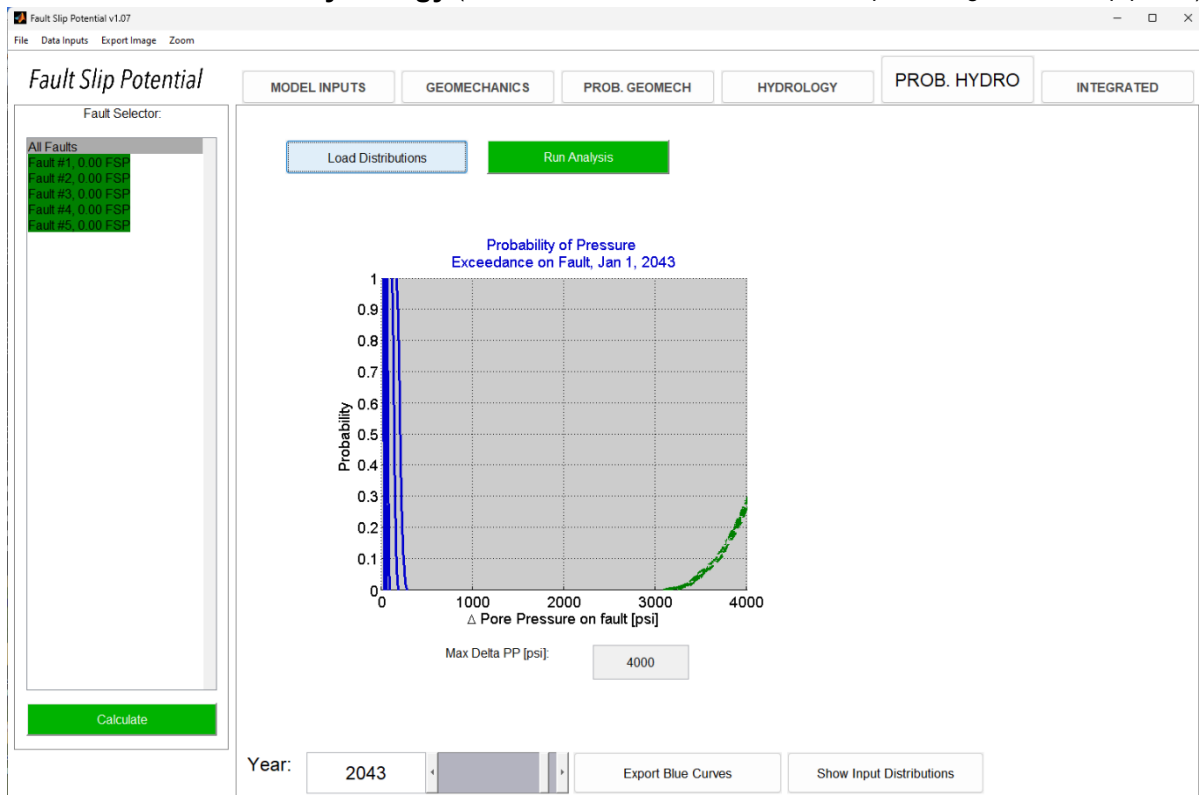
Year 10 Fault Slip Probability (0% after 10 years)



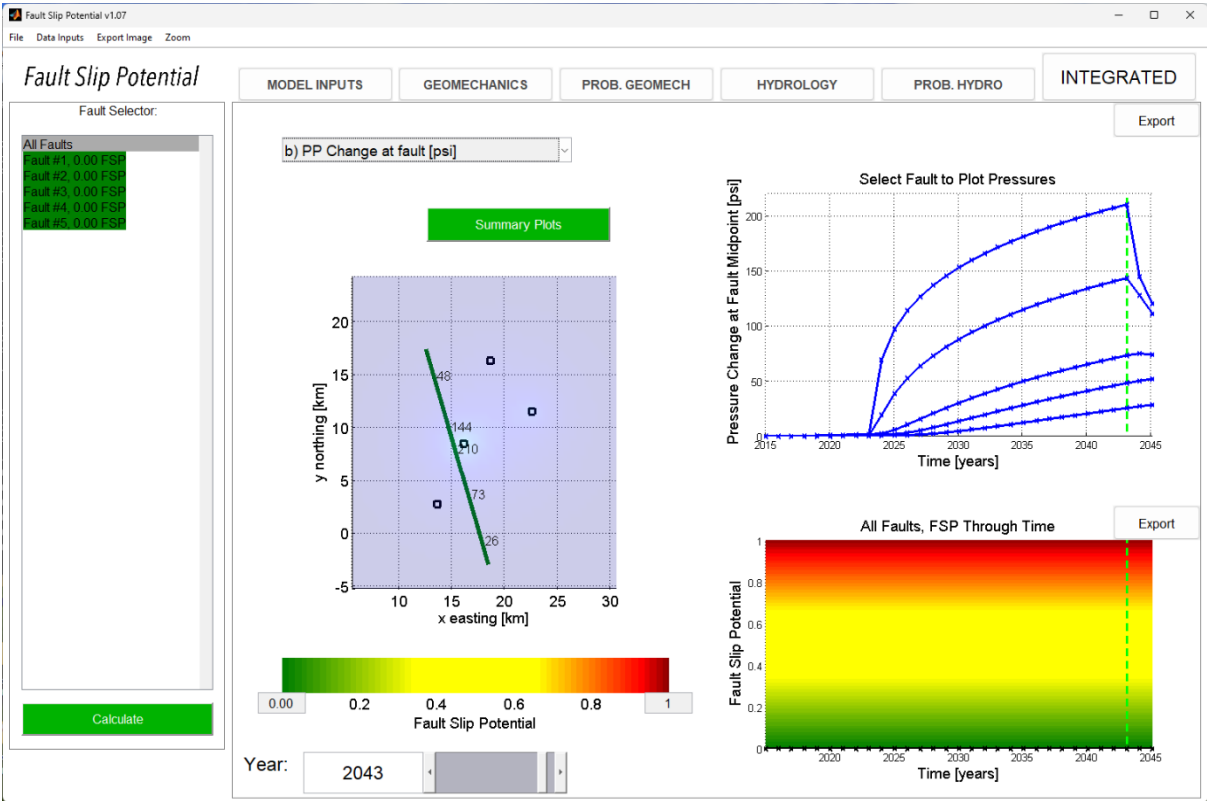
## Year 20 Hydrology



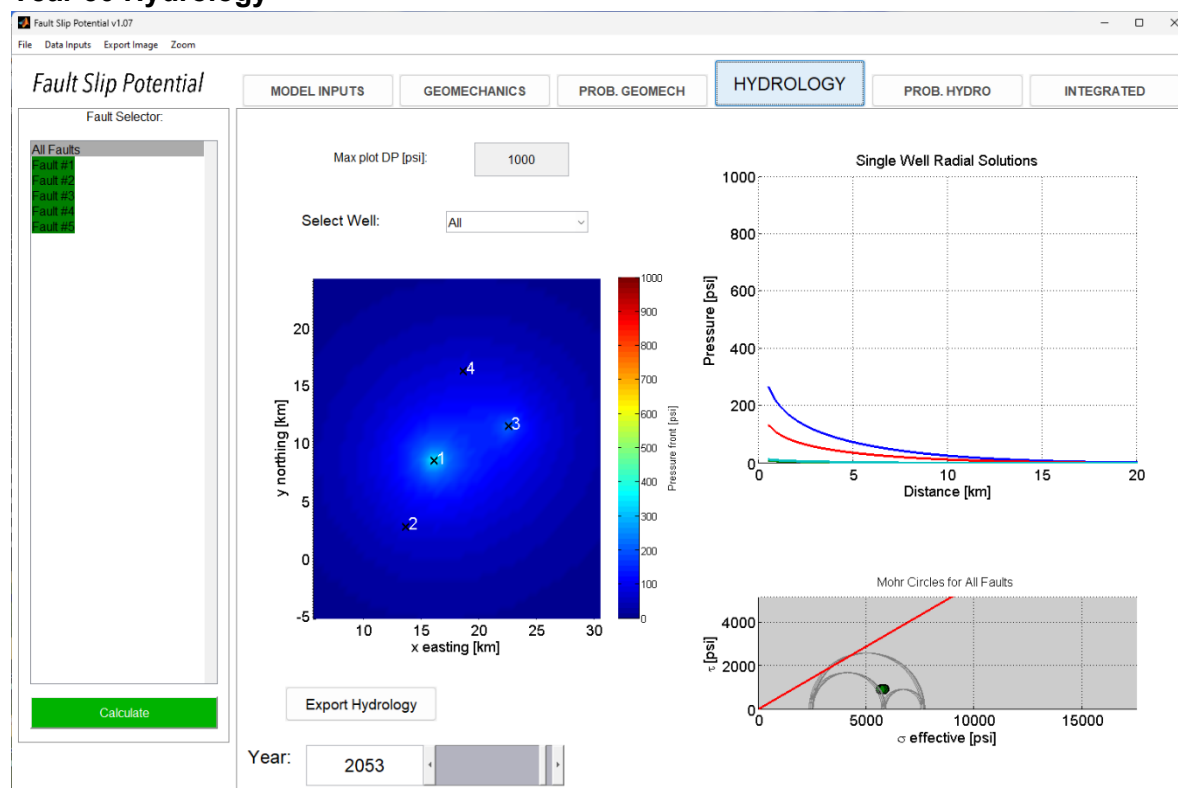
## Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



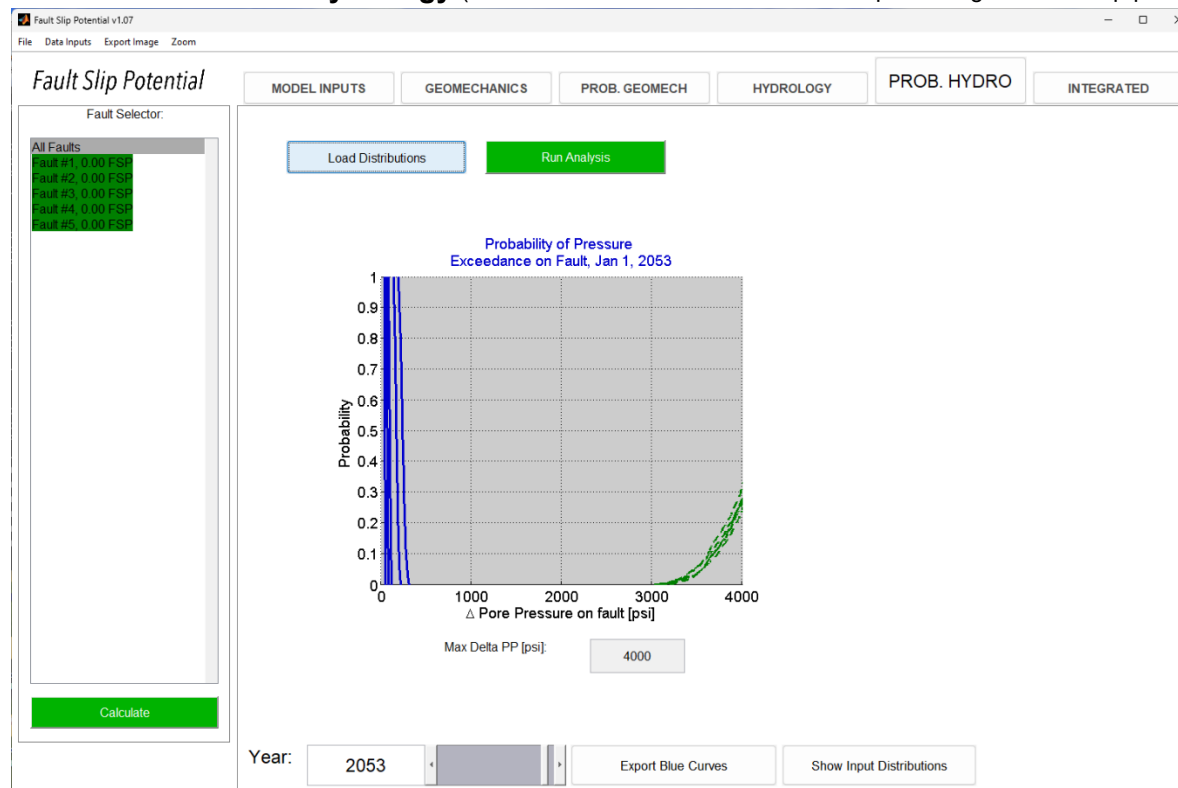
Year 20 Fault Slip Probability (0% after 20 years)



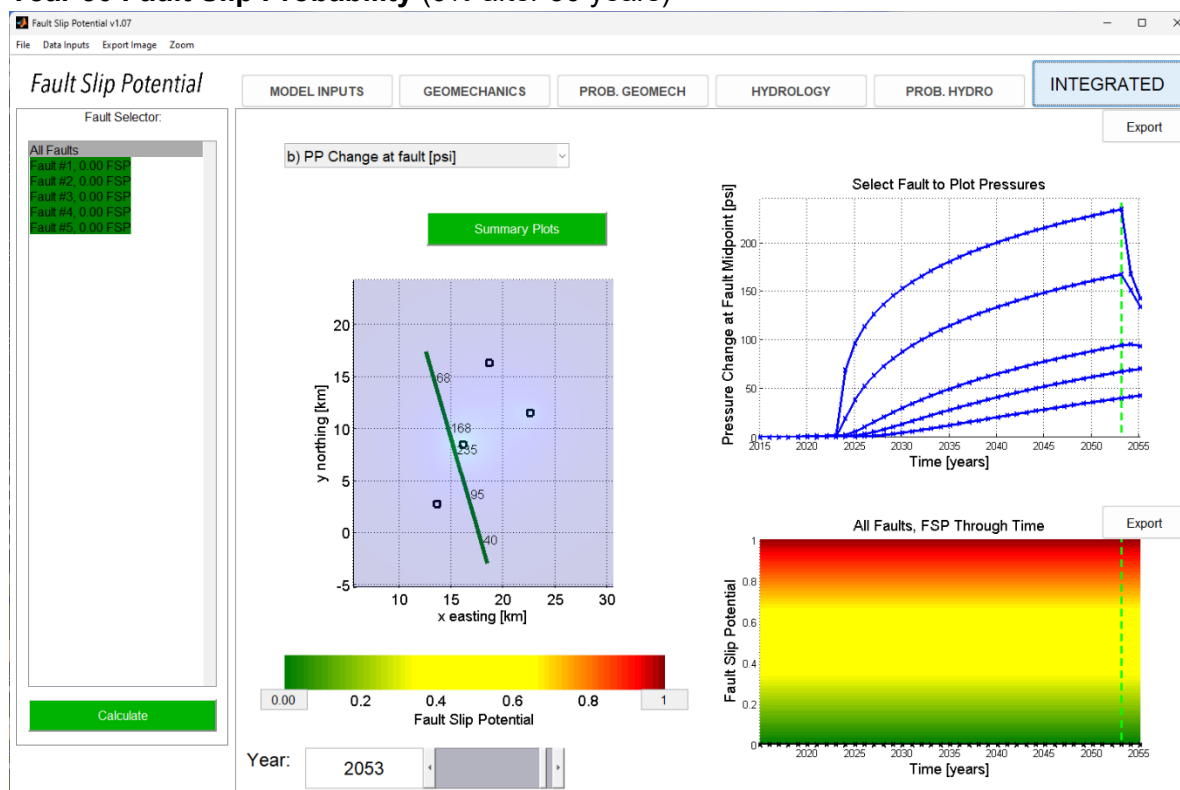
## Year 30 Hydrology



## Year 30 Probabilistic Hydrology (note no crossover between blue delta-press. &amp; green fault slip press.)





**Year 30 Fault Slip Probability (0% after 30 years)**[gfisher@popmidstream.com](mailto:gfisher@popmidstream.com)

(817) 606-7630



**Item XII. Affirmative Statement**

Re: C-108 Application for Authorization to Inject  
Permian Oilfield Partners, LLC  
Belated Federal SWD #1  
637' FSL & 208' FEL  
Sec 27, T19S, R34E  
Lea County, NM

Permian Oilfield Partners, LLC. has examined available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

A handwritten signature in black ink, appearing to read "Gary Fisher", is written over a light gray grid background.

Gary Fisher  
Manager  
Permian Oilfield Partners, LLC.

Date: 7/5/2023



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(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                    | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng    | X        | Y        | Depth Well | Depth Water | Water Column |
|-------------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">CP 00683 POD1</a> | CP           | LE    |        | 3    | 3    | 4   | 25  | 19S | 34E    | 639530   | 3610685* | 120        | 28          | 92           |
| <a href="#">CP 00806 POD1</a> | CP           | LE    |        | 4    | 4    | 04  | 19S | 34E | 635109 | 3617151* |          | 50         |             |              |
| <a href="#">CP 00811 POD1</a> | CP           | LE    |        | 4    | 4    | 09  | 19S | 34E | 635132 | 3615542* |          | 50         |             |              |
| <a href="#">CP 00875</a>      | CP           | LE    |        | 3    | 4    | 3   | 05  | 19S | 34E    | 632592   | 3617013* | 200        |             |              |
| <a href="#">CP 01672 POD1</a> | CP           | LE    |        | 1    | 3    | 1   | 36  | 19S | 34E    | 638736   | 3610009  | 100        |             |              |
| <a href="#">L 04059</a>       | L            | LE    |        | 4    | 1    | 12  | 19S | 34E | 639146 | 3616412* |          | 125        | 60          | 65           |
| <a href="#">L 04723</a>       | L            | LE    |        | 1    | 1    | 1   | 11  | 19S | 34E    | 637026   | 3616880* | 145        | 123         | 22           |
| <a href="#">L 06731</a>       | L            | LE    |        | 3    | 2    | 2   | 12  | 19S | 34E    | 639844   | 3616727* | 120        | 80          | 40           |
| <a href="#">L 07213</a>       | L            | LE    |        | 4    | 1    | 4   | 31  | 19S | 34E    | 631700   | 3609351* | 160        | 110         | 50           |
| <a href="#">L 10347</a>       | L            | LE    |        | 2    | 3    | 03  | 19S | 34E | 635909 | 3617566* |          | 130        |             |              |
| <a href="#">L 10380</a>       | L            | LE    |        | 4    | 4    | 4   | 02  | 19S | 34E    | 638428   | 3617102* | 153        | 100         | 53           |
| <a href="#">L 12103 POD1</a>  | L            | LE    |        | 3    | 3    | 4   | 02  | 19S | 34E    | 637920   | 3617173  | 120        |             |              |

Average Depth to Water: **83 feet**

Minimum Depth: **28 feet**

Maximum Depth: **123 feet**

Record Count: 12

PLSS Search:

Township: 19S

Range: 34E

\*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.

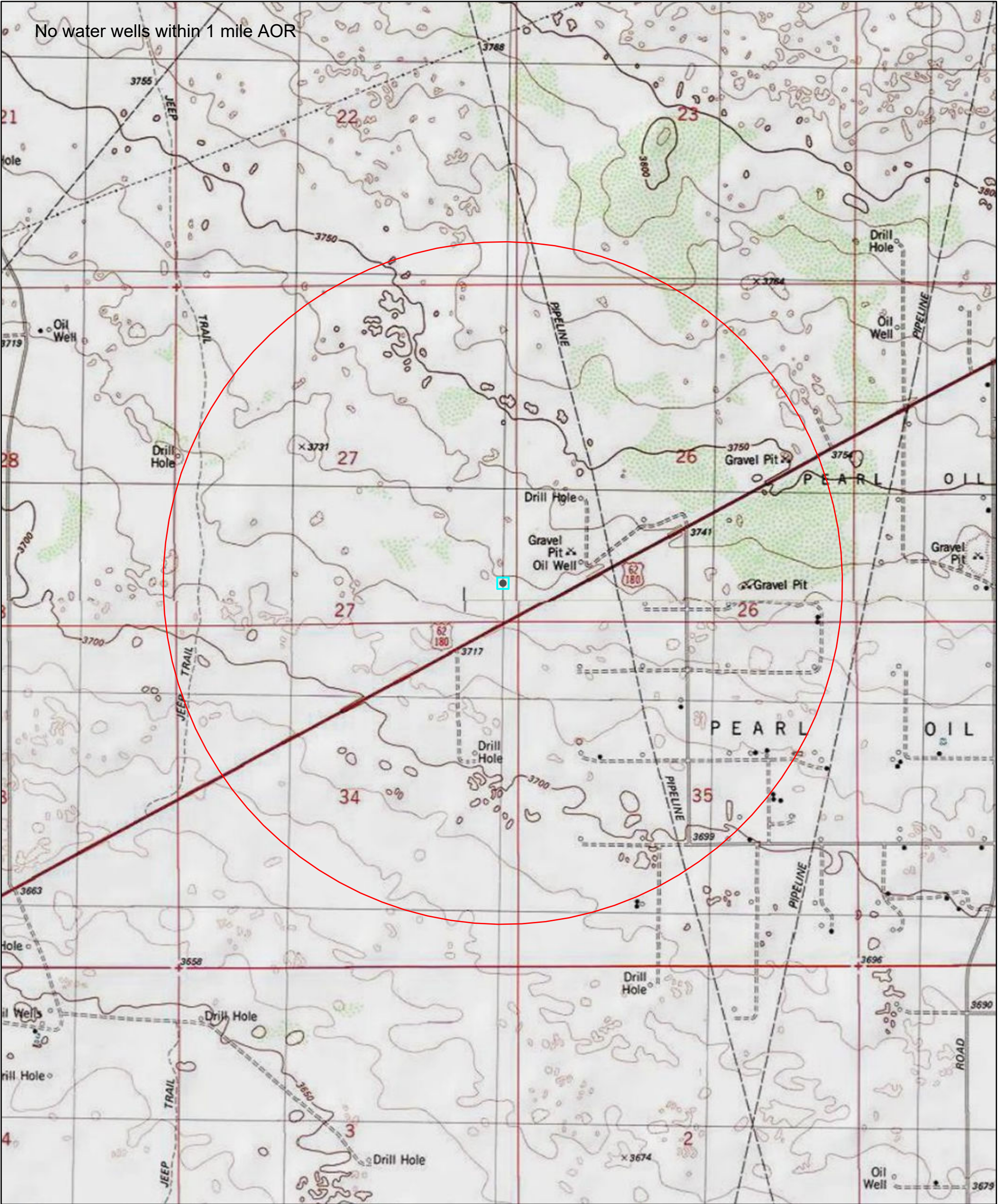
5/23/23 5:57 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



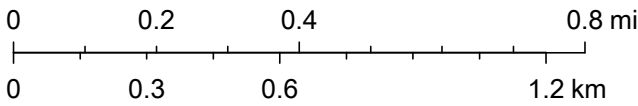
XI. Water Wells Within 1 Mile - Belated Federal SWD #1



5/23/2023, 7:03:27 PM

 SiteBoundaries

1:20,214



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U.S. Department of Energy Office of Legacy Management



**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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 241747

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Permian Oilfield Partners, LLC<br>PO Box 3329<br>Hobbs, NM 88241 | OGRID:<br>328259   |
|   | Action Number:<br>241747                                       |
|   | Action Type:<br>[IM-SD] Admin Order Support Doc (ENG) (IM-AAO) |

CONDITIONS

| Created By    | Condition | Condition Date |
|---------------|-----------|----------------|
| mgebremichael | None      | 7/18/2023      |