

AE Order Number Banner

Application Number: pMSG2319950030

SWD-2542

Permian Oilfield Partners, LLC [328259]

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Permian Oilfield Partners, LLC. OGRID Number: 328259
 Well Name: Immediate 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	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

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

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

Sean Puryear

Print or Type Name

Signature

7-5-2023
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: 7-5-2023

E-MAIL ADDRESS: **spuryear@popmidstream.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.

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 14,782'

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 2,963 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.

GEOLOGY PROGNOSIS			
FORMATION	TOP	BOTTOM	THICKNESS
	KB TVD (ft)	KB TVD (ft)	(ft)
Rustler	1,379	1,589	210
Salado	1,589	3,287	1,698
Yates	3,287	3,572	285
Capitan Reef	3,572	5,225	1,653
Delaware	5,225	8,284	3,059
Bone Spring	8,284	11,041	2,757
Wolfcamp	11,041	12,075	1,034
Lwr. Mississippian	14,197	14,632	435
Woodford	14,632	14,782	150
Devonian	14,782	15,601	819
Fusselman (Silurian)	15,601	15,929	328
Montoya (U. Ordovician)	15,929	16,329	400
Simpson (M. Ordovician)	16,329	16,779	450

- Regional shallow fresh water in the Quaternary is known to exist at depths less than 850'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 13,932'. There is a deeper potential USDW in the Capitan Reef formation. Depth from the bottom of this potential USDW to the injection zone is 9,557'. 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 97869		3 Pool Name SWD; DEVONIAN-SILURIAN	
4 Property Code		5 Property Name IMMEDIATE FEDERAL SWD			6 Well Number 1
7 OGRID NO. 328259		8 Operator Name PERMIAN OILFIELD PARTNERS, LLC			9 Elevation 3576'

10 Surface Location

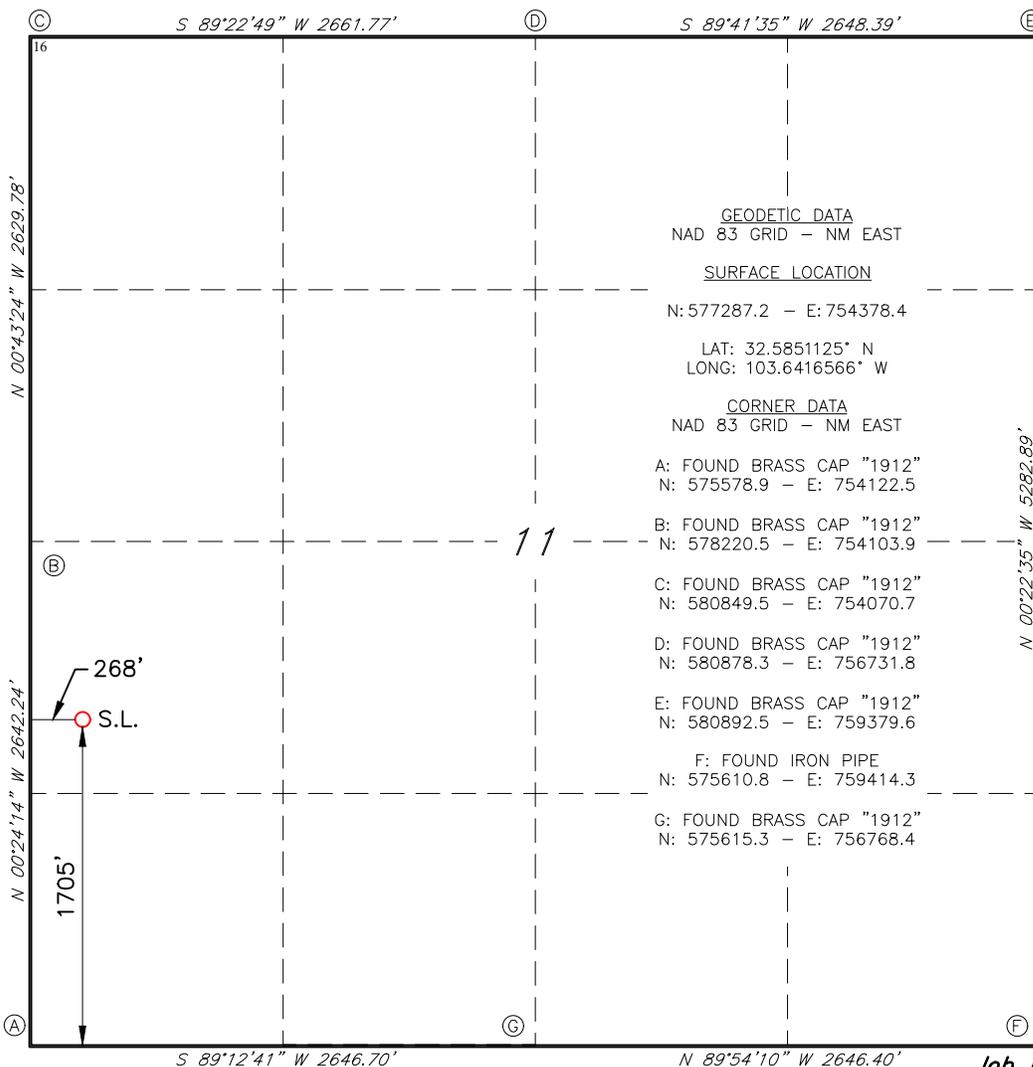
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
L	11	20S	33E		1705	SOUTH	268	WEST	LEA

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.



17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Gary Fisher* Date: 7-5-2023
Printed Name: Gary Fisher
E-mail Address: gfisher@popmidstream.com

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 05/30/2023
Signature and Seal of Professional Surveyor: *Dale E. Bell*
Certificate Number: 14400

Job No.: LS23050491

III (A)

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
 Immediate Federal SWD #1
 1705' FSL, 268' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.585113° N, Lon -103.641657° W
 GL 3576', RKB 3606'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1404'
 Cement: 1300 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 18.5" Casing: 16" - 75# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 3522'
 Cement: 1074 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 14.75" Casing: 13.375" - 68# HCP-110 FJ Casing
 Depth Top: Surface
 Depth Btm: 5250' ECP/DV Tool: 3622'
 Cement: 783 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #3 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 11091' ECP/5350'
 Cement: 1814 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #4 - (Liner)

Hole Size: 8.5" Casing: 7.625" - 39# HCL-80 FJ Casing"
 Depth Top: 10891'
 Depth Btm: 14817'
 Cement: 253 sks - Class H + Additives
 Cement Top: 10891' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5" Depth: 15904'
 Inj. Interval: 14817' - 15904' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14772' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ
 X/O Depth: 10891' Casing (Fiberglass Lined)
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14782' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives

III (A)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
 Immediate Federal SWD #1
 1705' FSL, 268' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.585113° N, Lon -103.641657° W
 GL 3576', RKB 3606'

Surface - (Conventional)

Hole Size: 26"
 Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1404'
 Cement: 1300 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 18.5"
 Casing: 16" - 75# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 3522'
 Cement: 1074 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 14.75"
 Casing: 13.375" - 68# HCP-110 FJ Casing
 Depth Top: Surface
 Depth Btm: 5250'
 Cement: 783 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 3622'

Intermediate #3 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 11091'
 Cement: 1814 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 5350'

Intermediate #4 - (Liner)

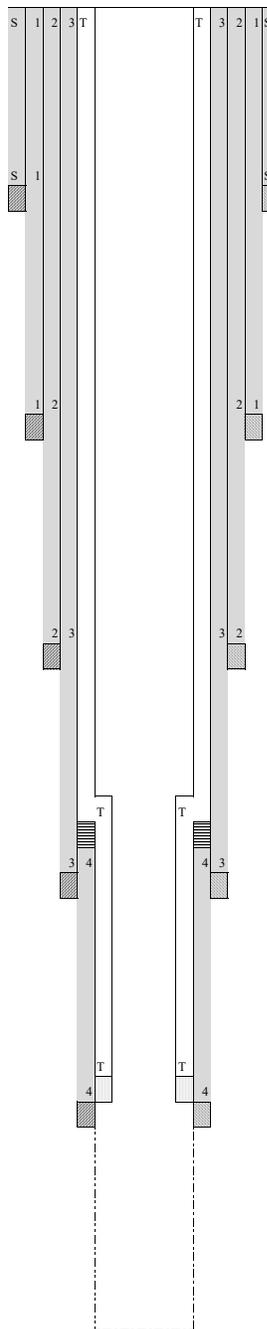
Hole Size: 8.5"
 Casing: 7.625" - 39# HCL-80 FJ Casing"
 Depth Top: 10891'
 Depth Btm: 14817'
 Cement: 253 sks - Class H + Additives
 Cement Top: 10891' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5"
 Depth: 15904'
 Inj. Interval: 14817' - 15904' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14772'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10891'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14782'
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives



XIII.



PERMIAN OILFIELD
PARTNERS

Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Immediate Federal SWD #1
1705' FSL & 268' FWL
Sec 11, T20S, R33E
Lea County, NM

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

Immediate 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
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562213003389	7/7/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562213004836	7/7/2023
Anadarko Petroleum Corp.	P.O. Box 2497	Midland, TX 79702	USPS	9414811899562213003174	7/7/2023
Apache Corporation	2000 Post Oak Blvd., Suite 100	Houston, TX 77056	USPS	9414811899562213003365	7/7/2023
BTA Oil Producers	104 S Pecos	Midland, TX 79701	USPS	9414811899562213003327	7/7/2023
Burlington Resources Oil & Gas LP	PO Box 2197	Houston, TX 77252	USPS	9414811899562213003372	7/7/2023
BXP Operating, LLC	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562213003068	7/7/2023
Chesapeake Exploration LLC	PO Box 18496	Oklahoma City, OK 73154	USPS	9414811899562213003044	7/7/2023
Chevron Midcontinent LP	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562213003082	7/7/2023
Chisos, Ltd.	1331 Lamar, Suite 1077	Houston, TX 77010	USPS	9414811899562213003457	7/7/2023
Cimarex Energy Co. of Colorado	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562213003426	7/7/2023
COG Operating LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562213003440	7/7/2023
ConocoPhillips	PO Box 2197	Houston, TX 77252	USPS	9414811899562213003433	7/7/2023
Devon Energy Operating Company, LP	20 North Broadway, STE 1500	Oklahoma City, OK 73102	USPS	9414811899562213003563	7/7/2023
Earthstone Operating, LLC	1400 Woodloch Forest; Ste 300	The Woodlands, TX 77380	USPS	9414811899562213003532	7/7/2023
Kerr McGee Oil & Gas Onshore LLC	16666 Northchase Dr.	Houston, TX 77060	USPS	9414811899562213004218	7/7/2023
Magnum Hunter Prod. Inc.	600 N. Marienfeld, Suite 600	Midland, TX 79701	USPS	9414811899562213004294	7/7/2023
Merit Energy Company, LLC	13727 Noel Road, Suite 500	Dallas, TX 75240	USPS	9414811899562213004287	7/7/2023
Momentum Operating Co, Inc.	P. O. Box 2439	Albany, TX 76430	USPS	9414811899562213004270	7/7/2023
Murchison Oil and Gas, LLC	7250 Dallas Parkway, Suite 1400	Plano, TX 75024	USPS	9414811899562213004829	7/7/2023
Nearburg Producting Co.	PO Box 823085	Dallas, TX 75382	USPS	9414811899562213004898	7/7/2023
OBO Inc.	8300 NW 103rd St.	Hialeah Gardens, FL 33016	USPS	9414811899562213004751	7/7/2023
Penroc Oil Corp.	PO Box 2769	Hobbs, NM 88241	USPS	9414811899562213004720	7/7/2023
Prime Rock Resources	203 W Wall St., Suite 1000	Midland, TX 79701	USPS	9414811899562213004799	7/7/2023
Samson Resources Co.	15 East 5th Street	Tulsa, OK 74103	USPS	9414811899562213830954	7/7/2023
Shackelford Oil Co.	11417 W County Rd 33	Midland, TX 79707	USPS	9414811899562213004744	7/7/2023
Tenneco Oil Co.	PO Box 73408	Houston, TX 77273	USPS	9414811899562213004928	7/7/2023
Trilogy Operating Inc.	P.O. Box 7606	Midland, TX 79708	USPS	9414811899562213004980	7/7/2023

Date: 7/7/2023

Sean Puryear
Permian Oilfield Partners, LLC
spuryear@popmidstream.com

ARTICLE NUMBER: 9414 8118 9956 2213 0031 74

ARTICLE NUMBER: 9414 8118 9956 2213 0033 65

ARTICLE ADDRESSED TO:

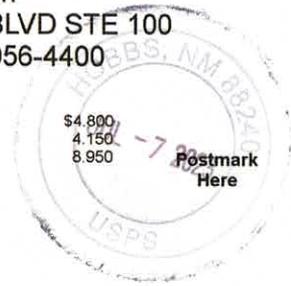
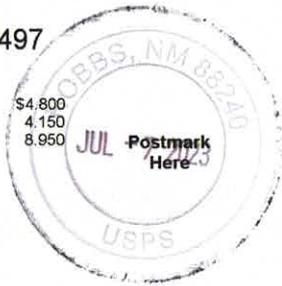
ARTICLE ADDRESSED TO:

Anadarko Petroleum Corp
PO BOX 2497
MIDLAND TX 79702-2497

Apache Corporation
2000 POST OAK BLVD STE 100
HOUSTON TX 77056-4400

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0033 27

ARTICLE NUMBER: 9414 8118 9956 2213 0033 89

ARTICLE ADDRESSED TO:

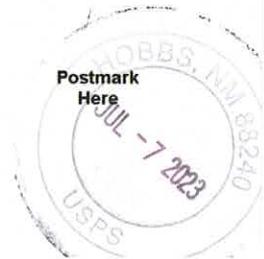
ARTICLE ADDRESSED TO:

BTA Oil Producers, LLC
104 S PECOS ST
MIDLAND TX 79701-5021

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

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0033 72

ARTICLE NUMBER: 9414 8118 9956 2213 0030 68

ARTICLE ADDRESSED TO:

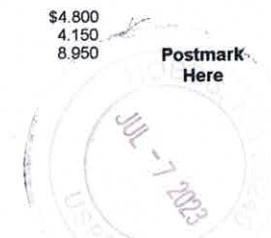
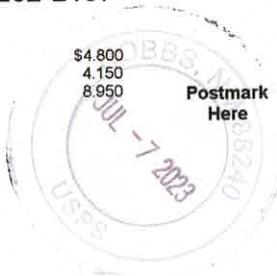
ARTICLE ADDRESSED TO:

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

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

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



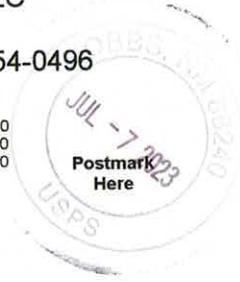
U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0030 44

ARTICLE ADDRESSED TO:

Chesapeake Exploration LLC
PO BOX 18496
OKLAHOMA CITY OK 73154-0496

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



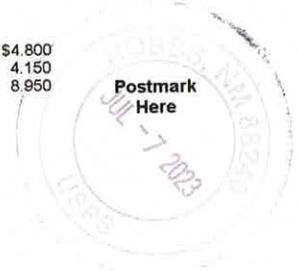
U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0030 82

ARTICLE ADDRESSED TO:

Chevron Midcontinent, LP
6301 DEAUVILLE
MIDLAND TX 79706-2964

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0034 57

ARTICLE ADDRESSED TO:

Chisos Ltd
1331 LAMAR ST STE 1077
HOUSTON TX 77010-3135

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0034 26

ARTICLE ADDRESSED TO:

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

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0034 40

ARTICLE ADDRESSED TO:

COG Operating LLC
600 W ILLINOIS AVE
MIDLAND TX 79701-4882

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0034 33

ARTICLE ADDRESSED TO:

ConocoPhillips Company
PO BOX 2197
HOUSTON TX 77252-2197

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0035 63

ARTICLE ADDRESSED TO:

Devon Energy Operating Co, LP
20 N BROADWAY STE 1500
OKLAHOMA CITY OK 73102-9213

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0035 32

ARTICLE ADDRESSED TO:

Earthstone Operating, LLC
1400 WOODLOCH FOREST DR STE 300
THE WOODLANDS TX 77380-1197

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



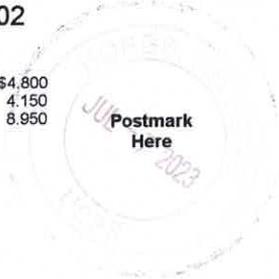
U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0042 18

ARTICLE ADDRESSED TO:

Kerr-McGee Oil & Gas Onshore LLC
16666 NORTHCHASE DR
HOUSTON TX 77060-6002

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0042 94

ARTICLE ADDRESSED TO:

Magnum Hunter Production Inc.
600 N MARIENFELD ST STE 600
MIDLAND TX 79701-4405

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



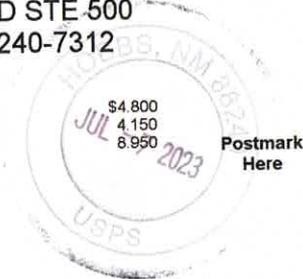
U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0042 87

ARTICLE ADDRESSED TO:

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

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0042 70

ARTICLE ADDRESSED TO:

Momentum Operating Co., Inc.
PO BOX 2439
ALBANY TX 76430-8020

FEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0048 29

ARTICLE ADDRESSED TO:

Murchison Oil & Gas, LLC
7250 DALLAS PKWY STE 1400
PLANO TX 75024-5002

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0048 98

ARTICLE ADDRESSED TO:

Nearburg Producing Co.
PO BOX 823085
DALLAS TX 75382-3085

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

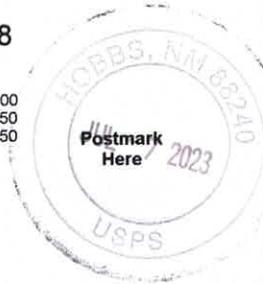
ARTICLE NUMBER: 9414 8118 9956 2213 0048 36

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0047 51

ARTICLE ADDRESSED TO:

OBO Inc.
8300 NW 103RD ST
HIALEAH GARDENS FL 33016-2253

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

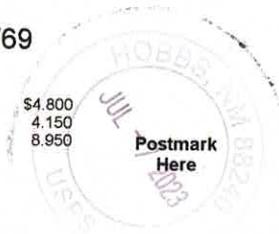
ARTICLE NUMBER: 9414 8118 9956 2213 0047 20

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0047 99

ARTICLE ADDRESSED TO:

Prime Rock Resources
203 W WALL ST STE 1000
MIDLAND TX 79701-4525

FEES

Postage Per Piece	\$4.800
Certified Fee	4.150
Total Postage & Fees:	8.950



U.S. Postal Service Certified Mail Receipt

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 8309 54

ARTICLE NUMBER: 9414 8118 9956 2213 0047 44

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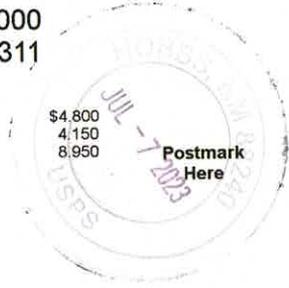
ARTICLE ADDRESSED TO:

Samson Resources Co.
15 E 5TH ST STE 1000
TULSA OK 74103-4311

Shackelford Oil Co.
11417 W COUNTY ROAD 33
MIDLAND TX 79707-9027

FEEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950

FEEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



U.S. Postal Service Certified Mail Receipt

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2213 0049 28

ARTICLE NUMBER: 9414 8118 9956 2213 0049 80

ARTICLE ADDRESSED TO:

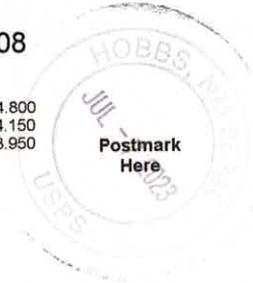
ARTICLE ADDRESSED TO:

Tenneco Oil Co.
PO BOX 73408
HOUSTON TX 77273-3408

Trilogy Operating Inc.
PO BOX 7606
MIDLAND TX 79708-7606

FEEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950

FEEES
Postage Per Piece \$4.800
Certified Fee 4.150
Total Postage & Fees: 8.950



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.

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 Immediate Federal SWD #1, and is located 1705' FSL & 268' FWL, Unit L, Section 11, Township 20 South, Range 33 East, NMPM, approximately 22 mi WSW of Monument, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 14,817 feet to 15,904 feet. The maximum expected injection rate is 50,000 BWP/D at a maximum surface injection pressure of 2,963 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.
#00278994

Publisher

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

Business Manager

My commission expires
January 29, 2027

(Seal)

STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087528
COMMISSION EXPIRES 01/29/2027

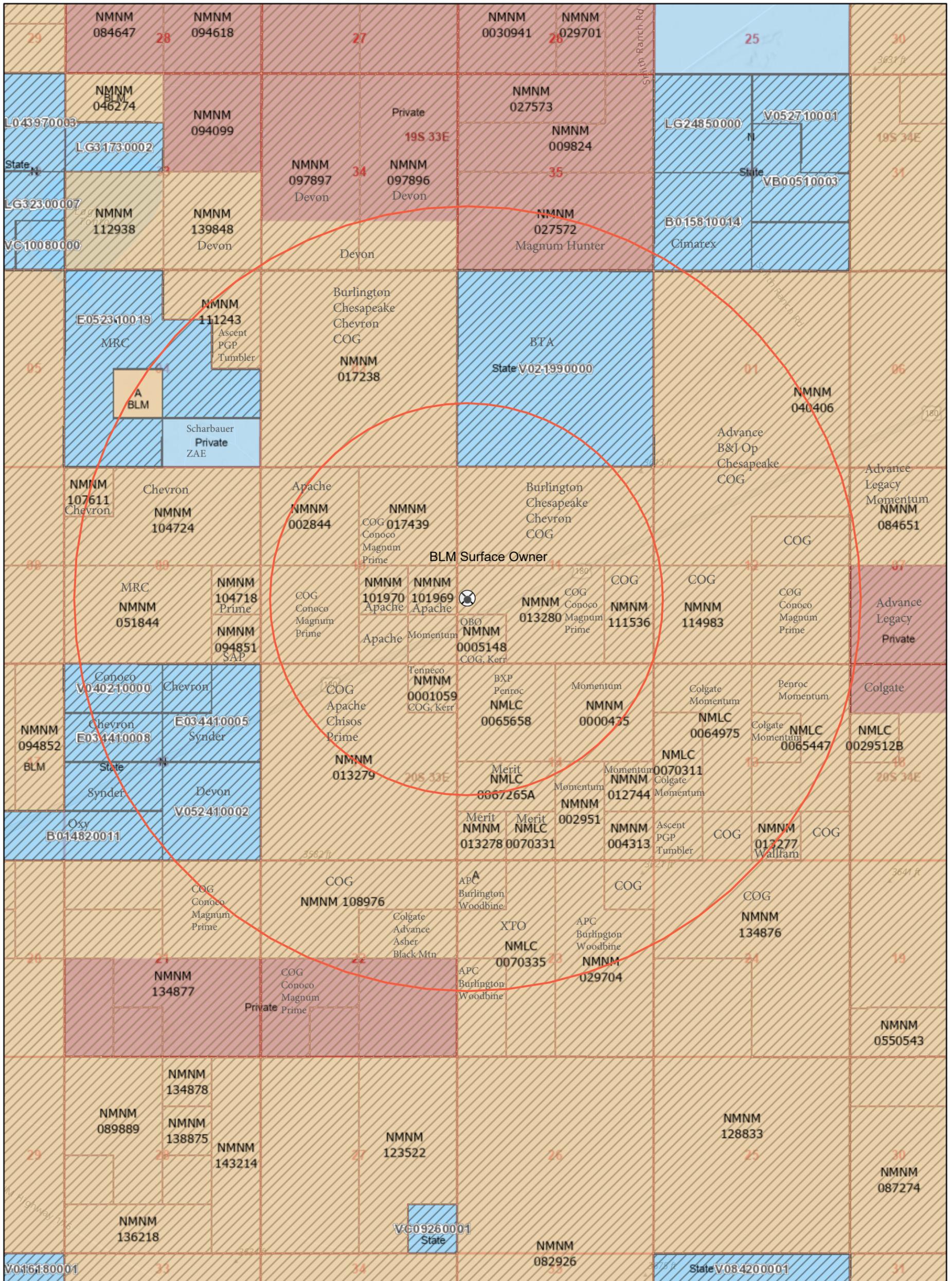
67115647

00278994

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

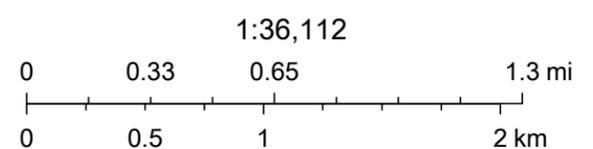
GARY FISHER
PERMIAN OILFIELD PARTNERS, LLC
PO BOX 3329
HOBBS, NM 88241

V (a) Immediate Federal SWD #1, 1 & 2 Mi AOR, Leases



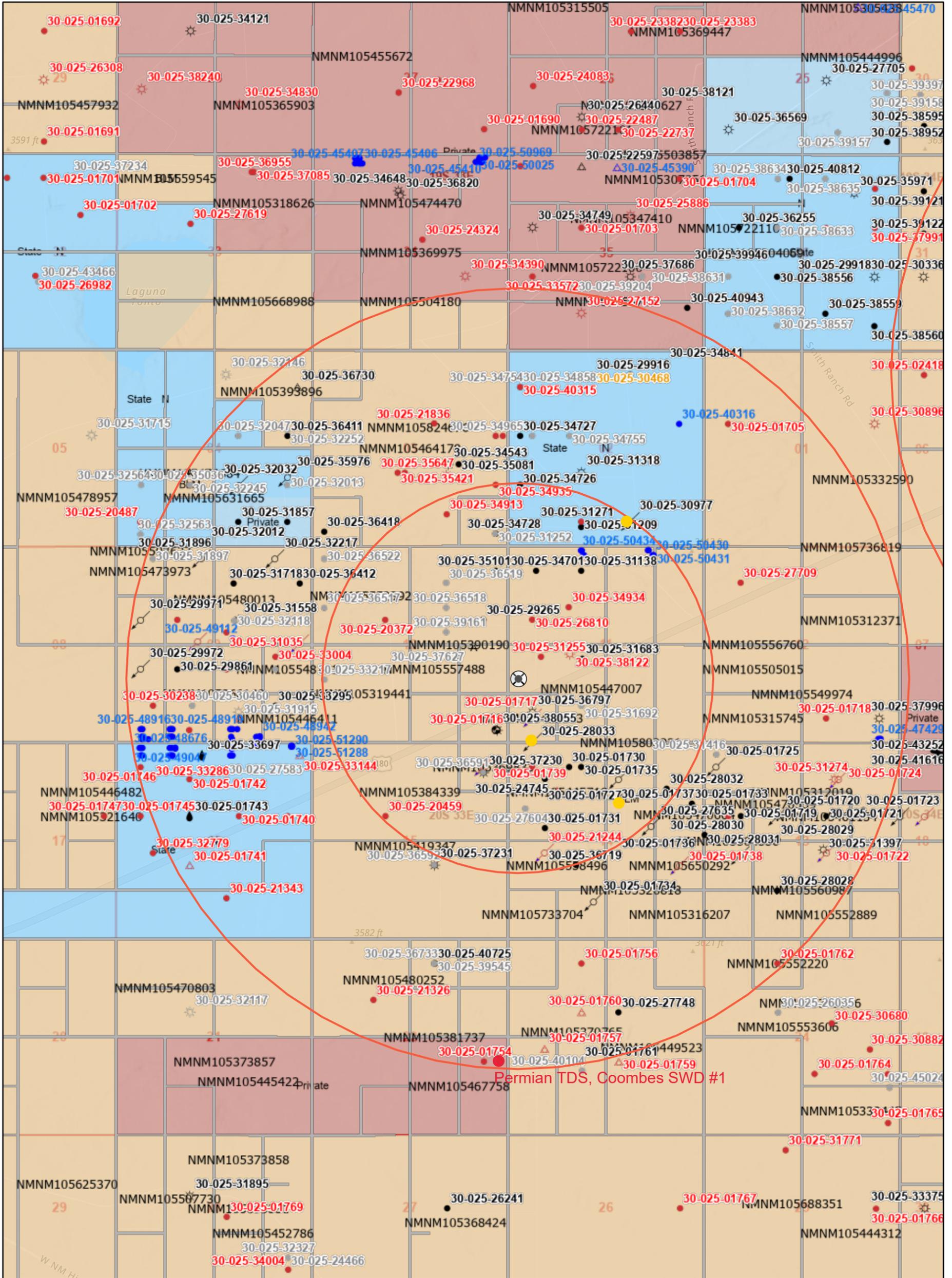
6/15/2023, 11:58:14 AM

- 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



U.S. BLM
 U.S. Department of Interior, Bureau of Land Management (BLM)
 Esri, NASA, NGA, USGS, FEMA
 BLM

V (b) Immediate Federal SWD #1, 1 & 2 Mi AOR, Wells



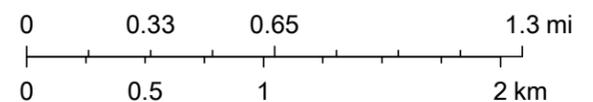
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Qty 3 active Yates injection wells in 1 mile AOR (designated by ●)

Qty 1 permitted Devonian injection well in 2 mile AOR (designated by ●)

1:36,112

- Override 1
- Override 1
- Wells - Large Scale
- Miscellaneous
- * Gas, Active
- * Gas, Cancelled
- * Gas, Plugged
- * Injection, Active
- Injection, Plugged
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- ▲ Salt Water Injection, Active
- ▲ Salt Water Injection, New
- Case
- Mineral Ownership
- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.



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

V (c)

Immediate 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
30-025-20372	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	10	T20S	R33E	F	F-10-205-33E 1980 FNL 1980 FWL	F-10-205-33E 1980 FNL 1980 FWL	YATES-SEVEN RIVERS	3554	3554
30-025-37627	SAMSON RESOURCES CO	MARSHALL 10 FEDERAL COM	#001	Gas	Vertical	Cancelled Apd	10	T20S	R33E	K	K-10-205-33E 1980 FSL 1980 FWL	K-10-205-33E 1980 FSL 1980 FWL	MORROW	14000	14000
30-025-20459	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	15	T20S	R33E	F	F-15-205-33E 1980 FNL 1980 FWL	F-15-205-33E 1980 FNL 1980 FWL	YATES-SEVEN RIVERS	3418	3418
30-025-34913	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	O	O-03-205-33E 855 FSL 1650 FEL	O-03-205-33E 855 FSL 1650 FEL	BONE SPRING	9280	9280
30-025-36518	SHACKELFORD OIL CO	TONTO FEDERAL	#005	Oil	Vertical	Cancelled Apd	10	T20S	R33E	G	G-10-205-33E 1650 FNL 1650 FEL	G-10-205-33E 1650 FNL 1650 FEL	DELAWARE	8300	8300
30-025-39161	Murchison Oil and Gas, LLC	TONTO FEDERAL	#008	Oil	Vertical	Cancelled Apd	10	T20S	R33E	G	G-10-205-33E 2310 FNL 1650 FEL	G-10-205-33E 2310 FNL 1650 FEL	DELAWARE	8250	8250
30-025-36519	SHACKELFORD OIL CO	TONTO FEDERAL	#006	Oil	Vertical	Cancelled Apd	10	T20S	R33E	B	B-10-205-33E 990 FNL 1650 FEL	B-10-205-33E 990 FNL 1650 FEL	DELAWARE	8300	8300
30-025-37230	COG OPERATING LLC	BANDIT 15 FEDERAL COM	#001	Gas	Vertical	Active	15	T20S	R33E	A	A-15-205-33E 810 FNL 660 FEL	A-15-205-33E 810 FNL 660 FEL	MORROW	14000	14000
30-025-29265	SHACKELFORD OIL CO	TONTO FEDERAL	#001	Oil	Vertical	Active	10	T20S	R33E	H	H-10-205-33E 1980 FNL 660 FEL	H-10-205-33E 1980 FNL 660 FEL	BONE SPRING	10706	10706
30-025-01739	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#121	Injection	Vertical	Plugged, Site Released	15	T20S	R33E	A	A-15-205-33E 660 FNL 660 FEL	A-15-205-33E 660 FNL 660 FEL	YATES-SEVEN RIVERS	3335	3335
30-025-36591	SAMSON RESOURCES CO	BANDIT 15 FEDERAL COM	#001	Oil	Vertical	Cancelled Apd	15	T20S	R33E	A	A-15-205-33E 810 FNL 660 FEL	A-15-205-33E 810 FNL 660 FEL	MORROW	14000	14000
30-025-35101	SHACKELFORD OIL CO	TONTO FEDERAL	#002	Oil	Vertical	Active	10	T20S	R33E	A	A-10-205-33E 660 FNL 330 FEL	A-10-205-33E 660 FNL 330 FEL	DELAWARE	8200	8200
30-025-34935	SHACKELFORD OIL CO	TONTO FEDERAL	#004	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	I	I-03-205-33E 1650 FSL 330 FEL	I-03-205-33E 1650 FSL 330 FEL	DELAWARE	9700	9700
30-025-34728	SHACKELFORD OIL CO	TONTO FEDERAL	#003	Oil	Vertical	Active	03	T20S	R33E	P	P-03-205-33E 330 FSL 330 FEL	P-03-205-33E 330 FSL 330 FEL	DELAWARE	9570	9570
30-025-31252	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Apd	03	T20S	R33E	P	P-03-205-33E 330 FSL 330 FEL	P-03-205-33E 330 FSL 330 FEL	BONE SPRING	9750	9750
30-025-38055	CIMAREX ENERGY CO. OF COLORADO	NEW SHERIFF 10 FEDERAL COM	#001	Gas	Directional	Active	10	T20S	R33E	P	P-10-205-33E 330 FSL 280 FEL	P-10-205-33E 705 FSL 707 FEL	MORROW	13940	13881
30-025-01716	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Miscellaneous	Vertical	Plugged, Site Released	10	T20S	R33E	P	P-10-205-33E 330 FSL 330 FEL	P-10-205-33E 0 FSL 330 FEL	YATES-SEVEN RIVERS	3410	3410
30-025-27604	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#006	Oil	Vertical	Cancelled Apd	14	T20S	R33E	E	E-14-205-33E 1785 FNL 460 FWL	E-14-205-33E 1785 FNL 460 FWL	YATES-SEVEN RIVERS	3350	3350
30-025-01728	ANADARKO PETROLEUM CORP	TEAS YATES UNIT	#001	Oil	Vertical	Plugged, Site Released	14	T20S	R33E	D	D-14-205-33E 660 FNL 660 FWL	D-14-205-33E 0 FNL 660 FWL	YATES-SEVEN RIVERS	3388	3388
30-025-34726	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#007	Oil	Vertical	Active	02	T20S	R33E	L	L-02-205-33E 1650 FSL 330 FWL	L-02-205-33E 1650 FSL 330 FWL	DELAWARE	9700	9700
30-025-28033	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#132	Injection	Vertical	Active	11	T20S	R33E	M	M-11-205-33E 10 FSL 660 FWL	M-11-205-33E 10 FSL 660 FWL	YATES-SEVEN RIVERS	3380	3380
30-025-36797	COG OPERATING LLC	GUNSLINGER 11 FEDERAL COM	#001	Gas	Vertical	Active	11	T20S	R33E	M	M-11-205-33E 810 FSL 660 FWL	M-11-205-33E 810 FSL 660 FWL	MORROW	13850	13850
30-025-01717	ANADARKO PETROLEUM CORP	TEAS YATES UNIT	#001	Injection	Vertical	Plugged, Site Released	11	T20S	R33E	M	M-11-205-33E 660 FSL 660 FWL	M-11-205-33E 0 FSL 660 FWL	YATES-SEVEN RIVERS	3496	3496
30-025-26810	COG OPERATING LLC	SMITH RANCH FEDERAL	#001	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	E	E-11-205-33E 1980 FNL 660 FWL	E-11-205-33E 1980 FNL 660 FWL	BONE SPRING	13650	13650
30-025-31351	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Cancelled Apd	11	T20S	R33E	D	D-11-205-33E 330 FNL 660 FWL	D-11-205-33E 330 FNL 660 FWL	BONE SPRING	9750	9750
30-025-34701	Earthstone Operating, LLC	ANACONDA 11 FEDERAL	#001	Oil	Vertical	Active	11	T20S	R33E	D	D-11-205-33E 660 FNL 760 FWL	D-11-205-33E 660 FNL 760 FWL	DELAWARE	9720	9720
30-025-31271	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#005	Oil	Vertical	Active	02	T20S	R33E	M	M-02-205-33E 660 FSL 810 FWL	M-02-205-33E 660 FSL 810 FWL	BONE SPRING	10340	10340
30-025-31255	MERIT ENERGY COMPANY, LLC	SMITH RANCH 11 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	L	L-11-205-33E 2310 FSL 900 FWL	L-11-205-33E 2310 FSL 900 FWL	BONE SPRING	9700	9700
30-025-21244	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#061	Injection	Vertical	Plugged, Site Released	14	T20S	R33E	L	L-14-205-33E 2310 FSL 990 FWL	L-14-205-33E 2310 FSL 990 FWL	YATES-SEVEN RIVERS	3428	3428
30-025-01731	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#054	Oil	Vertical	Active	14	T20S	R33E	E	E-14-205-33E 2310 FNL 990 FWL	E-14-205-33E 2310 FNL 990 FWL	YATES-SEVEN RIVERS	3460	3460
30-025-24745	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#055	Oil	Vertical	Active	14	T20S	R33E	D	D-14-205-33E 990 FNL 990 FWL	D-14-205-33E 990 FNL 990 FWL	YATES-SEVEN RIVERS	3375	3375
30-025-27313	ANADARKO PETROLEUM CORP	TEAS YATES UNIT	#001	Water	Vertical	Plugged, Site Released	14	T20S	R33E	F	F-14-205-33E 1330 FNL 1330 FWL	F-14-205-33E 1330 FNL 1330 FWL	YATES-SEVEN RIVERS	3830	3830
30-025-01729	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#053	Oil	Vertical	Active	14	T20S	R33E	F	F-14-205-33E 1980 FNL 1650 FWL	F-14-205-33E 1980 FNL 1650 FWL	YATES-SEVEN RIVERS	3392	3392
30-025-01730	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#052	Oil	Vertical	Active	14	T20S	R33E	C	C-14-205-33E 660 FNL 1650 FWL	C-14-205-33E 660 FNL 1650 FWL	YATES-SEVEN RIVERS	3392	3392
30-025-34934	NEARBURG PRODUCING CO	ANACONDA 11 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	F	F-11-205-33E 1650 FNL 1650 FWL	F-11-205-33E 1650 FNL 1650 FWL	BONE SPRING	10450	10450
30-025-31138	COG OPERATING LLC	SMITH RANCH FEDERAL	#002	Oil	Vertical	Active	11	T20S	R33E	C	C-11-205-33E 660 FNL 1980 FWL	C-11-205-33E 660 FNL 1980 FWL	BONE SPRING	9746	9746
30-025-01735	BXP Operating, LLC	MAHAFFEY ARC FEDERAL	#001	Oil	Vertical	Active	14	T20S	R33E	C	C-14-205-33E 660 FNL 1980 FWL	C-14-205-33E 660 FNL 1980 FWL	BONE SPRING	14115	14115
30-025-31692	DEVON ENERGY OPERATING COMPANY LP	SMITH RANCH 11 FEDERAL	#003	Oil	Vertical	Cancelled Apd	11	T20S	R33E	N	N-11-205-33E 990 FSL 1980 FWL	N-11-205-33E 990 FSL 1980 FWL	BONE SPRING	10350	10350
30-025-01732	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#071	Oil	Vertical	Active	14	T20S	R33E	K	K-14-205-33E 2310 FSL 1960 FWL	K-14-205-33E 2310 FSL 1960 FWL	YATES-SEVEN RIVERS	3324	3324
30-025-23897	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	02	T20S	R33E	N	N-02-205-33E 660 FSL 1980 FWL	K-14-205-33E 2310 FSL 1960 FWL	YATES-SEVEN RIVERS	3562	3562
30-025-36719	COG OPERATING LLC	MAVERICK 14 FEDERAL COM	#001	Oil	Vertical	Active	14	T20S	R33E	K	K-14-205-33E 1980 FSL 1830 FWL	K-14-205-33E 1980 FSL 1830 FWL	MORROW	13927	13927
30-025-31209	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#004	Oil	Vertical	Active	02	T20S	R33E	N	N-02-205-33E 510 FSL 1980 FWL	N-02-205-33E 510 FSL 1980 FWL	DELAWARE	10297	10297
30-025-31683	BXP Operating, LLC	SMITH RANCH 11 FEDERAL	#002	Oil	Vertical	Active	11	T20S	R33E	K	K-11-205-33E 2250 FSL 2014 FWL	K-11-205-33E 2250 FSL 2014 FWL	DELAWARE	9520	9520
30-025-38122	COG OPERATING LLC	GUNSLINGER 11 FEDERAL COM	#002	Gas	Directional	Plugged, Site Released	11	T20S	R33E	K	K-11-205-33E 2380 FSL 1675 FWL	J-11-205-33E 2010 FSL 3322 FWL	MORROW	14080	13913
30-025-01727	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#111	Injection	Vertical	Active	14	T20S	R33E	B	B-14-205-33E 990 FNL 2310 FEL	B-14-205-33E 990 FNL 2310 FEL	YATES-SEVEN RIVERS	3319	3319
30-025-01737	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#102	Oil	Vertical	Active	14	T20S	R33E	G	G-14-205-33E 1650 FNL 2310 FEL	G-14-205-33E 1650 FNL 2310 FEL	YATES-SEVEN RIVERS	3394	3394
30-025-30977	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#003	Injection	Vertical	Active	02	T20S	R33E	O	O-02-205-33E 660 FSL 1980 FEL	O-02-205-33E 660 FSL 1980 FEL	DELAWARE	13700	13700
30-025-28032	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#112	Oil	Vertical	Active	14	T20S	R33E	A	A-14-205-33E 1250 FNL 1000 FEL	A-14-205-33E 1250 FNL 1000 FEL	YATES-SEVEN RIVERS	3373	3373
30-025-48540	Earthstone Operating, LLC	ANACONDA 11 14 3BS FEDERAL COM	#007H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-205-33E 120 FNL 1500 FEL	P-14-205-33E 100 FSL 400 FEL	BONE SPRING	21140	11054
30-025-48539	Earthstone Operating, LLC	ANACONDA 11 14 3BS FEDERAL COM	#013H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-205-33E 120 FNL 1530 FEL	O-14-205-33E 100 FSL 1775 FEL	BONE SPRING	21183	11136
30-025-33217	TRILOGY OPERATING INC	FEDERAL 10	#001	Oil	Vertical	Cancelled Apd	10	T20S	R33E	L	L-10-205-33E 1700 FSL 330 FWL	L-10-205-33E 1700 FSL 330 FWL	YATES-SEVEN RIVERS	3500	3500
30-025-50430	Earthstone Operating, LLC	ANACONDA 11 14 1BS FEDERAL COM	#005H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-205-33E 250 FNL 1400 FEL	O-14-205-33E 101 FSL 1775 FEL	BONE SPRING	19484	9463
30-025-50431	Earthstone Operating, LLC	ANACONDA 11 14 1BS FEDERAL COM	#006H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-205-33E 100 FSL 400 FEL	P-14-205-33E 101 FSL 400 FEL	BONE SPRING	19638	9453
30-025-50432	Earthstone Operating, LLC	ANACONDA 11 14 2BS FEDERAL COM	#003H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-205-33E 250 FNL 2030 FWL	M-14-205-33E 100 FSL 400 FWL	BONE SPRING	20383	10340
30-025-50433	Earthstone Operating, LLC	ANACONDA 11 14 2BS FEDERAL COM	#004H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-205-33E 250 FNL 2060 FWL	C-11-205-33E 250 FNL 2060 FWL	BONE SPRING	20237	10350
30-025-50434	Earthstone Operating, LLC	ANACONDA 11 14 3BS FEDERAL COM	#001H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-205-33E 120 FNL 1970 FWL	M-14-205-33E 101 FSL 400 FWL	BONE SPRING	21224	11115
30-025-50435	Earthstone Operating, LLC	ANACONDA 11 14 3BS FEDERAL COM	#002H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-205-33E 120 FNL 2000 FWL	N-14-205-33E 100 FSL 2130 FWL	BONE SPRING	21053	11065

VII (4)

Permian Oilfield Partners, LLC.
 Immediate Federal SWD #1
 1705' FSL, 268' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.585113° N, Lon -103.641657° W
 GL 3576', RKB 3606'

Regional Source Water Analysis				
Well Name	MOBIL LEA STATE #003	COOTER 16 STATE COM #006H	PLAYA 2 STATE #002H	ZINNIA BKC 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.
 Immediate Federal SWD #1
 1705' FSL, 268' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.585113° N, Lon -103.641657° W
 GL 3576', RKB 3606'

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
Immediate Federal SWD #1
1705' FSL & 268' FWL
Sec 11, T20S, R33E
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 M2.1 event recorded 4.3 mi SSE of the proposed well in November 2020. 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 5.9 mi (9.5 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 2.0 miles away from the nearest active or permitted Devonian disposal well (Permian TDS, Coombes SWD #1, SWD-1996). There is another active Devonian disposal well 4.7 miles to the ESE, the Fasken Quail 16 State SWD #9, SWD-1537. Both 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.

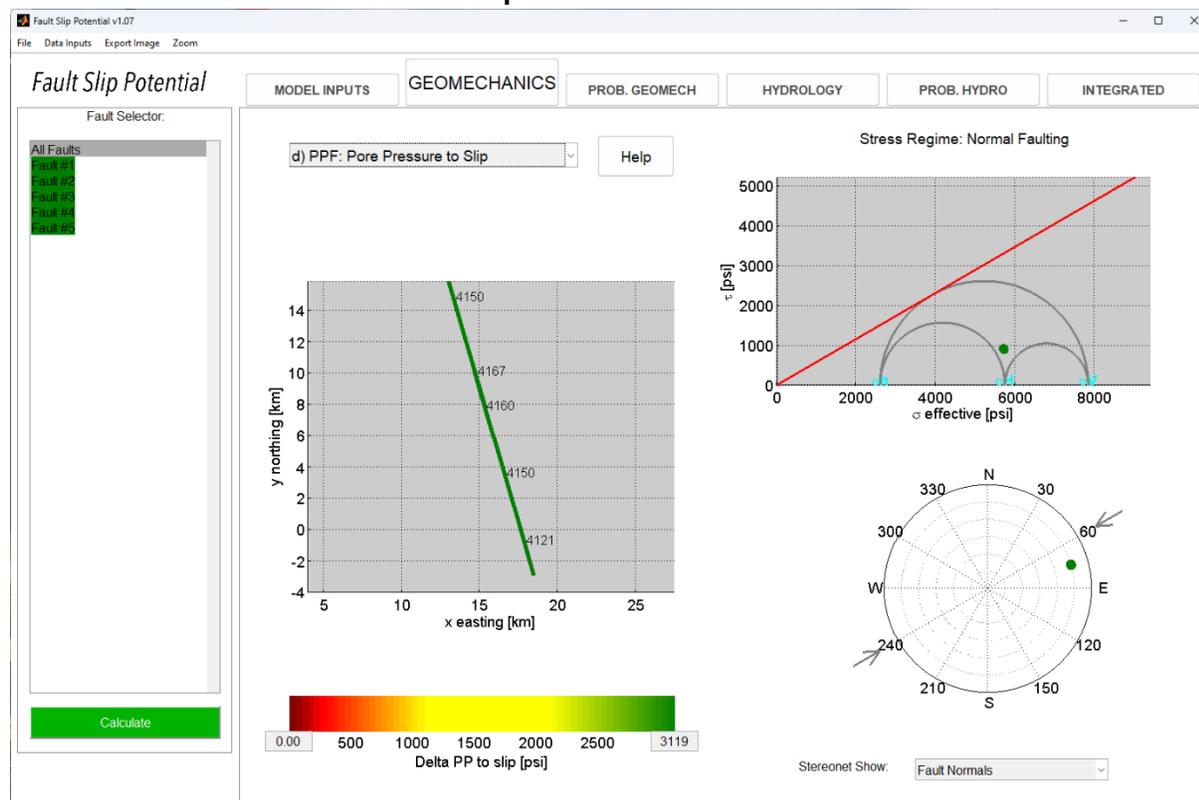
Input assumptions:

Immediate Fed SWD rate (BBL/day)	50000
Fasken Quail 16 SWD #9 rate (BBL/day)	1800
Permian TDS Coombes SWD rate (BBL/day)	30000
Interval height (ft)	1147
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14782
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/m ³)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

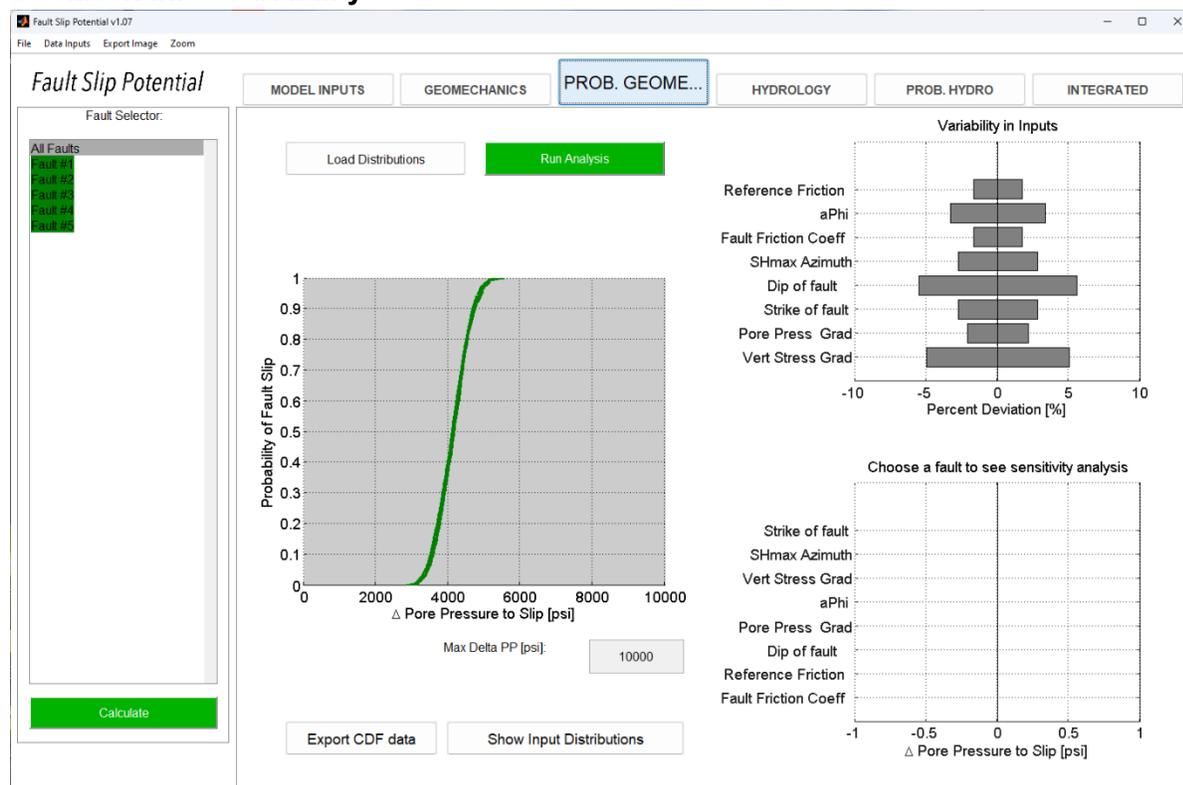
Note:

In screenshots below, injection well #1 is the proposed Immediate Federal SWD #1. Injection well #2 is the active Fasken Quail 16 State SWD #9. Injection well #3 is the permitted Permian TDS Coombes SWD #1.

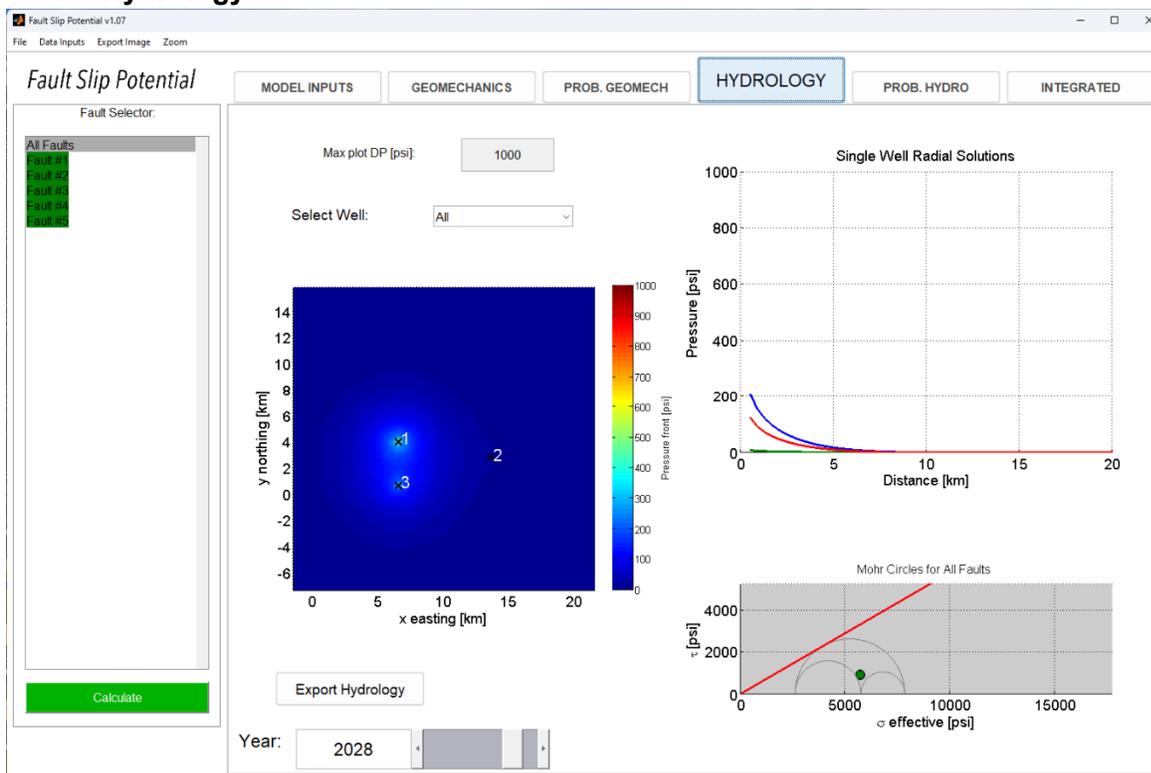
Geomechanics Pore Pressure to Slip



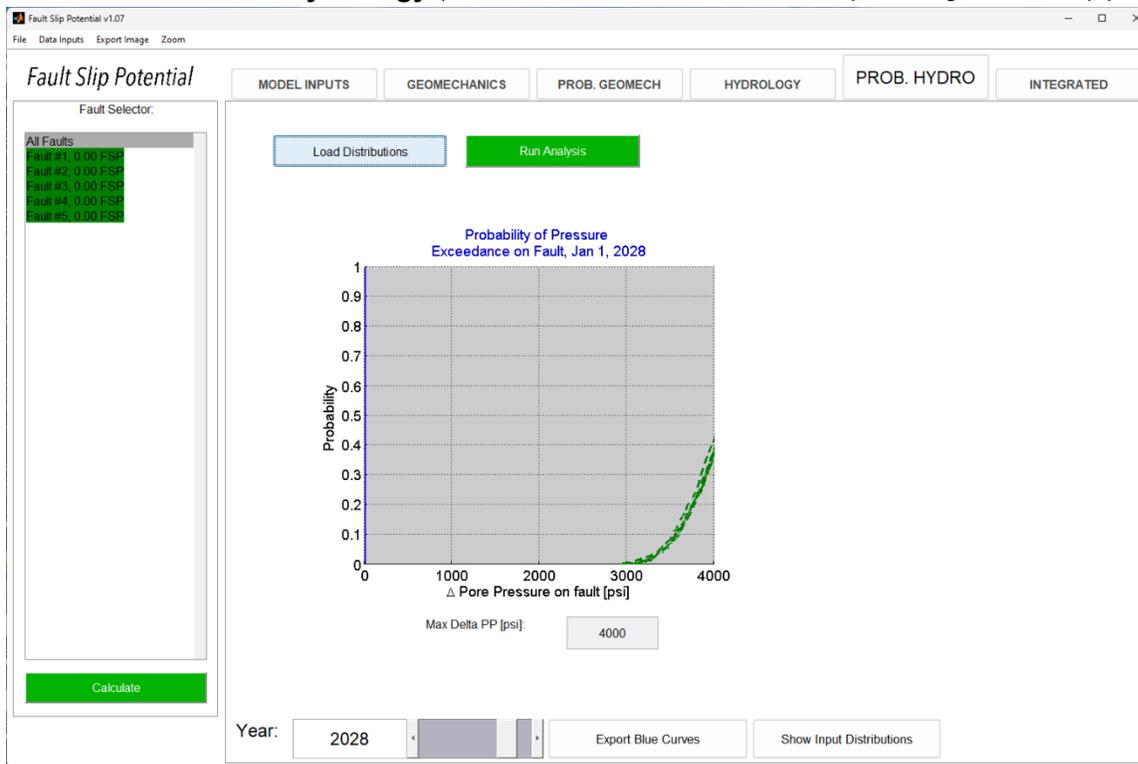
GeoMechanics Variability



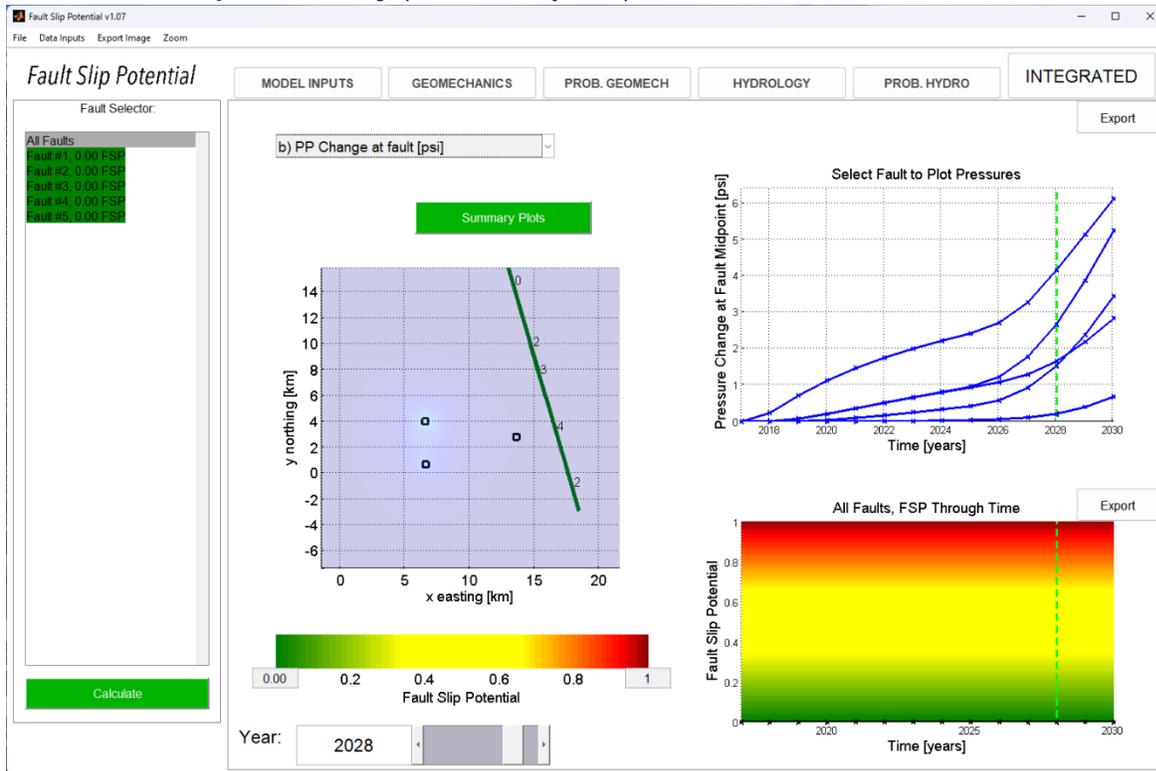
Year 5 Hydrology



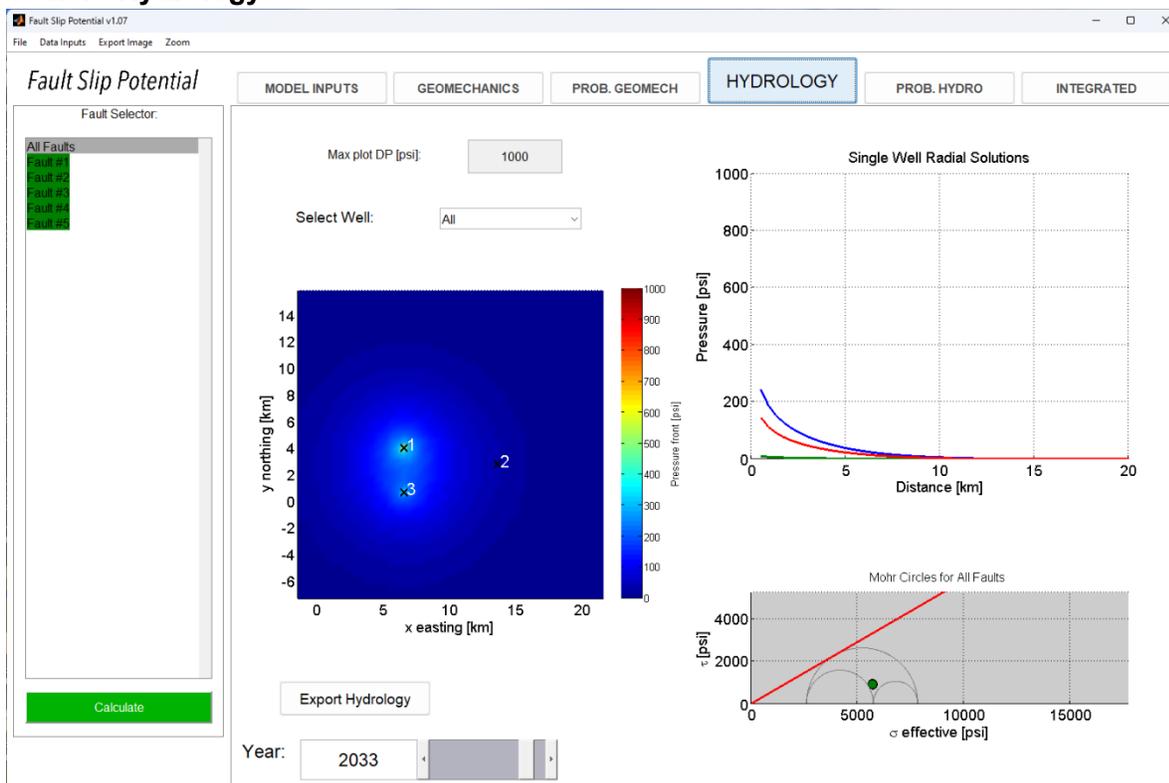
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



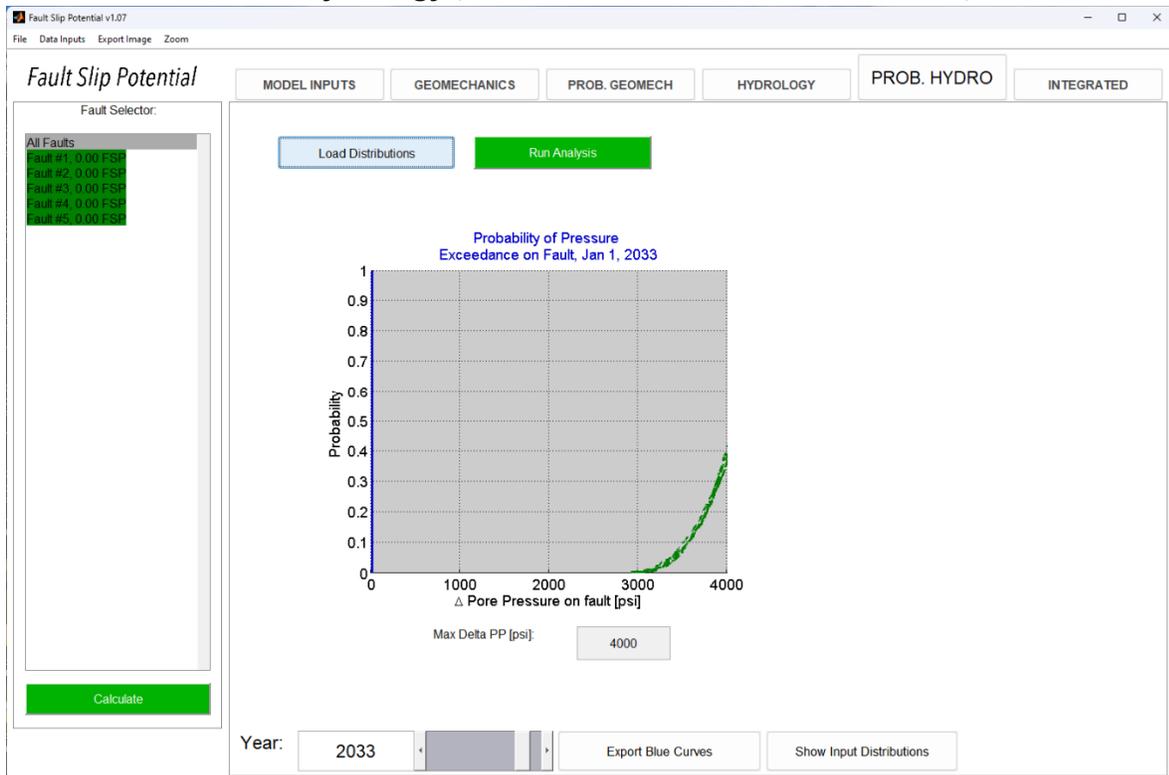
Year 5 Fault Slip Probability (0% after 5 years)



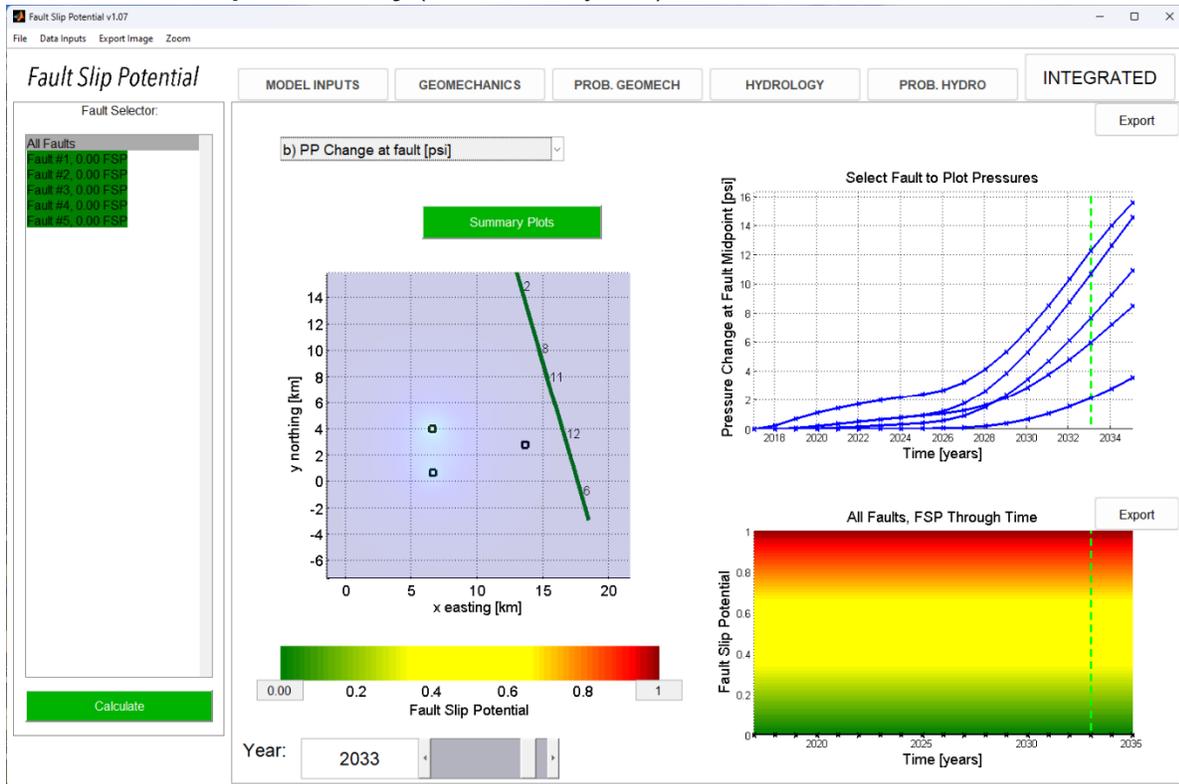
Year 10 Hydrology



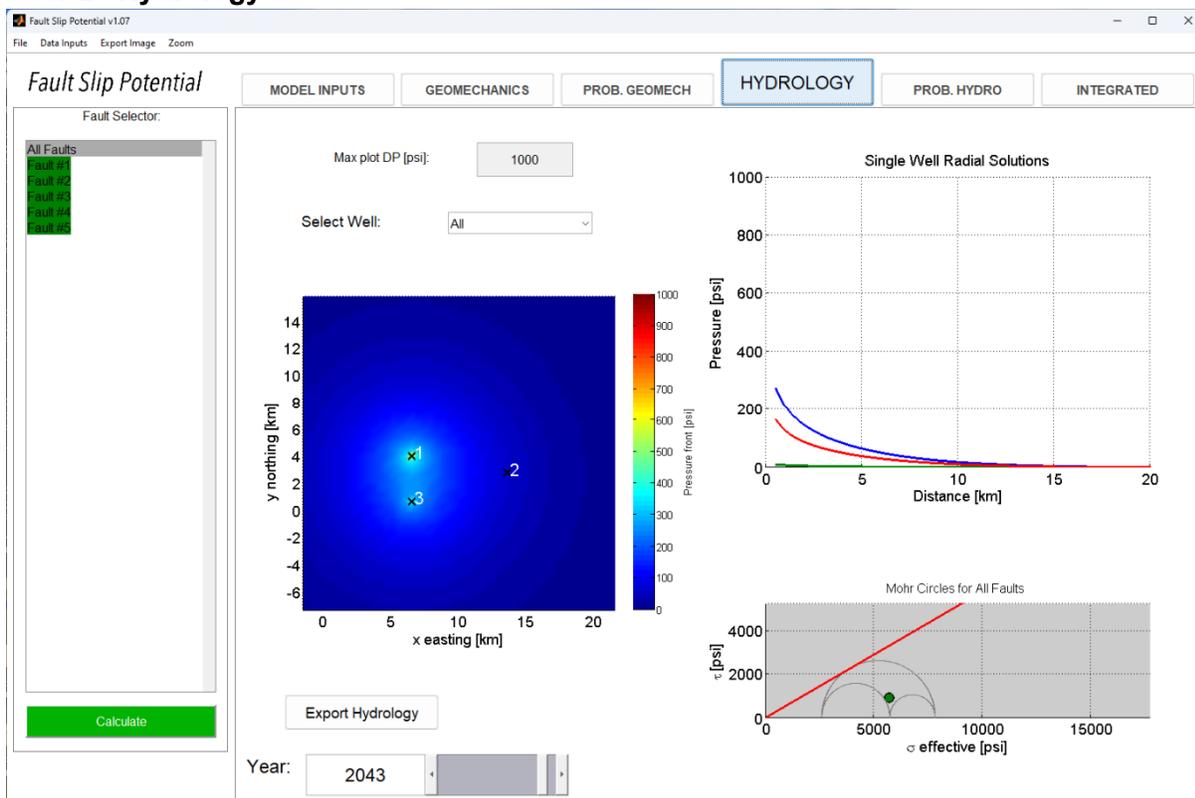
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



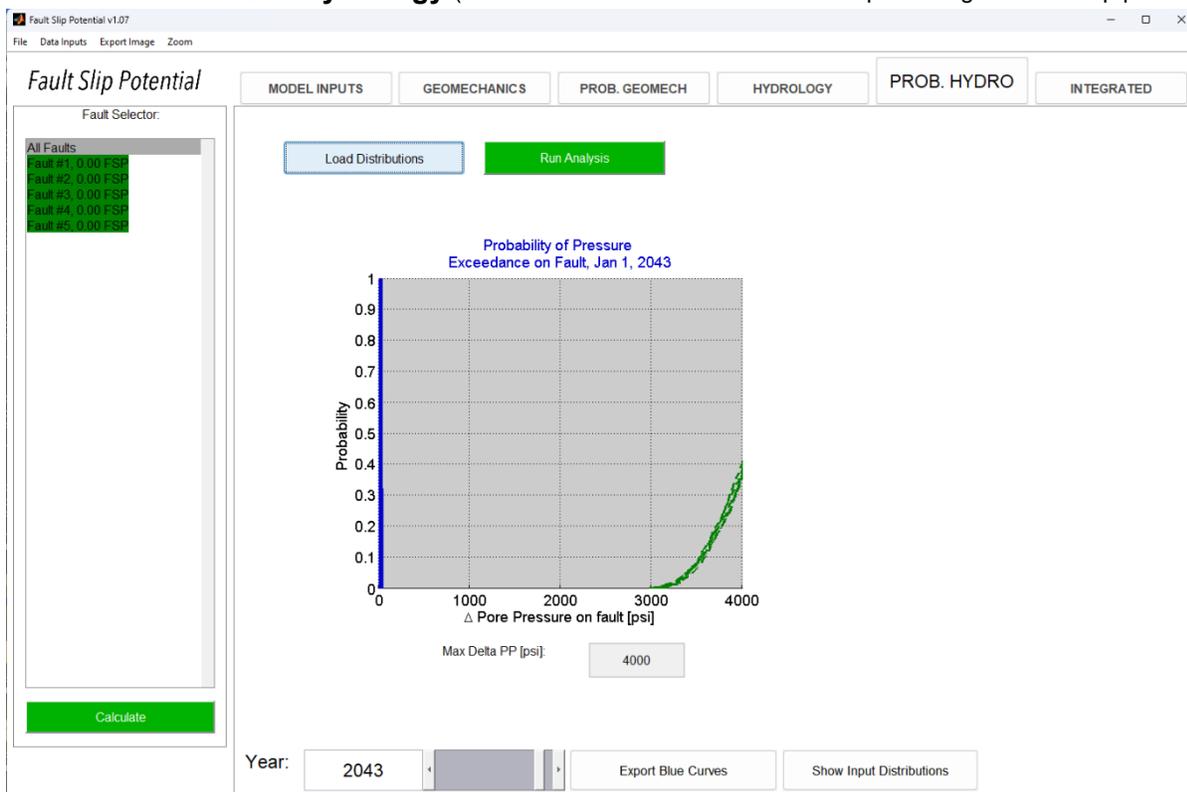
Year 10 Fault Slip Probability (0% after 10 years)



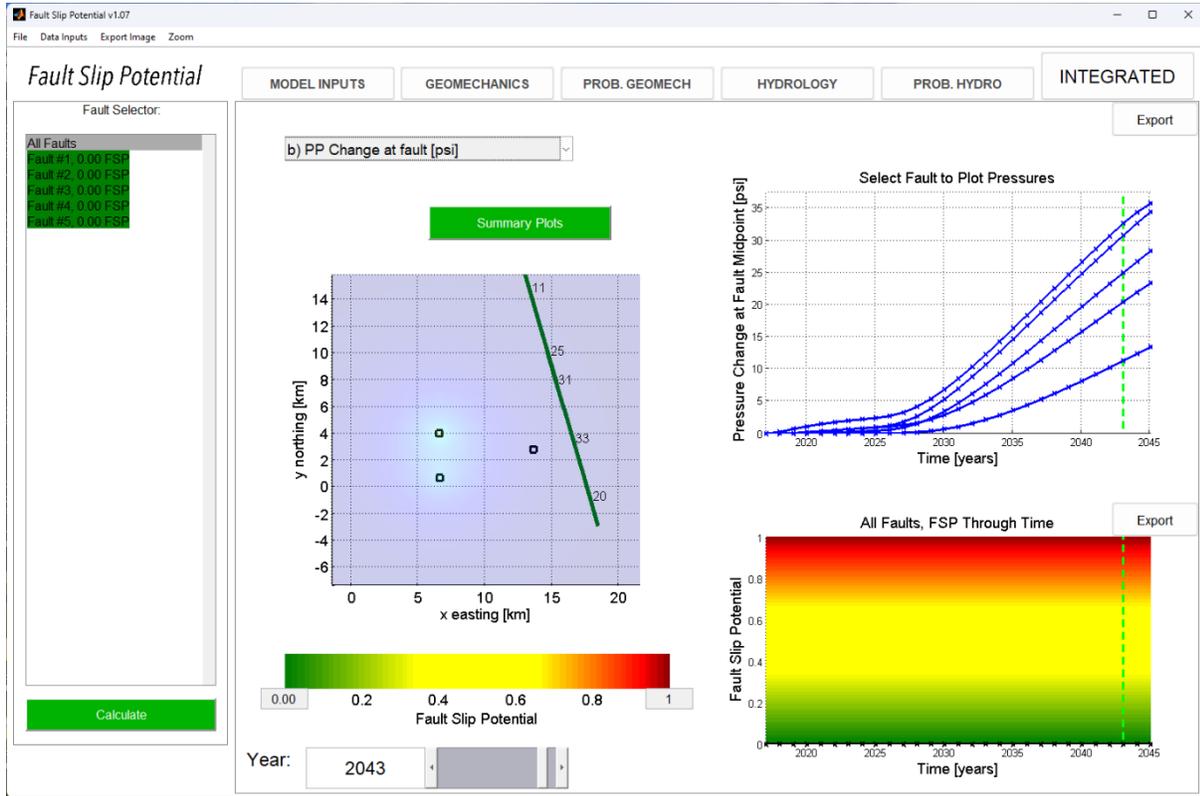
Year 20 Hydrology



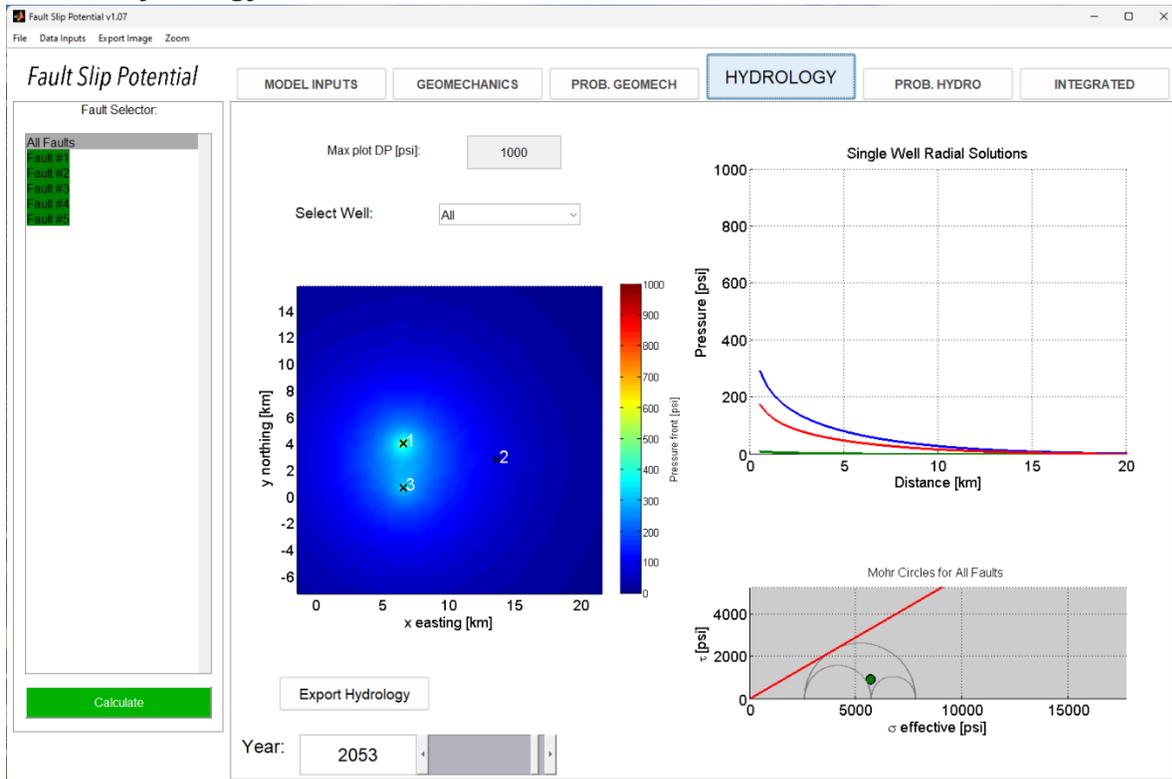
Year 20 Probabilistic Hydrology (note no crossover between blue delta-pressure. & green fault slip press.)



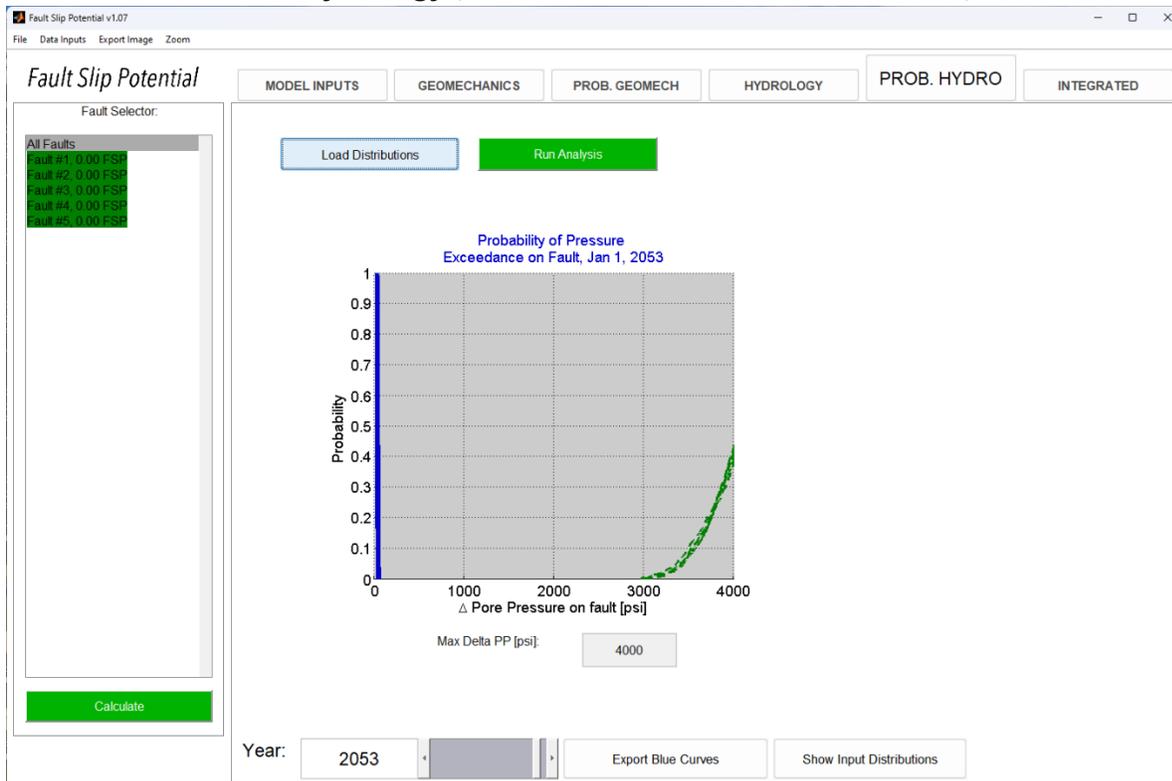
Year 20 Fault Slip Probability (0% after 20 years)



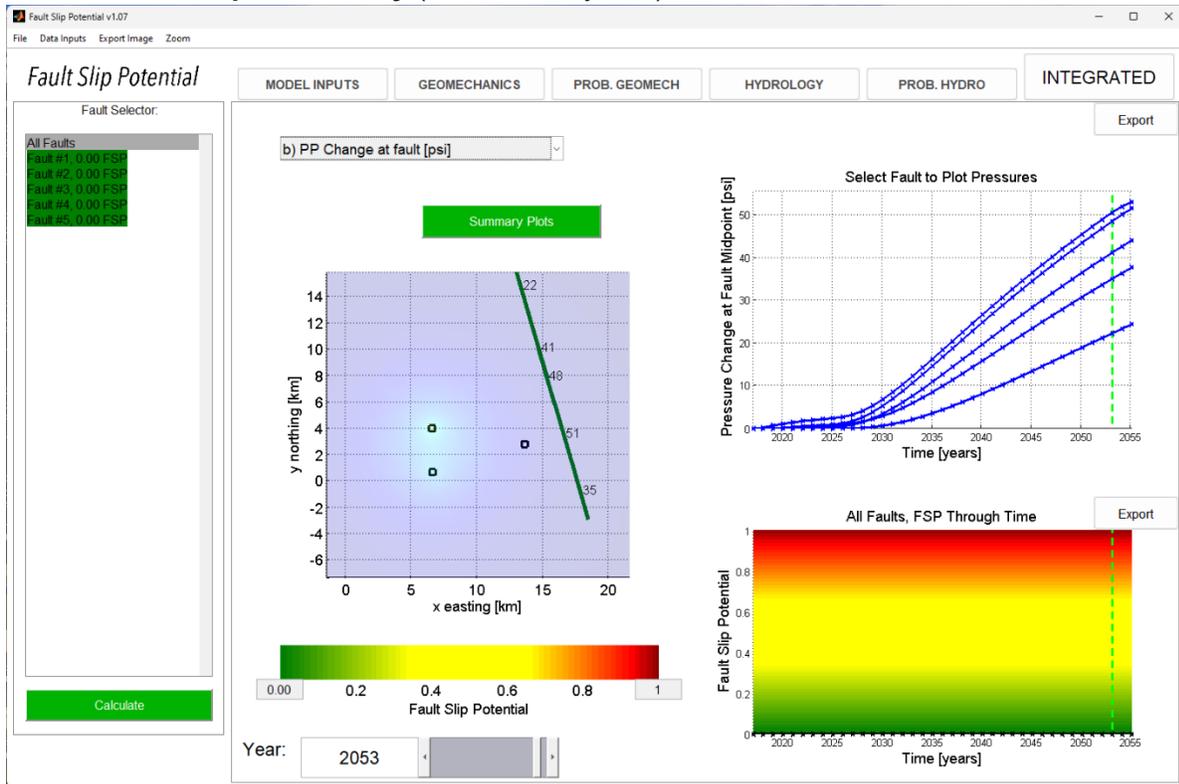
Year 30 Hydrology



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



Year 30 Fault Slip Probability (0% after 30 years)



gfisher@popmidstream.com

(817) 606-7630



Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject
Permian Oilfield Partners, LLC
Immediate Federal SWD #1
1705' FSL & 268' FWL
Sec 11, T20S, R33E
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".

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
CP 00317	CP	LE		3	4	3	05	20S	33E	623054	3607235*	680	325	355
CP 00653 POD1	CP	LE			4	4	04	20S	33E	625573	3607367*	60		
CP 00748 POD1	CP	LE				2	01	20S	33E	630197	3608428*			
CP 00798 POD1	CP	LE		2	1	1	24	20S	33E	629348	3603892*	850		
CP 01090 POD1	CP	LE			1	2	31	20S	33E	586045	3608526			
CP 01865 POD1	CP	LE		4	3	2	02	20S	33E	628390	3608155	105	0	105
CP 01865 POD2	CP	LE		3	1	3	02	20S	33E	627454	3607733	105	0	105

Average Depth to Water: **108 feet**
 Minimum Depth: **0 feet**
 Maximum Depth: **325 feet**

Record Count: 7

PLSS Search:

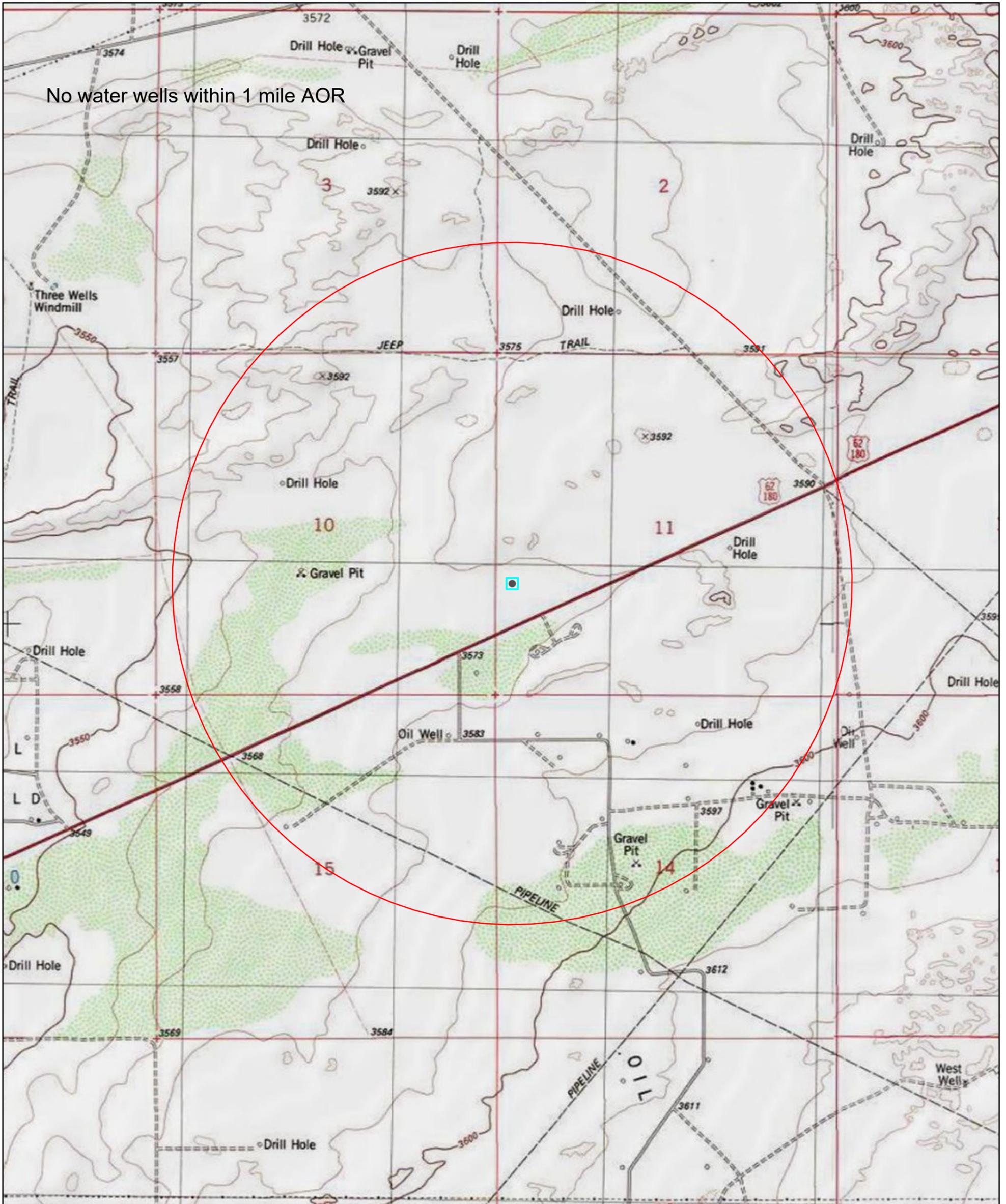
Township: 20S

Range: 33E

*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.

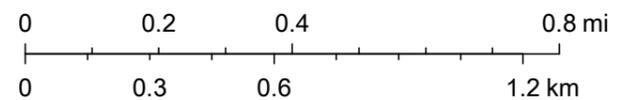
XI. Water Wells Within 1 Mile - Immediate Federal SWD #1



5/23/2023, 6:47:38 PM

 SiteBoundaries

1:20,214



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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 241610

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 241610
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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