

AE Order Number Banner

Application Number: pEG2520253659

Initial Application Part I

SWD-2662

Permian Oilfield Partners, LLC [328259]

Received: 7/16/2025

Revised March 23, 2017

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: Elsie State SWD #1 **API:** 30-015-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

07-02-2025

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: **07-01-2025**
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.

XIII. 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-Silurian: 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, and Morrow formations all above the top of the Devonian at 13,565’.

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 2,720 psi.
4. Disposal sources will be produced waters from surrounding wells in the Delaware, 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:

1. 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.

Permeabilities in the Devonian do not necessarily correlate to high porosity. It is expected that the Devonian will be fractured, and the high porosity (10%) intervals can have similar permeabilities to the low porosity (2-3%) intervals. A conservative average permeability of 20 mD is assumed, with an average estimated porosity of 5%, based on log data from similar wells in the region.

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	<u>TOP</u> KB TVD (ft)	<u>BOTTOM</u> KB TVD (ft)	<u>THICKNESS</u> (ft)
Rustler	478	638	160
Salt	638	2,100	1,462
Delaware	2,359	5,861	3,502
Bone Spring	5,861	9,114	3,253
Wolfcamp	9,114	11,293	2,179
Strawn	11,293	11,543	250
Atoka	11,543	12,097	554
Morrow	12,097	13,105	1,008
Mississippi Lime	13,105	13,455	350
Woodford	13,455	13,565	110
Devonian	13,565	14,194	629
Fusselman (Silurian)	14,194	14,613	419
Montoya (U. Ordovician)	14,613	14,913	300
Simpson (M. Ordovician)	14,913	15,113	200

2. Regional shallow fresh water in the Quaternary is known to exist at depths less than 170'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 13,395'. This proposed well is approximately 8.5 miles SE of the nearest edge of the Capitan Reef, and as such is not expected to penetrate the Capitan Reef USDW. 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 active fresh water well within the proposed well's one-mile area of review. There are two fresh water well permits in the 1-mile AOR (C-01452 & C-02942). See attached 1-mile AOR water well map for reference. Documentation for C-01452 shows that this well was previously drilled but was not located and appears to have been plugged. Documentation for C-02942 shows it to be a permit only but the POD was located and appears to have been drilled and is currently inactive with no access for sampling.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Elsie State SWD #1
1240' FNL, 240' FEL
Sec. 27, T24S, R27E, Eddy Co. NM
Lat 32.1918886° N, Lon 104.1706583° W
GL 3214', RKB 3244'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# J-55 BTC Casing
Depth Top: Surface
Depth Btm: 503'
Cement: 308 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 61# J-55 BTC Casing
Depth Top: Surface
Depth Btm: 2384'
Cement: 907 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# HCP-110 BTC Casing
Depth Top: Surface
Depth Btm: 9164' ECP/DV Tool: 2484'
Cement: 1423 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: 8964'
Depth Btm: 13600'
Cement: 269 sks - Class H + Additives
Cement Top: 8964' - (Volumetric) Verified with CBL

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 14588'
Inj. Interval: 13600' - 14588' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 13555' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 8964'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 13565' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
Packer Fluid: FW + Additives

IIIA-2.

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
 Elsie State SWD #1
 1240' FNL, 240' FEL
 Sec. 27, T24S, R27E, Eddy Co. NM
 Lat 32.1918886° N, Lon 104.1706583° W
 GL 3214', RKB 3244'

Surface - (Conventional)

Hole Size: 26"
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 Depth Top: Surface
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 Cement Top: Surface - (Circulate)

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 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCP-110 BTC Casing
 Depth Top: Surface
 Depth Btm: 9164'
 Cement: 1423 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 2484'

Intermediate #3 - (Liner)

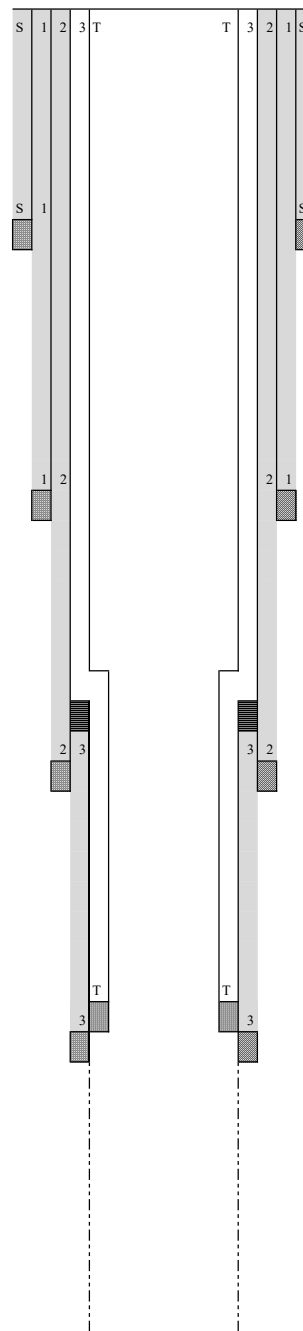
Hole Size: 8.75"
 Casing: 7.625" - 39# HCL-80 FJ Casing
 Depth Top: 8964'
 Depth Btm: 13600'
 Cement: 269 sks - Class H + Additives
 Cement Top: 8964' - (Volumetric) Verified with CBL

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
 Depth: 14588'
 Inj. Interval: 13600' - 14588' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 13555'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 8964'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 13565'
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: FW + Additives



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 97869	Pool Name SWD; Devonian-Silurian
Property Code	Property Name ELSIE STATE SWD	Well Number 1
OGRID No. 328259	Operator Name PERMIAN OILFIELD PARTNERS, LLC	Ground Level Elevation 3214'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL A	Section 27	Township 24S	Range 27E	Lot	Ft. from N/S 1240 FNL	Ft. from E/W 240 FEL	Latitude 32.1918886°N	Longitude 104.1706583°W	County EDDY
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Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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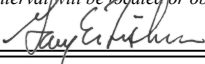

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical	Ground Floor Elevation:
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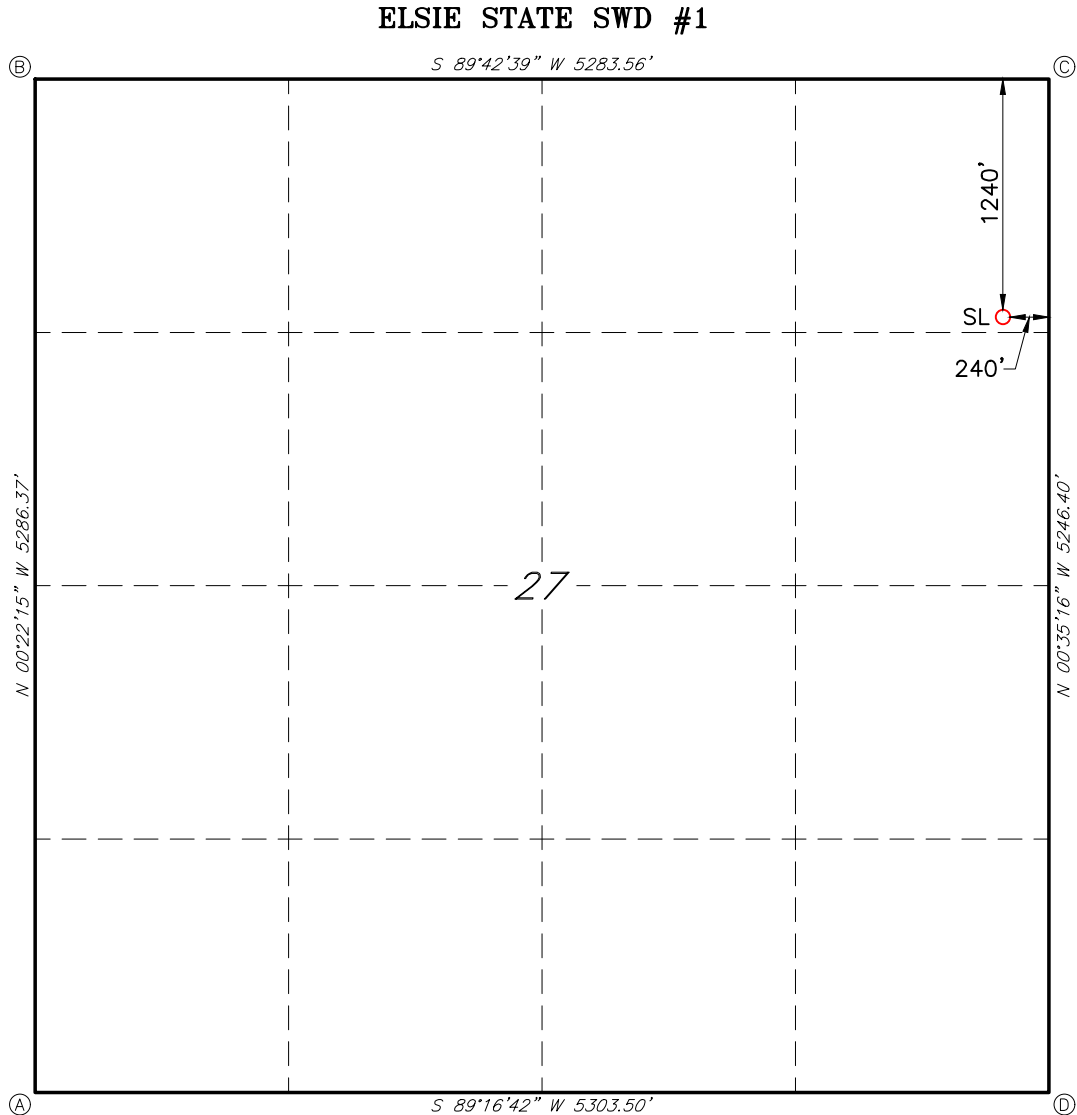
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  6/30/2025		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision and that the same is true and correct to the best of my belief.</i> 	
Signature _____ Date _____		Signature and Seal of Professional Surveyor _____	
Printed Name Gary Fisher		Certificate Number 26382	
Email Address gfisher@popmidstream.com		Date of Survey 05/22/2025	

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



GEODETTIC DATA
NAD 83 GRID — NM EAST

SURFACE LOCATION (SL)
1240' FNL & 240' FEL SEC.27
N: 433581.6 — E: 591659.5

LAT: 32.1918886° N
LONG: 104.1706583° W

CORNER DATA
NAD 83 GRID — NM EAST

A: FOUND NAIL/PILE OF STONES
N: 429510.3 — E: 586638.5

B: FOUND 1/2" REBAR
N: 434795.4 — E: 586604.3

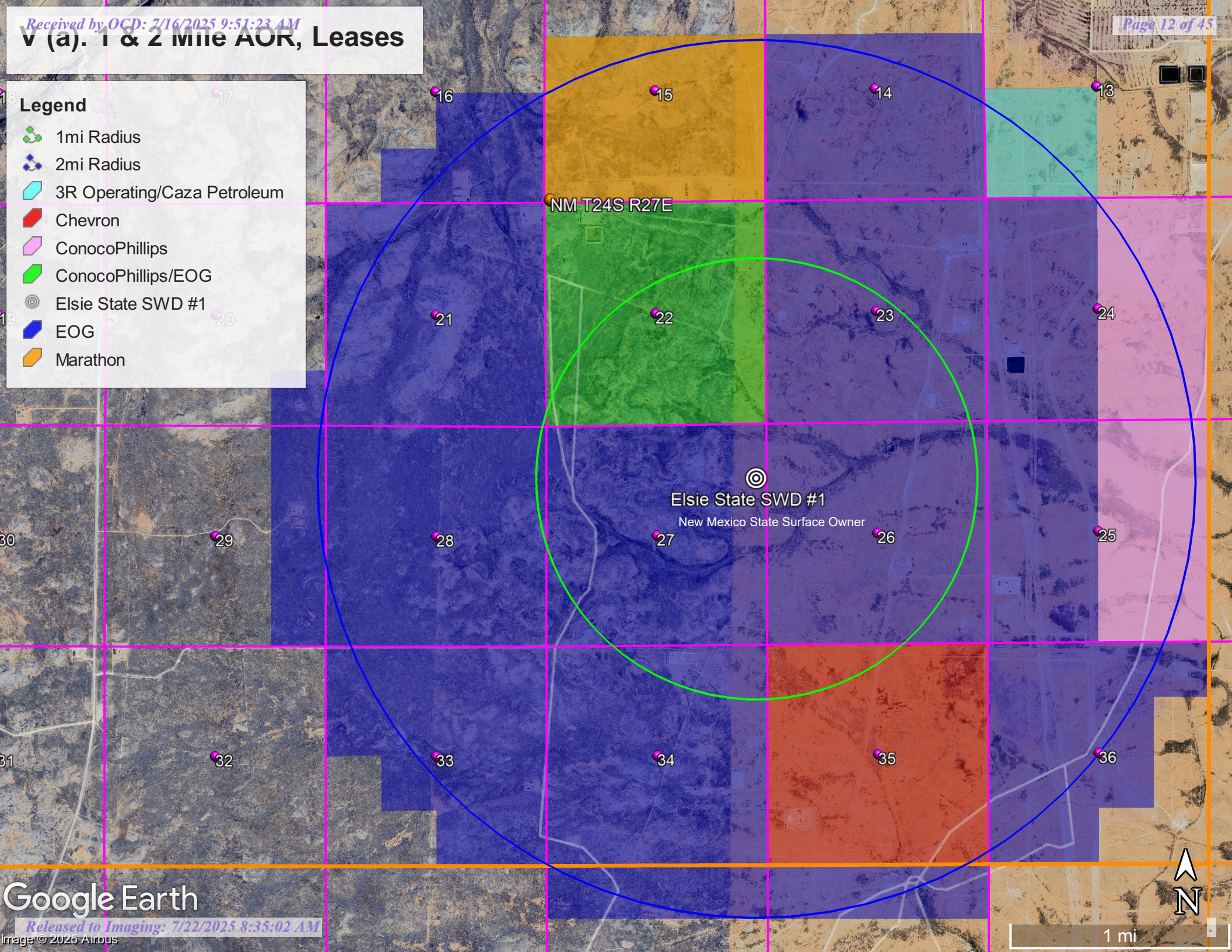
C: FOUND 1/2" REBAR/
PILE OF STONES
N: 434822.0 — E: 591886.6

D: CALCULATED CORNER
N: 429577.1 — E: 591940.4

V (a). 1 & 2 Mile AOR, Leases

Legend

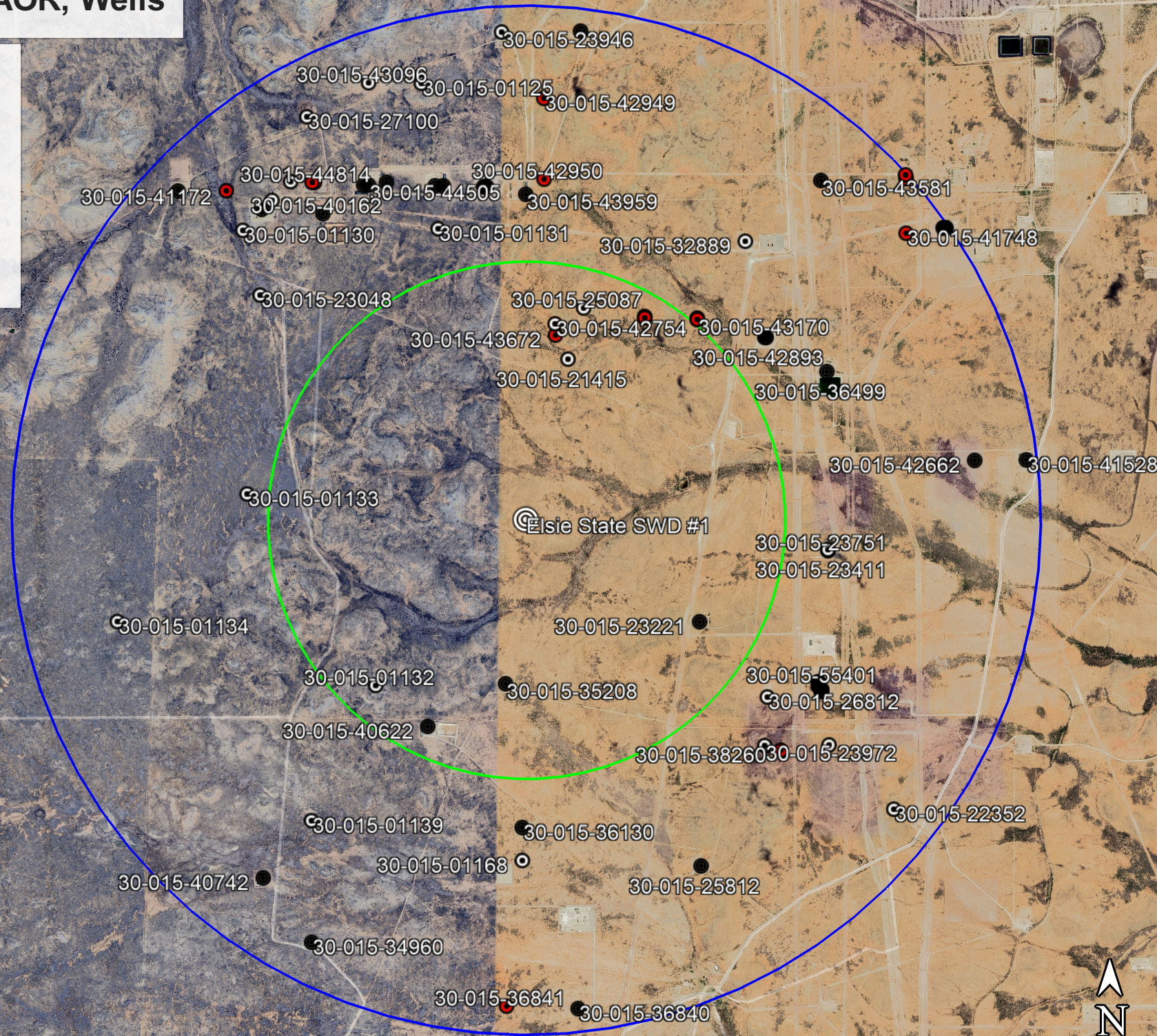
- 1mi Radius
- 2mi Radius
- 3R Operating/Caza Petroleum
- Chevron
- ConocoPhillips
- ConocoPhillips/EOG
- Elsie State SWD #1
- EOG
- Marathon



V (b). 1 & 2 Mile AOR, Wells

Legend

- 1mi Radius
- 2mi Radius
- Active Oil and Gas Wells
- Cancelled Wells
- Elsie State SWD #1
- Plugged Wells



VI.

Elsie State SWD #1 - Wells Within 1 Mile Area of Review									
API	Operator Name	Well Name	Well Type	Well Status	PLSS Location	Direction	MD	TVD	Formation
30-015-01132	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	N-27-24S-27E	V	12,655	12,655	BONE SPRING
30-015-40622	EOG RESOURCES INC	MUNNYNTHABANK STATE #002H	Oil	Active	B-34-24S-27E	H	12,113	7,734	BONE SPRING
30-015-35208	EOG RESOURCES INC	BEHIKE BKE STATE COM #001	Gas	Active	P-27-24S-27E	V	12,950	12,335	MORROW
30-015-43672	EOG RESOURCES INC	HUMIDOR BML STATE COM #001H	Oil	Cancelled	L-23-24S-27E	H	16,328	9,070	BONE SPRING
30-015-42754	EOG Y RESOURCES, INC.	HUMIDOR BMO STATE COM #002	Oil	Plugged (site released)	E-23-24S-27E	V	155	155	BONE SPRING
30-015-21415	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	L-23-24S-27E	V	2,023	2,023	CASTILE
30-015-25087	HEC PETROLEUM, INC	TARGET 23 STATE #001	Gas	Plugged (site released)	E-23-24S-27E	V	12,700	12,700	ATOKA
30-015-43163	EOG Y RESOURCES, INC.	HUMIDOR BMO STATE COM #001H	Oil	Cancelled	F-23-24S-27E	N/A	0	0	BONE SPRING
30-015-43164	EOG Y RESOURCES, INC.	HUMIDOR BML STATE COM #003H	Oil	Cancelled	F-23-24S-27E	N/A	0	0	BONE SPRING
30-015-23221	EOG RESOURCES INC	HUMIDOR BML STATE COM #002	Gas	Active	J-26-24S-27E	V	13,090	13,090	MORROW

Permian Oilfield Partners, LLC.
Elsie State SWD #1
1240' FNL, 240' FEL
Sec. 27, T24S, R27E, Eddy Co. NM
Lat 32.1918886° N, Lon 104.1706583° W
GL 3214', RKB 3244'

Regional Source Water Analysis			
Well Name	HOPI FEDERAL #001	DOC HOLLIDAY 32 STATE COM #001	HABANERO 17 FEDERAL COM #001H
API	3001529367	30-015-41145	30-015-36108
Latitude	32.1610489	32.1804123	32.2218475
Longitude	-104.0430069	-104.220192	-104.2062683
Sec	1	32	17
Township	25S	24S	24S
Range	28E	27E	27E
Unit	F	D	A
Ftg NS	1980N	150N	990N
Ftg EW	1980W	330W	660E
County	Eddy	Eddy	Eddy
State	NM	NM	NM
Field			
Formation	Delaware	2nd Bone Spring Sand	Wolfcamp
Sample Source	Unknown	Unknown	Unknown
pH	6.2	6.7	6.5
TDS_mgL	301,207	193,316	108,205
Sodium_mgL	109,024	59,944	35,110
Calcium_mgL	25,348	8,287	4,480
Iron_mgL	34	63	28
Magnesium_mgL	2,749	1,065	627
Manganese_mgL		1	0.6
Chloride_mgL	221,998	120,600	65,927
Bicarbonate_mgL	74	170	146
Sulfate_mgL	84	17	0
CO2_mgL		350	300

Permian Oilfield Partners, LLC.
Elsie State SWD #1
1240' FNL, 240' FEL
Sec. 27, T24S, R27E, Eddy Co. NM
Lat 32.1918886° N, Lon 104.1706583° W
GL 3214', RKB 3244'

Devonian Injection Zone Water Analysis		
Well Name	WHITE CITY PENN GAS COM UNIT 1 #001	JURNEGAN POINT #001
API	30-015-00408	30-015-10280
Latitude	32.1937523	32.2405243
Longitude	-104.3088455	-104.423912
Sec	29	5
Township	24S	24S
Range	26E	25E
Unit	A	M
Ftg NS	660N	660S
Ftg EW	660E	660W
County	Eddy	Eddy
State	NM	NM
Field		
Formation	Devonian	Devonian
Sample Source	Drill Stem Test	Drill Stem Test
pH	7	7
TDS _mgL	19,065	229,706
Chloride _mgL	10,120	136,964
Bicarbonate _mgL	653	198
Sulfate _mgL	1,336	2,511
Calcium _mgL	1,002	
Magnesium _mgL	132	



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
smallest to
largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
C 01452		C	ED				22	24S	27E	577435.0	3563175.0 *		1381	95	70	25
C 01721		C	ED			NW	25	24S	27E	580271.0	3562033.0 *		2097	170		
C 04147 POD1		CUB	ED	SE	NW	SW	24	24S	27E	580100.9	3562969.8		2154	35		
C 03264 POD1		CUB	ED	NE	NW	NE	02	25S	27E	579391.0	3559099.0 *		3152			
C 03145		C	ED	SW	NW	SE	13	24S	27E	580749.0	3564579.0 *		3640	103	40	63
C 04847 POD1		CUB	ED	SE	NW	SE	36	24S	27E	580978.9	3559647.0		3666	80		
C 00342	C	CUB	ED		SE	NW	13	24S	27E	580432.0	3565080.0 *		3813	2565	*Oil Well FW at 130'	
C 01943		C	ED			NW	13	24S	27E	580221.0	3565275.0 *		3856	30	25	5
C 00347		CUB	ED		NW	NW	13	24S	27E	580010.0	3565479.0 *		3927	60	30	30
C 03147		C	ED	SW	SW	SW	12	24S	27E	579884.7	3565715.5		4084	140		
C 03260 POD1		C	ED	SW	SW	SW	12	24S	27E	579994.7	3565935.0		4329	80	56	24
C 01841		C	ED			NW	29	24S	27E	573806.0	3561953.0 *		4367	150		
C 03260 POD2	O	C	ED	NW	SW	SW	12	24S	27E	580100.0	3565984.0		4419	80	56	24
C 03037		C	ED	SE	SW	SE	12	24S	27E	580930.0	3565795.0 *		4684	116	25	91
C 02976		C	ED	SE	NE	SW	12	24S	27E	580519.0	3566195.0 *		4800	57	27	30

Average Depth to Water: 41 feet

Minimum Depth: 25 feet

Maximum Depth: 70 feet

Record Count: 15

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 578173.360

Northing: 3562006.849

Radius: 4828

* 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. Elsie State SWD #1 POD Location Map

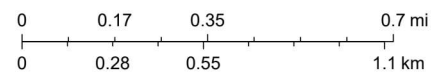


7/2/2025, 10:58:10 AM

GIS WATERS PODs

- Active
- Pending
-
- OSE District Boundary

1:18,056




Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
	C 01452				22	24S	27E	577435.0	3563175.0 *	

* UTM location was derived from PLSS - see Help


Driller License:	30	Driller Company:	BARRON, EMMETT
Driller Name:	BARRON, EMMETT		
Drill Start Date:	1971-07-21	Drill Finish Date:	1971-07-23
Log File Date:	1971-08-02	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	7.00	Depth Well:	95
		Depth Water:	70

Water Bearing Stratifications:

Top	Bottom	Description
60	70	Sandstone/Gravel/Conglomerate

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.


Water Right Summary


[get image list](#)

WR File Number: C 02942		Subbasin: C		Cross Reference:	
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE					
Primary Status: PMT Permit					
Total Acres:		Subfile:		Header:	
Total Diversion: 0.000		Cause/Case:			
Owner: SAMSON		Owner Class:		Owner	
				w	
				n	
				e	
				r	
Contact: CORKY GLENN					

Documents on File

(acre-feet per

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Co
 get images	466858	72121	2002-12-31	EXP	EXP	C 02942	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02942			SW	SE	SW	23	24S	27E	578748.0	3562516.0 *		

* 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.



Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject
Permian Oilfield Partners, LLC
Elsie State SWD #1
1240' FNL & 240' FEL
Sec 27, T24S, R27E
Eddy 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: 6/27/2025



Statement of Notifications

Re: C-108 Application for SWD Well
 Permian Oilfield Partners, LLC
 Elsie State SWD #1
 1240' FNL & 240' FEL
 Sec 27, T24S, R27E
 Eddy County, NM

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

Elsie State 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	9414811899560073692507	7/3/2025
CHEVRON USA	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899560073692545	7/3/2025
CONOCOPHILLIPS	P.O. Box 2197	Houston, TX 77252	USPS	9414811899560073692583	7/3/2025
EOG RESOURCES INC	P.O. Box 2267	Midland, TX 79702	USPS	9414811899560073692538	7/3/2025
HEC PETROLEUM	463 Turner Dr 101	Durango, CO 81303	USPS	9414811899560073692576	7/3/2025
NEW MEXICO STATE LAND OFFICE	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899560073690251	7/3/2025

Sean Puryear
 Permian Oilfield Partners, LLC
spuryear@popmidstream.com
 Date: 7/3/2025

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

ARTICLE NUMBER: 9414 8118 9956 0073 6925 07

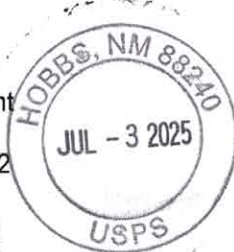
ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	2.59
Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here

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

ARTICLE NUMBER: 9414 8118 9956 0073 6925 45

ARTICLE ADDRESSED TO:

Chevron USA
6301 DEAUVILLE
MIDLAND TX 79706-2964

FEES

Postage Per Piece	2.59
Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here

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

ARTICLE NUMBER: 9414 8118 9956 0073 6925 83

ARTICLE ADDRESSED TO:

ConocoPhillips Company
PO BOX 2197
HOUSTON TX 77252-2197

FEES

Postage Per Piece	2.59
Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here

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

ARTICLE NUMBER: 9414 8118 9956 0073 6925 38

ARTICLE ADDRESSED TO:

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

FEES

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Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here

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

ARTICLE NUMBER: 9414 8118 9956 0073 6925 76

ARTICLE ADDRESSED TO:

HEC Petroleum
463 TURNER DR STE 101A
DURANGO CO 81303-7982

FEES

Postage Per Piece	2.59
Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here

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

ARTICLE NUMBER: 9414 8118 9956 0073 6902 51

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	2.59
Certified Fee	4.85
Total Postage & Fees:	\$10.06

Postmark
Here



AFFIDAVIT OF PUBLICATION

CARLSBAD CURRENT-ARGUS
PO BOX 507
HUTCHINSON, KS 67504-0507

STATE OF NEW MEXICO } SS
COUNTY OF EDDY }

Account Number: 564
Ad Number: 53300
Description: Elsie State SWD #1
Ad Cost: \$60.03

Sherry Groves, being first duly sworn, says:

That she is the Agent of the the Carlsbad Current-Argus, a Weekly newspaper of general circulation, printed and published in Carlsbad, Eddy County, New Mexico; that the publication, a copy of which is attached hereto, was published in said newspaper on the following dates:

July 3, 2025

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Sherry Groves

Agent

Subscribed to and sworn to me this 3rd day of July 2025.

Leanne Kaufenberg

Leanne Kaufenberg, Notary Public, Redwood County
Minnesota

PUBLIC NOTICE

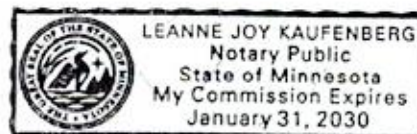
Permian Oilfield Partners, LLC, PO Box 3329, Hobbs, NM 88241, phone (817)606-7630, attn. Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial saltwater disposal well in Eddy County, New Mexico. The proposed well is the Elsie State SWD #1, and is located 1240' FNL & 240' FEL, Unit A, Section 27, Township 24 South, Range 27 East, NMPM, approximately 6 mi SW of Malaga, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian and Fusselman (Silurian) formations from a depth of 13,600 feet to 14,588 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,720 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.

Published in the Carlsbad Current-Argus July 3 2025.
#53300

GARY FISHER
PERMIAN OILFIELD PARTNERS
PO BOX 3329

gfisher@popmidstream.com





Attachment to C-108
Permian Oilfield Partners, LLC
Elsie State SWD #1
1240' FNL & 240' FEL
Sec 27, T24S, R27E
Eddy County, NM

July 1, 2025

STATEMENT REGARDING SEISMICITY

Examination of the USGS, TexNet 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. There were two seismic events approximately 5 years ago, 4.5 miles to the NNE as per the table below. This proposed well is not located within any current Seismic Response Area.

Date	Magnitude	Depth	Lat	Lon	Source
8/19/2020	M2.13	5km	32.253	-104.153	NMTSO
12/14/2019	M2.59	5km	32.257	-104.138	NMTSO

As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 3.4 miles away from the nearest active or permitted Devonian disposal well (Boomerang 6 Fee #1, 30-015-49429, SWD-2442).

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. USGS State Geologic Map Compilation (SGMC) geodatabase of the conterminous United States
3. Basement faults as 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.

4. Basement faults as documented in the Horne et al (2021) paper, "Basement-Rooted Faults of the Delaware basin and Central Basin Platform, Permian Basin, West Texas and Southeastern New Mexico"
5. Fault data was also correlated to the NMOCD SWD Applications & Fault Map dated 02/14/2022, 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.

There is a known fault structure within the area of interest (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, approximately 1.3 mi (2.7 km) to the SW.

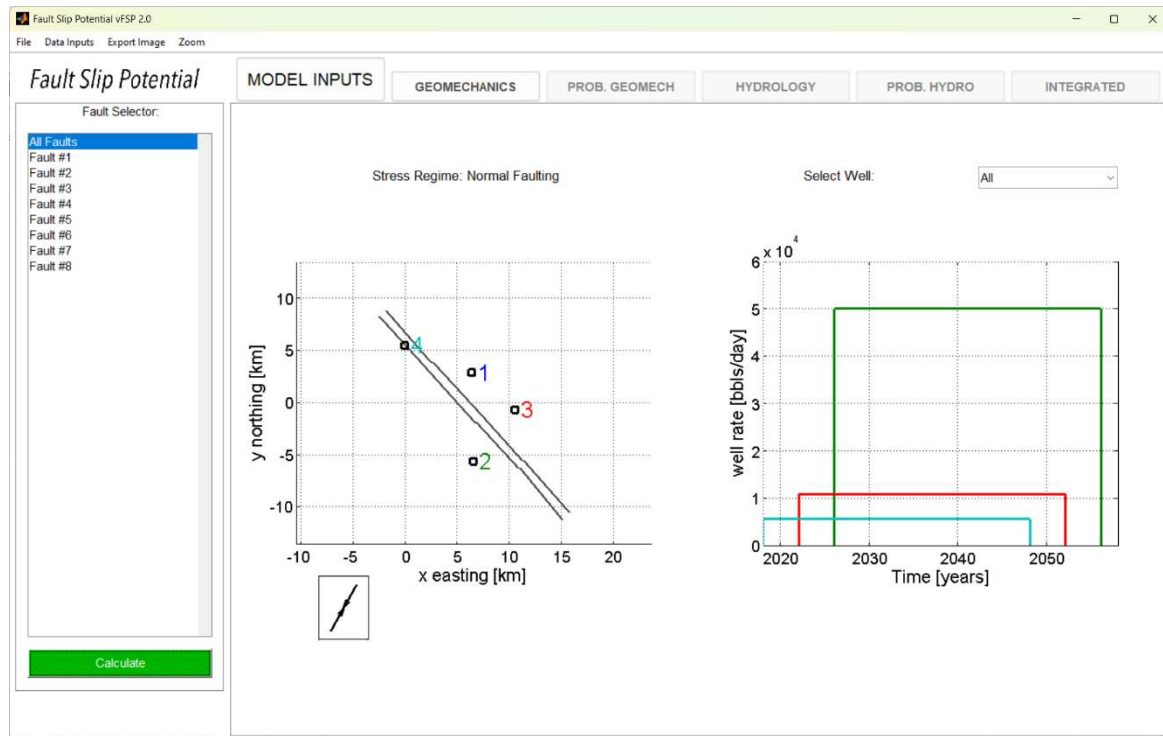
1. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #2 above, from the Stanford Center for Induced and Triggered Seismicity, "FSP 2.0: A program for probabilistic estimation of fault 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.
2. Devonian UIC wells, permits & applications as noted in the table below are included in the FSP analysis.

Well Name	UIC Order	PLSS	Lat	Lon	Rate (bbl/day)	Injection Start	Well # in images below
Elsie State SWD #1	Proposed	27-24S-27E	32.191889	-104.170658	50000	2026	1
Infinity State SWD #1	Proposed	22-25S-27E	32.115153	-104.169894	50000	2026	2
Boomerang 6 Fee #1	SWD-2442	6-25S-28E	32.159252	-104.126950	11000	2022	3
Hood SWD #1	SWD-1732	13-24S-26E	32.215370	-104.239006	5700	2018	4

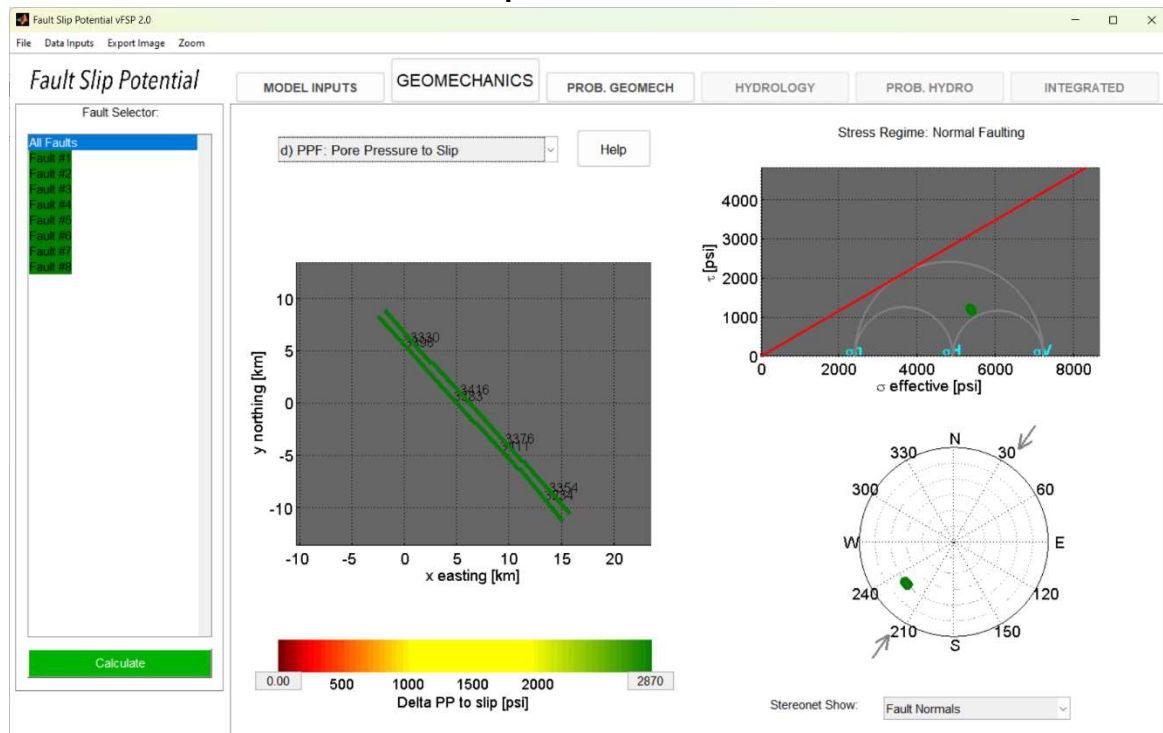
3. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

Input assumptions:

Interval height (ft)	988
Average porosity (%)	5
Vert stress gradient (psi/ft)	1.0
Hor stress direction (deg N)	35
Fault dip (deg)	60
Reference depth (ft)	13600
Initial res press gradient (psi/ft)	0.47
A phi	0.52
Friction coefficient	0.58
Average perm (mD)	20
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09



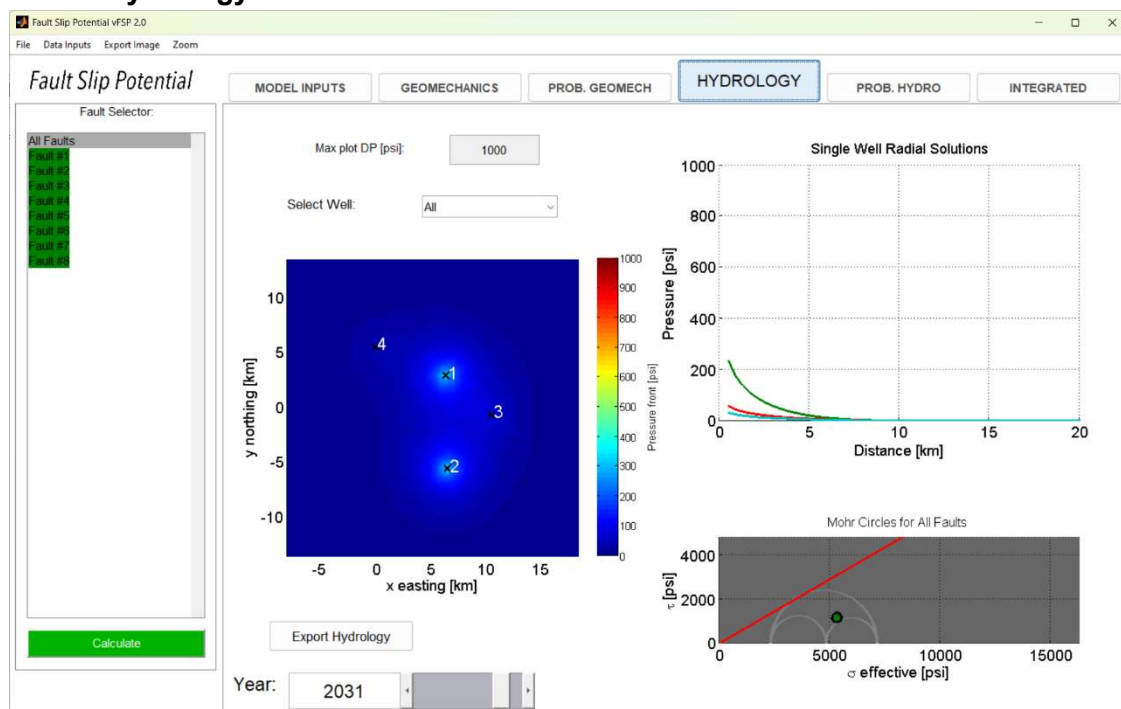
Geomechanics Pore Pressure to Slip



GeoMechanics Variability



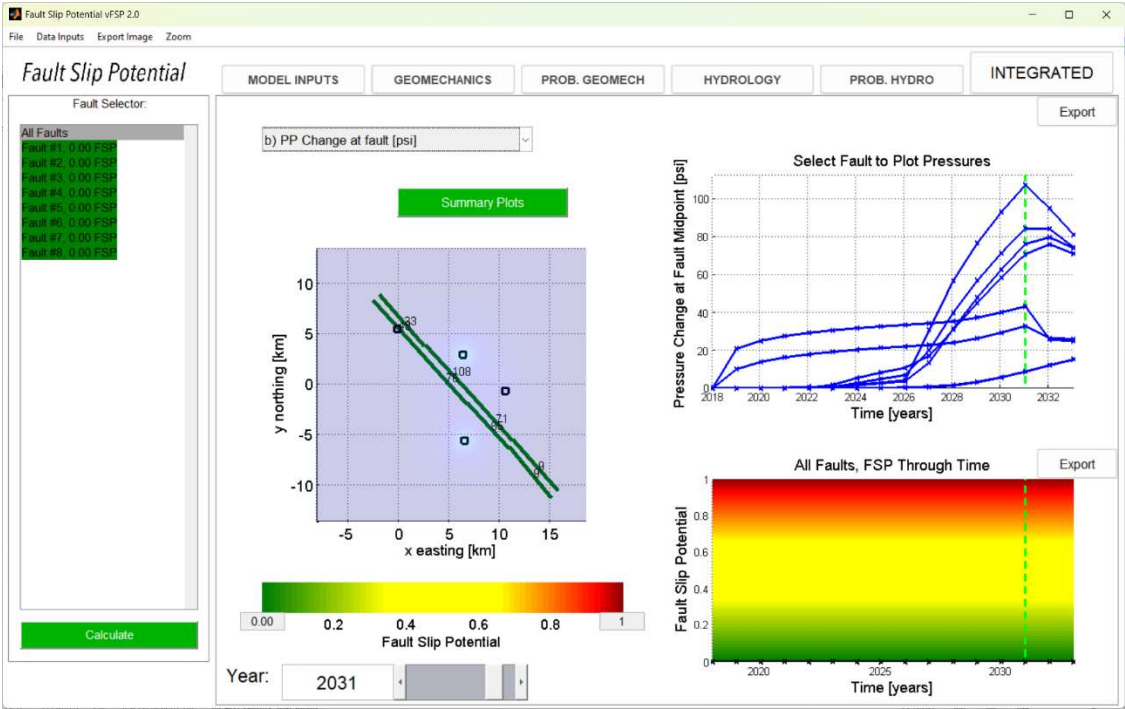
Year 5 Hydrology



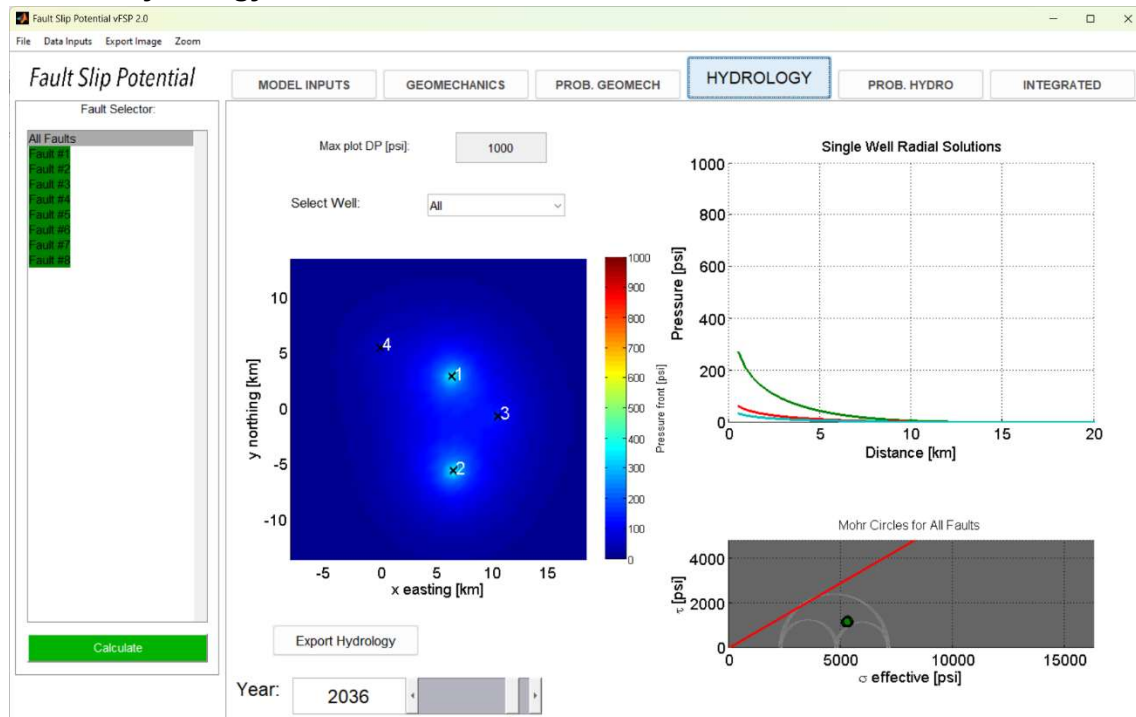
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



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



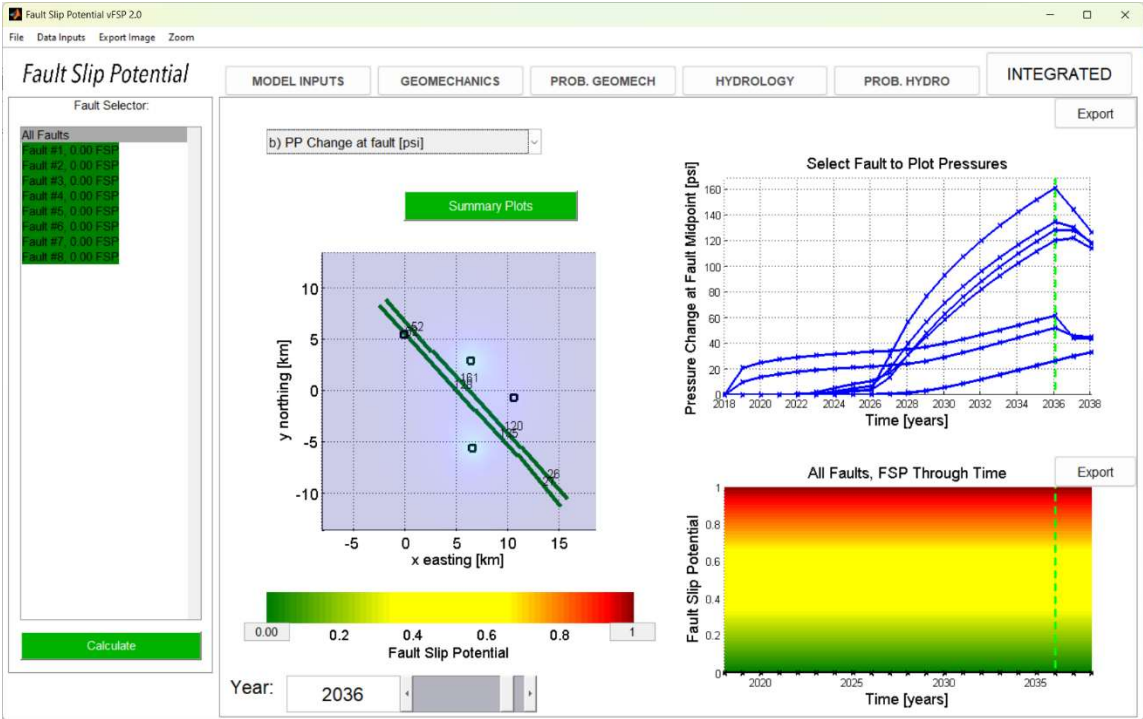
Year 10 Hydrology



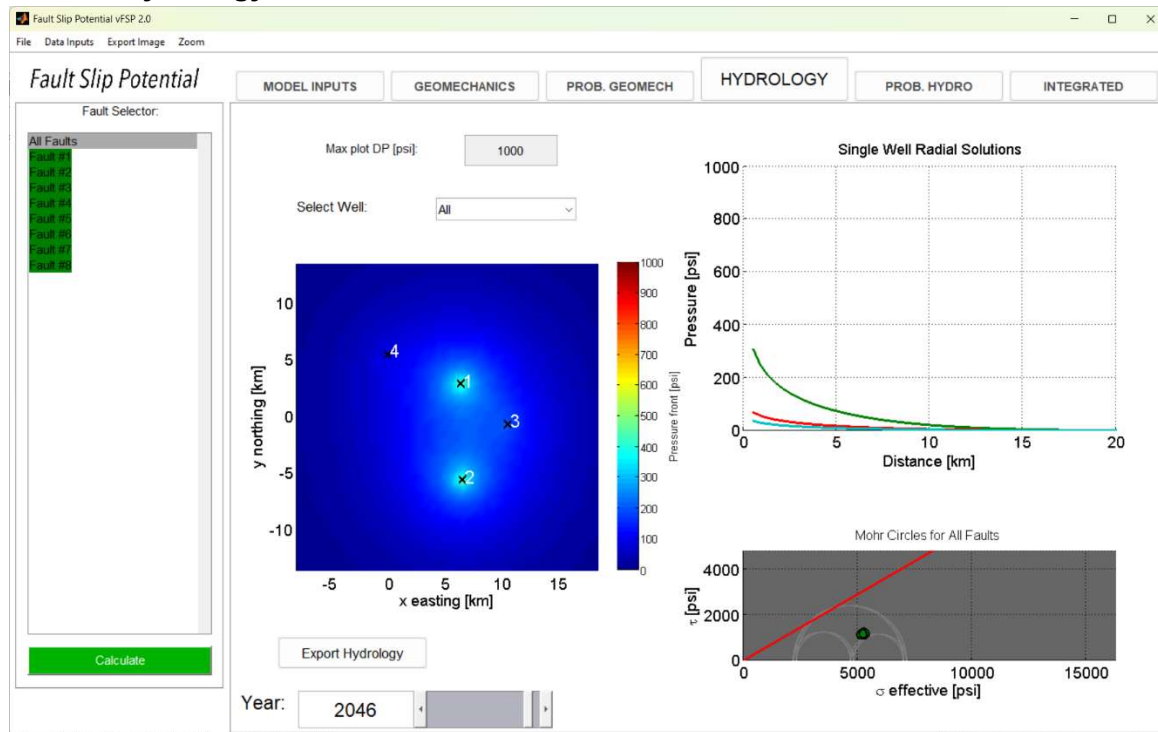
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



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



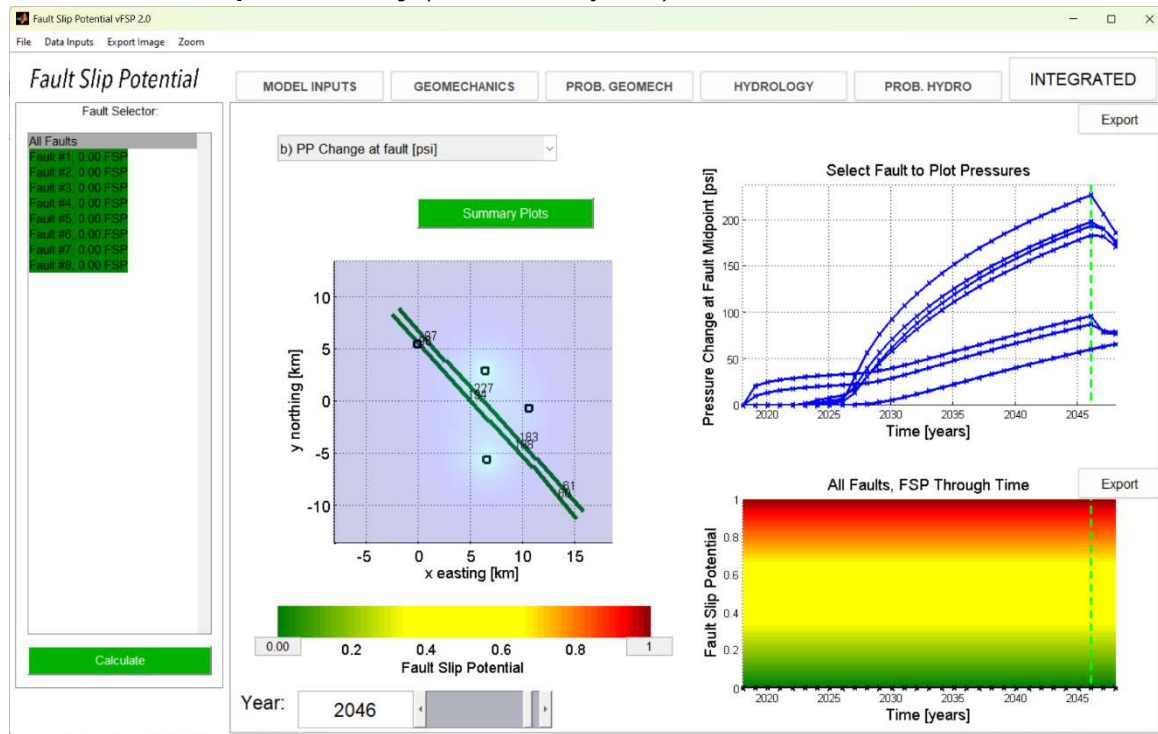
Year 20 Hydrology



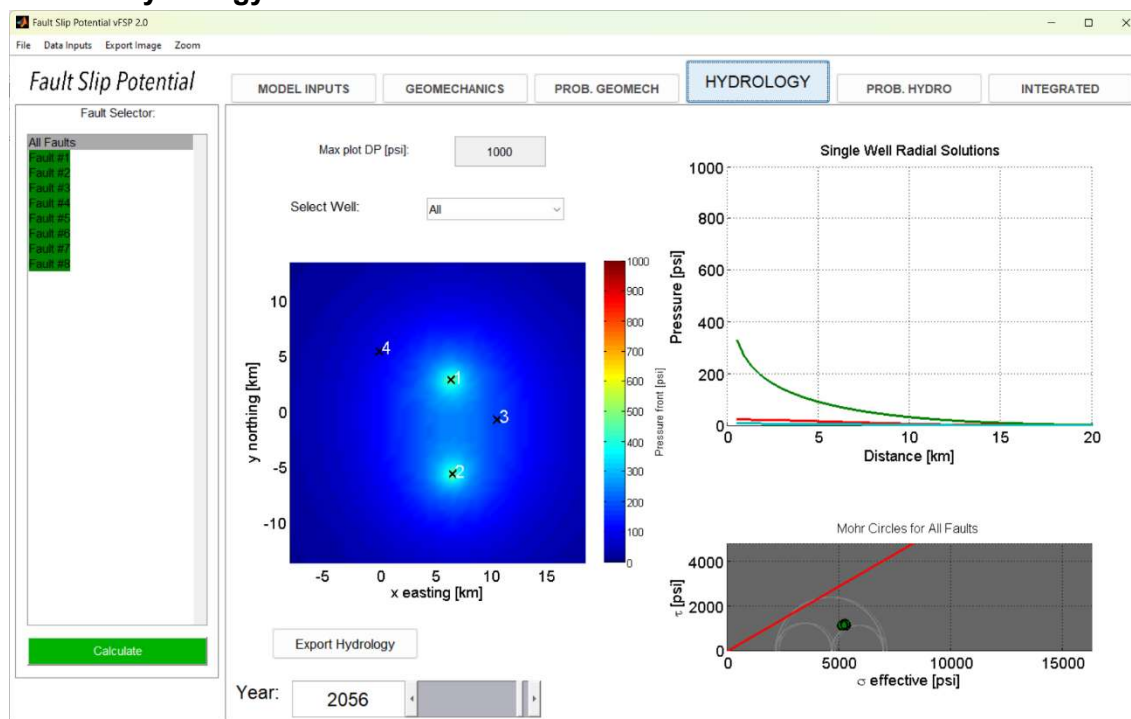
Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



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

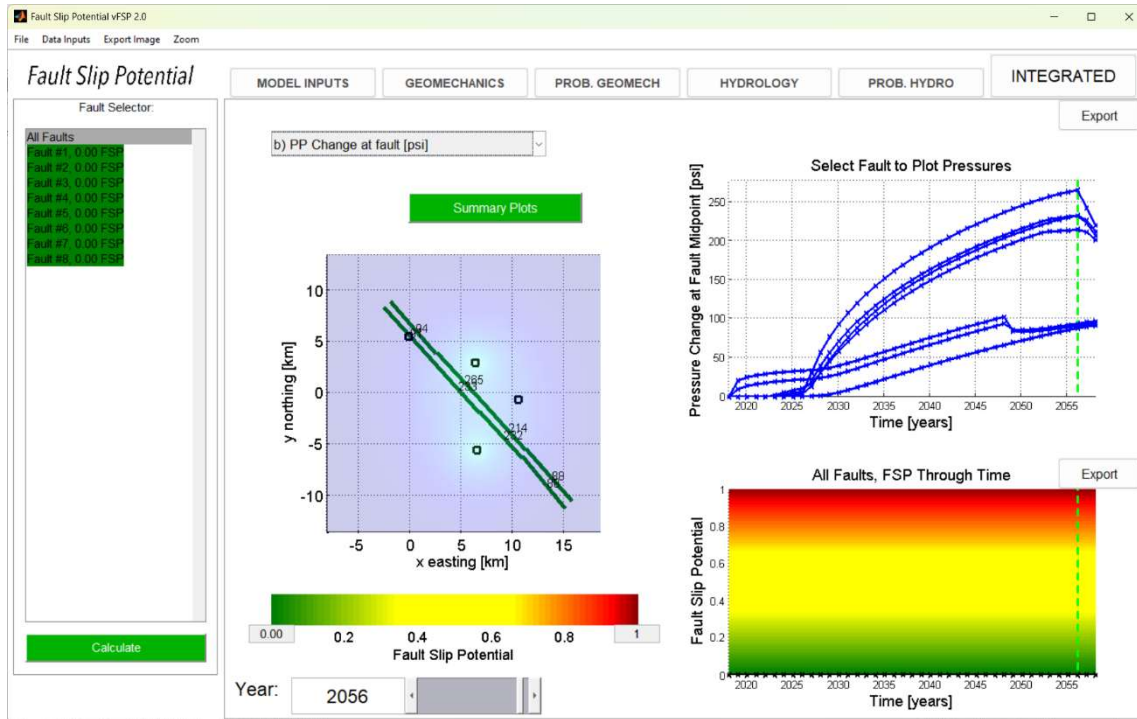


Year 30 Hydrology



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



Year 30 Fault Slip Probability (0% after 30 years)gfisher@popmidstream.com

(817) 606-7630

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Attached in compiled C-108 document.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 485495

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 485495
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
erica.gordan	None	7/21/2025