

AE Order Number Banner

Application Number: pMSG2325242316

SWD-2562

Permian Oilfield Partners, LLC [328259]

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: Stoeger 33 Federal 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

7-14-2023

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: **7-14-2023**
E-MAIL ADDRESS: **spuryear@popmidstream.com**
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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 12,180'

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 2,436 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	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>
	KB TVD (ft)	KB TVD (ft)	(ft)
Rustler	354	400	46
Salt	400	1,116	716
Yates	1,116	1,537	421
Seven Rivers	1,537	2,089	552
San Andres	2,909	3,860	951
Leonard	3,860	8,867	5,007
Wolfcamp	8,867	9,967	1,100
Lwr. Mississippian	11,686	12,131	445
Woodford	12,131	12,180	49
Devonian	12,180	12,566	386
Fusselman (Silurian)	12,566	12,948	382
Montoya (U. Ordovician)	12,948	13,192	244
Simpson (M. Ordovician)	13,192	13,368	176

- Regional shallow fresh water in the Quaternary is known to exist at depths less than 320'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 11,860'. 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 3 fresh water PODs within the proposed well's one-mile area of review. See table below for POD statuses, and attached 1 mile AOR water well map showing location of PODs in the AOR.

Well Name	Formation Name	Top Depth	Bottom Depth	Thickness	Status
CP 00626 POD1	Quaternary	247	286	39	No Access, No Sample
CP 00626 POD2	Quaternary	195	240	45	Sample Attached
CP 00924 POD1	Quaternary	Unknown	Unknown	Unknown	Not Found

- 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 STOEGER 33 FEDERAL SWD			⁶ Well Number 1
⁷ OGRID NO. 328259		⁸ Operator Name PERMIAN OILFIELD PARTNERS, LLC			⁹ Elevation 3426'

¹⁰ Surface Location

UL or lot no. H	Section 33	Township 18S	Range 29E	Lot Idn	Feet from the 2227	North/South line NORTH	Feet From the 300	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

<p>16</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N: 620341.2 - E: 621674.8 LAT: 32.7050878° N LONG: 104.0721526° W</p> <p>CORNER DATA NAD 83 GRID - NM EAST A: CALCULATED CORNER N: 617427.6 - E: 616705.7 B: FOUND BRASS CAP "1916" N: 622549.6 - E: 616690.4 C: FOUND BRASS CAP "1916" N: 622568.7 - E: 621969.3 D: FOUND 1/2" REBAR N: 617414.7 - E: 621981.9</p> <p>33</p> <p>300'</p> <p>S.L.</p> <p>2227'</p> <p>5123.33'</p> <p>5155.32'</p> <p>5280.25'</p> <p>5277.48'</p> <p>89°47'33" W</p> <p>89°51'36" E</p>		<p>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.</p> <p><i>Sean Puryear</i> 05/24/23 Signature Date Sean Puryear Printed Name spuryear@popmidstream.com E-mail Address</p> <p>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.</p> <p>03/15/22 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number</p> <p>PROF. ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR</p>
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Job No.: LS22020094

III (A)

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Stoeger 33 Federal SWD #1
2227' FNL, 300' FEL
Sec. 33, T18S, R29E, Eddy Co. NM
Lat 32.7050878° N, Lon -104.0721526° W
GL 3426', RKB 3456'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# J-55 BTC Casing
Depth Top: Surface
Depth Btm: 379'
Cement: 802 sks - Class C + Additives (100% Excess)
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 54.5# J-55 BTC Casing
Depth Top: Surface
Depth Btm: 1487'
Cement: 636 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 8917'
Cement: 1312 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: 8717'
Depth Btm: 12215'
Cement: 215 sks - Class H + Additives
Cement Top: 8717' - (Circulate & Bond Log)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 12923'
Inj. Interval: 12215' - 12923' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 12170' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ
X/O Depth: 8717' Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 12180' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
Packer Fluid: 8.4 ppg FW + Additives

III (A)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
 Stoeger 33 Federal SWD #1
 2227' FNL, 300' FEL
 Sec. 33, T18S, R29E, Eddy Co. NM
 Lat 32.7050878° N, Lon -104.0721526° W
 GL 3426', RKB 3456'

Surface - (Conventional)

Hole Size: 26"
 Casing: 20" - 94# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 379'
 Cement: 802 sks - Class C + Additives (100% Excess)
 Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
 Casing: 13.375" - 54.5# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 1487'
 Cement: 636 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 8917'
 Cement: 1312 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #3 - (Liner)

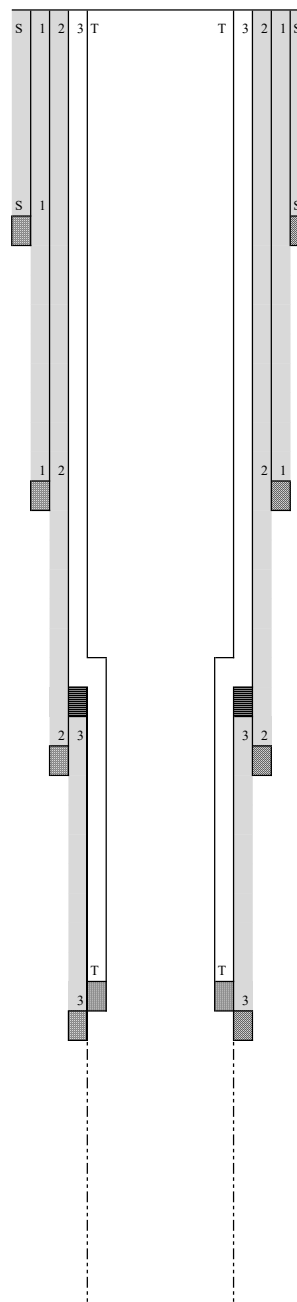
Hole Size: 8.75"
 Casing: 7.625" - 39# HCL-80 FJ Casing
 Depth Top: 8717'
 Depth Btm: 12215'
 Cement: 215 sks - Class H + Additives
 Cement Top: 8717' - (Circulate & Bond Log)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
 Depth: 12923'
 Inj. Interval: 12215' - 12923' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 12170'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 8717'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 12180'
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives



XIII.



Statement of Notifications

Re: C-108 Application for SWD Well
 Permian Oilfield Partners, LLC
 Stoeger 33 Federal SWD #1
 2227' FNL & 300' FEL
 Sec 33, T18S, R29E
 Eddy County, NM

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

Stoeger 33 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	9414 8118 9956 2029 0364 65	7/21/2023
BURLINGTON RESOURCES OIL & GAS LP	P.O. Box 2197	Houston, TX 77252	USPS	9414 8118 9956 2029 0364 27	7/21/2023
CIMAREX ENERGY CO. OF COLORADO	600 N. Marienfeld Street, Suite 600	Midland, TX 79701	USPS	9414 8118 9956 2029 0364 89	7/21/2023
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414 8118 9956 2029 0365 19	7/21/2023
DAVID G HAMMOND	P.O. Box 1538	Artesia, NM 88211	USPS	9414 8118 9956 2029 0365 26	7/21/2023
DENTON OIL CO	P.O. Box 1252	Artesia, NM 88210	USPS	9414 8118 9956 2029 0365 95	7/21/2023
EOG RESOURCES INC	P.O. Box 2267	Midland, TX 79702	USPS	9414 8118 9956 2029 0365 71	7/21/2023
EOG Y RESOURCES, INC.	104 S 4th St	Artesia, NM 88210	USPS	9414 8118 9956 2029 0312 55	7/21/2023
LEGACY RESERVES OPERATING, LP	15 Smith Road, Suite 3000	Midland, TX 79705	USPS	9414 8118 9956 2029 0312 62	7/21/2023
MACK ENERGY CORP	P.O. Box 960, 11344 Lovington Hwy	Artesia, NM 88211	USPS	9414 8118 9956 2029 0312 93	7/21/2023
MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM 88241	USPS	9414 8118 9956 2029 0312 79	7/21/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414 8118 9956 2029 0318 66	7/21/2023
OXY USA INC	P.O. Box 4294	Houston, TX 77210	USPS	9414 8118 9956 2029 0318 42	7/21/2023
OXY USA WTP LIMITED PARTNERSHIP	P.O. Box 4294	Houston, TX 77210	USPS	9414 8118 9956 2029 0318 80	7/21/2023
R & M Oil, LLC	PO Box 11, 132317 Lovington Hwy	Loco Hills, NM 88255	USPS	9414 8118 9956 2029 0318 73	7/21/2023
REMANT OIL OPERATING, LLC	P.O. Box 5375	Midland, TX 79704	USPS	9414 8118 9956 2029 0317 12	7/21/2023
RODNEY B WEBB DBA WEBB OIL CO	P.O. Box 1124	Artesia, NM 88211	USPS	9414 8118 9956 2029 0317 98	7/21/2023

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

Date: 7/21/2023

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

ARTICLE NUMBER: 9414 8118 9956 2029 0364 65

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

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

ARTICLE NUMBER: 9414 8118 9956 2029 0364 27

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

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

ARTICLE NUMBER: 9414 8118 9956 2029 0364 89

ARTICLE ADDRESSED TO:

Cimarex Energy Co. of Colorado
600 N MARIENFELD ST STE 600
MIDLAND TX 79701-4405

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

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

ARTICLE NUMBER: 9414 8118 9956 2029 0365 19

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

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

ARTICLE NUMBER: 9414 8118 9956 2029 0365 26

ARTICLE ADDRESSED TO:

David G Hammond
PO BOX 1538
ARTESIA NM 88211-1538

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

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

ARTICLE NUMBER: 9414 8118 9956 2029 0365 95

ARTICLE ADDRESSED TO:

Denton Oil Co
PO BOX 1252
ARTESIA NM 88211-1252

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

JUL 21 2023

USPS

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2029 0365 71

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

Postmark
Here

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2029 0312 55

ARTICLE ADDRESSED TO:

EOG Y Resources, Inc.
104 S 4TH ST
ARTESIA NM 88210-2123

FEES

Postage Per Piece	\$5.230
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Legacy Reserves Operating LP
15 SMITH RD STE 3000
MIDLAND TX 79705-5461

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ARTICLE ADDRESSED TO:

Mack Energy Corp
PO BOX 960
ARTESIA NM 88211-0960

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ARTICLE ADDRESSED TO:

Mewbourne Oil Co.
PO BOX 5270
HOBBS NM 88241-5270

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0318 66

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0318 42

ARTICLE ADDRESSED TO:

Oxy USA
PO BOX 4294
HOUSTON TX 77210-4294

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0318 80

ARTICLE ADDRESSED TO:

Oxy USA WTP LP
PO BOX 4294
HOUSTON TX 77210-4294

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0318 73

ARTICLE ADDRESSED TO:

R&M Oil, LLC
PO BOX 11
LOCO HILLS NM 88255-0011

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0317 12

ARTICLE ADDRESSED TO:

Remnant Oil Operating, LLC
PO BOX 5375
MIDLAND TX 79704-5375

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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ARTICLE NUMBER: 9414 8118 9956 2029 0317 98

ARTICLE ADDRESSED TO:

Webb Oil Co
PO BOX 1124
ARTESIA NM 88211-1124

FEES

Postage Per Piece	\$5.230
Certified Fee	4.350
Total Postage & Fees:	9.580

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Affidavit of Publication

No. 26177

State of New Mexico

Publisher

County of Eddy:

Johnny Scott Ramsey

big duly sworn says that he is the

Publisher

of the Artesia Daily Press, a daily newspaper of General

circulation, published in English at Artesia, said county

and state, and that the hereto attached

Legal Ad

published in a regular and entire issue of the said

Artesia Daily Press, a daily newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication June 16, 2022

Second Publication

Third Publication

Fourth Publication

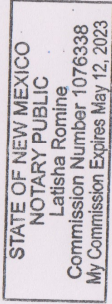
Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

16th day of June 2022



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal 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 salt water disposal well in Eddy County, New Mexico. The well is the Stoeger 33 Federal SWD #1, and is located 2227 FNL & 300' FEL, Unit H, Section 33, Township 18 South, Range 29 East, NMPM, approximately 9 mi SW of Loco Hills, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 12,180 feet to 12,948 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,436 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, 87503 within 15 days.

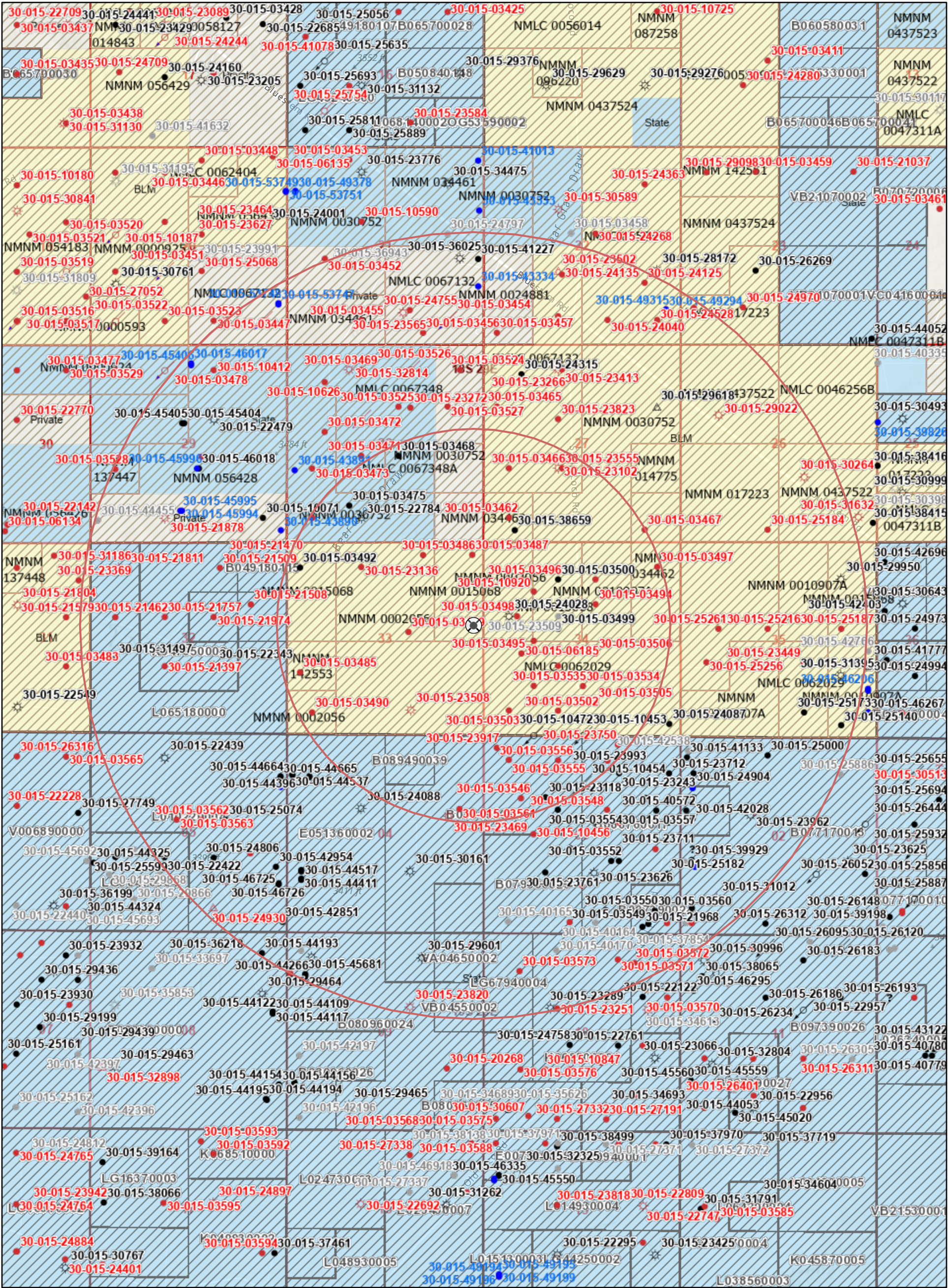
Published in the Artesia Daily Press, Artesia, N.M., June 16, 2022 Legal No. 26177.

Stoeger 33 Federal SWD #1, 1 & 2 Mile AOR, Leases



V (b)

Stoeger 33 Federal SWD #1, 1 & 2 Mile AOR, Wells



7/14/2023, 9:59:06 AM

Override 1

Override 1

Wells - Large Scale

Miscellaneous

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Gas, Temporarily Abandoned

Injection, Active

Injection, Plugged

Oil, Active

Oil, Cancelled

Oil, New

Oil, Plugged

Salt Water Injection, Active

Salt Water Injection, Plugged

undefined

Authorized

Oil and Gas Leases

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

Oil Conservation Division of the New Mexico Energy, Minerals and

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Released to Imaging: 9/9/2023 11:59:59 AM

V (c)

Stoeger 33 Federal SWD #1 - Wells Within 1mi 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	
30-015-03485	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	L	L-33-18S-29E 1650 FSL 330 FWL	L-33-18S-29E 1650 FSL 330 FWL	Queen	2020	2020	
30-015-03492	REMNANT OIL OPERATING, LLC	WILSON FEDERAL	#001	Oil	Vertical	Active	33	T18S	R29E	D	D-33-18S-29E 660 FNL 330 FWL	D-33-18S-29E 660 FNL 330 FWL	San Andres	2456	2456	
30-015-03490	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	M	M-33-18S-29E 578 FSL 658 FWL	M-33-18S-29E 578 FSL 658 FWL	San Andres	3005	3005	
30-015-03474	DAVID G HAMMOND	SIVLEY JENNINGS FEDERAL	#003	Oil	Vertical	Plugged, Site Released	28	T18S	R29E	M	M-28-18S-29E 660 FSL 660 FWL	M-28-18S-29E 660 FSL 660 FWL	Queen	1992	1992	
30-015-03475	DAVID G HAMMOND	SIVLEY JENNINGS FEDERAL	#004	Oil	Vertical	Active	28	T18S	R29E	N	N-28-18S-29E 990 FSL 1650 FWL	N-28-18S-29E 990 FSL 1650 FWL	Queen	2019	2019	
30-015-03491	EOG Y RESOURCES, INC.	FEDERAL AR	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	C	C-33-18S-29E 330 FNL 1650 FWL	C-33-18S-29E 330 FNL 1650 FWL	Queen	2021	2021	
30-015-22784	MEWBOURNE OIL CO	TRIGG JENNINGS COM	#001	Gas	Vertical	Active	28	T18S	R29E	N	N-28-18S-29E 660 FSL 1980 FWL	N-28-18S-29E 660 FSL 1980 FWL	Morrow	11320	11320	
30-015-23136	EOG Y RESOURCES, INC.	NORTH TURKEY MU FEDERAL COM	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	C	C-33-18S-29E 660 FNL 1980 FWL	C-33-18S-29E 660 FNL 1980 FWL	Morrow	11500	11500	
30-015-03468	R & M OIL, LLC	PARRY	#001	Oil	Vertical	Active	28	T18S	R29E	J	J-28-18S-29E 2310 FSL 2310 FEL	J-28-18S-29E 2310 FSL 2310 FEL	Queen	2039	2039	
30-015-03489	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	G	G-33-18S-29E 2390 FNL 2040 FEL	G-33-18S-29E 2390 FNL 2040 FEL	n/a	n/a	n/a	
30-015-23508	OXY USA INC	GOVERNMENT AM COM	#001	Gas	Vertical	Plugged, Site Released	33	T18S	R29E	O	O-33-18S-29E Lot: 2 660 FSL 1980 FEL	O-33-18S-29E Lot: 2 660 FSL 1980 FEL	Morrow	11356	11356	
30-015-03486	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	B	B-33-18S-29E 330 FNL 1650 FEL	B-33-18S-29E 330 FNL 1650 FEL	Grayburg	2865	2865	
30-015-23469	OXY USA WTP LIMITED PARTNERSHIP	STATE CZ COM	#001	Gas	Vertical	Plugged, Not Released	04	T19S	R29E	H	H-04-19S-29E 2180 FNL 960 FEL	H-04-19S-29E 2180 FNL 960 FEL	Morrow	11500	11500	
30-015-03488	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	H	H-33-18S-29E 1650 FNL 990 FEL	H-33-18S-29E 1650 FNL 990 FEL	Grayburg	2751	2751	
30-015-03561	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	04	T19S	R29E	H	H-04-19S-29E 1980 FNL 660 FEL	H-04-19S-29E 1980 FNL 660 FEL	Yates	3858	3858	
30-015-03487	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	Vertical	Plugged, Site Released	33	T18S	R29E	A	A-33-18S-29E 330 FNL 330 FEL	A-33-18S-29E 330 FNL 330 FEL	Queen	2073	2073	
30-015-23917	MACK ENERGY CORP	TURKEY TRACK SEC 3 UNIT	#027	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	D	D-03-19S-29E Lot: 4 330 FNL 330 FWL	D-03-19S-29E Lot: 4 330 FNL 330 FWL	Queen	2950	2950	
30-015-03466	DENTON OIL CO	HOVER	#002	Oil	Vertical	Plugged, Site Released	27	T18S	R29E	L	L-27-18S-29E 1980 FSL 660 FWL	L-27-18S-29E 1980 FSL 660 FWL	Grayburg	2879	2879	
30-015-03503	MACK ENERGY CORP	BRAINARD TRACT 3	#003	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	M	M-34-18S-29E Lot: 4 660 FSL 660 FWL	M-34-18S-29E Lot: 4 660 FSL 660 FWL	Queen	2273	2273	
30-015-24028	EOG RESOURCES INC	NORTH TURKEY TRACK MU FED.	#002	Gas	Vertical	Active	34	T18S	R29E	E	E-34-18S-29E 1980 FNL 660 FWL	E-34-18S-29E 1980 FNL 660 FWL	Morrow	11600	11600	
30-015-38659	CIMAREX ENERGY CO. OF COLORADO	EMPIRE A FEDERAL COM	#003H	Oil	Horizontal	Active	27	T18S	R29E	M	M-27-18S-29E 330 FSL 810 FWL	D-27-18S-29E 351 FNL 649 FWL	Bone Spring	12275	7779	
30-015-03555	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	D	D-03-19S-29E 660 FNL 660 FWL	D-03-19S-29E 660 FNL 660 FWL	Brown Lime	3157	3157	
30-015-03462	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	27	T18S	R29E	M	M-27-18S-29E 660 FSL 660 FWL	M-27-18S-29E 660 FSL 660 FWL	San Andres	3185	3185	
30-015-03498	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	E	E-34-18S-29E 1980 FNL 880 FWL	E-34-18S-29E 1980 FNL 880 FWL	Queen	2085	2085	
30-015-03546	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#005	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	E	E-03-19S-29E 1680 FNL 990 FWL	E-03-19S-29E 1680 FNL 990 FWL	Queen	2085	2085	
30-015-03495	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	L	L-34-18S-29E 2185 FSL 990 FWL	L-34-18S-29E 2185 FSL 990 FWL	Grayburg	2405	2405	
30-015-03496	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	D	D-34-18S-29E 990 FNL 990 FWL	D-34-18S-29E 990 FNL 990 FWL	Grayburg	2612	2612	
30-015-03535	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#009	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	K	K-34-18S-29E 1325 FSL 1325 FWL	K-34-18S-29E 1325 FSL 1325 FWL	Queen	2108	2108	
30-015-06185	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	F	F-34-18S-29E 2635 FNL 1325 FWL	F-34-18S-29E 2635 FNL 1325 FWL	Queen	2104	2104	
30-015-10472	REMNANT OIL OPERATING, LLC	BRAINARD	#007	Injection	Vertical	Active	34	T18S	R29E	N	N-34-18S-29E Lot: 3 5 FSL 1325 FWL	N-34-18S-29E Lot: 3 5 FSL 1325 FWL	Queen	2115	2115	
30-015-10920	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	C	C-34-18S-29E 1315 FNL 1325 FWL	C-34-18S-29E 1315 FNL 1325 FWL	Queen	2108	2108	
30-015-23118	REMNANT OIL OPERATING, LLC	TURKEY TRACK SEC 3 UNIT	#020	Oil	Vertical	Active	03	T19S	R29E	F	F-03-19S-29E 1650 FNL 1650 FWL	F-03-19S-29E 1650 FNL 1650 FWL	San Andres	2962	2962	
30-015-23312	RODNEY B WEBB DBA WEBB OIL CO	TURKEY TRACK SEC 3 UNIT	#023	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	C	C-03-19S-29E Lot: 3 990 FNL 1650 FWL	C-03-19S-29E Lot: 3 990 FNL 1650 FWL	Grayburg	2962	2962	
30-015-03502	MACK ENERGY CORP	BRAINARD TRACT 1	#001	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	N	N-34-18S-29E Lot: 3 660 FSL 1980 FWL	N-34-18S-29E Lot: 3 660 FSL 1980 FWL	Grayburg	2265	2265	
30-015-03556	RODNEY B WEBB DBA WEBB OIL CO	TURKEY TRACK SEC 3 UNIT	#002	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	C	C-03-19S-29E Lot: 3 660 FNL 1980 FWL	C-03-19S-29E Lot: 3 660 FNL 1980 FWL	Grayburg	2268	2268	
30-015-03499	REMNANT OIL OPERATING, LLC	MCKEE WILSON	#001	Oil	Vertical	Active	34	T18S	R29E	F	F-34-18S-29E 2310 FNL 1980 FWL	F-34-18S-29E 2310 FNL 1980 FWL	Grayburg	2106	2106	
30-015-23509	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled App	34	T18S	R29E	F	F-34-18S-29E 1980 FNL 1980 FWL	F-34-18S-29E 1980 FNL 1980 FWL	Morrow	11600	11600	
30-015-23102	CIMAREX ENERGY CO. OF COLORADO	EMPIRE FEDERAL COM	#001	Gas	Vertical	Plugged, Site Released	27	T18S	R29E	K	K-27-18S-29E 1980 FSL 1980 FWL	K-27-18S-29E 1980 FSL 1980 FWL	Morrow	11700	11700	
30-015-03500	REMNANT OIL OPERATING, LLC	MCKEE WILSON	#002	Oil	Vertical	Active	34	T18S	R29E	C	C-34-18S-29E 990 FNL 1980 FWL	C-34-18S-29E 990 FNL 1980 FWL	Queen	2104	2104	
30-015-23555	COG OPERATING LLC	DENTON FEDERAL	#002	Oil	Vertical	Plugged, Site Released	27	T18S	R29E	K	K-27-18S-29E 1980 FSL 2080 FWL	K-27-18S-29E 1980 FSL 2080 FWL	San Andres	2780	2780	
30-015-03504	MACK ENERGY CORP	BRAINARD TRACT 4	#004	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	K	K-34-18S-29E 1866 FSL 1980 FWL	K-34-18S-29E 1866 FSL 1980 FWL	San Andres	2416	2416	
30-015-03501	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#005	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	F	F-34-18S-29E 1650 FNL 2310 FWL	F-34-18S-29E 1650 FNL 2310 FWL	Grayburg	2101	2101	
30-015-23993	OXY USA WTP LIMITED PARTNERSHIP	STATE DB COM	#001	Gas	Vertical	Active	03	T19S	R29E	C	C-03-19S-29E Lot: 3 860 FNL 2230 FWL	C-03-19S-29E Lot: 3 860 FNL 2230 FWL	Morrow	11505	11505	
30-015-10453	REMNANT OIL OPERATING, LLC	BRAINARD	#008	Injection	Vertical	Active	34	T18S	R29E	O	O-34-18S-29E Lot: 2 5 FSL 2635 FEL	O-34-18S-29E Lot: 2 5 FSL 2635 FEL	San Andres	2429	2429	
30-015-03534	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#010	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	J	J-34-18S-29E 1325 FSL 2645 FWL	J-34-18S-29E 1325 FSL 2645 FWL	Queen	2137	2137	
30-015-10454	REMNANT OIL OPERATING, LLC	TURKEY TRACK SEC 3 UNIT	#003	Injection	Vertical	Active	03	T19S	R29E	C	C-03-19S-29E Lot: 3 1315 FNL 2635 FWL	C-03-19S-29E Lot: 3 1315 FNL 2635 FWL	San Andres	2324	2324	
30-015-03493	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	B	B-34-18S-29E 990 FNL 2310 FEL	B-34-18S-29E 990 FNL 2310 FEL	Grayburg	2105	2105	
30-015-03506	MACK ENERGY CORP	BRAINARD TRACT 4	#006	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	J	J-34-18S-29E 2204 FSL 2310 FEL	J-34-18S-29E 2204 FSL 2310 FEL	Queen	2110	2110	
30-015-03494	MACK ENERGY CORP	FEATHERSTONE	#002	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	G	G-34-18S-29E 1650 FNL 2310 FEL	G-34-18S-29E 1650 FNL 2310 FEL	Queen	2107	2107	
30-015-03505	MACK ENERGY CORP	BRAINARD TRACT 3	#005	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	O	O-34-18S-29E Lot: 2 886 FSL 2315 FEL	O-34-18S-29E Lot: 2 886 FSL 2315 FEL	San Andres	2443	2443	
30-015-03558	RODNEY B WEBB DBA WEBB OIL CO	TURKEY TRACK SEC 3 UNIT	#001	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	B	B-03-19S-29E Lot: 2 660 FNL 1980 FEL	B-03-19S-29E Lot: 2 660 FNL 1980 FEL	San Andres	3272	3272	
30-015-23290	LEGACY RESERVES OPERATING, LP	EMPIRE 34 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	G	G-34-18S-29E 1980 FNL 1980 FEL	G-34-18S-29E 1980 FNL 1980 FEL	Morrow	11758	11758	
30-015-23750	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#024	Oil	Vertical	Plugged, Site Released	03	T19S	R29E	G	G-03-19S-29E 231 FNL 1710 FEL	G-03-19S-29E 231 FNL 1710 FEL	Grayburg	3000	3000	
30-015-03467	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	27	T18S	R29E	P	P-27-18S-29E 330 FSL 990 FEL	P-27-18S-29E 330 FSL 990 FEL	Queen	2207	2207	
30-015-03497	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	34	T18S	R29E	A	A-34-18S-29E 660 FNL 660 FEL	A-34-18S-29E 660 FNL 660 FEL	San Andres	2895	2895	

VII (4)

Permian Oilfield Partners, LLC.
 Stoeger 33 Federal SWD #1
 2227' FNL, 300' FEL
 Sec. 33, T18S, R29E, Eddy Co. NM
 Lat 32.7050878° N, Lon 104.0721526° W
 GL 3426', RKB 3456'

Regional Source Water Analysis				
Well Name	INDIAN FLATS BASS FEDERAL #002	COOTER 16 STATE COM #006H	DIAMOND PWU 22 #005H	ZINNIA BKC FEDERAL #001
API	3001521715	3001537876	3001540822	3001527939
Latitude	32.438549	32.123642	32.6514969	32.5462379
Longitude	-104.0594788	-103.9862061	-104.0702057	-104.0686035
Sec	35	16	22	27
Township	21S	25S	19S	20S
Range	28E	29E	29E	29E
Unit	F	O	D	E
Ftg NS	1980N	330S	725N	1980N
Ftg EW	1980W	1650E	330W	910W
County	EDDY	EDDY	EDDY	EDDY
State	NM	NM	NM	NM
Field				
Formation	DELAWARE	AVALON UPPER	BONE SPRING 1ST SAND	WOLFCAMP
pH	6.9	7	6.44	5.7
TDS_mgL	149252	193732	208209	189739
Sodium_mgL	48324.5	74027.8	75383.5	
Calcium_mgL	9906.47	513	3145.4	23920
Iron_mgL	3.285	104	35.2	0.3
Magnesium_mgL	2856.86	118	657.5	963.2
Manganese_mgL		1		
Chloride_mgL	99299	113441	127594	116724
Bicarbonate_mgL	267.18	1830		427
Sulfate_mgL	2081.59	2665	556.9	750
CO2_mgL	54.75	700	390	

VII (5)

Permian Oilfield Partners, LLC.
 Stoeger 33 Federal SWD #1
 2227' FNL, 300' FEL
 Sec. 33, T18S, R29E, Eddy Co. NM
 Lat 32.7050878° N, Lon 104.0721526° W
 GL 3426', RKB 3456'

Devonian Injection Zone Water Analysis			
Well Name	LEONARD ST 1 (A) #001	BIG EDDY UT #001	FED UNION #001
API	3001503537	3001502475	3001502416
Latitude	32.6839676	32.4421539	32.5527229
Longitude	-104.0347595	-104.0423050	-104.1623917
Sec	1	36	22
Township	19S	21S	20S
Range	29E	28E	28E
Unit	M	C	O
Ftg NS	610S	660N	330S
Ftg EW	660W	1980W	1650E
County	EDDY	EDDY	EDDY
State	NM	NM	NM
Field	N/A	N/A	N/A
Formation	DEVONIAN	DEVONIAN	DEVONIAN
Sample Source	DRILL STEM TEST	DRILL STEM TEST	DRILL STEM TEST
pH	N/A	N/A	6.8
TDS mgL	29,011	19,941	39,605
Chloride mgL	16,000	10,700	22,620
Bicarbonate mgL	520	640	810
Sulfate mgL	1,500	1,130	1,618



**Attachment to C-108
Permian Oilfield Partners, LLC
Stoeger 33 Federal SWD #1
2227' FNL & 300' FEL
Sec 33, T18S, R29E
Eddy County, NM**

July 11, 2023

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMTSO seismic activity databases shows no historic seismic activity >M2.0 in the area of interest (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well. There was one M2.6 event recorded 6.6 mi W of the proposed well in March 2022. This proposed well is not located within any current Seismic Response Area.

As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.7 miles away from the nearest active or permitted Devonian disposal well, the Santo Nino 29 Fed SWD #1, 30-015-42534.

Permian Oilfield Partners does not own any 2D or 3D seismic data in the area of this proposed SWD well. Our 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.

There are no known faults within the area of interest (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well. The distance from the proposed injection well to the nearest known fault is approximately 8.1 mi (13.1 km) WSW. A presumed extension to this known fault was added for modeling purposes to include the area of the seismic event from March 2022.

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 #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.
2. Permitted and/or active offset Devonian wells as noted in the table below are included in the FSP analysis.

UIC Order	Well Name	PLSS	Lat	Lon	Rate (bbl/day)
SWD-838-B	Duke AGI #1	7-18S-28E	32.7579231	-104.2125015	440
SWD-2351	State 19 #2	19-19S-28E	32.6409608	-104.2171088	20,000
SWD-2004	McCrae SWD #1	33-19S-28E	32.6236820	-104.1760940	17,244
SWD-2028	Northcott 24 SWD #1	24-19S-28E	32.6479840	-104.1287440	14,219
SWD-1419	Parkway West SWD #1	27-19S-29E	32.6354904	-104.0698929	7,060
SWD-1470	Santo Nino 29 Fed SWD #1	29-18S-30E	32.7204323	-103.9918213	3,792
SWD-2246	Guerrero 34 State #1	34-18S-28E	32.6996956	-104.1713104	11,000

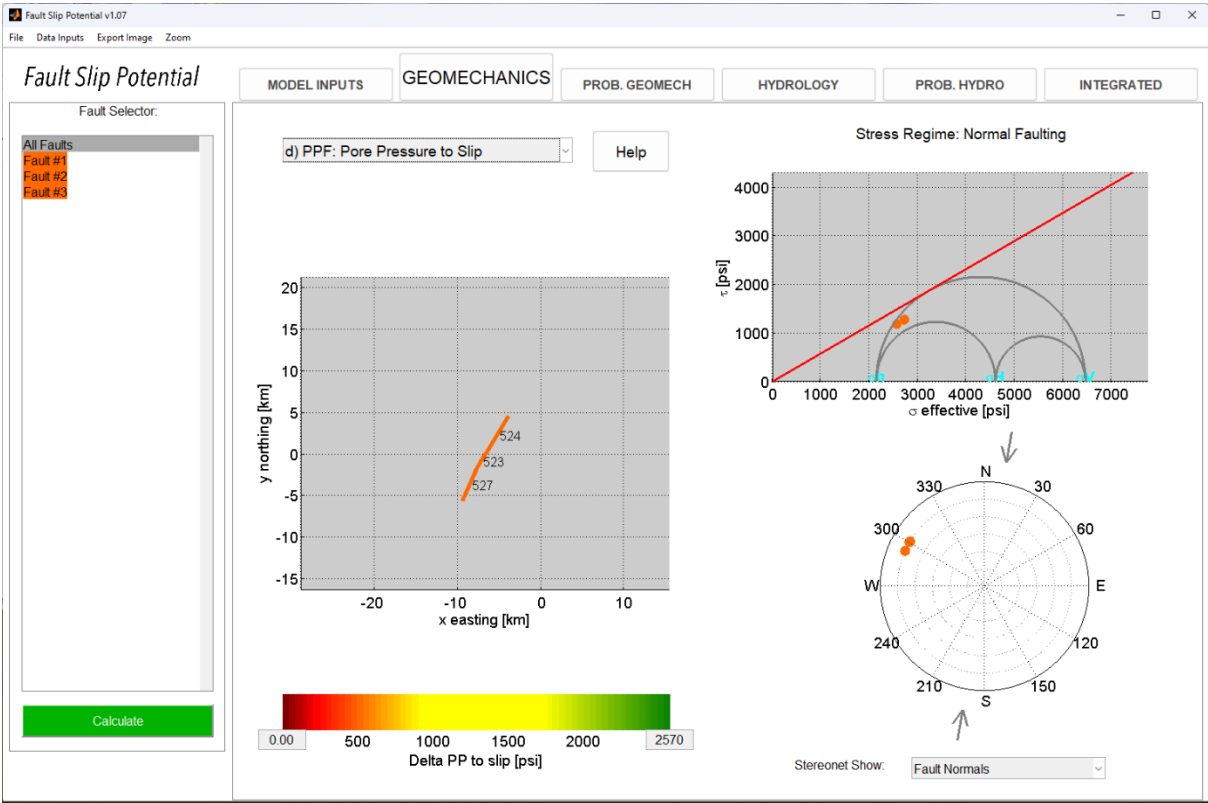
3. The probability of an induced seismic event is calculated to be 0% after 30 years as per the FSP results screenshots below.

Input assumptions:

Stoeger 33 Fed SWD rate (BBL/day)	50000
Interval height (ft)	768
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	10
Fault dip (deg)	75
Ref depth (ft)	12180
Initial res press gradient (psi/ft)	0.47
A phi	0.57
Friction coefficient	0.58
Weighted Average perm (mD)	25
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

Note: In screenshots below,
 Injection Well #1: Proposed Stoeger 33 SWD #1
 Injection Well #2: Duke AGI #1
 Injection Well #3: State 19 #2
 Injection Well #4: McCrae SWD #1
 Injection Well #5: Northcott 24 SWD #1
 Injection Well #6: Parkway West SWD #1
 Injection Well #7: Santo Nino 29 Fed SWD #1
 Injection Well #8: Guerrero 34 State #1

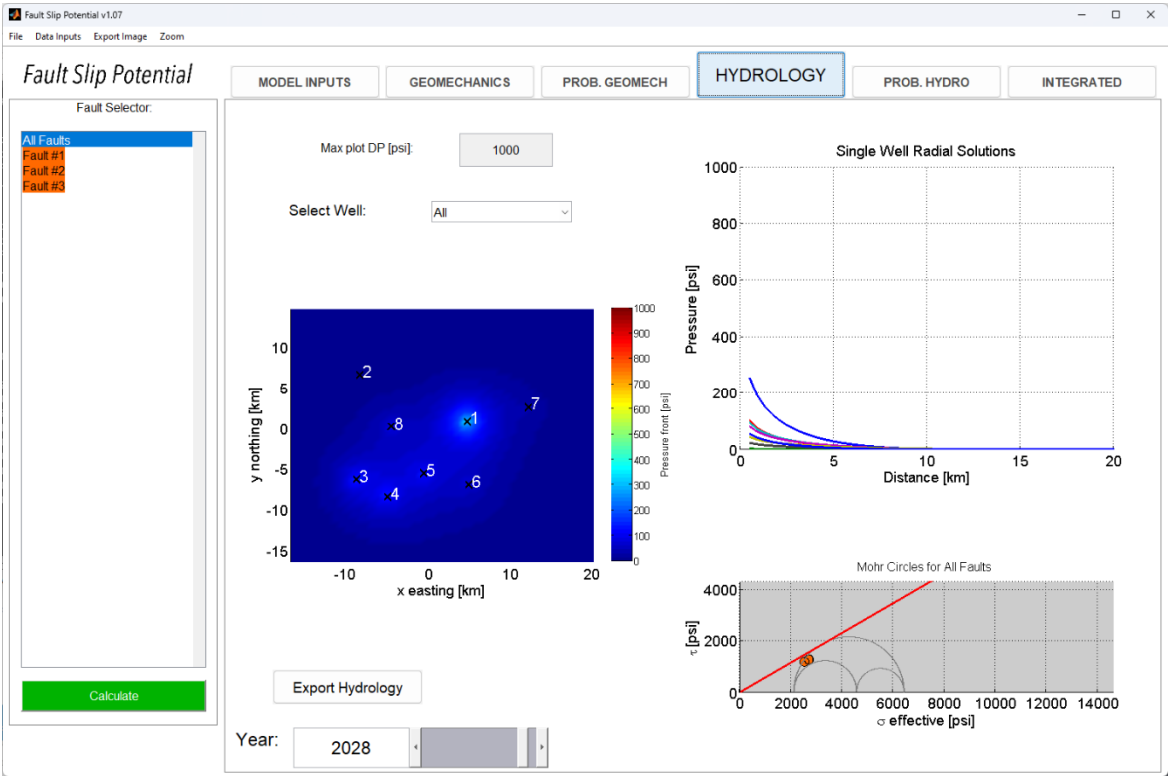
Geomechanics Pore Pressure to Slip



GeoMechanics Variability



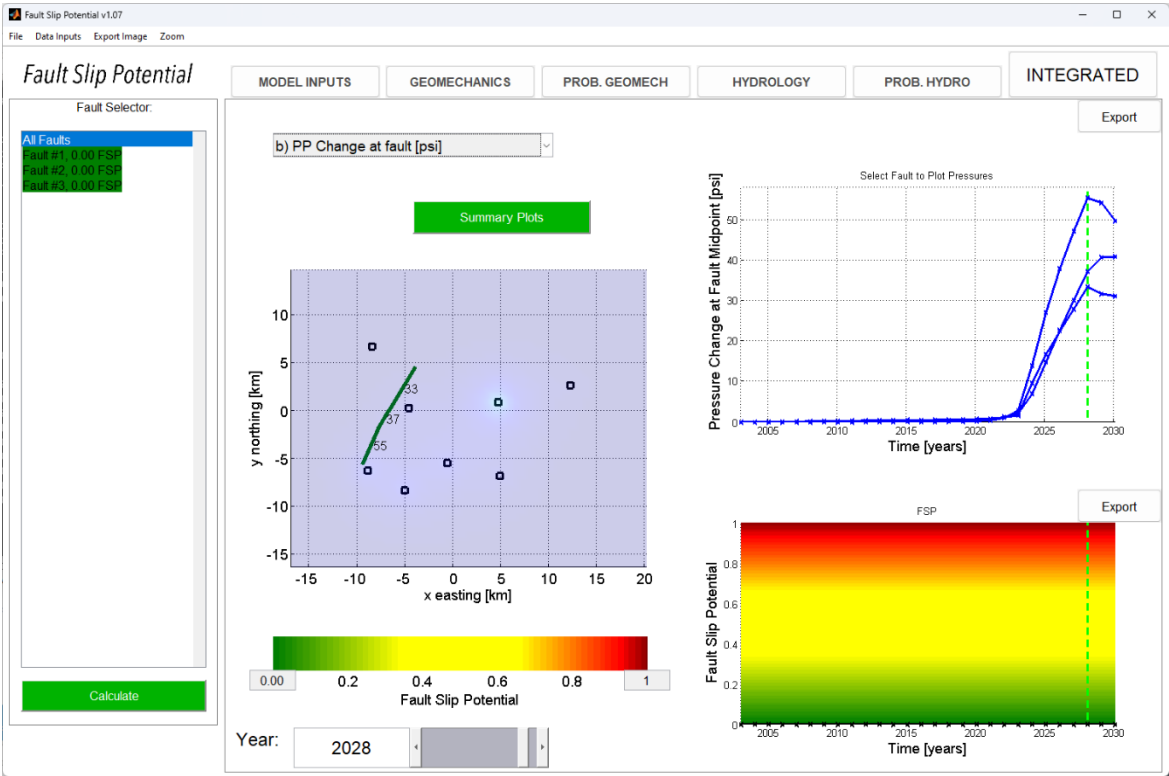
Year 5 Hydrology



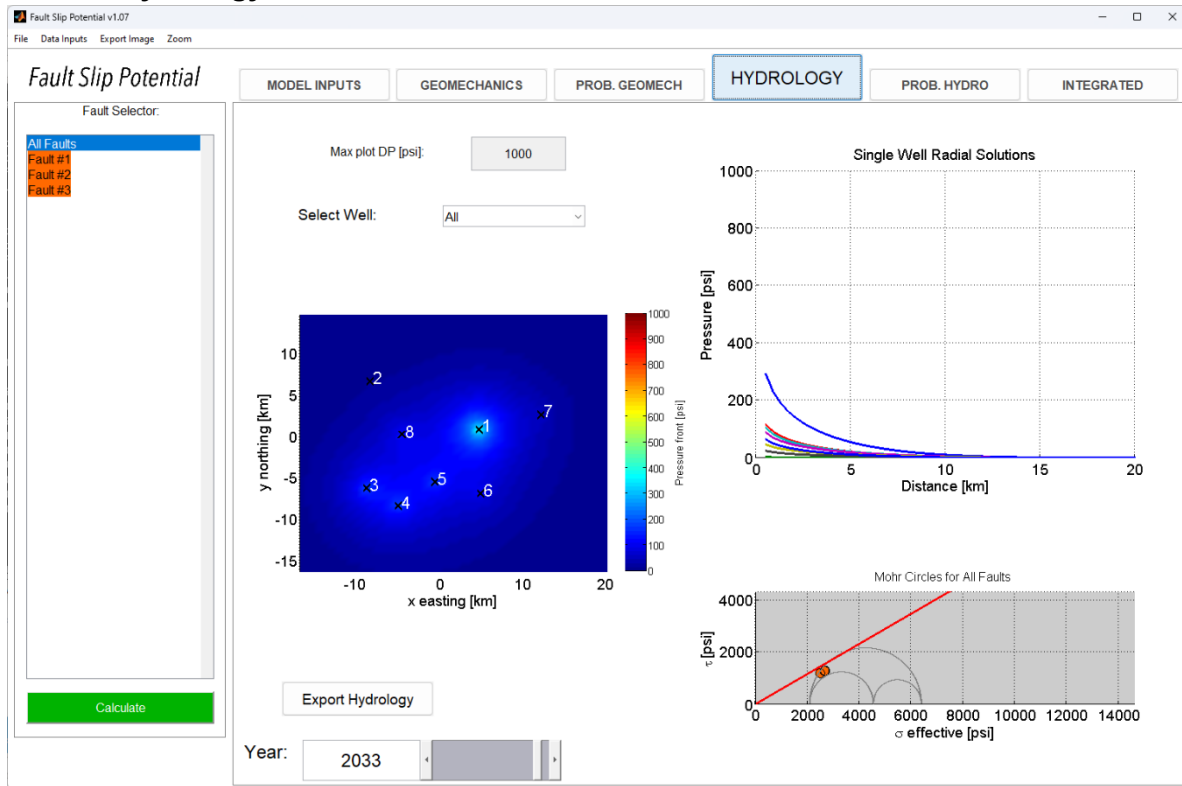
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



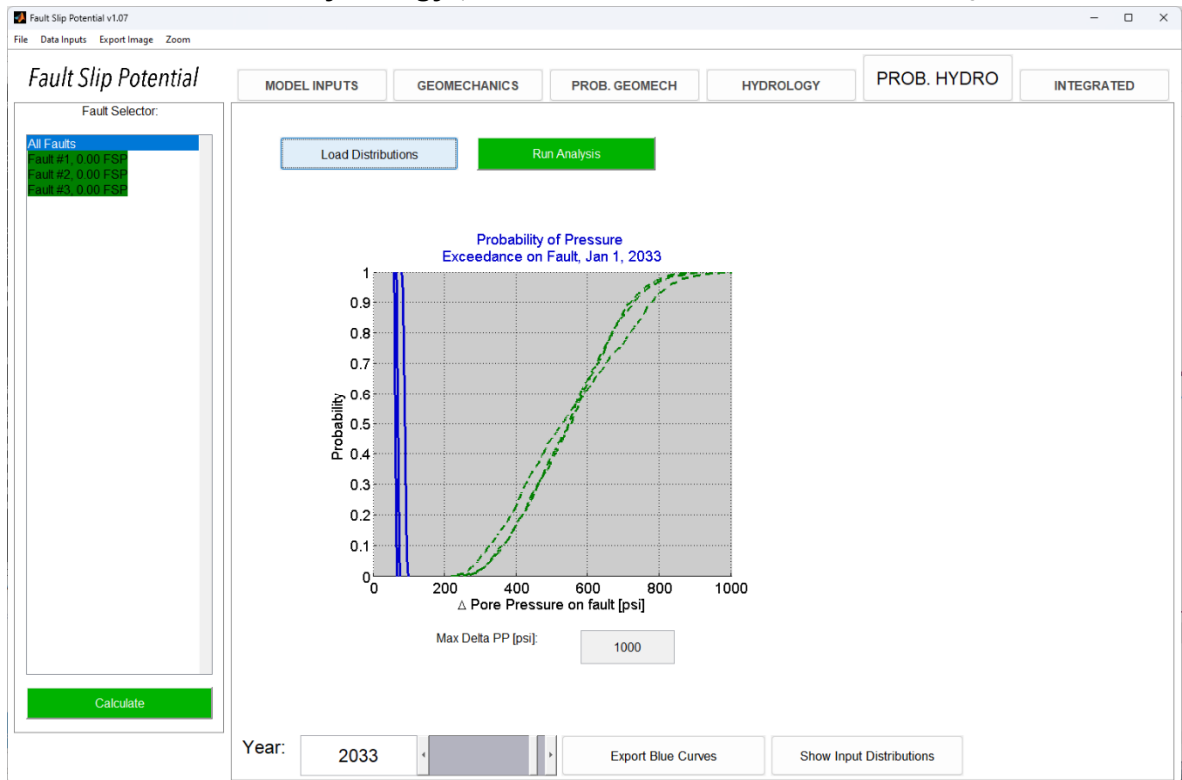
Year 5 Fault Slip Probability (0% after 5 years)



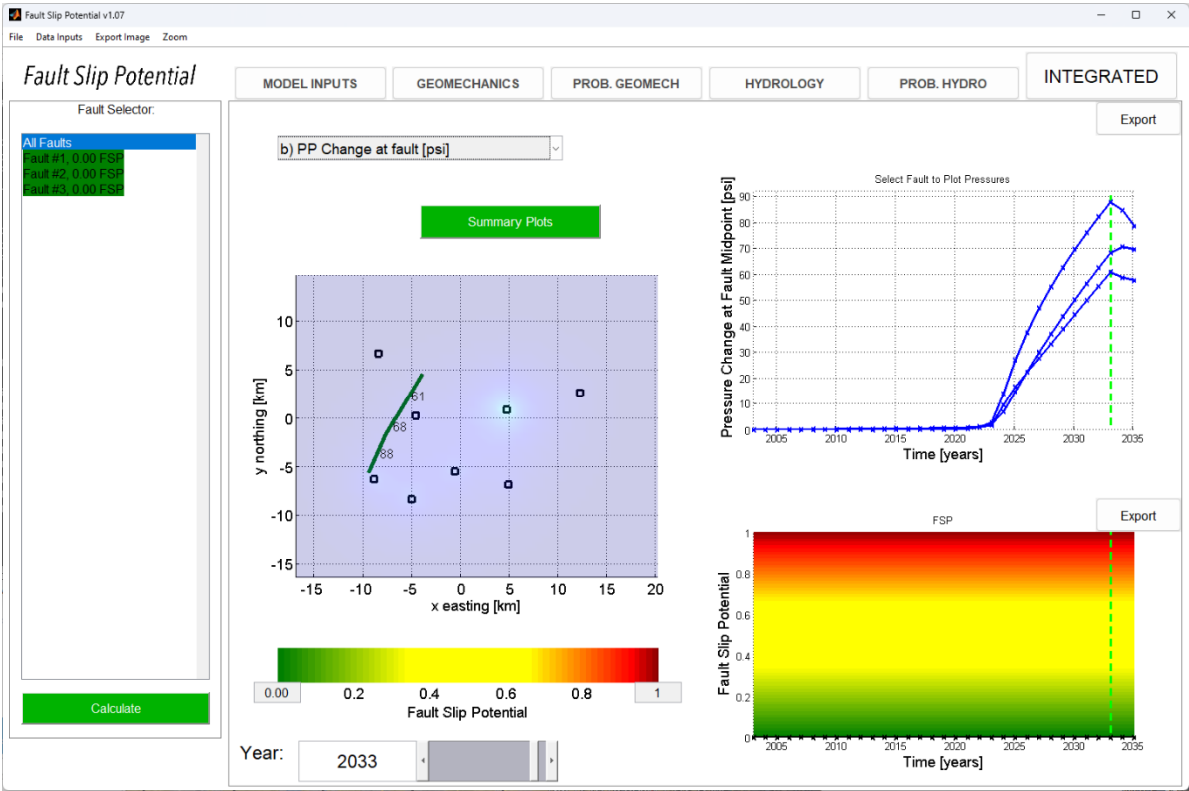
Year 10 Hydrology



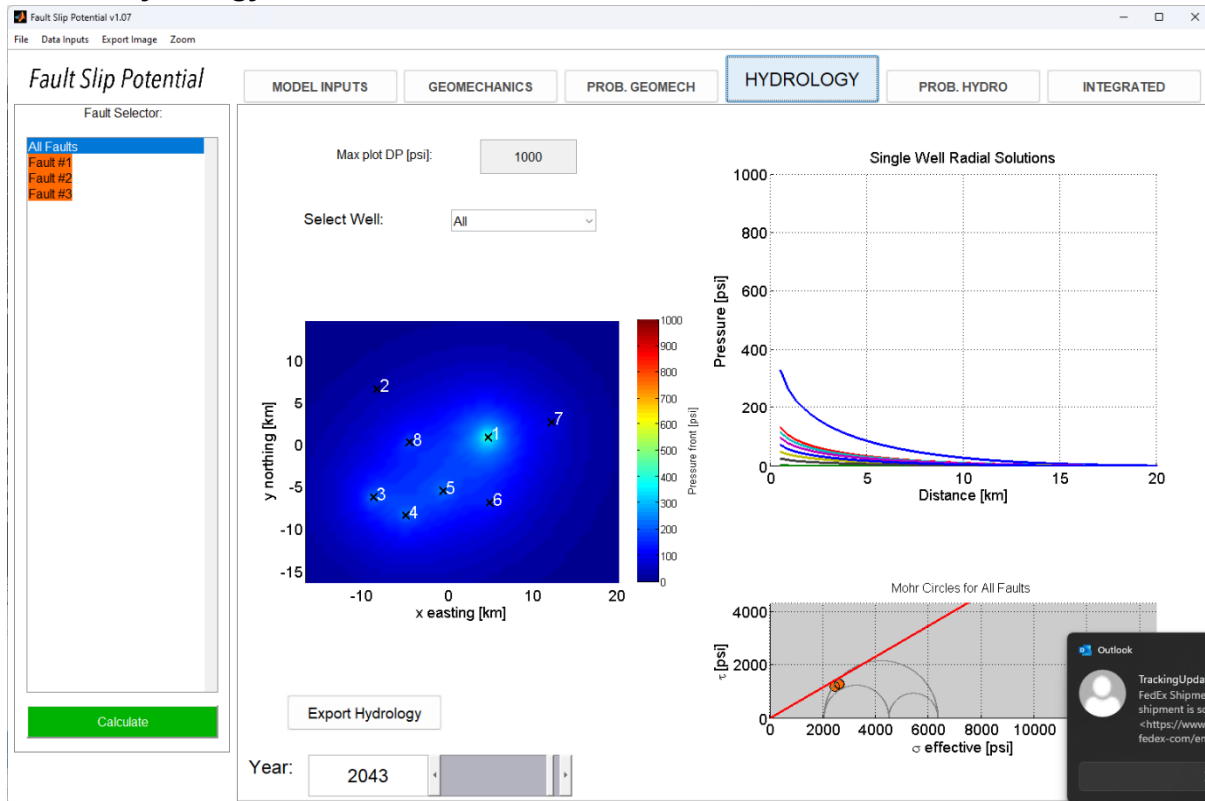
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



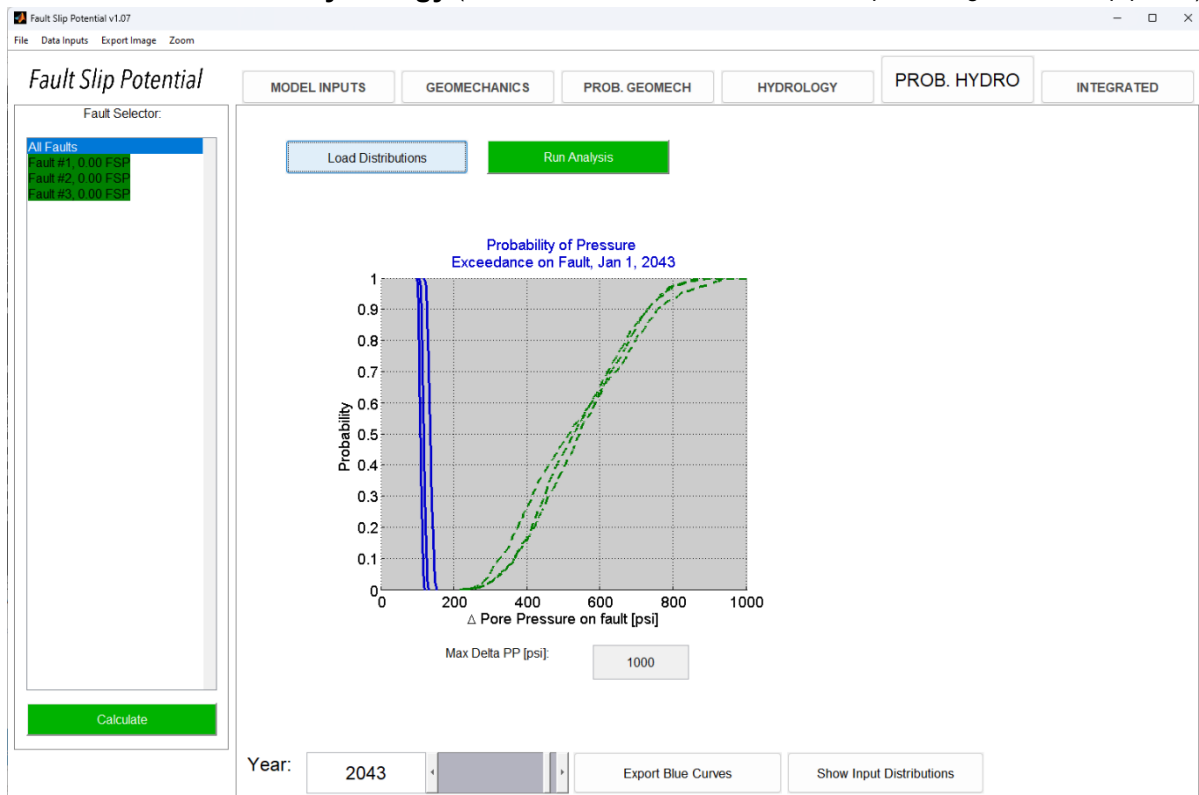
Year 10 Fault Slip Probability (0% after 10 years)



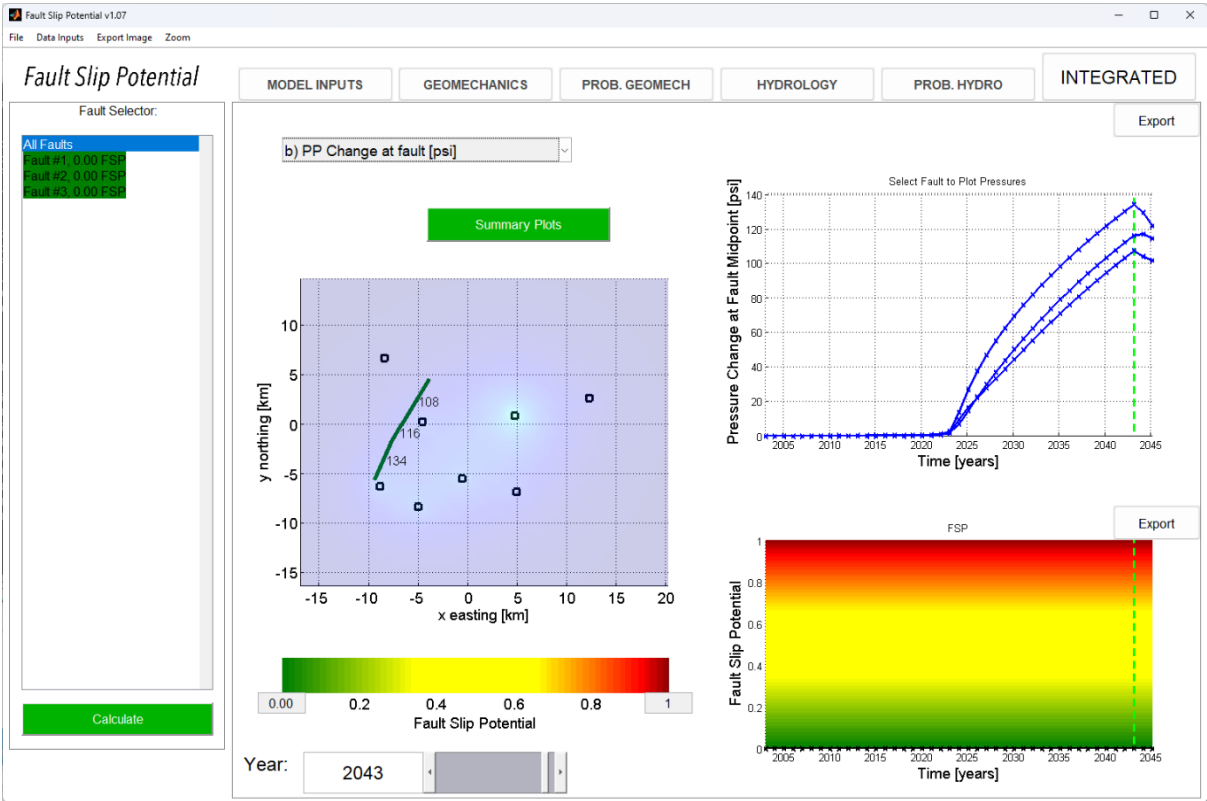
Year 20 Hydrology



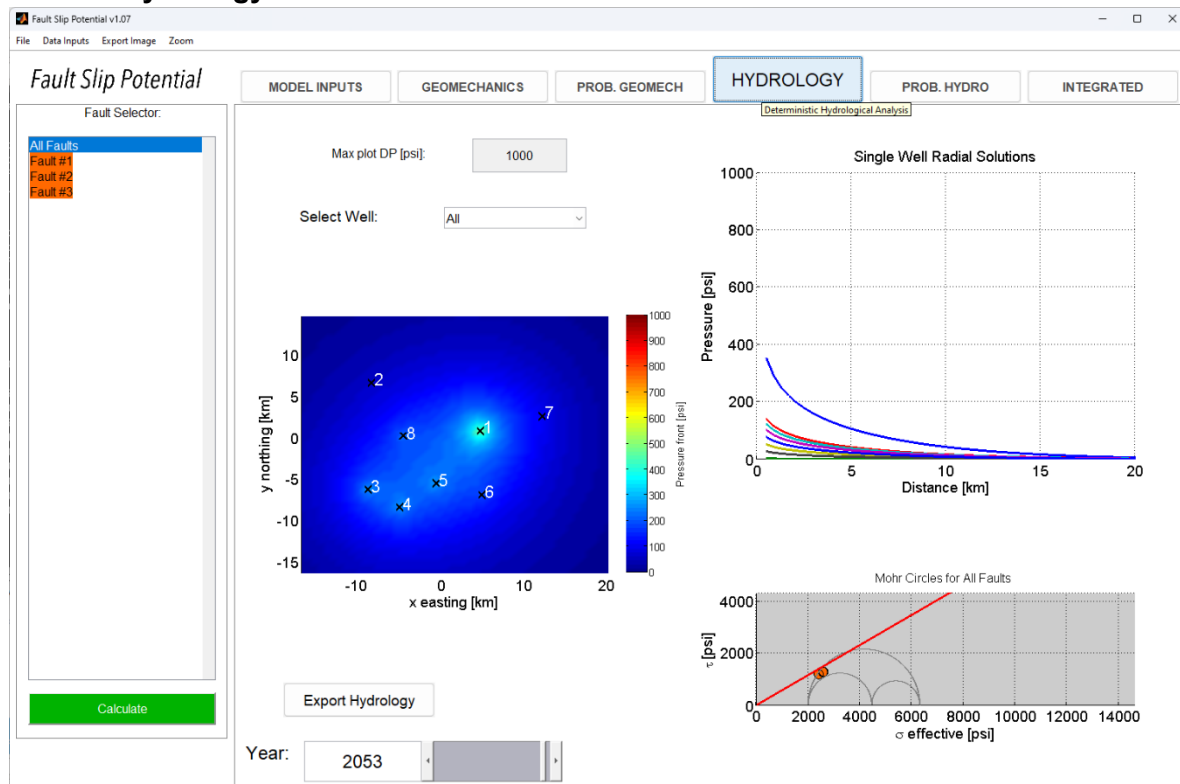
Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



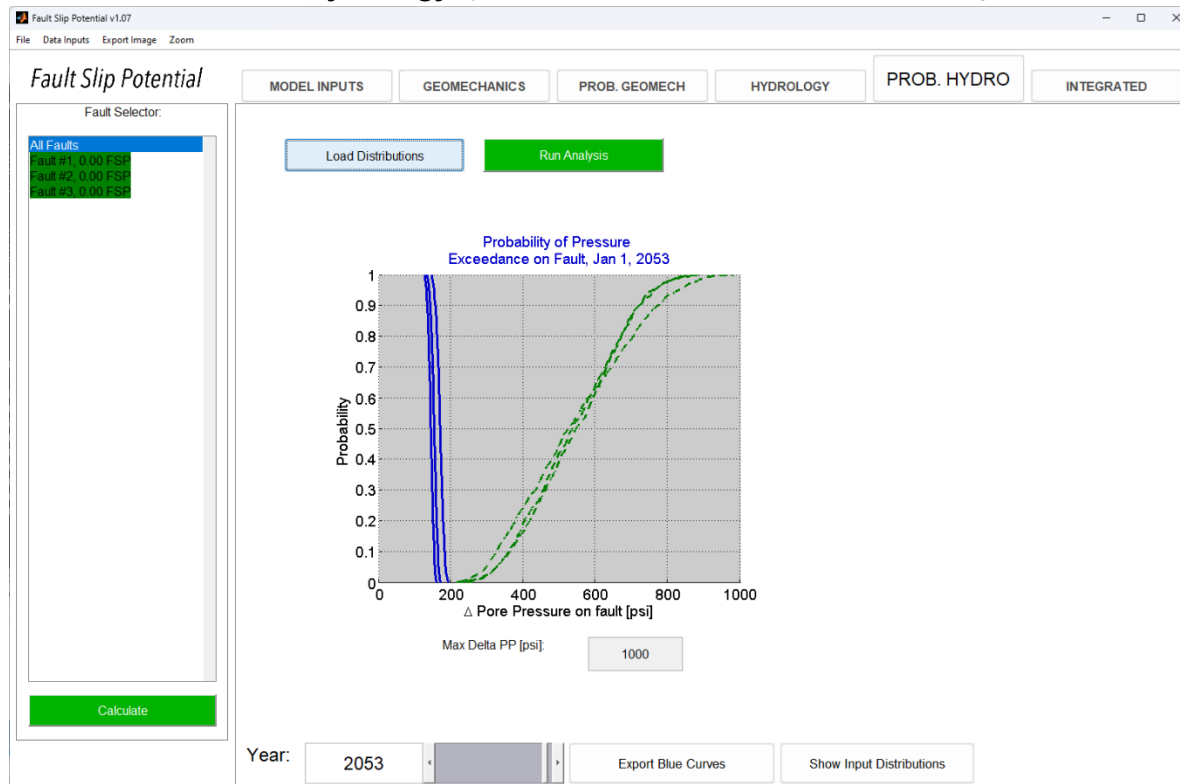
Year 20 Fault Slip Probability (0% after 20 years)

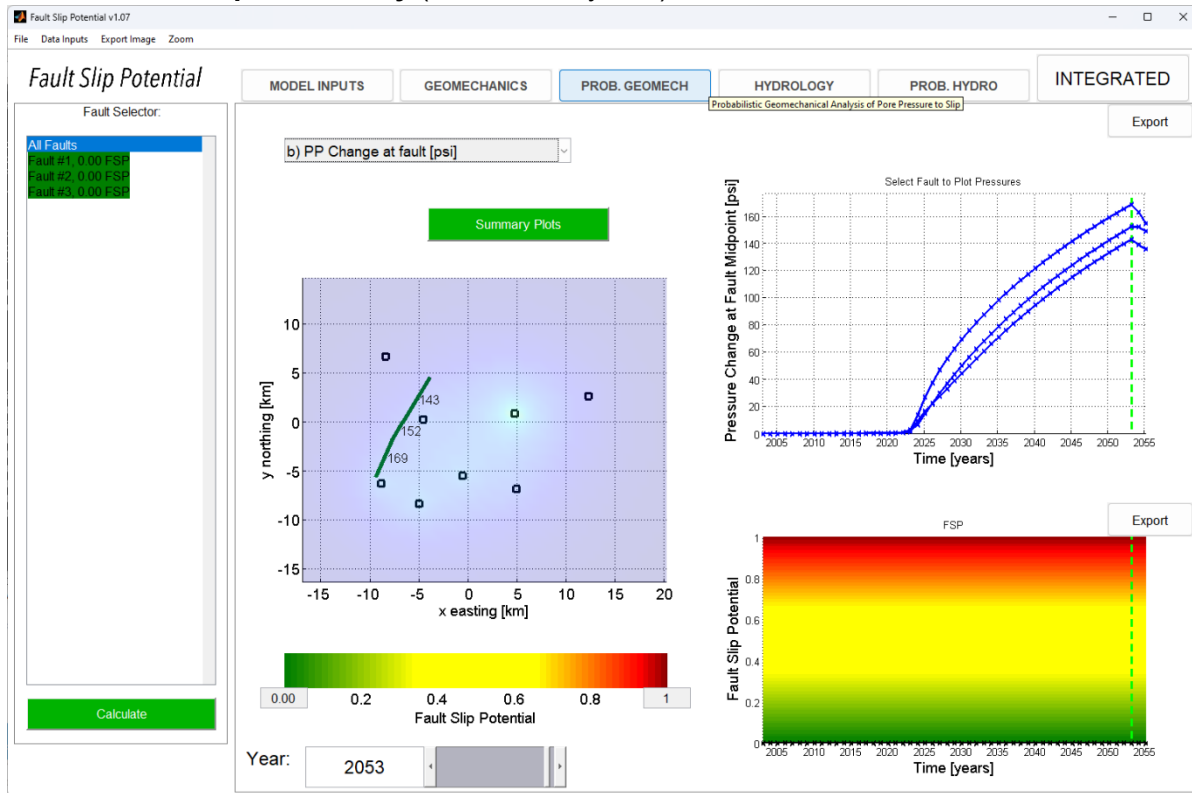


Year 30 Hydrology



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



Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject
Permian Oilfield Partners, LLC
Stoeger 33 Federal SWD #1
2227' FNL & 300' FEL
Sec 33, T18S, R29E
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: 7/11/2023



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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
CP 00582 POD1		CP	ED				24	18S	29E	591048	3622096*	150		
CP 00863		CP	ED	1	4	2	27	18S	29E	588341	3620768*	320		
CP 01618 POD1		CP	ED	3	4	2	29	18S	29E	585120	3620554	240	180	60

Average Depth to Water: **180 feet**

Minimum Depth: **180 feet**

Maximum Depth: **180 feet**

Record Count: 3

Basin/County Search:

County: Eddy

PLSS Search:

Township: 18S **Range:** 29E

*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.

7/11/23 1:54 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

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 263484

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 263484
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	9/9/2023