

AE Order Number Banner

Application Number: pMSG2319953455

SWD-2544

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: Beat the Punch Federal SWD #1 API: 30-025-Pending
 Pool: SWD; Devonian-Silurian Pool Code: 97869

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

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application Content Complete

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

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

Sean Puryear

Print or Type Name

Signature

7-5-2023

Date

817-600-8772

Phone Number

spuryear@popmidstream.com


e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Disposal**
Application qualifies for administrative approval? **Yes**
- II. OPERATOR: **Permian Oilfield Partners, LLC.**
ADDRESS: **P.O. Box 3329, Hobbs, NM 88241**
CONTACT PARTY: **Sean Puryear** PHONE: **(817) 600-8772**
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? **No.**
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: **Sean Puryear** TITLE: **Manager**
SIGNATURE:  DATE: **7-5-2023**
E-MAIL ADDRESS: **spuryear@popmidstream.com**
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III A: See attached wellbore diagram.

III B:

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

Overlying Potentially Productive Zones:

Delaware, Bone Spring, Wolfcamp, Strawn, Atoka & Morrow Tops all above 14,517'

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 2,910 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	1,263	1,530	267
Salado	1,530	3,074	1,544
Yates	3,074	3,487	413
Capitan Reef	3,487	4,636	1,149
Delaware	4,636	8,093	3,457
Bone Spring	8,093	11,091	2,998
Wolfcamp	11,091	12,075	984
Mississippi Lm.	13,791	14,377	586
Woodford	14,377	14,517	140
Devonian	14,517	15,287	770
Fusselman (Silurian)	15,287	15,595	308
Montoya (U. Ordovician)	15,595	15,945	350
Simpson (M. Ordovician)	15,945	16,345	400

2. Regional shallow fresh water in the Quaternary is known to exist at depths less than 850'. See attached OSE Water Column Depth tables for the region. Depth from the bottom of this USDW to the injection zone is 13,667'. There is a deeper potential USDW in the Capitan Reef formation. Depth from the bottom of this potential USDW to the injection zone is 9,881'. There is no USDW present below the injection interval.
- IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X:** A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI:** According to the New Mexico Office of the State Engineer, there are 0 fresh water wells within the proposed well's one-mile area of review. See attached 1 mile AOR water well map showing no active PODs in the AOR.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 97869	³ Pool Name SWD; DEVONIAN–SILURIAN
⁴ Property Code	⁵ Property Name BEAT THE PUNCH FEDERAL SWD		⁶ Well Number 1
⁷ OGRID NO. 328259	⁸ Operator Name PERMIAN OILFIELD PARTNERS, LLC		⁹ Elevation 3571'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
A	25	20S	32E		798	NORTH	128	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

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

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

S 89°36'03" W 5297.20'

N 00°17'31" W 2636.32'

16

D
798'
S.L.
128'

GEODETTIC DATA

NAD 83 GRID — NM EAST

SURFACE LOCATION

N: 564089.3 — E: 732927.5

LAT: 32.5492009° N
LONG: 103.7115475° W

CORNER DATA

NAD 83 GRID — NM EAST

A: FOUND BRASS CAP "1943"
N: 559581.3 — E: 727784.0

B: FOUND BRASS CAP "1943"
N: 562215.4 — E: 727769.0

C: FOUND BRASS CAP "1943"
N: 564851.1 — E: 727755.5

D: FOUND BRASS CAP "1943"
N: 564888.0 — E: 733051.4

E: FOUND BRASS CAP "1943"
N: 562245.8 — E: 733064.9

F: FOUND BRASS CAP "1943"
N: 559600.2 — E: 733078.5

G: FOUND BRASS CAP "1943"
N: 559591.1 — E: 730424.2

25

E
N 00°17'33" W 2642.80'
N 00°17'35" W 2646.21'

C

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JX

JY

III (A)

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
 Beat The Punch Federal SWD #1
 798' FNL, 128' FEL
 Sec. 25, T20S, R32E, Lea Co. NM Lat
 32.5492009° N, Lon -103.7115475° W
 GL 3571', RKB 3601'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1288'
 Cement: 1203 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 18.5" Casing: 16" - 75# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 3437'
 Cement: 1046 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 14.75" Casing: 13.375" - 68# HCP-110 FJ Casing
 Depth Top: Surface
 Depth Btm: 4661' ECP/DV Tool: 3537'
 Cement: 712 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #3 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 11141' ECP/4761'
 Cement: 1814 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #4 - (Liner)

Hole Size: 8.5" Casing: 7.625" - 39# HCL-80 FJ Casing"
 Depth Top: 10941'
 Depth Btm: 14552'
 Cement: 233 sks - Class H + Additives
 Cement Top: 10941' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5" Depth: 15570'
 Inj. Interval: 14552' - 15570' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14507' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ
 X/O Depth: 10941' Casing (Fiberglass Lined)
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14517' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives

III (A)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
 Beat The Punch Federal SWD #1
 798' FNL, 128' FEL
 Sec. 25, T20S, R32E, Lea Co. NM
 Lat 32.5492009° N, Lon -103.7115475°
 W GL 3571', RKB 3601'

Surface - (Conventional)

Hole Size: 26"
 Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1288'
 Cement: 1203 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 18.5"
 Casing: 16" - 75# J-55 BTC Casing
 Depth Top: Surface
 Depth Btm: 3437'
 Cement: 1046 sks - Class C + Additives
 Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 14.75"
 Casing: 13.375" - 68# HCP-110 FJ Casing
 Depth Top: Surface
 Depth Btm: 4661'
 Cement: 712 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 3537'

Intermediate #3 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 11141'
 Cement: 1814 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 4761'

Intermediate #4 - (Liner)

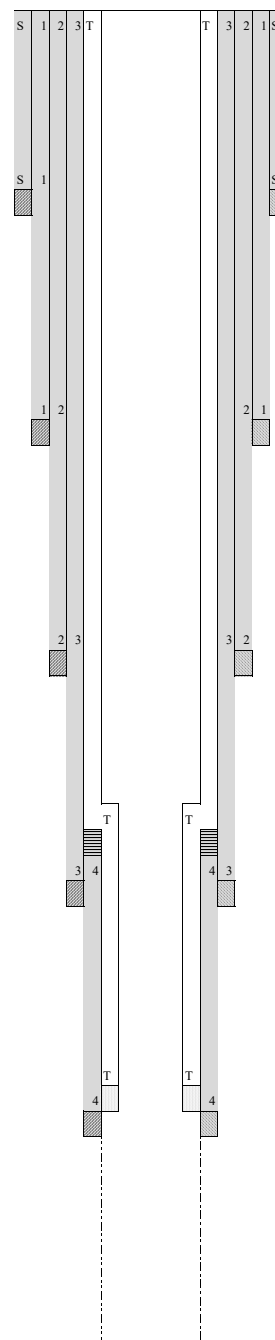
Hole Size: 8.5"
 Casing: 7.625" - 39# HCL-80 FJ Casing"
 Depth Top: 10941'
 Depth Btm: 14552'
 Cement: 233 sks - Class H + Additives
 Cement Top: 10941' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5"
 Depth: 15570'
 Inj. Interval: 14552' - 15570' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14507'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10941'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14517'
 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
 Beat The Punch Federal SWD #1
 798' FNL & 128' FEL
 Sec 25, T20S, R32E
 Lea County, NM

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

Beat the Punch 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
ADVANCE ENERGY PARTNERS HAT MESA LLC	11490 Westheimer Rd	Houston, TX 77077	USPS	9414811899562232594714	7/10/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562232594912	7/10/2023
CHEVRON MIDCONTINENT, L.P.	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562232594981	7/10/2023
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562232594691	7/10/2023
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562232594165	7/10/2023
EARTHSTONE PERMIAN LLC	1501 S MOPAC Expy Ste 220	Austin, TX, 78746	USPS	9414811899562232594172	7/10/2023
EOG RESOURCES INC	P.O. Box 2267	Midland, TX 79702	USPS	9414811899562232594356	7/10/2023
EXXON MOBIL	5959 Las Colinas Boulevard	Irving, Texas 75039	USPS	9414811899562232594349	7/10/2023
FASKEN LAND & MINERALS LTD	303 West Wall Ave Ste 1800	Midland, TX 79701	USPS	9414811899562232594011	7/10/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562232594073	7/10/2023
Petroleum Exploration Company Ltd., Limited	P.O. Box 548	Breckenridge, TX 76424	USPS	9414811899562232594424	7/10/2023
RUBICON OIL & GAS I LP	400 W Illinois Ave	Midland TX 79701	USPS	9414811899562232594479	7/10/2023
TITUS OIL & GAS CORP	420 Throckmorton St Suite 1150	Fort Worth, TX 76102	USPS	9414811899562232594592	7/10/2023
VYXOIL LLC	PO BOX 5492	Santa Barbara, CA 93150	USPS	9414811899562232594530	7/10/2023
XTO DELAWARE BASIN LLC	22777 Springwoods Village Pkwy Ste 126	Spring, TX 77389	USPS	9414811899562232595261	7/10/2023

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

Date: 7/10/2023

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

ARTICLE NUMBER: 9414 8118 9956 2232 5947 14

ARTICLE ADDRESSED TO:

Advance Energy Partners Hat MesaLLC
11490 WESTHEIMER RD STE 950
HOUSTON TX 77077-6841

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

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

ARTICLE NUMBER: 9414 8118 9956 2232 5949 12

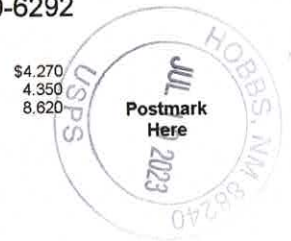
ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

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

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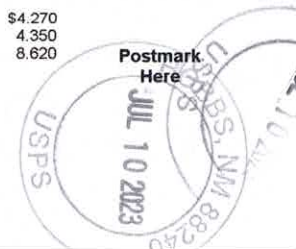
ARTICLE ADDRESSED TO:

Chevron Midcontinent, LP
6301 DEAUVILLE
MIDLAND TX 79706-2964

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

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4.350
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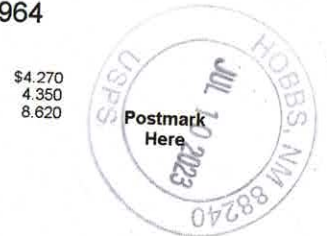
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Chevron USA
6301 DEAUVILLE
MIDLAND TX 79706-2964

FEES

Postage Per Piece
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Total Postage & Fees:

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

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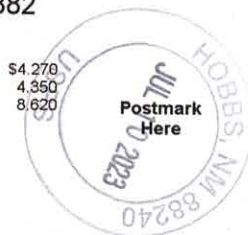
ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

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

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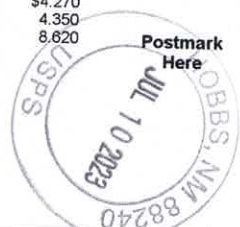
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Earthstone Permian LLC
1501 S MOPAC EXPY STE 220
AUSTIN TX 78746-7683

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620



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

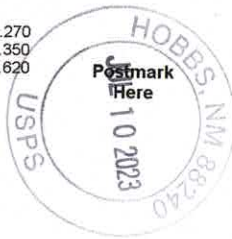
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ARTICLE ADDRESSED TO:

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

FEES

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

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

ARTICLE NUMBER: 9414 8118 9956 2232 5943 49

ARTICLE ADDRESSED TO:

ExxonMobil Oil Corp
5959 LAS COLINAS BLVD
IRVING TX 75039-4202

FEES

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

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

ARTICLE NUMBER: 9414 8118 9956 2232 5940 11

ARTICLE ADDRESSED TO:

Fasken Land & Minerals Ltd
303 W WALL ST STE 1800
MIDLAND TX 79701-5106

FEES

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

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

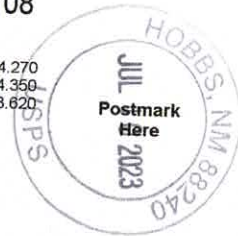
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New Mexico State Land Office
310 OLD SANTA FE TRL
SANTA FE NM 87501-2708

FEES

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Total Postage & Fees:	8.620

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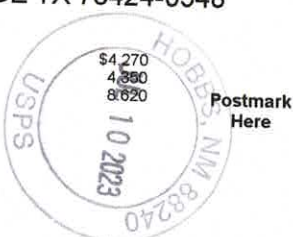
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ARTICLE ADDRESSED TO:

Petroleum Exploration Co. Ltd., LP
PO BOX 548
BRECKENRIDGE TX 76424-0548

FEES

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

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

ARTICLE NUMBER: 9414 8118 9956 2232 5944 79

ARTICLE ADDRESSED TO:

Rubicon Oil & Gas I LP
400 W ILLINOIS AVE STE 1210
MIDLAND TX 79701-4310

FEES

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



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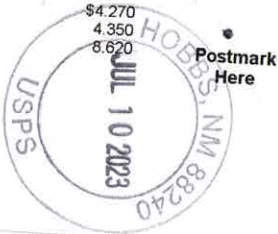
ARTICLE ADDRESSED TO:

Titus Oil & Gas Corp
420 THROCKMORTON ST STE 1150
FORT WORTH TX 76102-3761

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

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

ARTICLE NUMBER: 9414 8118 9956 2232 5945 30

ARTICLE ADDRESSED TO:

VYXOIL LLC
PO BOX 5492
SANTA BARBARA CA 93150-5492

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

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

ARTICLE NUMBER: 9414 8118 9956 2232 5952 61

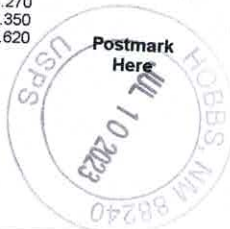
ARTICLE ADDRESSED TO:

XTO Delaware Basin LLC
22777 SPRINGWOODS VILLAGE PKWY STE 126
SPRING TX 77389-1425

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$4.270
4.350
8.620

Postmark
Here

XIII.

Affidavit of PublicationSTATE OF NEW MEXICO
COUNTY OF LEA

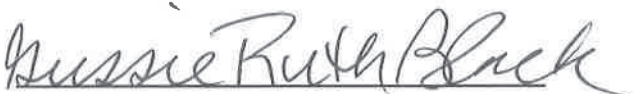
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

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



Publisher

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

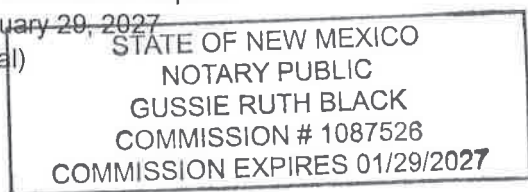


Business Manager

My commission expires

January 29, 2027

(Seal)



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

**LEGAL NOTICE
May 26, 2023**

Permian Oilfield Partners, LLC, PO Box 3329, Hobbs, NM 88241, phone (817)606-7630, attn. Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial salt water disposal well in Lea County, New Mexico. The proposed well is the Beat The Punch Federal SWD #1, and is located 798' FNL & 128' FEL, Unit A, Section 25, Township 20 South, Range 32 East, NMPM, approximately 26 mi WSW of Monument, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 14,552 feet to 15,570 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,910 psi.

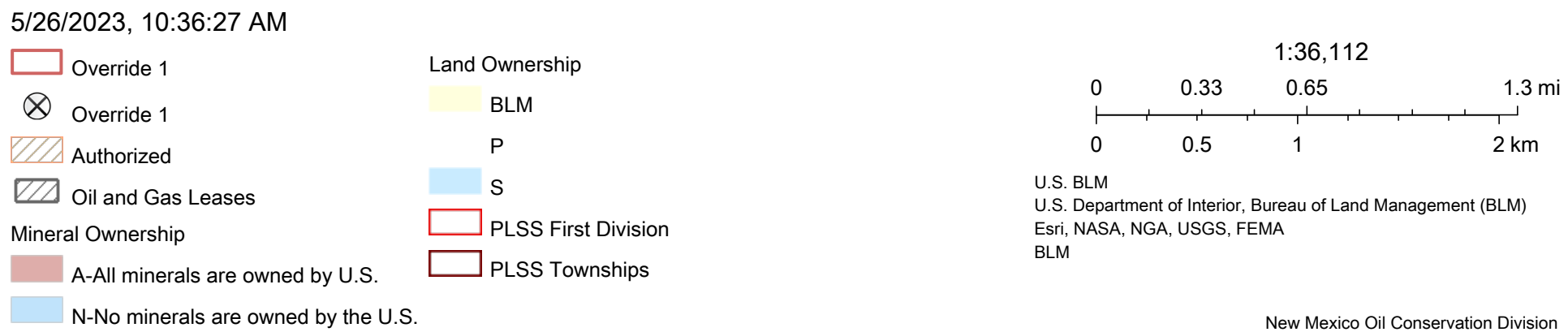
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#00278992

67115647

00278992

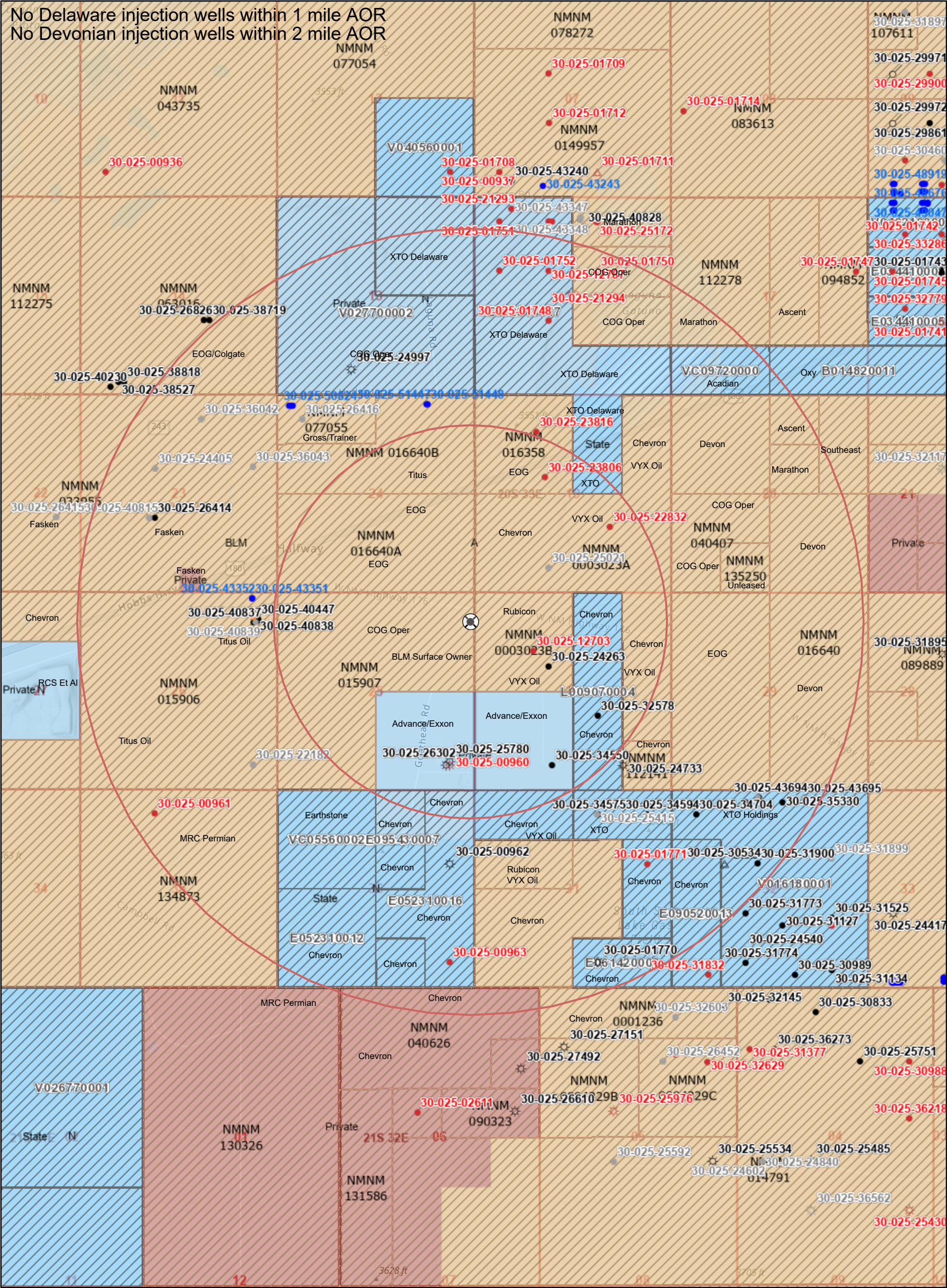
GARY FISHER
PERMIAN OILFIELD PARTNERS, LLC
PO BOX 3329
HOBBS, NM 88241

Beat The Punch Federal SWD #1, 1 & 2 Mi AOR, Leases



V (b)

Beat The Punch Federal SWD #1, 1 & 2 Mi AOR, Wells



5/26/2023, 10:37:39 AM

Override 1

Override 1

Wells - Large Scale

Gas, Active

Gas, Cancelled

Gas, Plugged

Injection, Active

Injection, Plugged

Oil, Active

Oil, Cancelled

Oil, New

Oil, Plugged

Oil, Temporarily Abandoned

Salt Water Injection, Active

Salt Water Injection, Plugged

Water, Active

Authorized

Oil and Gas Leases

Mineral Ownership

A-All minerals are owned by U.S.

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

Land Ownership

BLM

P

1:36,112

00.330.651.3

00.512

U.S. BLM

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

Esri, NASA, NGA, USGS, FEMA

Oil Conservation Division of the New Mexico Energy, Minerals and

New Mexico Oil Conservation Division

Released to Imaging: 7/18/2023 2:57:28 PM

V (c)

Beat the Punch Federal SWD #1 - Wells Within 1 Mile Area of Review															
API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCD Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TVD
30-025-26302	Petroleum Exploration Company Ltd., LP	FELMONT FEDERAL COM	#002	Gas	Directional	Active	25	T20S	R32E	P	P-25-20S-32E 660 FSL 760 FEL	N-25-20S-32E 1194 FSL 1659 FWL	ATOKA	14417	13612
30-025-25780	COG OPERATING LLC	FELMONT FED	#001	Gas	Vertical	Active	25	T20S	R32E	G	G-25-20S-32E 760 FSL 660 FEL	G-25-20S-32E 760 FSL 660 FEL	MORROW	14150	14150
30-025-00960	CHEVRON U S A INC	USA LITTLE EDDY UNIT	#001	Gas	Vertical	Plugged, Site Released	25	T20S	R32E	P	P-25-20S-32E 660 FSL 660 FEL	P-25-20S-32E 660 FSL 660 FEL	MORROW	16600	16600
30-025-12703	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	30	T20S	R33E	F	F-30-20S-33E 1570 FNL 1570 FWL	F-30-20S-33E 1570 FNL 1570 FWL	YATES	3705	3705
30-025-23806	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	19	T20S	R33E	F	F-19-20S-33E 2205 FNL 1880 FWL	F-19-20S-33E 2205 FNL 1880 FWL	YATES	3158	3158
30-025-25021	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	Vertical	Cancelled Apd	19	T20S	R33E	N	N-19-20S-33E 660 FSL 1980 FWL	N-19-20S-33E 660 FSL 1980 FWL	MORROW	13600	13600
30-025-24263	CHEVRON MIDCONTINENT, L.P.	BASS FEDERAL	#001	Oil	Vertical	Active	30	T20S	R33E	F	F-30-20S-33E 1980 FNL 1980 FWL	F-30-20S-33E 1980 FNL 1980 FWL	DELAWARE	13600	13600
30-025-34550	CHEVRON MIDCONTINENT, L.P.	BASS	#005	Oil	Vertical	Active	30	T20S	R33E	N	N-30-20S-33E 660 FSL 2080 FWL	N-30-20S-33E 660 FSL 2080 FWL	DELAWARE	8300	8300
30-025-32578	CHEVRON MIDCONTINENT, L.P.	BASS	#003	Oil	Vertical	Active	30	T20S	R33E	J	J-30-20S-33E 1980 FSL 1980 FEL	J-30-20S-33E 1980 FSL 1980 FEL	DELAWARE	8300	8300
30-025-34383	CHEVRON MIDCONTINENT, L.P.	BASS	#004	Oil	Vertical	Active	30	T20S	R33E	G	G-30-20S-33E 1700 FNL 1815 FEL	G-30-20S-33E 1700 FNL 1815 FEL	DELAWARE	8300	8300
30-025-22832	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	19	T20S	R33E	J	J-19-20S-33E 1750 FSL 1650 FEL	J-19-20S-33E 1750 FSL 1650 FEL	YATES	3298	3298

VII (4)

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

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

VII (5)

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

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



**Attachment to C-108
Permian Oilfield Partners, LLC
Beat The Punch Federal SWD #1
798' FNL & 128' FEL
Sec 25, T20S, R32E
Lea County, NM**

June 10, 2023

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMT seismic activity databases shows minimal historic seismic activity $>M2.0$ in the area (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, with one $M2.1$ magnitude event recorded 5.5 mi ESE of the proposed well in November 2020. This proposed well is not located within any current Seismic Response Area.

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

1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
2. Basement faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
3. Fault data was also correlated to the publicly available USGS GIS geologic units & structural features database, the NMOCD SWD Applications & Fault Map dated 02/14/2022, to the B3 Insights proprietary faults database, and to fault maps as published in the New Mexico Geological Society Special Publication 13A, "Energy and Mineral Resources of New Mexico: Petroleum Geology," by R. F. Broadhead, 2017.
4. The distance from the proposed injection well to the nearest known fault is approximately 10.5 mi (16.9 km). This fault depth is believed to be in the PreCambrian, well below the Devonian-Silurian injection interval, and separated vertically by the presence of the Montoya, Simpson and Ellenburger formations.
5. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from

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

6. As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.2 miles away from the nearest active or permitted Devonian disposal well, the Permian TDS Coombes SWD #1, SWD-1996. There is another active Devonian disposal well 8.7 miles to the East, the Fasken Quail 16 State SWD #9, SWD-1537. Both of these wells are included in the below FSP analysis.
7. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

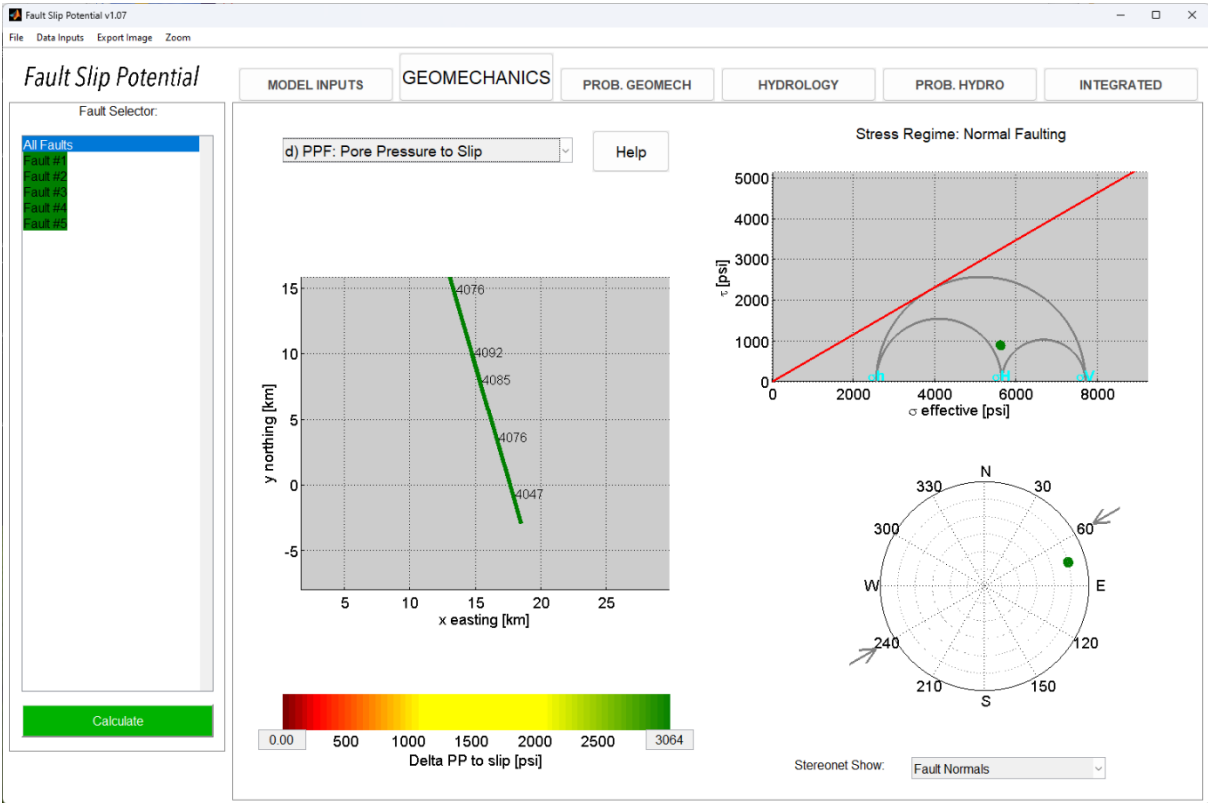
Input assumptions:

Beat The Punch Fed SWD rate (BBL/day)	50000
Fasken Quail 16 SWD #9 rate (BBL/day)	1800
Permian TDS Coombes SWD rate (BBL/day)	30000
Interval height (ft)	1078
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14517
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	19.3
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

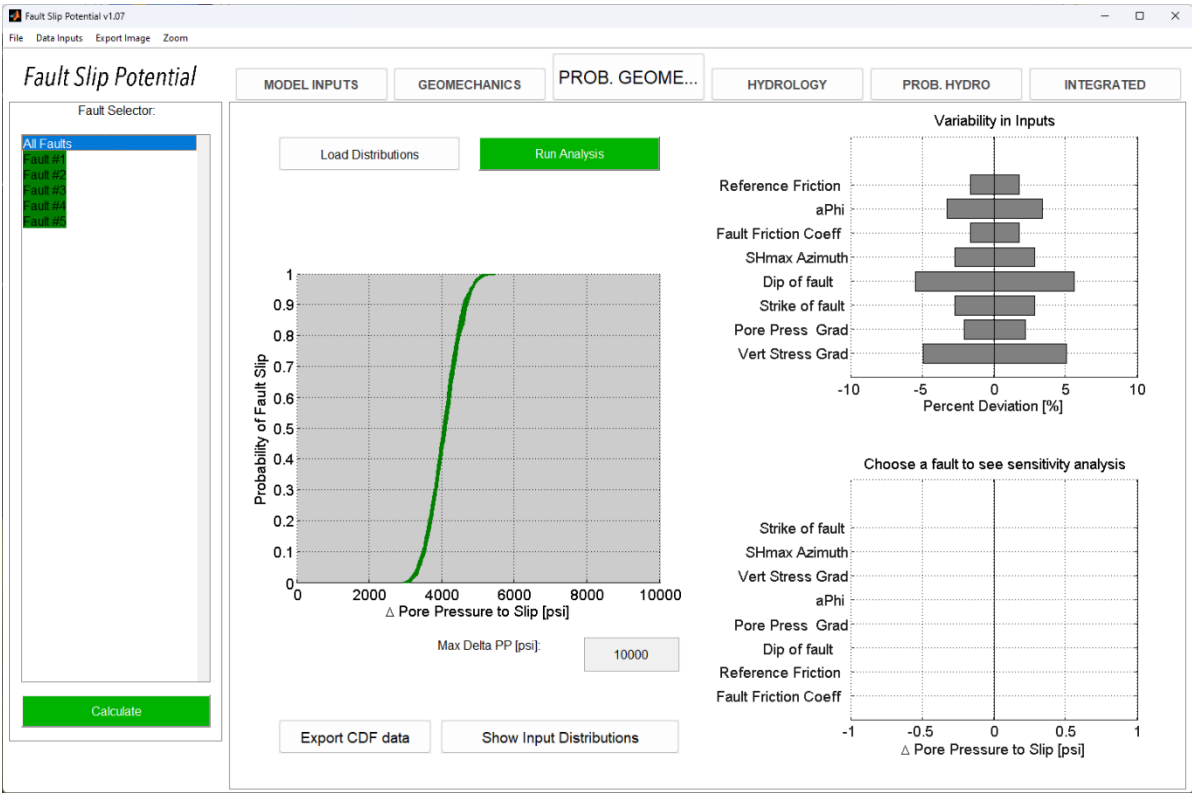
Note:

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

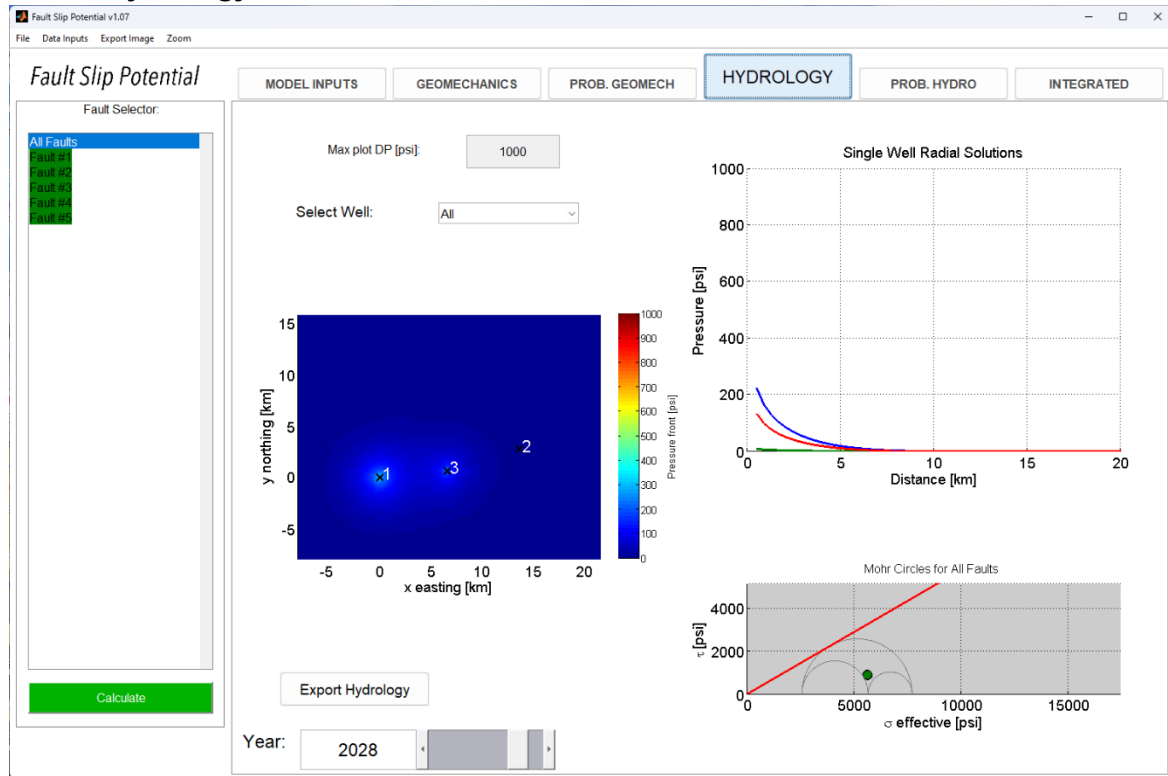
Geomechanics Pore Pressure to Slip



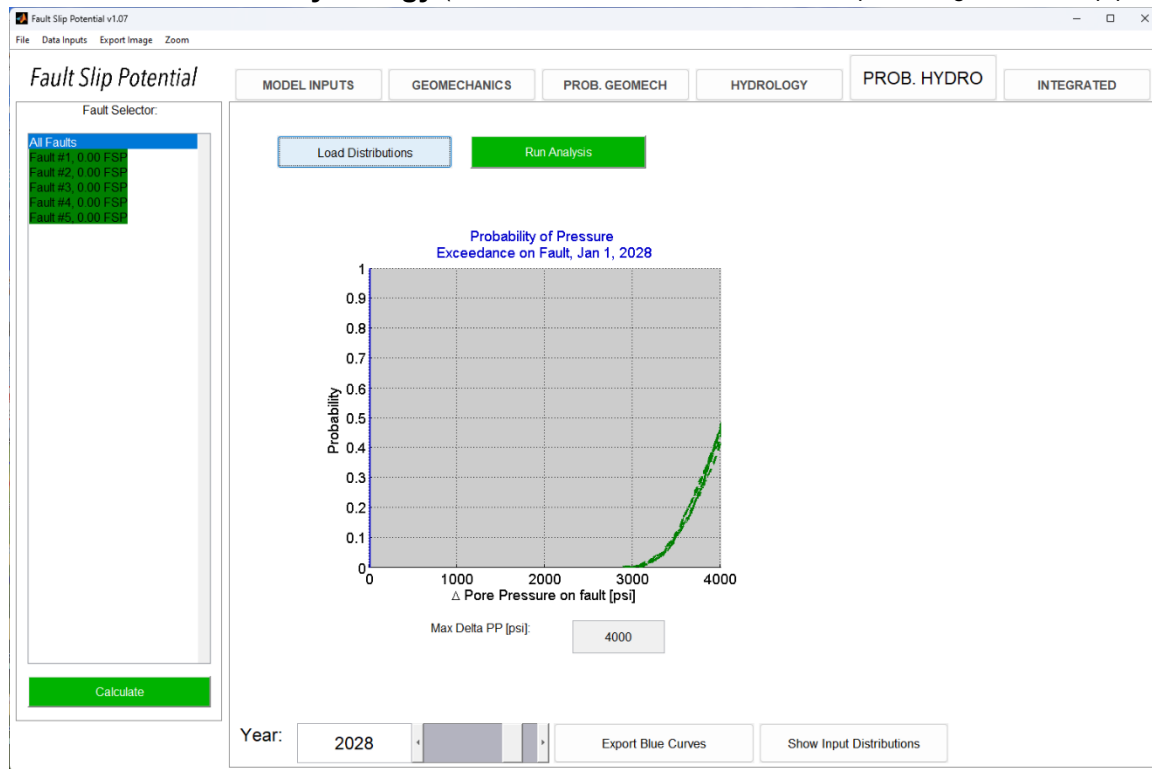
GeoMechanics Variability



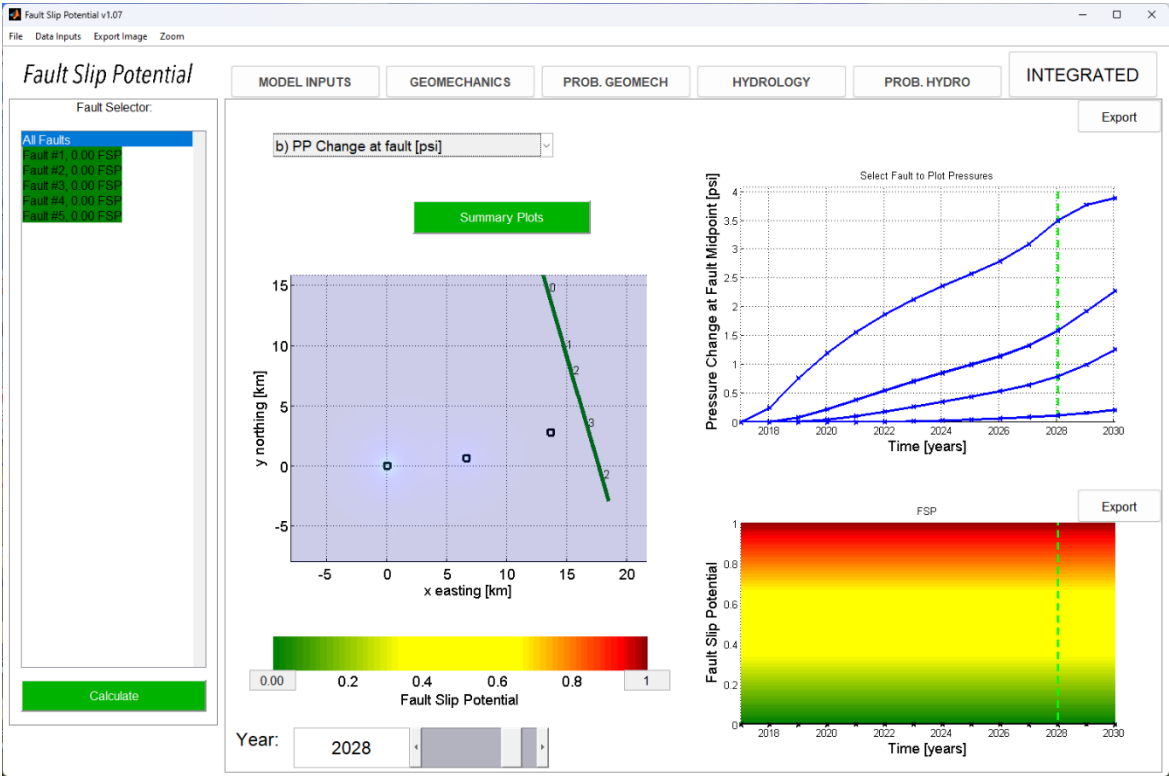
Year 5 Hydrology



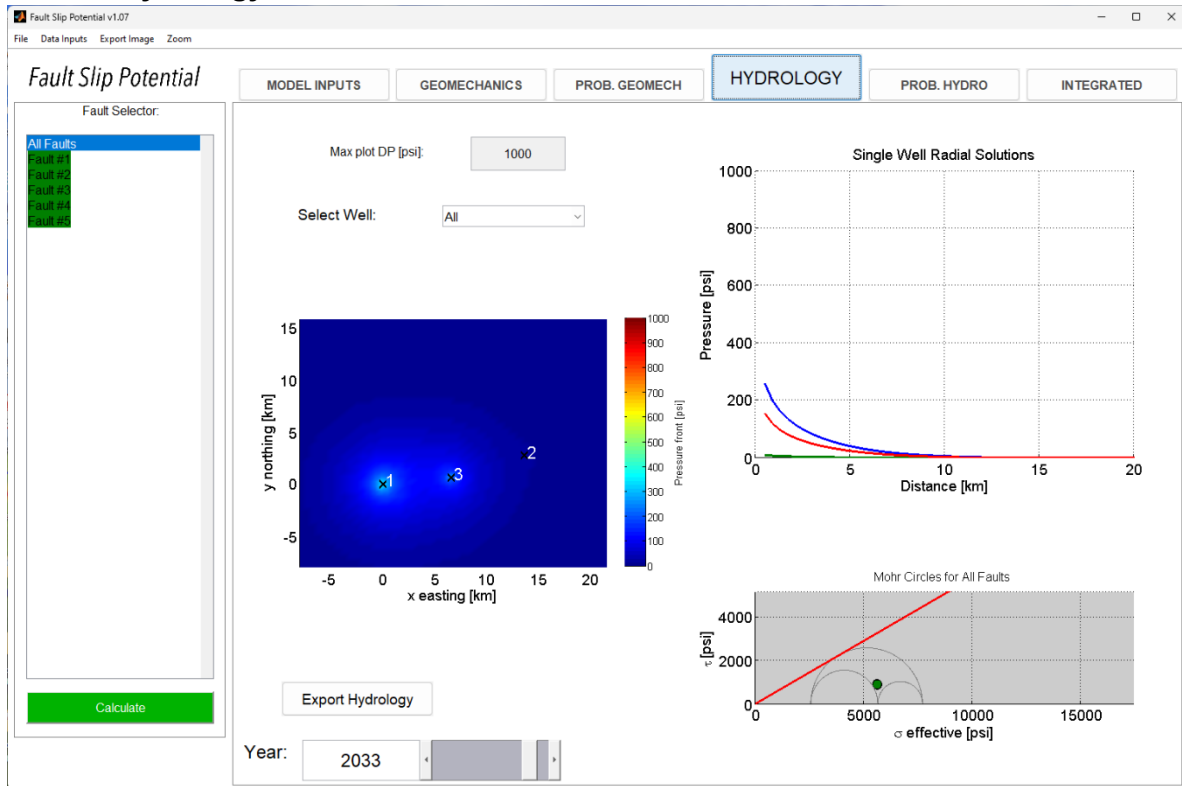
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



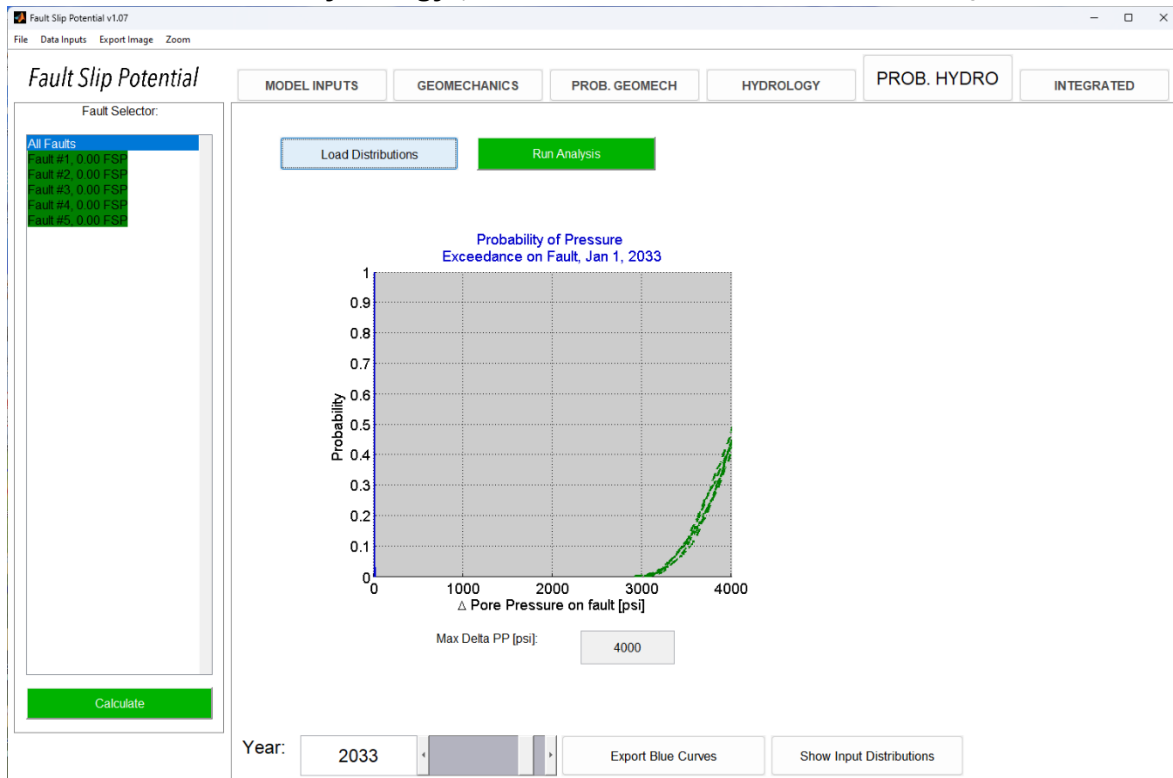
Year 5 Fault Slip Probability (0% after 5 years)



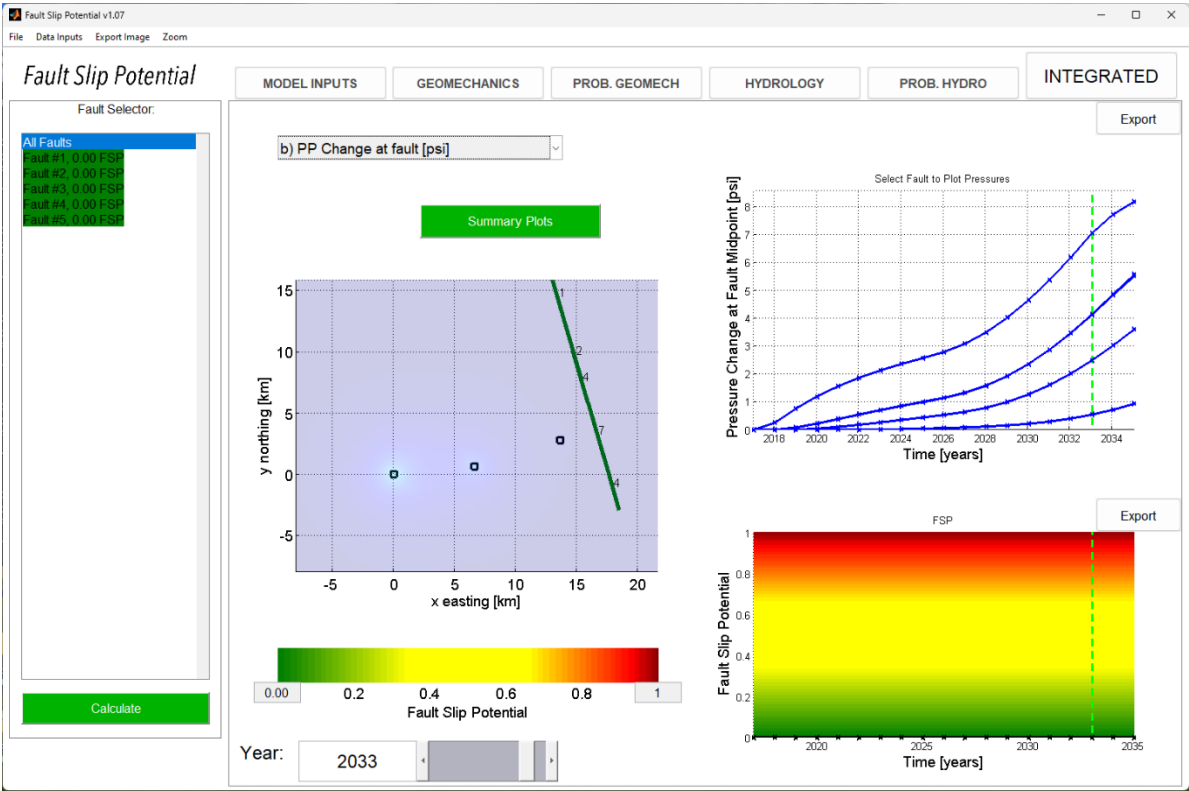
Year 10 Hydrology



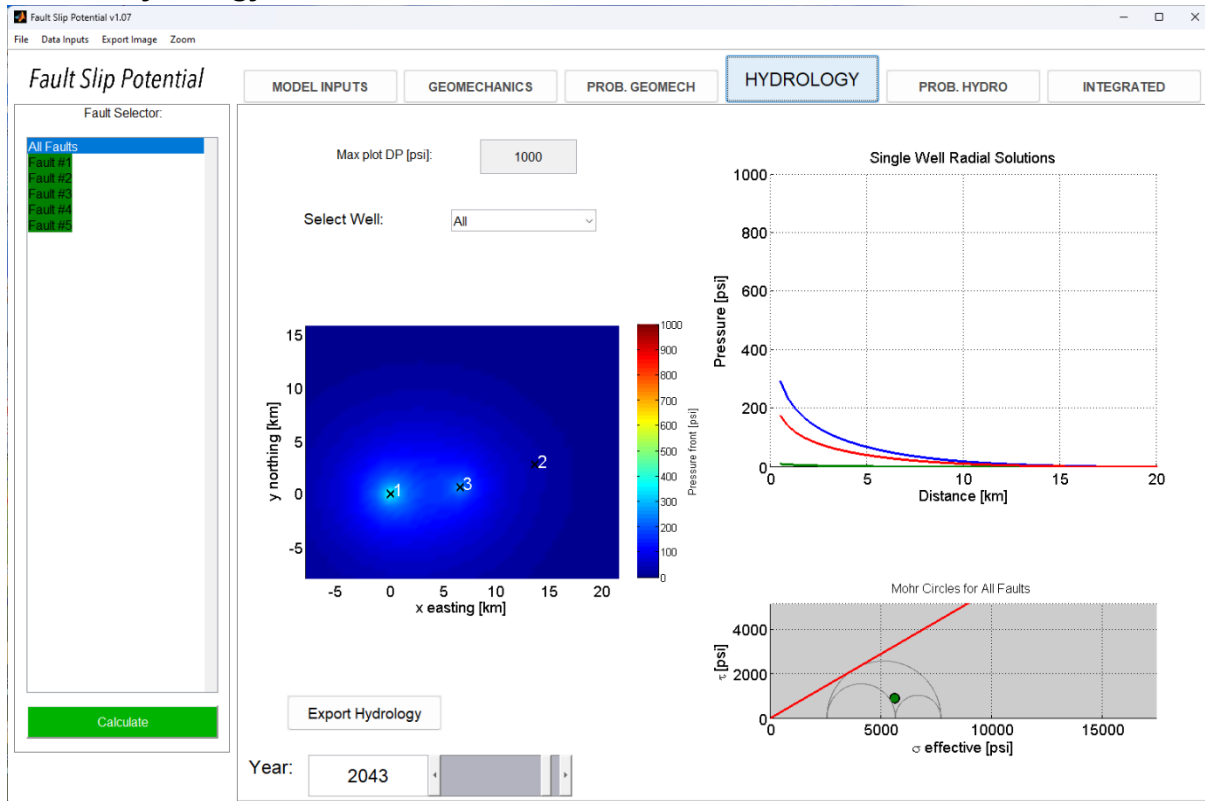
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



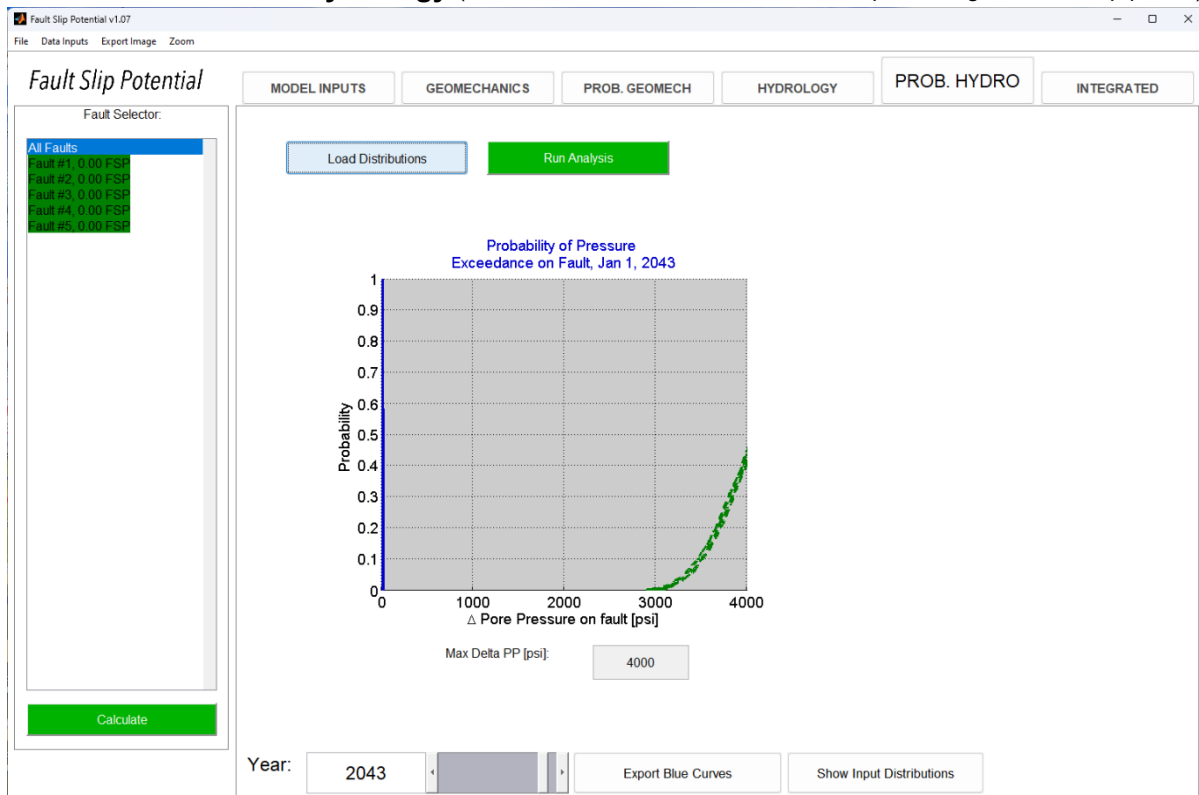
Year 10 Fault Slip Probability (0% after 10 years)



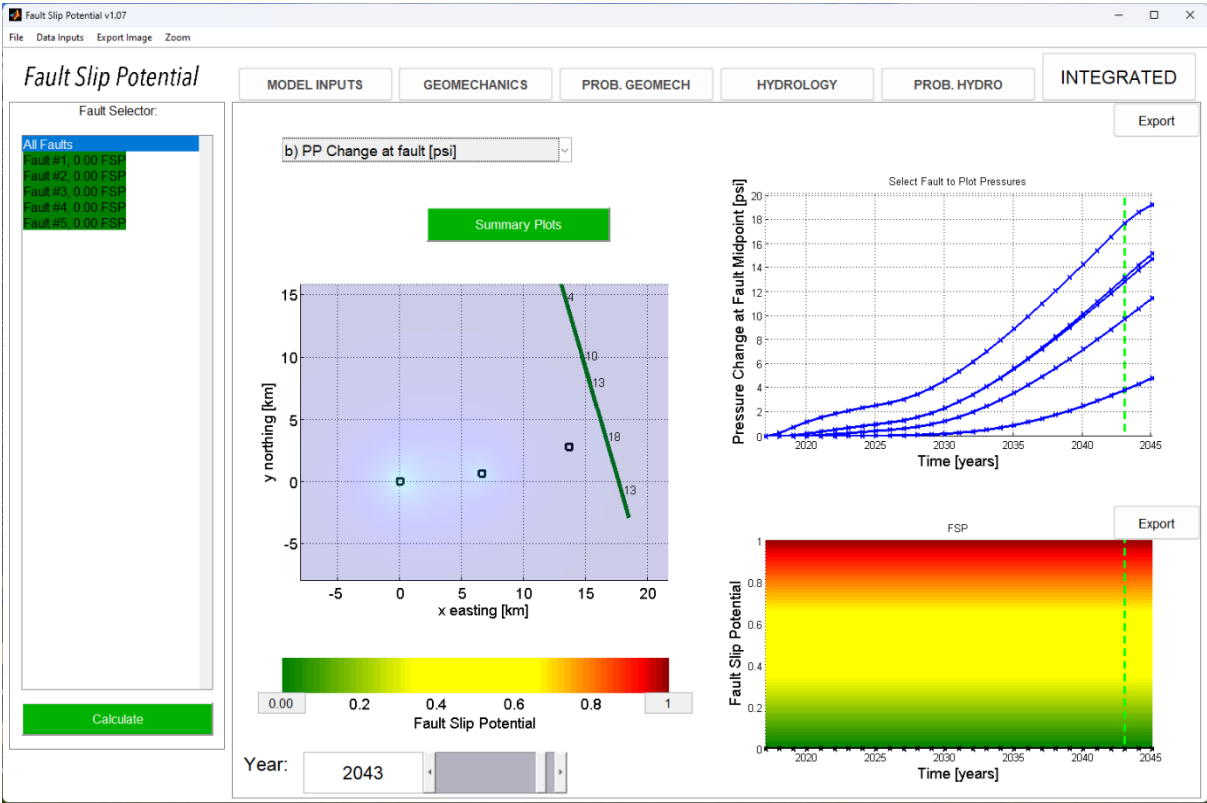
Year 20 Hydrology



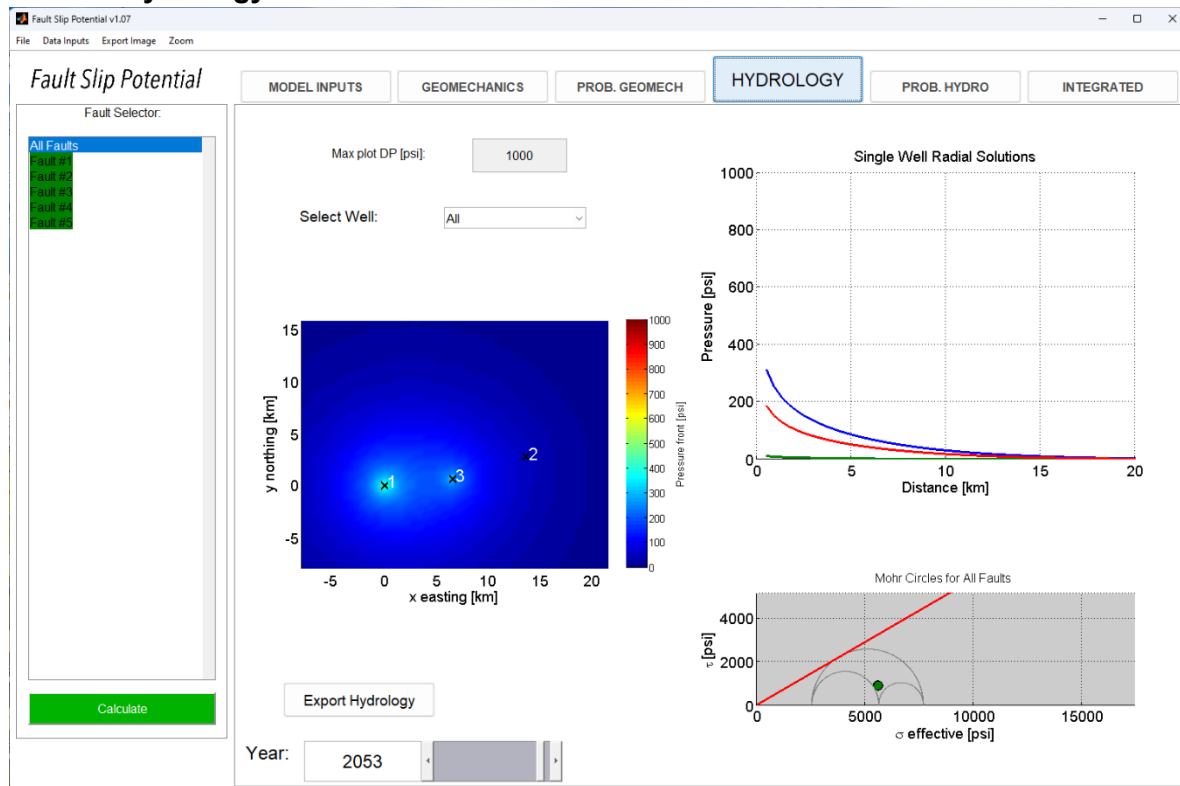
Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



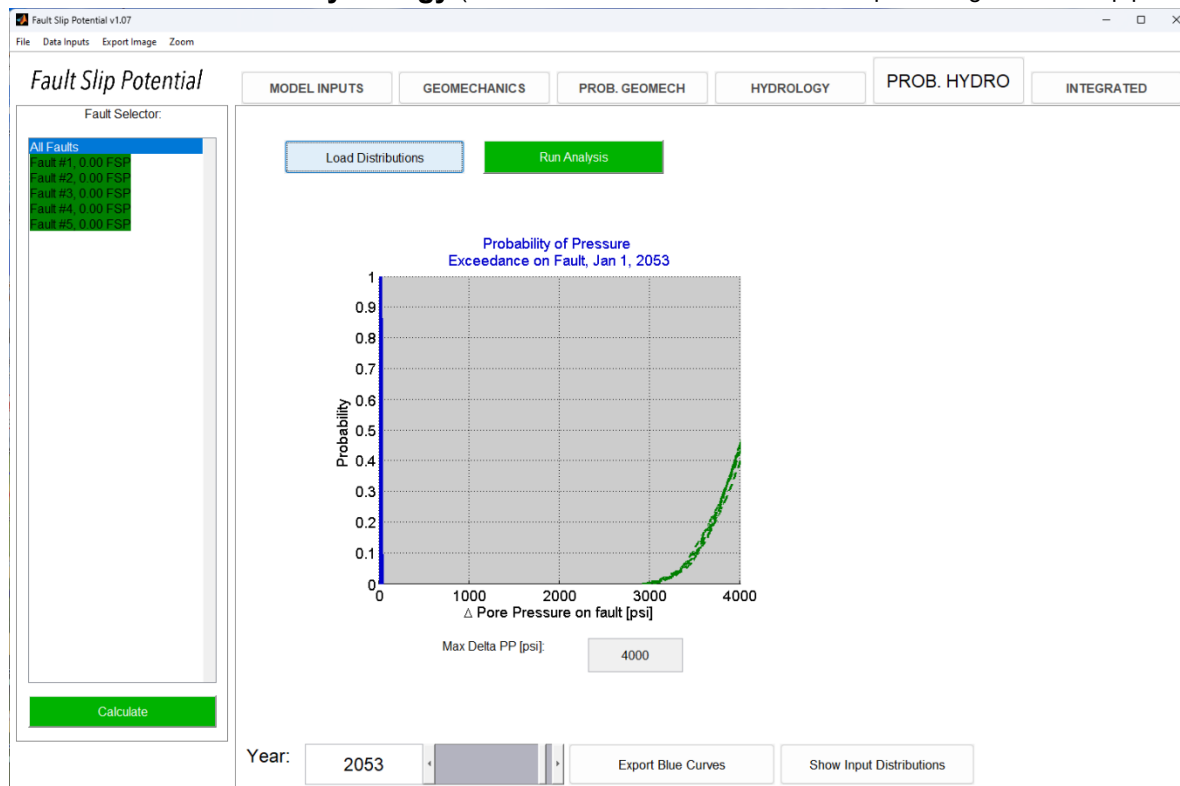
Year 20 Fault Slip Probability (0% after 20 years)

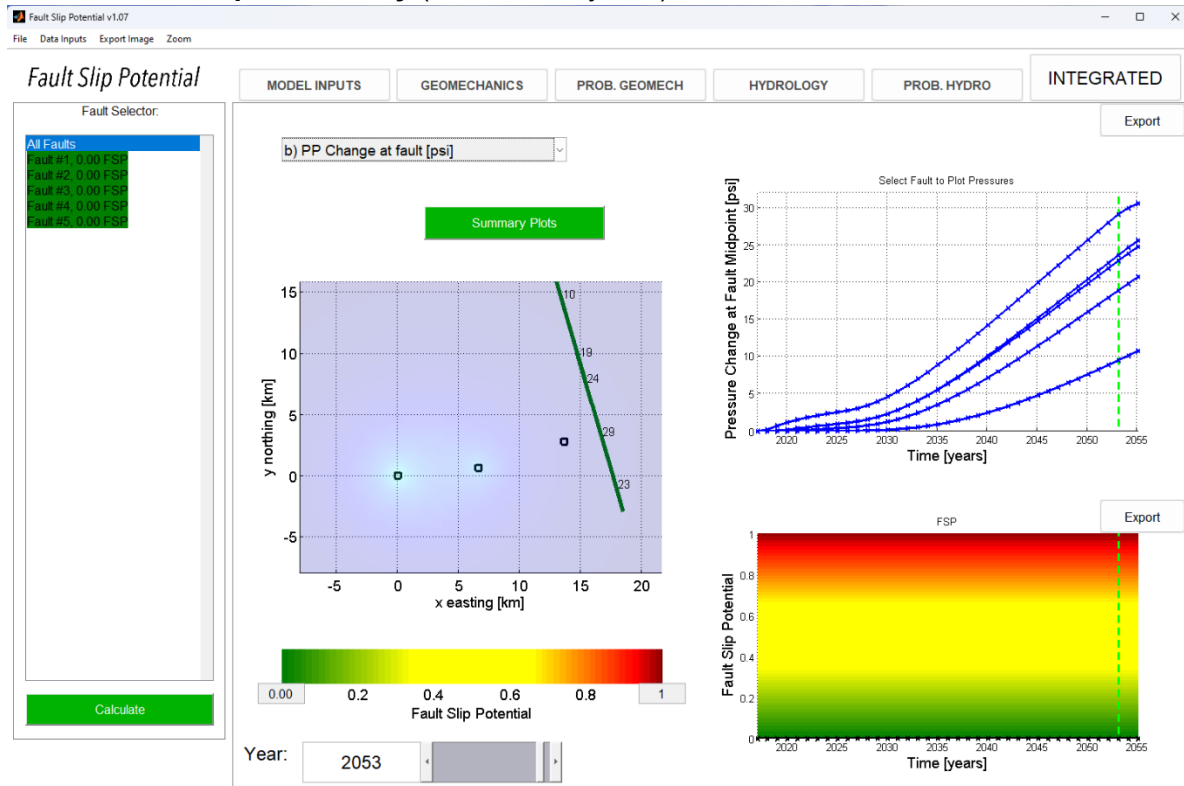


Year 30 Hydrology



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
Beat The Punch Federal SWD #1
798' FNL & 128' FEL
Sec 25, T20S, R32E
Lea County, NM

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

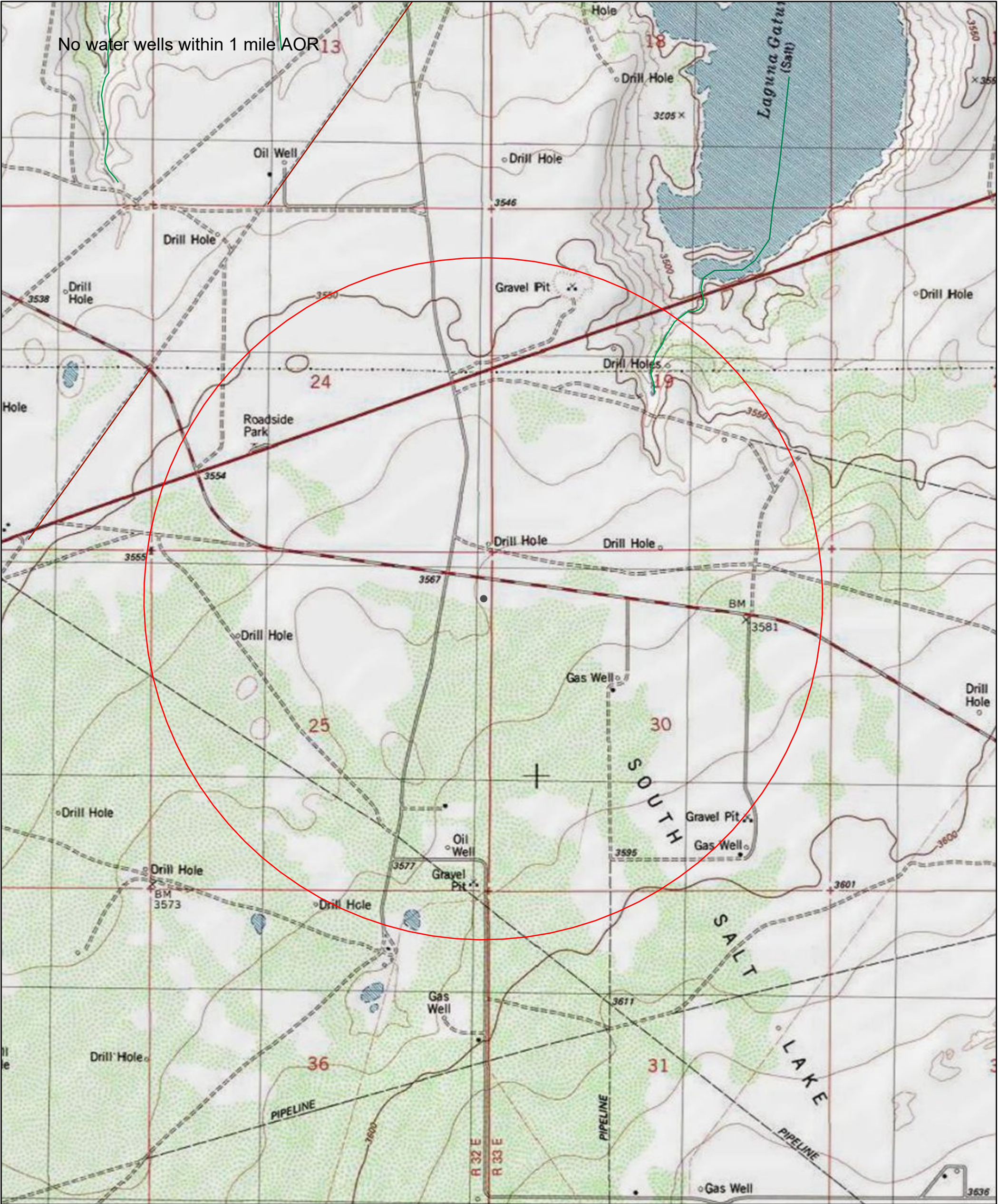
A handwritten signature in black ink, appearing to read "Gary Fisher".

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 7/5/2023

XI.

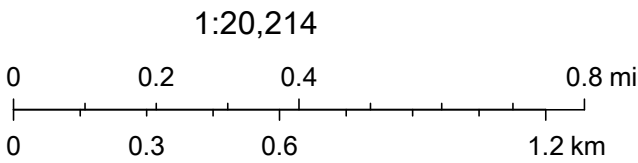
Water Wells Within 1 Mile - Beat the Punch Federal SWD #1



5/23/2023, 6:11:05 PM

NHD Flowlines

- Artificial Path
- Pipeline
- Stream River
- SiteBoundaries



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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00317	CP	LE		3	4	3	05	20S	33E	623054	3607235*	680	325	355
CP 00653 POD1	CP	LE		4	4	04	20S	33E	625573	3607367*		60		
CP 00748 POD1	CP	LE		2	01	20S	33E	630197	3608428*					
CP 00798 POD1	CP	LE	2	1	1	24	20S	33E	629348	3603892*		850		
CP 01090 POD1	CP	LE	1	2	31	20S	33E	586045	3608526					
CP 01865 POD1	CP	LE	4	3	2	02	20S	33E	628390	3608155		105	0	105
CP 01865 POD2	CP	LE	3	1	3	02	20S	33E	627454	3607733		105	0	105

Average Depth to Water: **108 feet**

Minimum Depth: **0 feet**

Maximum Depth: **325 feet**

Record Count: 7

PLSS Search:

Township: 20S

Range: 33E

*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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	Depth Well	Depth Water	Water Column
CP 01872 POD1	CP	LE		2	4	3	32	20S	32E	613763	3599329	75		
CP 01874 POD1	CP	LE		3	1	3	32	20S	32E	613113	3599502	38		
CP 01874 POD2	CP	LE		1	1	4	32	20S	32E	613804	3599637	58		
CP 01874 POD3	CP	LE		4	4	1	32	20S	32E	613643	3599887	48		
CP 01876 POD1	CP	LE		3	2	4	18	20S	32E	612541	3604293			
CP 01876 POD2	CP	LE		3	2	4	18	20S	32E	612535	3604280			
CP 01891 POD1	CP	LE		3	3	3	16	20S	32E	614636	3603890	55	33	22

Average Depth to Water: **33 feet**

Minimum Depth: **33 feet**

Maximum Depth: **33 feet**

Record Count: 7

PLSS Search:

Township: 20S

Range: 32E

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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 241675

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 241675
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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