

# AE Order Number Banner

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**Application Number: pMSG2332650107**

**SWD-2583**

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

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

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** Permian Oilfield Partners, LLC. **OGRID Number:** 328259  
**Well Name:** Vital 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

<b>FOR OCD ONLY</b>
<input type="checkbox"/> Notice Complete
<input type="checkbox"/> Application Content Complete

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

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

Sean Puryear

Print or Type Name

Signature

11-5-2023  
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: 11-5-2023

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 14,765'

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 2,960 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.

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

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

<b>GEOLOGY PROGNOSIS</b>			
<b>FORMATION</b>	<b>TOP</b>	<b>BOTTOM</b>	<b>THICKNESS</b>
	KB TVD (ft)	KB TVD (ft)	(ft)
<b>Rustler</b>	1,331	1,541	210
<b>Salt</b>	1,541	3,217	1,676
<b>Yates</b>	3,217	3,532	315
<b>Capitan Reef</b>	3,532	5,110	1,578
<b>Delaware</b>	5,110	8,235	3,125
<b>Bone Spring</b>	8,235	11,060	2,825
<b>Wolfcamp</b>	11,060	12,255	1,195
<b>Mississippi Lm.</b>	14,111	14,622	511
<b>Woodford</b>	14,622	14,765	143
<b>Devonian</b>	14,765	15,561	796
<b>Fusselman (Silurian)</b>	15,561	15,892	331
<b>Montoya (U. Ordovician)</b>	15,892	16,282	390
<b>Simpson (M. Ordovician)</b>	16,282	16,718	436

- Regional shallow fresh water in the Quaternary is known to exist at depths less than 850'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 13,915'. There is a deeper potential USDW in the Capitan Reef formation. Depth from the bottom of this potential USDW to the injection zone is 9,655'. 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. There is one declared POD, CP-0065, outside of the 1 mile AOR to the north, but this POD has not been drilled. See attached 1 mile AOR water well map showing no water wells in the AOR.
  
- XII:** Hydrologic affirmative statement attached.
  
- XIII:** Proof of notice and proof of publication attached.



III (A)

**WELL CONSTRUCTION DATA**

Permian Oilfield Partners, LLC.  
 Vital Federal SWD #1  
 335' FSL, 258' FWL  
 Lot M, Sec. 10, T20S, R33E, Lea Co. NM  
 Lat 32.5813206° N, Lon -103.6588529° W  
 GL 3560', RKB 3590'

**Surface - (Conventional)**

Hole Size: 26" Casing: 20" - 106.5# N-80 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 1356'  
 Cement: 1260 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: 3482'  
 Cement: 1061 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: 5135' ECP/DV Tool: 3582'  
 Cement: 769 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: 11110' ECP/5235'  
 Cement: 1815 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: 10910'  
 Depth Btm: 14800'  
 Cement: 251 sks - Class H + Additives  
 Cement Top: 10910' - Circulate, then Bond Log

**Intermediate #5 - (Open Hole)**

Hole Size: 6.5" Depth: 15842'  
 Inj. Interval: 14800' - 15842' (Open-Hole Completion)

**Tubing - (Tapered)**

Tubing Depth: 14755' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 X/O Depth: 10910'  
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 Packer Depth: 14765' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)  
 Packer Fluid: 8.4 ppg FW + Additives

III (A)

**WELLBORE SCHEMATIC**

Permian Oilfield Partners, LLC.

Vital Federal SWD #1

335' FSL, 258' FWL

Lot M, Sec. 10, T20S, R33E, Lea Co. NM

Lat 32.5813206° N, Lon -103.6588529° W

GL 3560', RKB 3590'

**Surface - (Conventional)**

Hole Size: 26"  
 Casing: 20" - 106.5# N-80 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 1356'  
 Cement: 1260 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: 3482'  
 Cement: 1061 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: 5135'  
 Cement: 769 sks - Class C + Additives  
 Cement Top: Surface - (Circulate)  
 ECP/DV Tool: 3582'

**Intermediate #3 - (Conventional)**

Hole Size: 12.25"  
 Casing: 9.625" - 40# HCL-80 BTC Casing  
 Depth Top: Surface  
 Depth Btm: 11110'  
 Cement: 1815 sks - Class C + Additives  
 Cement Top: Surface - (Circulate)  
 ECP/DV Tool: 5235'

**Intermediate #4 - (Liner)**

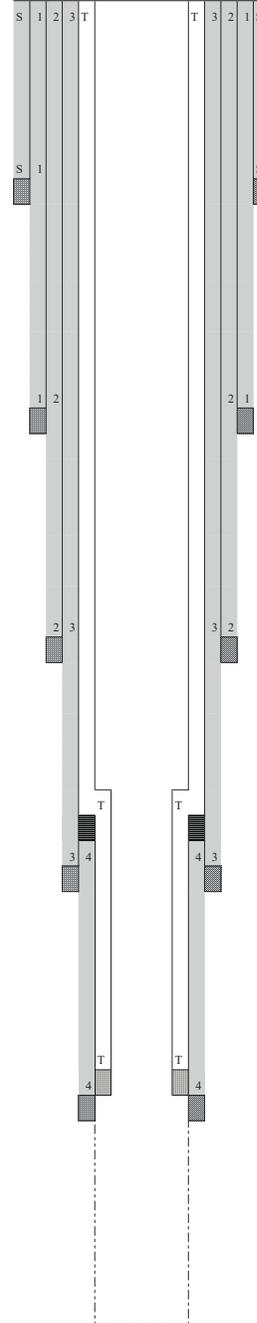
Hole Size: 8.5"  
 Casing: 7.625" - 39# HCL-80 FJ Casing  
 Depth Top: 10910'  
 Depth Btm: 14800'  
 Cement: 251 sks - Class H + Additives  
 Cement Top: 10910' - Circulate, then Bond Log

**Intermediate #5 - (Open Hole)**

Hole Size: 6.5"  
 Depth: 15842'  
 Inj. Interval: 14800' - 15842' (Open-Hole Completion)

**Tubing - (Tapered)**

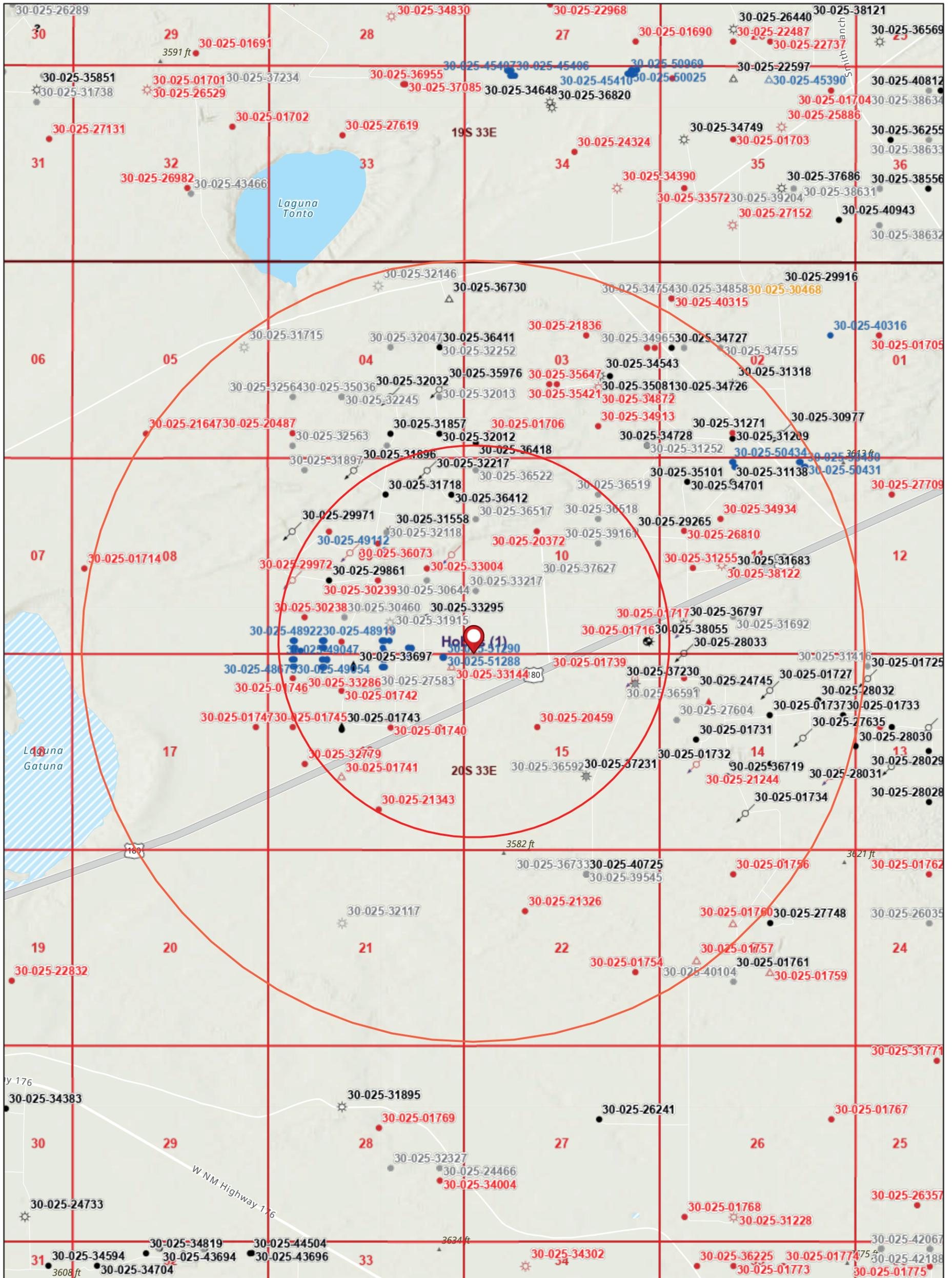
Tubing Depth: 14755'  
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 X/O Depth: 10910'  
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
 Packer Depth: 14765'  
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)  
 Packer Fluid: 8.4 ppg FW + Additives





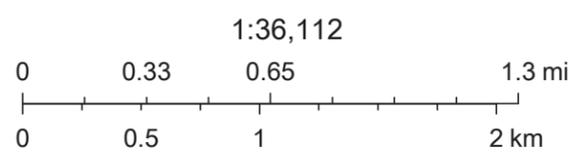
V (b)

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



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- Override 1
- Wells - Large Scale
- Miscellaneous
- ☆ Gas, Active
- ☆ Gas, Cancelled
- ☆ Gas, Plugged
- / Injection, Active
- / Injection, Plugged
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- △ Salt Water Injection, Active
- △ Salt Water Injection, New
- △ Salt Water Injection, Plugged
- Water, Active
- Water, Plugged
- ? undefined
- OCD Districts
- PLSS First Division
- PLSS Townships



Esri, NASA, NGA, USGS, FEMA  
 Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department.  
 OCD

New Mexico Oil Conservation Division

VI.

Vital Federal SWD #1 - Wells Within 1 Mile Area of Review

API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCD Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TVD
30-025-20372	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	10	T20S	R33E	F	F-10-20S-33E 1980 FNL 1980 FWL	F-10-20S-33E 1980 FNL 1980 FWL	YATES-SEVEN RIVERS	3554	3554
30-025-37627	SAMSON RESOURCES CO	MARSHALL 10 FEDERAL COM	#001	Gas	Vertical	Cancelled Appd	10	T20S	R33E	K	K-10-20S-33E 1980 FSL 1980 FWL	K-10-20S-33E 1980 FSL 1980 FWL	MORROW	14000	14000
30-025-20459	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	15	T20S	R33E	F	F-15-20S-33E 1980 FNL 1980 FWL	F-15-20S-33E 1980 FNL 1980 FWL	YATES-SEVEN RIVERS	3418	3418
30-025-36592	SAMSON RESOURCES CO	BANDIT 15 FEDERAL COM	#002	Oil	Vertical	Cancelled Appd	15	T20S	R33E	J	J-15-20S-33E 1980 FSL 1980 FEL	J-15-20S-33E 1980 FSL 1980 FEL	PENN	14000	14000
30-025-37231	COG OPERATING LLC	BANDIT 15 FEDERAL COM	#002	Gas	Vertical	Active	15	T20S	R33E	J	J-15-20S-33E 1980 FSL 1980 FEL	J-15-20S-33E 1980 FSL 1980 FEL	PENN	14000	14000
30-025-36518	SHACKELFORD OIL CO	TONTO FEDERAL	#005	Oil	Vertical	Cancelled Appd	10	T20S	R33E	G	G-10-20S-33E 1650 FNL 1650 FEL	G-10-20S-33E 1650 FNL 1650 FEL	DELAWARE	8300	8300
30-025-39161	MURCHISON OIL AND GAS, LLC	TONTO FEDERAL	#008	Oil	Vertical	Cancelled Appd	10	T20S	R33E	G	G-10-20S-33E 2310 FNL 1650 FEL	G-10-20S-33E 2310 FNL 1650 FEL	DELAWARE	8250	8250
30-025-36519	SHACKELFORD OIL CO	TONTO FEDERAL	#006	Oil	Vertical	Cancelled Appd	10	T20S	R33E	B	B-10-20S-33E 990 FNL 1650 FEL	B-10-20S-33E 990 FNL 1650 FEL	DELAWARE	8300	8300
30-025-37230	COG OPERATING LLC	BANDIT 15 FEDERAL COM	#001	Gas	Vertical	Active	15	T20S	R33E	A	A-15-20S-33E 810 FNL 660 FEL	A-15-20S-33E 810 FNL 660 FEL	PENN	14000	14000
30-025-29265	SHACKELFORD OIL CO	TONTO FEDERAL	#001	Oil	Vertical	Active	10	T20S	R33E	H	H-10-20S-33E 1980 FNL 660 FEL	H-10-20S-33E 1980 FNL 660 FEL	BONE SPRING	10706	10706
30-025-01739	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#121	Injection	Vertical	Plugged, Site Released	15	T20S	R33E	A	A-15-20S-33E 660 FNL 660 FEL	A-15-20S-33E 660 FNL 660 FEL	YATES-SEVEN RIVERS	3335	3335
30-025-36591	SAMSON RESOURCES CO	BANDIT 15 FEDERAL COM	#001	Oil	Vertical	Cancelled Appd	15	T20S	R33E	A	A-15-20S-33E 810 FNL 660 FEL	A-15-20S-33E 810 FNL 660 FEL	PENN	14000	14000
30-025-38055	CIMAREX ENERGY CO. OF COLORADO	NEW SHERIFF 10 FEDERAL COM	#001	Gas	Directional	Active	10	T20S	R33E	P	P-10-20S-33E 330 FSL 280 FEL	P-10-20S-33E 705 FSL 707 FEL	PENN	13940	13881
30-025-01716	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Miscellaneous	Vertical	Plugged, Site Released	10	T20S	R33E	P	P-10-20S-33E 330 FSL 330 FEL	P-10-20S-33E 0 FSL 330 FEL	SEVEN RIVERS	3410	3410
30-025-48918	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#303H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 355 FSL 1443 FWL	C-04-20S-33E Lot: 3 50 FNL 1650 FEL	BONE SPRING	18940	8567
30-025-48927	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#602H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 155 FSL 1468 FWL	N-09-20S-33E 50 FNL 1650 FWL	BONE SPRING	21187	10762
30-025-49052	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#702H	Oil	Horizontal	New	16	T20S	R33E	C	C-16-20S-33E 155 FNL 1492 FWL	N-21-20S-33E 50 FSL 2310 FWL	WOLFCAMP	21480	11447
30-025-48922	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#402H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 355 FSL 1468 FWL	C-04-20S-33E Lot: 3 50 FNL 1650 FWL	BONE SPRING	19494	9162
30-025-49053	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#703H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 155 FNL 2150 FEL	O-21-20S-33E 50 FSL 1650 FEL	WOLFCAMP	21479	11466
30-025-48805	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#601H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 155 FSL 681 FWL	D-04-20S-33E Lot: 4 52 FNL 330 FWL	BONE SPRING	21200	10760
30-025-48921	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#306H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 355 FSL 2150 FEL	B-04-20S-33E Lot: 2 50 FNL 1650 FEL	BONE SPRING	19036	8575
30-025-48924	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#502H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 155 FSL 1443 FWL	D-04-20S-33E Lot: 4 50 FNL 1254 FWL	BONE SPRING	20347	10057
30-025-48926	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#504H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 85 FSL 2175 FEL	B-04-20S-33E Lot: 2 100 FNL 1980 FEL	BONE SPRING	20367	10688
30-025-48917	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#302H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 355 FSL 707 FWL	D-04-20S-33E Lot: 4 50 FSL 990 FWL	BONE SPRING	18992	8560
30-025-48925	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#503H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 155 FSL 1518 FWL	C-04-20S-33E Lot: 3 50 FNL 2178 FWL	BONE SPRING	20259	9852
30-025-48919	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#304H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 355 FSL 1518 FWL	C-04-20S-33E Lot: 3 50 FNL 2310 FWL	BONE SPRING	19051	8567
30-025-48920	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#305H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 355 FSL 2225 FEL	B-04-20S-33E Lot: 2 50 FNL 2310 FEL	BONE SPRING	18963	8575
30-025-48929	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#705H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 355 FSL 682 FWL	D-04-20S-33E Lot: 4 50 FNL 330 FWL	WOLFCAMP	22005	11855
30-025-48943	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#704H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 50 FSL 330 FEL	P-21-20S-33E 50 FSL 330 FEL	WOLFCAMP	21553	11477
30-025-48923	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#403H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 355 FSL 2200 FEL	B-04-20S-33E Lot: 2 51 FNL 2310 FEL	BONE SPRING	19497	9178
30-025-48928	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#701H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 155 FSL 706 FWL	D-04-20S-33E Lot: 4 50 FNL 990 FWL	WOLFCAMP	21469	10930
30-025-48916	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#301H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 355 FSL 657 FWL	D-04-20S-33E Lot: 4 355 FSL 657 FWL	BONE SPRING	18929	8553
30-025-48930	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#706H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 355 FSL 1493 FWL	C-04-20S-33E Lot: 3 50 FNL 1650 FWL	WOLFCAMP	21984	11587
30-025-48942	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#604H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 165 FSL 1424 FEL	P-21-20S-33E 101 FSL 660 FEL	BONE SPRING	21241	11277
30-025-49051	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#603H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 155 FNL 2200 FEL	O-21-20S-33E 52 FSL 2310 FEL	BONE SPRING	21214	11266
30-025-49050	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#602H	Oil	Horizontal	New	16	T20S	R33E	C	C-16-20S-33E 145 FNL 1587 FWL	N-21-20S-33E 100 FSL 1980 FWL	BONE SPRING	21198	11247
30-025-49046	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#404H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 45 FNL 1545 FEL	P-21-20S-33E 52 FSL 990 FEL	BONE SPRING	19547	9949
30-025-49111	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#603H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 155 FSL 2200 FEL	B-04-20S-33E Lot: 2 52 FNL 2310 FEL	BONE SPRING	21199	10770
30-025-49112	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#703H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 155 FSL 2150 FEL	B-04-20S-33E Lot: 2 50 FNL 1650 FEL	WOLFCAMP	21452	10940
30-025-49195	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#702H	Oil	Horizontal	New	09	T20S	R33E	N	N-09-20S-33E 155 FSL 1493 FWL	C-04-20S-33E Lot: 3 50 FNL 2310 FWL	WOLFCAMP	21460	10932
30-025-48676	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#601H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 155 FNL 681 FWL	M-21-20S-33E 51 FSL 330 FWL	BONE SPRING	21208	11235
30-025-48802	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#701H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 155 FNL 706 FWL	M-21-20S-33E 50 FSL 990 FWL	WOLFCAMP	21478	11335
30-025-48675	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#501H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 155 FNL 656 FWL	M-21-20S-33E 50 FSL 330 FWL	BONE SPRING	20345	10315
30-025-48801	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#301H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 155 FNL 631 FWL	M-21-20S-33E 52 FSL 330 FWL	BONE SPRING	18908	8777
30-025-48803	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#401H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 85 FSL 686 FWL	D-04-20S-33E Lot: 4 100 FNL 660 FWL	BONE SPRING	19516	9145
30-025-48804	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#501H	Oil	Horizontal	New	09	T20S	R33E	M	M-09-20S-33E 85 FSL 716 FWL	D-04-20S-33E Lot: 4 101 FNL 660 FWL	BONE SPRING	20147	9832
30-025-48931	MATADDR PRODUCTION COMPANY	SILVER FEDERAL COM	#707H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 355 FSL 2175 FEL	B-04-20S-33E Lot: 2 50 FNL 2310 FEL	WOLFCAMP	21963	11595
30-025-48940	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#505H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 135 FSL 1424 FEL	P-21-20S-33E 100 FSL 660 FEL	BONE SPRING	20407	10387
30-025-48941	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#506H	Oil	Horizontal	New	09	T20S	R33E	O	O-09-20S-33E 155 FSL 1494 FEL	P-21-20S-33E 50 FSL 330 FEL	BONE SPRING	20373	10267
30-025-49037	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#302H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 355 FNL 705 FWL	M-21-20S-33E 50 FSL 990 FWL	BONE SPRING	18982	8770
30-025-49049	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#504H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 155 FNL 2175 FEL	O-21-20S-33E 50 FSL 2178 FEL	BONE SPRING	20231	10241
30-025-49042	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#308H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 45 FNL 1495 FEL	P-21-20S-33E 51 FSL 330 FEL	BONE SPRING	19035	8781
30-025-49039	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#305H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 355 FNL 2226 FEL	O-21-20S-33E 50 FSL 2310 FEL	BONE SPRING	18947	8782
30-025-49040	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#306H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 355 FNL 2151 FEL	O-21-20S-33E 50 FSL 1650 FEL	BONE SPRING	19029	8781
30-025-49045	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#403H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 355 FNL 2201 FEL	O-21-20S-33E 51 FSL 2310 FEL	BONE SPRING	19510	9506
30-025-49055	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#706H	Oil	Horizontal	New	16	T20S	R33E	C	C-16-20S-33E 355 FNL 1492 FWL	N-21-20S-33E 51 FSL 2310 FWL	WOLFCAMP	22029	11967
30-025-49057	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#708H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 45 FNL 1520 FEL	P-21-20S-33E 45 FNL 990 FEL	WOLFCAMP	22036	11997
30-025-49056	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#707H	Oil	Horizontal	New	16	T20S	R33E	B	B-16-20S-33E 355 FNL 2176 FEL	O-21-20S-33E 50 FSL 2310 FEL	WOLFCAMP	22016	11986
30-025-49054	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#705H	Oil	Horizontal	New	16	T20S	R33E	D	D-16-20S-33E 355 FNL 680 FWL	M-21-20S-33E 50 FSL 330 FWL	WOLFCAMP	22045	11955
30-025-49044	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#402H	Oil	Horizontal	New	16	T20S	R33E	C	C-16-20S-33E 355 FNL 1467 FWL	N-21-20S-33E 51 FSL 1650 FWL	BONE SPRING	19533	9497
30-025-49047	MATADDR PRODUCTION COMPANY	PONY EXPRESS FEDERAL COM	#502H	Oil	Horizontal	New									

30-025-01742	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	C	C-16-20S-33E 990 FNL 1980 FWL	C-16-20S-33E 0 FNL 1980 FWL	YATES-SEVEN RIVERS	3260	3260
30-025-01741	TRIOLOGY OPERATING INC	STATE BF	#002	Salt Water Disposal	Vertical	Plugged, Site Released	16	T20S	R33E	K	K-16-20S-33E 1980 FSL 1980 FWL	K-16-20S-33E 1980 FSL 1980 FWL	YATES-SEVEN RIVERS	3225	3225
30-025-30460	GROVER-MCKINNEY OIL CO	FEDERAL	#005	Oil	Vertical	Cancelled Apd	09	T20S	R33E	N	N-09-20S-33E 990 FSL 2050 FWL	N-09-20S-33E 990 FSL 2050 FWL	YATES-SEVEN RIVERS	3400	3400
30-025-36073	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#924	Injection	Vertical	Plugged, Site Released	09	T20S	R33E	F	F-09-20S-33E 2560 FNL 2210 FWL	F-09-20S-33E 2560 FNL 2210 FWL	YATES-SEVEN RIVERS	3350	3350
30-025-33697	CHEVRON U S A INC	WUA WEST TEAS YATES SEVEN RIVERS UNIT	#621	Water	Vertical	Active	16	T20S	R33E	C	C-16-20S-33E 330 FNL 2310 FWL	C-16-20S-33E 330 FNL 2310 FWL	YATES-SEVEN RIVERS	3320	3320
30-025-30239	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#933	Oil	Vertical	Plugged, Site Released	09	T20S	R33E	J	J-09-20S-33E 1980 FSL 2310 FEL	J-09-20S-33E 1980 FSL 2310 FEL	YATES-SEVEN RIVERS	3425	3425
30-025-01715	ARCO PERMIAN	ARC FEDERAL	#001	Salt Water Disposal	Vertical	Plugged, Site Released	09	T20S	R33E	O	O-09-20S-33E 660 FSL 1980 FEL	O-09-20S-33E 660 FSL 1980 FEL	SAN ANDRES	3300	3300
30-025-01744	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	B	B-16-20S-33E 660 FNL 1980 FEL	B-16-20S-33E 0 FNL 1980 FEL	YATES-SEVEN RIVERS	3360	3360
30-025-20842	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	J	J-16-20S-33E 2310 FSL 2310 FEL	J-16-20S-33E 0 FSL 2310 FEL	YATES-SEVEN RIVERS	3230	3230
30-025-31035	CHESAPEAKE OPERATING, INC.	WEST TEAS YATES SEVEN RIVERS UNIT	#932	Oil	Vertical	Plugged, Site Released	09	T20S	R33E	G	G-09-20S-33E 2310 FNL 2310 FEL	G-09-20S-33E 2310 FNL 2310 FEL	YATES-SEVEN RIVERS	3445	3445
30-025-01740	CHESAPEAKE OPERATING, INC.	WEST TEAS YATES SEVEN RIVERS UNIT	#632	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	G	G-16-20S-33E 1980 FNL 1980 FEL	G-16-20S-33E 1980 FNL 1980 FEL	YATES-SEVEN RIVERS	3278	3278
30-025-31915	DEVON ENERGY PRODUCTION COMPANY, LP	ANASAZI 9 FEDERAL COM	#002	Gas	Vertical	Cancelled Apd	09	T20S	R33E	O	O-09-20S-33E Lot: J 830 FSL 1980 FEL	O-09-20S-33E Lot: J 830 FSL 1980 FEL	MORROW	14000	14000
30-025-31558	RAYBAW OPERATING, LLC	ANASAZI 9 FEDERAL	#001	Gas	Vertical	Active	09	T20S	R33E	G	G-09-20S-33E 1980 FNL 1980 FEL	G-09-20S-33E 1980 FNL 1980 FEL	MORROW	13780	13780
30-025-21343	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	O	O-16-20S-33E 1090 FSL 2310 FEL	O-16-20S-33E 1090 FSL 2310 FEL	YATES-SEVEN RIVERS	3295	3295
30-025-31718	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#931	Oil	Vertical	Active	09	T20S	R33E	B	B-09-20S-33E 990 FNL 2110 FEL	B-09-20S-33E 990 FNL 2110 FEL	YATES-SEVEN RIVERS	3340	3340
30-025-31856	CHESAPEAKE OPERATING, INC.	WEST TEAS YATES SEVEN RIVERS UNIT	#600	Salt Water Disposal	Vertical	Plugged, Site Released	16	T20S	R33E	G	G-16-20S-33E 1730 FNL 1980 FEL	G-16-20S-33E 1730 FNL 1980 FEL	MORROW	13860	13860
30-025-32118	DEVON ENERGY PRODUCTION COMPANY, LP	ANASAZI 9 FEDERAL	#003	Oil	Vertical	Cancelled Apd	09	T20S	R33E	G	G-09-20S-33E 2000 FNL 2080 FEL	G-09-20S-33E 2000 FNL 2080 FEL	BONE SPRING	9800	9800
30-025-27583	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Cancelled Apd	16	T20S	R33E	B	B-16-20S-33E 990 FNL 2310 FEL	B-16-20S-33E 990 FNL 2310 FEL	YATES-SEVEN RIVERS	3400	3400
30-025-32217	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#941	Injection	Vertical	Active	09	T20S	R33E	A	A-09-20S-33E 330 FNL 990 FEL	A-09-20S-33E 330 FNL 990 FEL	YATES-SEVEN RIVERS	3315	3390
30-025-30644	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Apd	09	T20S	R33E	I	I-09-20S-33E 1980 FSL 990 FEL	I-09-20S-33E 1980 FSL 990 FEL	MORROW	13800	13800
30-025-33295	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#944	Oil	Vertical	Active	09	T20S	R33E	P	P-09-20S-33E 990 FSL 990 FEL	P-09-20S-33E 990 FSL 990 FEL	YATES-SEVEN RIVERS	3462	3462
30-025-33004	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#943	Oil	Vertical	Plugged, Site Released	09	T20S	R33E	I	I-09-20S-33E 2310 FSL 990 FEL	I-09-20S-33E 2310 FSL 990 FEL	YATES-SEVEN RIVERS	3435	3435
30-025-32517	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#942	Oil	Vertical	Active	09	T20S	R33E	H	H-09-20S-33E 1650 FNL 990 FEL	H-09-20S-33E 1650 FNL 990 FEL	YATES-SEVEN RIVERS	3378	3378
30-025-30543	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	16	T20S	R33E	H	H-16-20S-33E 1980 FNL 660 FEL	H-16-20S-33E 1980 FNL 660 FEL	YATES-SEVEN RIVERS	3429	3429
30-025-36412	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#946	Oil	Vertical	Active	09	T20S	R33E	A	A-09-20S-33E 990 FNL 330 FEL	A-09-20S-33E 990 FNL 330 FEL	YATES-SEVEN RIVERS	3400	3400
30-025-33144	CHESAPEAKE OPERATING, INC.	WEST TEAS YATES SEVEN RIVERS UNIT	#641	Salt Water Disposal	Vertical	Plugged, Site Released	16	T20S	R33E	A	A-16-20S-33E 330 FNL 330 FEL	A-16-20S-33E 330 FNL 330 FEL	YATES-SEVEN RIVERS	3470	3470
30-025-36079	CHEVRON U S A INC	WEST TEAS YATES SEVEN RIVERS UNIT	#945	Injection	Vertical	Plugged, Site Released	09	T20S	R33E	H	H-09-20S-33E 2612 FNL 330 FEL	H-09-20S-33E 2612 FNL 330 FEL	YATES-SEVEN RIVERS	3350	3350
30-025-36522	SHACKELFORD OIL CO	LONE RANGER	#002	Oil	Vertical	Cancelled Apd	10	T20S	R33E	D	D-10-20S-33E 330 FNL 330 FWL	D-10-20S-33E 330 FNL 330 FWL	YATES-SEVEN RIVERS	3500	3500
30-025-36517	SHACKELFORD OIL CO	LONE RANGER	#003	Oil	Vertical	Cancelled Apd	10	T20S	R33E	E	E-10-20S-33E 1650 FNL 330 FWL	E-10-20S-33E 1650 FNL 330 FWL	YATES-SEVEN RIVERS	3500	3500
30-025-33217	TRIOLOGY OPERATING INC	FEDERAL 10	#001	Oil	Vertical	Cancelled Apd	10	T20S	R33E	L	L-10-20S-33E 1700 FSL 330 FWL	L-10-20S-33E 1700 FSL 330 FWL	YATES-SEVEN RIVERS	3500	3500
30-025-51288	MATADOR PRODUCTION COMPANY	SILVER FEDERAL COM	#104H	Oil	Horizontal	New	16	T20S	R33E	A	A-16-20S-33E 85 FNL 548 FEL	A-04-20S-33E Lot: 1 100 FNL 660 FEL	BONE SPRING	18775	8585
30-025-51289	MATADOR PRODUCTION COMPANY	SILVER FEDERAL COM	#114H	Oil	Horizontal	New	16	T20S	R33E	A	A-16-20S-33E 115 FNL 578 FEL	A-04-20S-33E Lot: 1 100 FNL 450 FEL	BONE SPRING	19384	9194
30-025-51290	MATADOR PRODUCTION COMPANY	SILVER FEDERAL COM	#124H	Oil	Horizontal	New	16	T20S	R33E	A	A-16-20S-33E 115 FNL 548 FEL	A-04-20S-33E Lot: 1 101 FNL 450 FEL	BONE SPRING	20289	10100
30-025-51291	MATADOR PRODUCTION COMPANY	SILVER FEDERAL COM	#134H	Oil	Horizontal	New	16	T20S	R33E	A	A-16-20S-33E 85 FNL 578 FEL	A-04-20S-33E Lot: 1 101 FNL 660 FEL	BONE SPRING	20961	10775

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VII (4)

Permian Oilfield Partners, LLC.  
 Vital Federal SWD #1  
 335' FSL, 258' FWL  
 Sec. 10, T20S, R33E, Lea Co. NM  
 Lat 32.5813206° N, Lon -103.6588529° W  
 GL 3560', RKB 3590'

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.  
 Vital Federal SWD #1  
 335' FSL, 258' FWL  
 Sec. 10, T20S, R33E, Lea Co. NM  
 Lat 32.5813206° N, Lon -103.6588529° W  
 GL 3560', RKB 3590'

<b>Devonian Injection Zone Water Analysis</b>			
<b>Well Name</b>	<b>Leonard ST 1 (A) #001</b>	<b>LEA UNIT #008</b>	<b>LEA UNIT #009</b>
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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

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

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

**Record Count: 7**

**PLSS Search:**

**Township: 20S**

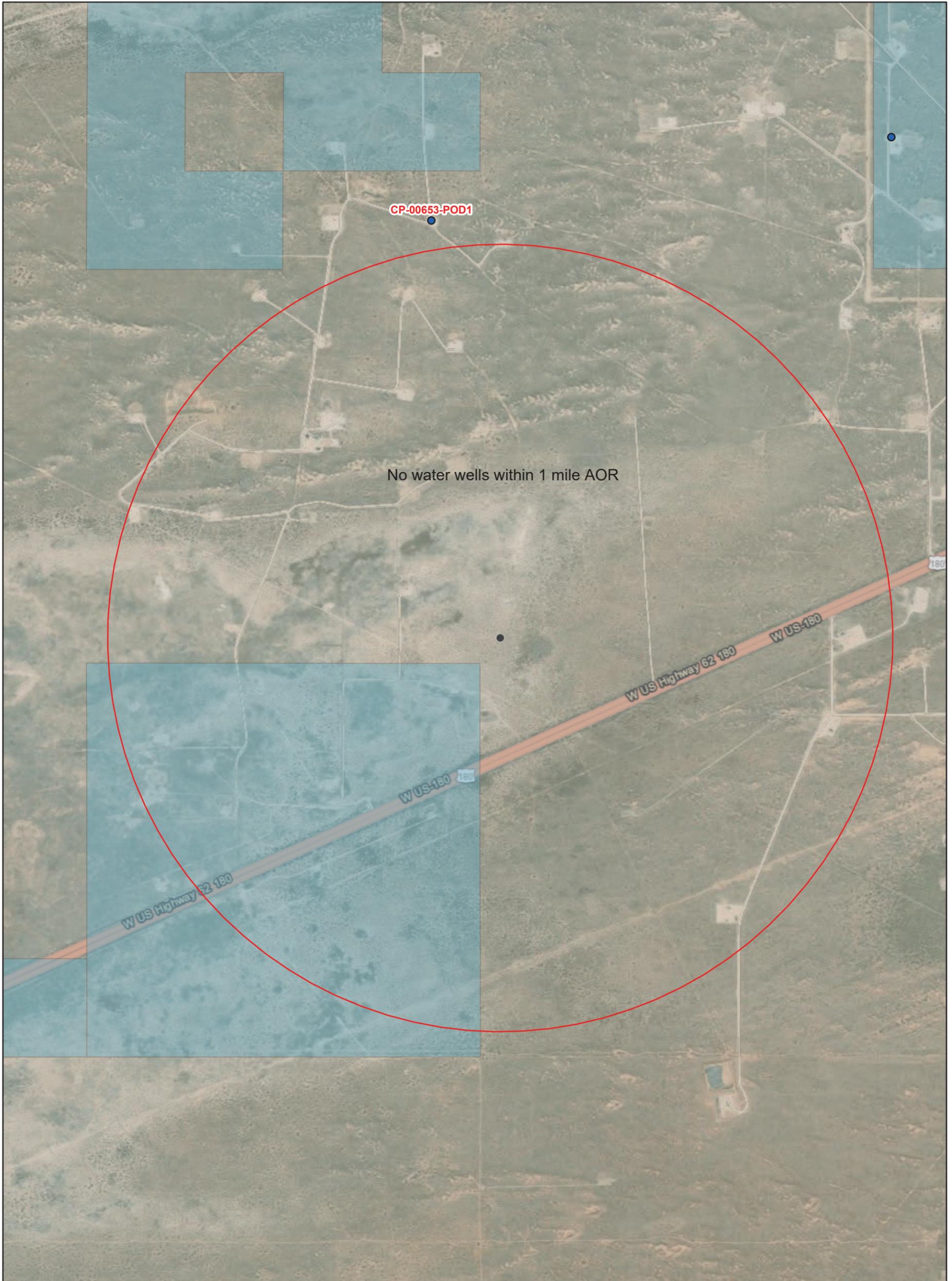
**Range: 33E**

\*UTM location was derived from PLSS - see Help

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

XI.

# Vital Federal SWD #1, Water Wells in 1 Mi AOR



11/5/2023, 5:58:22 PM

### GIS WATERS PODs

● Active

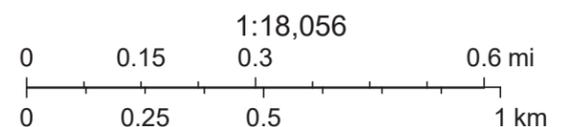
□ OSE District Boundary

### Water Right Regulations

□ Closure Area

### New Mexico State Trust Lands

■ Both Estates



Esri, HERE, IPC  
Esri, HERE, Garmin, IPC  
Maxar

Online web user



**Item XII. Affirmative Statement**

Re: C-108 Application for Authorization to Inject  
Permian Oilfield Partners, LLC  
Vital Federal SWD #1  
335' FSL & 258' FWL  
Sec 10, T20S, R33E  
Lea County, NM

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

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

Gary Fisher  
Manager  
Permian Oilfield Partners, LLC.

Date: 11/5/2023

XIII.



## PERMIAN OILFIELD PARTNERS

### Statement of Notifications

Re: C-108 Application for SWD Well  
Permian Oilfield Partners, LLC  
Vital Federal SWD #1  
335' FSL & 258' FWL  
Sec 10, T20S, R33E  
Lea County, NM

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

Vital 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
2AE LLC	14982 Melco Ave	Parker, CO 80134	USPS	9414811899562694980988	11/7/2023
APACHE CORPORATION	303 Vet Airpark Ln, Ste 1000	Midland, TX 79705	USPS	9414811899562694980933	11/7/2023
ARCO PERMIAN	200 Westlake Park Blvd, Rm 266	Houston, TX 77079	USPS	9414811899562694980650	11/7/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562694980667	11/7/2023
BURLINGTON RESOURCES (c/o Conoco)	PO Box 2197	Houston, TX 77252	USPS	9414811899562694980643	11/7/2023
BXP PARTNERS V LP	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562694980636	11/7/2023
CHESAPEAKE EXPLORATION LLC	PO Box 18496	Oklahoma City, OK 73154	USPS	9414811899562694980117	11/7/2023
CHESAPEAKE OPERATING, INC.	PO Box 18496	Oklahoma City, OK 73154	USPS	9414811899562694980124	11/7/2023
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562694980193	11/7/2023
CHISOS LTD	1331 Lamar Street, Ste 1077	Houston, TX 77010	USPS	9414811899562694980186	11/7/2023
CIMAREX ENERGY CO. OF COLORADO	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562694980179	11/7/2023
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562694980353	11/7/2023
CONOCOPHILLIPS CO	PO Box 2197	Houston, TX 77252	USPS	9414811899562694980391	11/7/2023
DEVON ENERGY PRODUCTION COMPANY, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899562694980384	11/7/2023
GROVER-MCKINNEY OIL CO	PO Box 3666	Midland, TX 79702	USPS	9414811899562694980018	11/7/2023
INTREPID POTASH	707 17th St., Ste 4200	Denver, CO 80202	USPS	9414811899562694980025	11/7/2023
KERR-MCGEE OIL & GAS ONSHORE (c/o Oxy)	5 Greenway Plaza, Ste 110	Houston, TX 77046	USPS	9414811899562694980094	11/7/2023
MAGNUM HUNTER PETRO (c/o COG Oper)	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562694980087	11/7/2023
MATADOR PRODUCTION COMPANY	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562694980414	11/7/2023
MITCHELL ENERGY CORP (c/o Devon)	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899562694980407	11/7/2023
MOMENTUM OPERATING CO INC	PO Box 2439	Albany, TX 76430	USPS	9414811899562694980490	11/7/2023
MRC PERMIAN COMPANY	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562694980438	11/7/2023
MURCHISON OIL AND GAS, LLC	7250 Dallas Parkway, Ste 1400	Plano, TX 75024	USPS	9414811899562694980551	11/7/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562694980568	11/7/2023
OBO INC	PO Box 22577	Hialeah, FL 79704	USPS	9414811899562694980520	11/7/2023
OXY USA WTP LP	5 Greenway Plaza, Ste 110	Houston, TX 77046	USPS	9414811899562694980599	11/7/2023
PENROC OIL CORP	1515 W Calle Sur St	Hobbs, NM 88240	USPS	9414811899562694980544	11/7/2023
PRIME ROCK RESOURCES AGENT CO INC	203 W Wall St #1000	Midland, TX 79701	USPS	9414811899562694980537	11/7/2023
RAYBAW OPERATING, LLC	2626 Cole Avenue, Ste 300	Dallas, TX 75204	USPS	9414811899562694988212	11/7/2023
SAMSON RESOURCES CO	15 East 5th Street	Tulsa, OK 74103	USPS	9414811899562694988229	11/7/2023
SAP ACQUISITION LLC	6100 North Western Ave	Oklahoma City, OK 73118	USPS	9414811899562694988243	11/7/2023
SHACKELFORD OIL CO	11417 W County Rd 33	Midland, TX 79707	USPS	9414811899562694988854	11/7/2023
SNYDER RANCHES INC	19 Salty Dog Rd	Hobbs, NM 88240	USPS	9414811899562694988892	11/7/2023
TENNECO OIL CO (c/o Earthstone Oper)	1400 Woodloch Forest; Ste 300	The Woodlands, TX 77380	USPS	9414811899562694988847	11/7/2023
TRILOGY OPERATING INC	5819 W Wadley Ave	Midland, TX 79707	USPS	9414811899562694988830	11/7/2023
VYXOIL LLC	PO Box 5492	Santa Barbara, CA 93150	USPS	9414811899562694988878	11/7/2023

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

Date: 11/7/2023

U.S. Postal Service Certified Mail Receipt

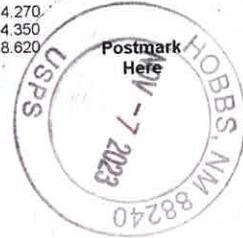
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ARTICLE ADDRESSED TO:

2AE LLC  
14982 MELCO AVE  
PARKER CO 80134-4437

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 2694 9809 33

ARTICLE ADDRESSED TO:

Apache Corporation  
303 VET AIRPARK LN STE 1000  
MIDLAND TX 79705-4572

FEES

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Certified Fee 4.350  
Total Postage & Fees: 8.620



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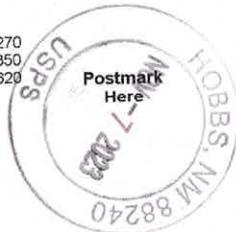
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ARTICLE ADDRESSED TO:

ARCO Permian  
200 WESTLAKE PARK BLVD STE 266  
HOUSTON TX 77079-2667

FEES

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Certified Fee 4.350  
Total Postage & Fees: 8.620



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ARTICLE ADDRESSED TO:

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

FEES

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Certified Fee 4.350  
Total Postage & Fees: 8.620



U.S. Postal Service Certified Mail Receipt

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ARTICLE ADDRESSED TO:

Burlington Res c/o ConocoPhillips  
PO BOX 2197  
HOUSTON TX 77252-2197

FEES

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Certified Fee 4.350  
Total Postage & Fees: 8.620



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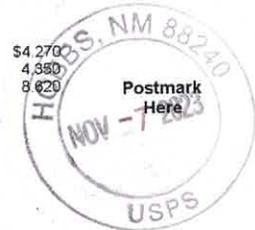
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BXP Partners V LP  
11757 KATY FWY STE 475  
HOUSTON TX 77079-1761

FEES

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Certified Fee 4.350  
Total Postage & Fees: 8.620



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ARTICLE NUMBER: 9414 8118 9956 2694 9801 17

ARTICLE ADDRESSED TO:

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

**FEES**  
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Certified Fee  
Total Postage & Fees:

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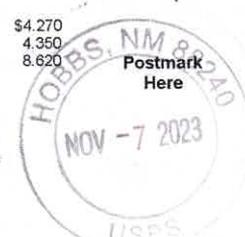
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Chesapeake Operating Inc.  
PO BOX 18496  
OKLAHOMA CITY OK 73154-0496

**FEES**  
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Total Postage & Fees:

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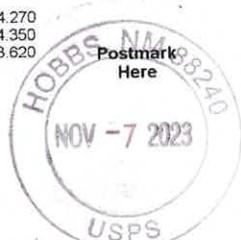
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Chevron USA  
6301 DEAUVILLE  
MIDLAND TX 79706-2964

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Total Postage & Fees:

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ARTICLE ADDRESSED TO:

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

**FEES**  
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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:

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

**FEES**  
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Certified Fee  
Total Postage & Fees:

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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2694 9803 53

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

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**ARTICLE ADDRESSED TO:**

ConocoPhillips Company  
PO BOX 2197  
HOUSTON TX 77252-2197

**FEES**

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



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

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**ARTICLE ADDRESSED TO:**

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

**FEES**

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



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**ARTICLE ADDRESSED TO:**

Grover-McKinney Oil Co  
PO BOX 3666  
MIDLAND TX 79702-3666

**FEES**

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



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**ARTICLE ADDRESSED TO:**

Intrepid Potash  
707 17TH ST STE 4200  
DENVER CO 80202-3432

**FEES**

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Certified Fee	4.350
Total Postage & Fees:	8.620



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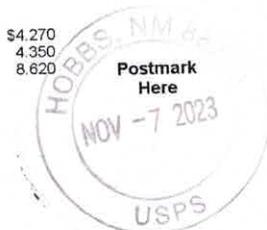
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**ARTICLE ADDRESSED TO:**

Kerr-McGee Oil & Gas c/o Oxy  
5 GREENWAY PLZ STE 110  
HOUSTON TX 77046-0521

**FEES**

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Certified Fee	4.350
Total Postage & Fees:	8.620



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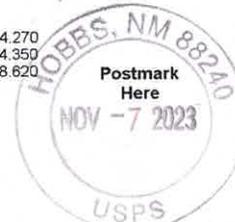
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**ARTICLE ADDRESSED TO:**

Magnum Hunter c/o COG Oper  
600 W ILLINOIS AVE  
MIDLAND TX 79701-4882

**FEES**

Postage Per Piece	\$4.270
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Total Postage & Fees:	8.620



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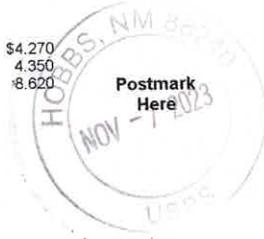
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Matador Production Company  
5400 LBJ FWY STE 1500  
DALLAS TX 75240-1017

FEES

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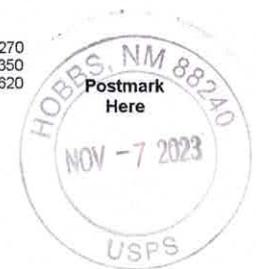
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Mitchell Energy c/o Devon Energy  
333 W SHERIDAN AVE  
OKLAHOMA CITY OK 73102-5010

FEES

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Total Postage & Fees: 8.620



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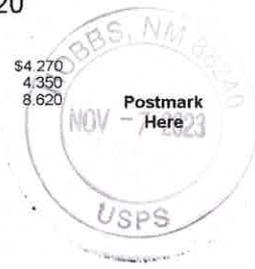
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ARTICLE ADDRESSED TO:

Momentum Operating Co  
PO BOX 2439  
ALBANY TX 76430-8020

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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ARTICLE ADDRESSED TO:

MRC Permian Company  
5400 LBJ FWY STE 1500  
DALLAS TX 75240-1017

FEES

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



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2694 9805 51

ARTICLE ADDRESSED TO:

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

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 2694 9805 68

ARTICLE ADDRESSED TO:

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

FEES

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



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2694 9805 20

ARTICLE ADDRESSED TO:

OBO Inc.  
PO BOX 22577  
HIALEAH FL 33002-2577

**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 2694 9805 99

ARTICLE ADDRESSED TO:

Oxy USA WTP LP  
5 GREENWAY PLZ STE 110  
HOUSTON TX 77046-0521

**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 2694 9805 44

ARTICLE ADDRESSED TO:

Penroc Oil Corp  
1515 W CALLE SUR ST STE 101  
HOBBS NM 88240-1318

**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 2694 9805 37

ARTICLE ADDRESSED TO:

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

**FEES**  
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Certified Fee 4.350  
Total Postage & Fees: 8.620



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2694 9882 12

ARTICLE ADDRESSED TO:

Raybaw Operating, LLC  
2626 COLE AVE STE 300  
DALLAS TX 75204-1094

**FEES**  
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Certified Fee 4.350  
Total Postage & Fees: 8.620



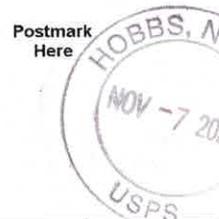
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ARTICLE NUMBER: 9414 8118 9956 2694 9882 29

ARTICLE ADDRESSED TO:

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

**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 2694 9882 43

ARTICLE ADDRESSED TO:

SAP Acquisition LLC  
6100 N WESTERN AVE  
OKLAHOMA CITY OK 73118-1044

<b>FEES</b>	
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 2694 9889 54

ARTICLE ADDRESSED TO:

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

<b>FEES</b>	
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 2694 9888 92

ARTICLE ADDRESSED TO:

Snyder Ranches Inc.  
19 SALTY DOG RD  
HOBBS NM 88240

<b>FEES</b>	
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 2694 9888 47

ARTICLE ADDRESSED TO:

Tenneco Oil Co c/o Earthstone Oper  
1200 WOODLOCH FOREST, STE 300  
THE WOODLANDS TX 77380

<b>FEES</b>	
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 2694 9888 30

ARTICLE ADDRESSED TO:

Trilogy Operating Inc.  
5819 W WADLEY AVE  
MIDLAND TX 79707-5055

<b>FEES</b>	
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 2694 9888 78

ARTICLE ADDRESSED TO:

VYXOIL LLC  
PO BOX 5492  
SANTA BARBARA CA 93150-5492

<b>FEES</b>	
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Certified Fee	4.350
Total Postage & Fees:	8.620



# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

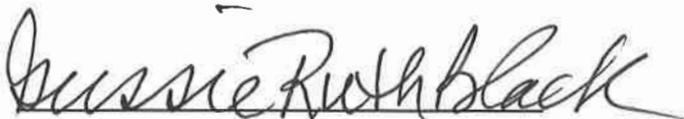
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
July 30, 2023  
and ending with the issue dated  
July 30, 2023.



Publisher

Sworn and subscribed to before me this  
30th day of July 2023.



Business Manager

My commission expires  
January 29, 2027

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

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 publication has been made.

**LEGAL NOTICE**  
**July 30, 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 Vital Federal SWD #1, and is located 335' FSL & 258' FWL, Unit M, Section 10, Township 20 South, Range 33 East, NMPM, approximately 23 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 14,800 feet to 15,842 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,960 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.  
#00281051

67115647

00281051

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



**Attachment to C-108  
Permian Oilfield Partners, LLC  
Vital Federal SWD #1  
335' FSL & 258' FWL  
Sec 11, T20S, R33E  
Lea County, NM**

November 5, 2023

**STATEMENT REGARDING SEISMICITY**

Examination of the USGS and NMTSO seismic activity databases shows no historic seismic activity  $>M2.0$  in the area ( $< 5.64$  mile radius, 25 sq. mi.) of the proposed above referenced SWD well. 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 2.0 miles away from the nearest active or permitted Devonian disposal well (Permian TDS Coombes SWD #1, SWD-1996).

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.

There is one known fault within the area of interest (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, approximately 5.4 mi (8.7 km) to the east.

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. Devonian wells as noted in the table below are included in the FSP analysis. Two Permian Oilfield Partners SWD applications were modeled assuming simultaneous injection, the subject of this application, the Vital Federal SWD #1, and the Imperative Federal SWD #1. Interval depth is the lesser of the Vital & Imperative, and interval height is the lesser of the Vital & Imperative.

UIC Order	Well Name	PLSS	Lat	Lon	Rate (bbl/day)
SWD-1537	Quail 16 State SWD #9	16-20S-34E	32.5687732	-103.5662994	1,800
SWD-1996	Coombes SWD #1	22-20S-33E	32.5558627	-103.6431607	30,000
SWD-2369	Wildrye Fee SWD #1	20-19S-35E	32.6521540	-103.4716360	25,000
SWD-1525	Wild Cobra 1 State SWD #2	1-19S-34E	32.6952372	-103.5170732	2,500
SWD-1777	Libby Berry Fee SWD #2	22-20S-34E	32.5644180	-103.5403940	15,870
Pending	Imperative Federal SWD #1	11-20S-33E	32.5927551	-103.6341248	50,000
Pending	Vital Federal SWD #1	10-20D-34E	32.5813206	-103.6588529	50,000

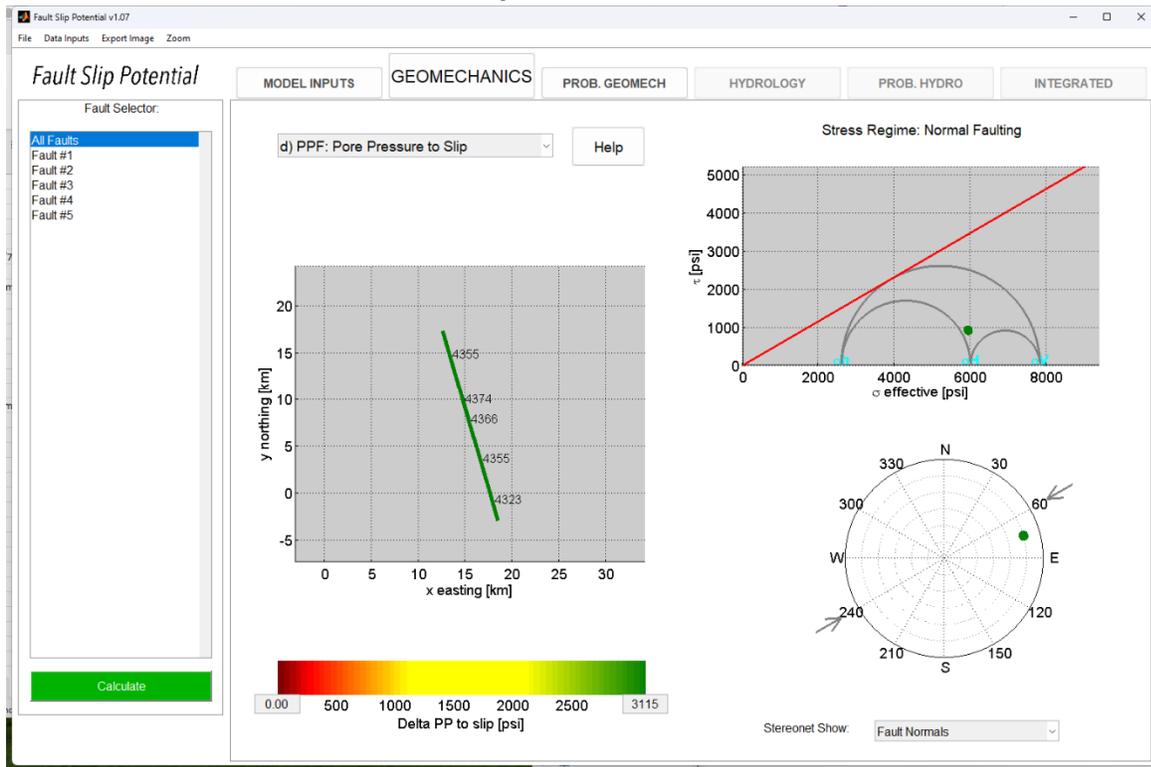
3. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

**Input assumptions:**

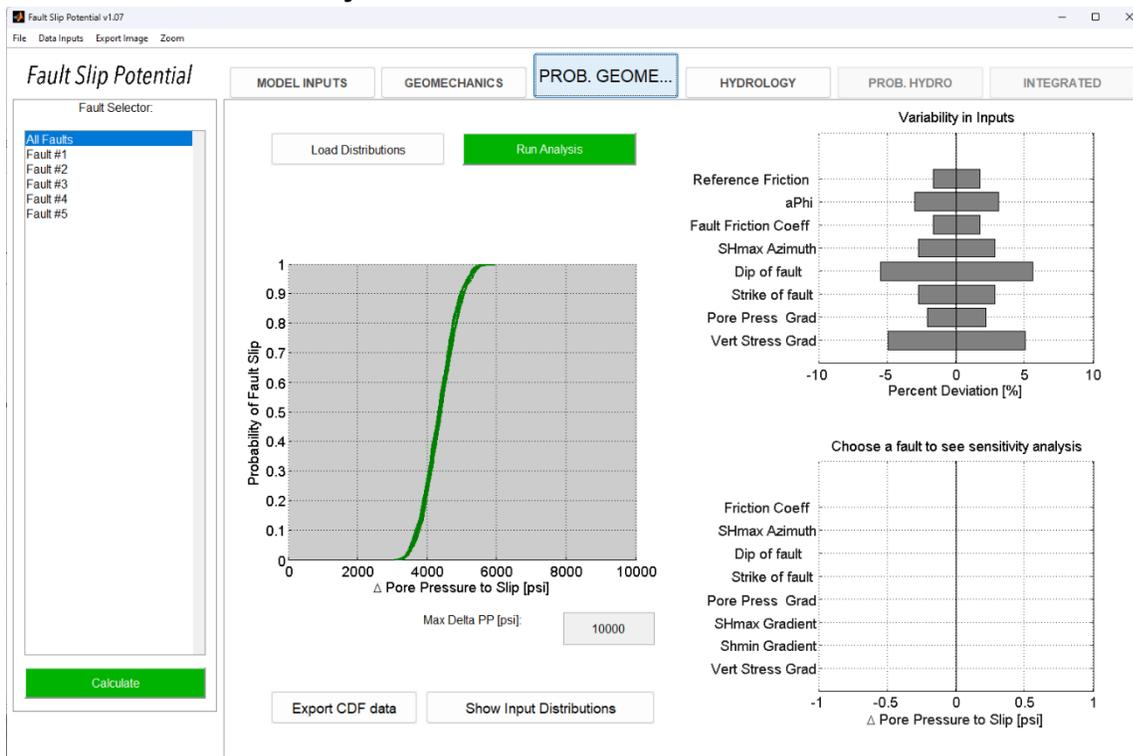
Interval height (ft)	1042
Average Porosity (%)	5
Vert stress gradient (psi/ft)	1.0
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14761
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	20
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

**Note:** In screenshots below,  
 Injection Well #1: Prop. Imperative Fed SWD #1  
 Injection Well #2: Quail 16 State SWD #9  
 Injection Well #3: Coombes SWD #1  
 Injection Well #4: Wildrye Fee SWD #1  
 Injection Well #5: Wild Cobra 1 State SWD #2  
 Injection Well #6: Libby Berry Fee SWD #2  
 Injection Well #7: Prop. Vital Fed SWD #1

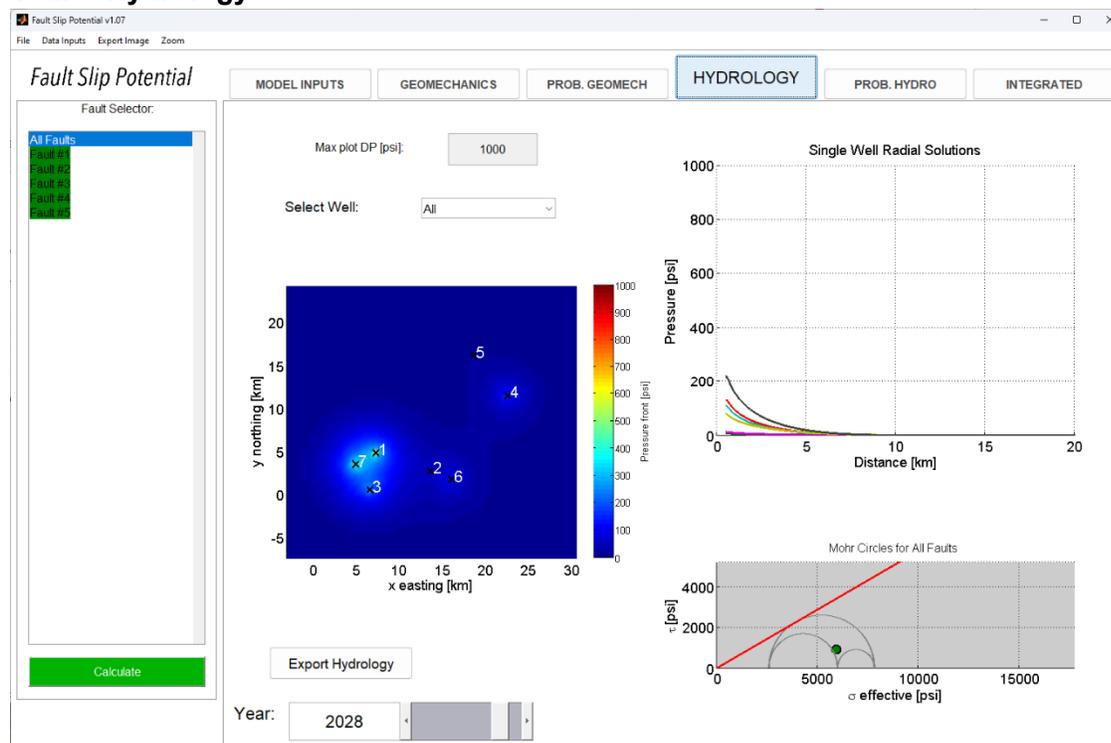
### Geomechanics Pore Pressure to Slip



### GeoMechanics Variability



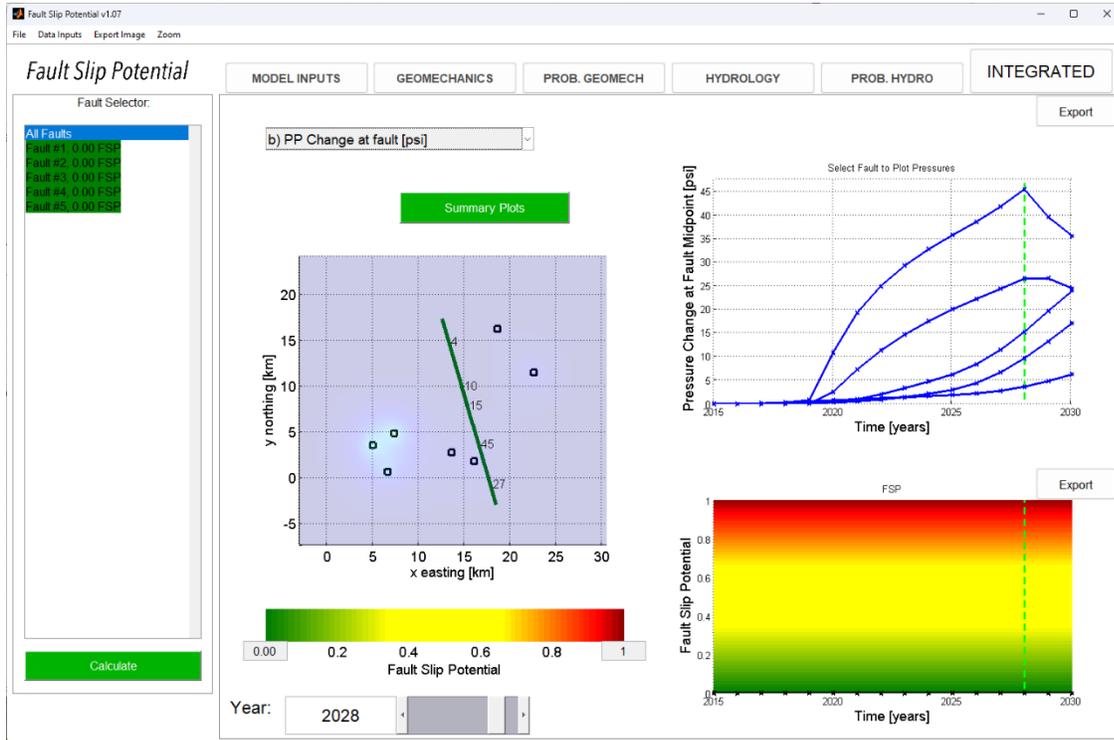
### Year 5 Hydrology



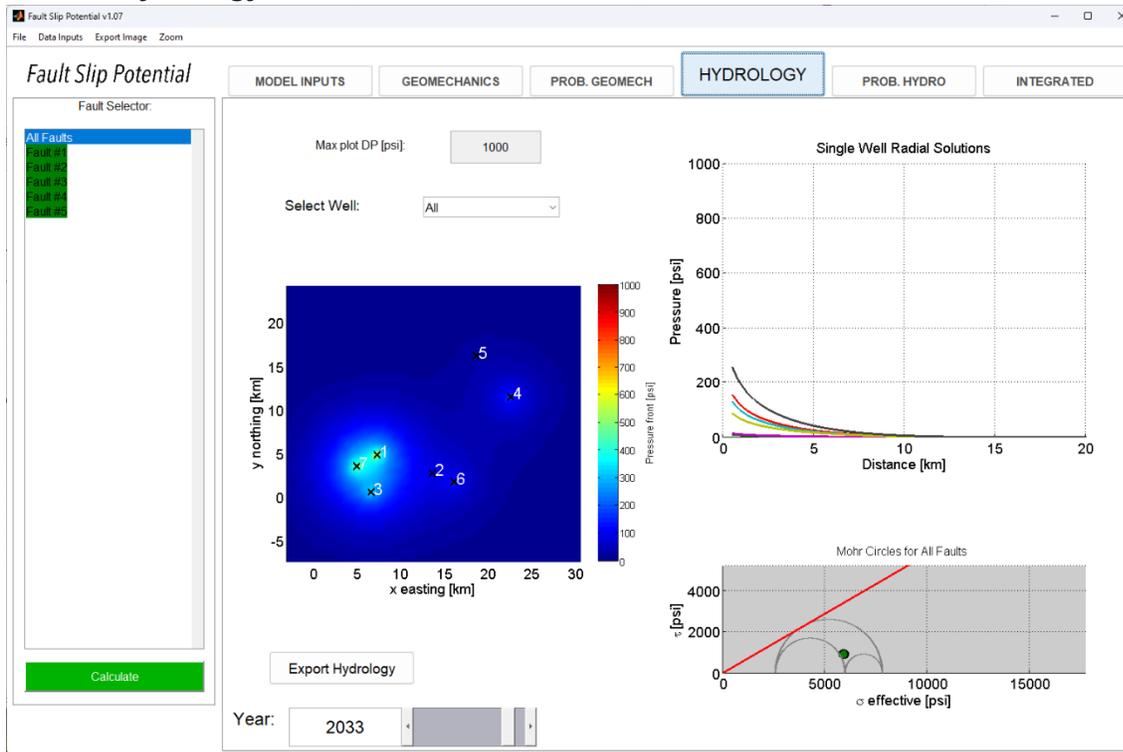
### Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



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



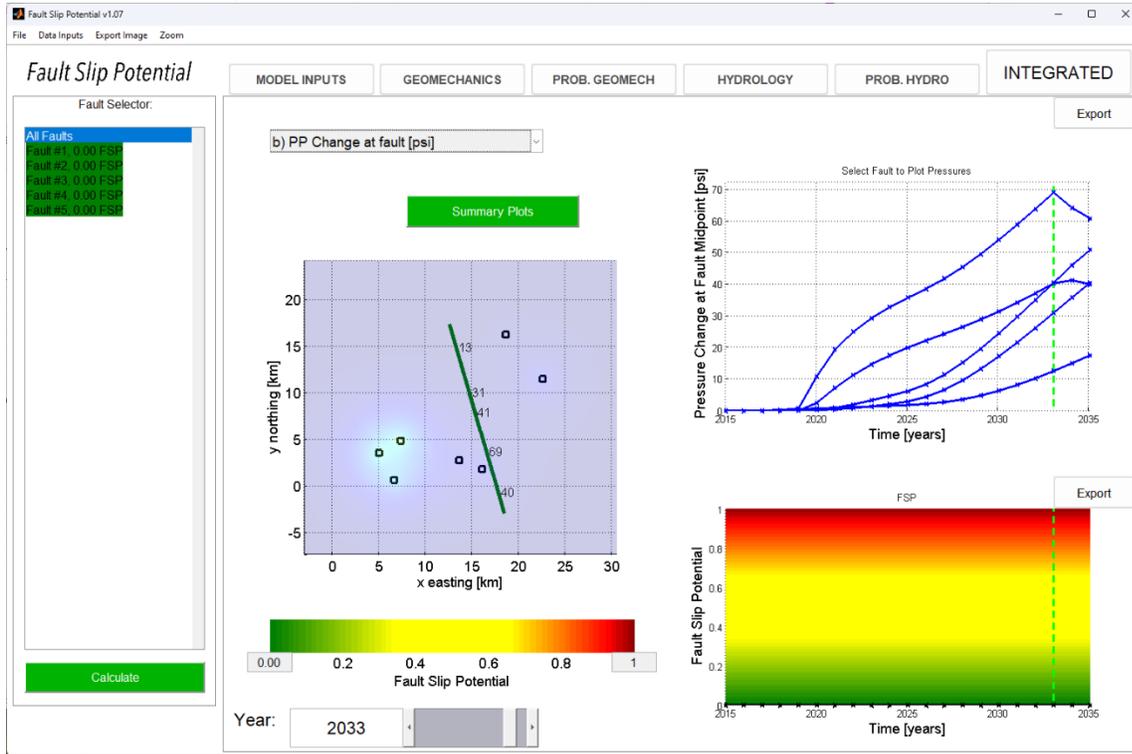
### Year 10 Hydrology



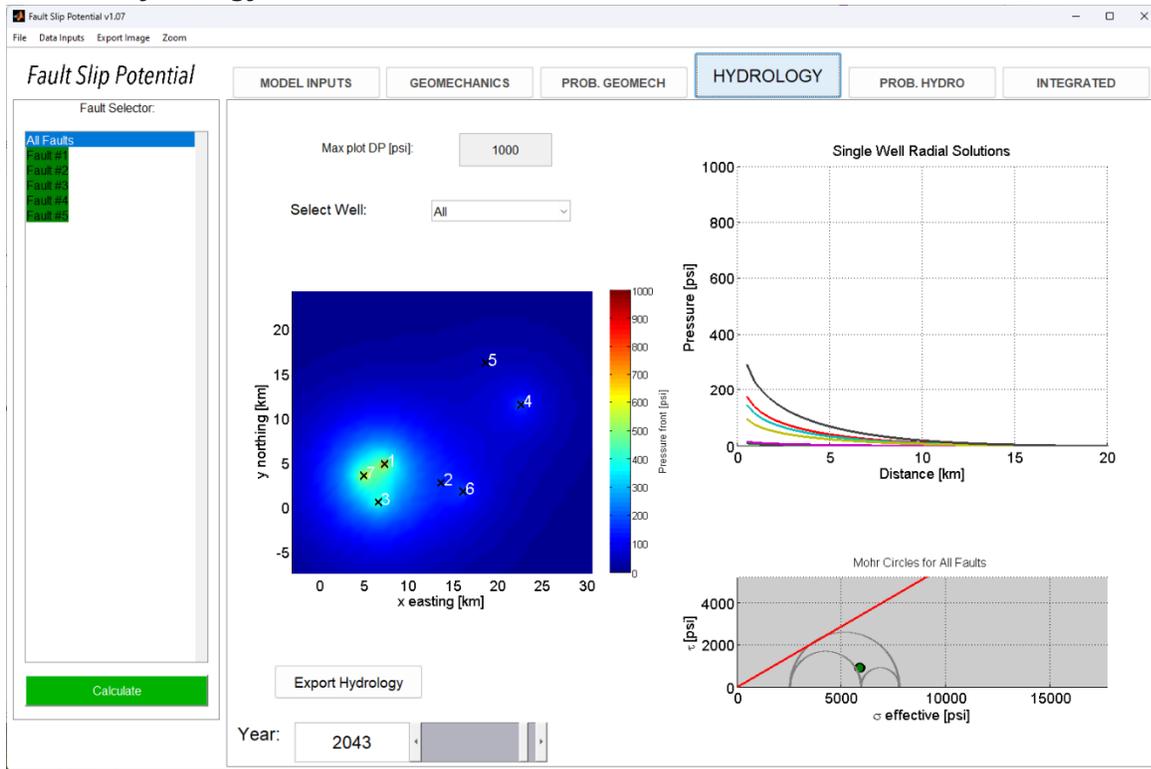
### Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



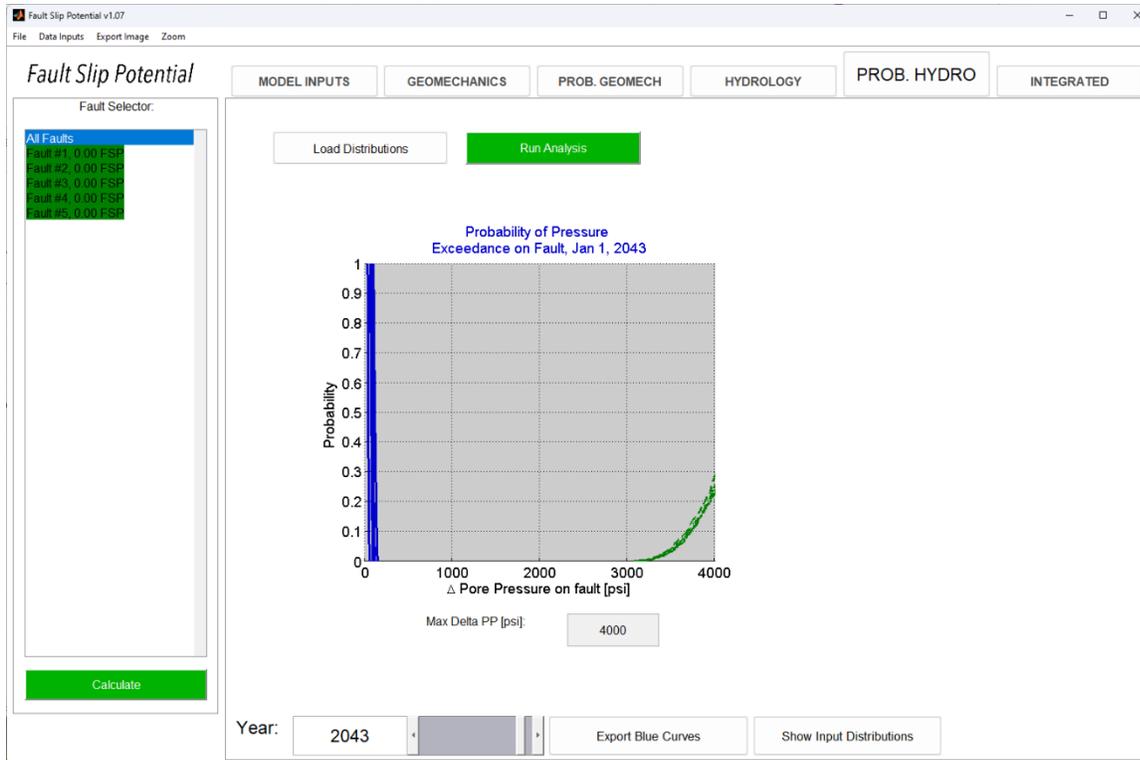
### Year 10 Fault Slip Probability (0% after 10 years)



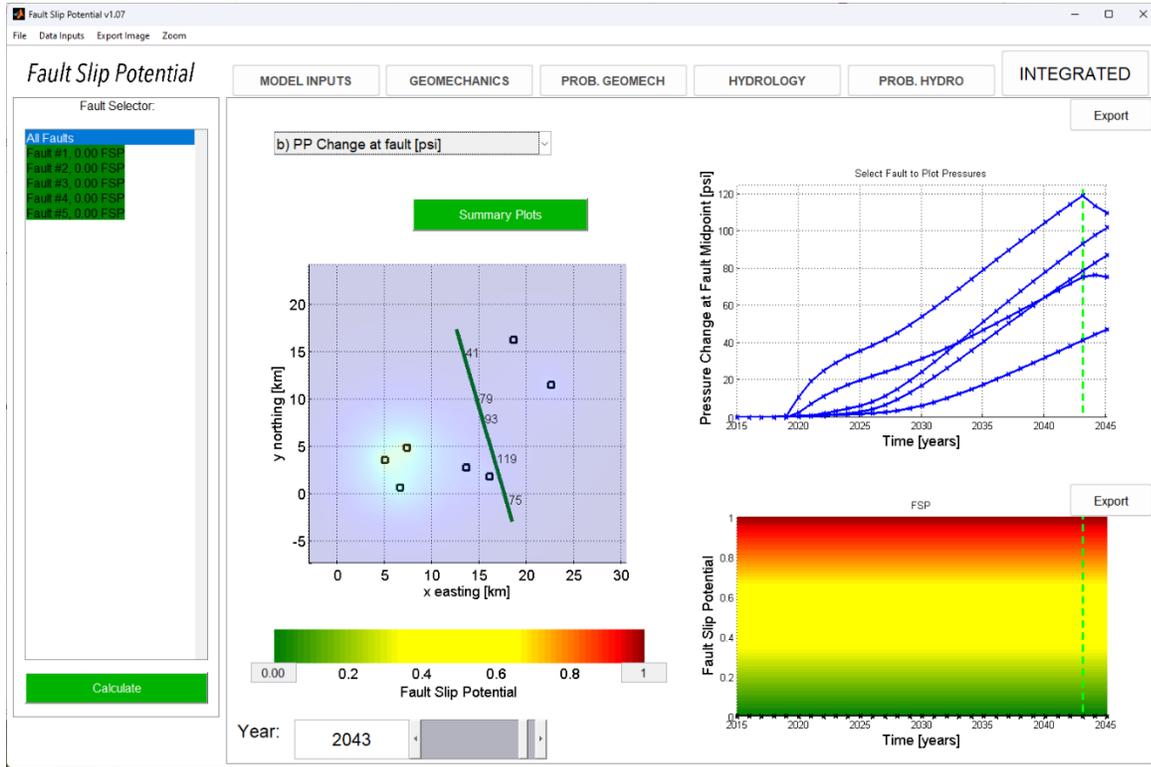
### Year 20 Hydrology



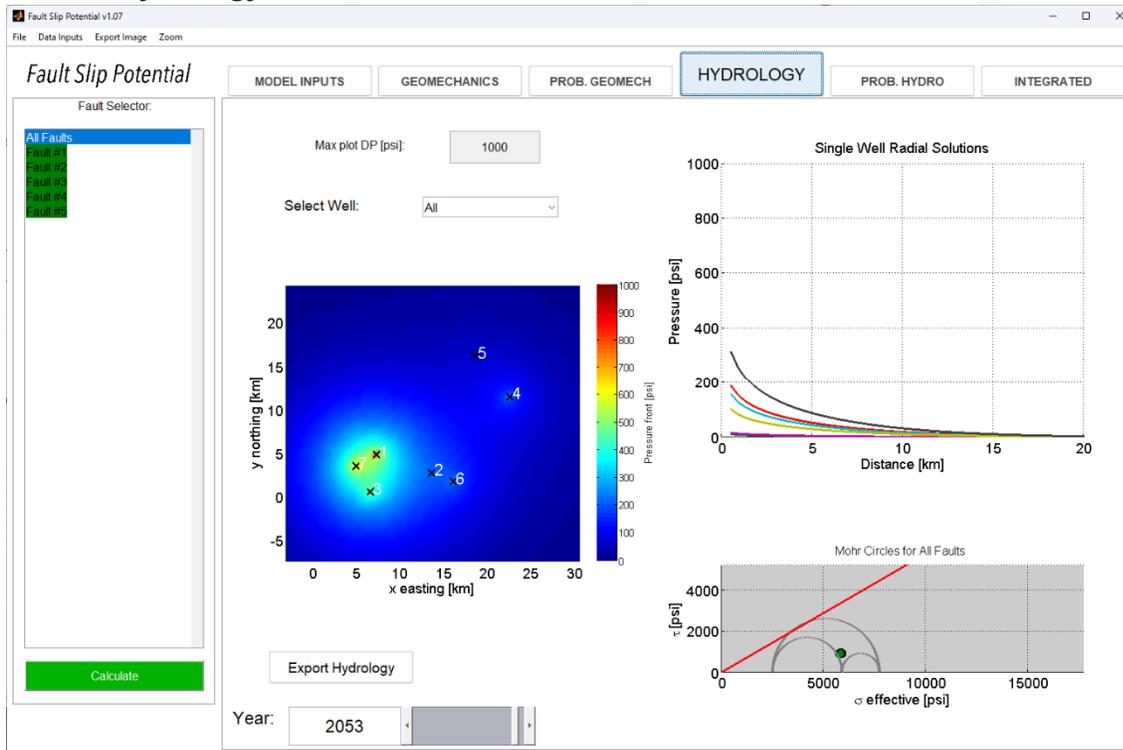
### Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



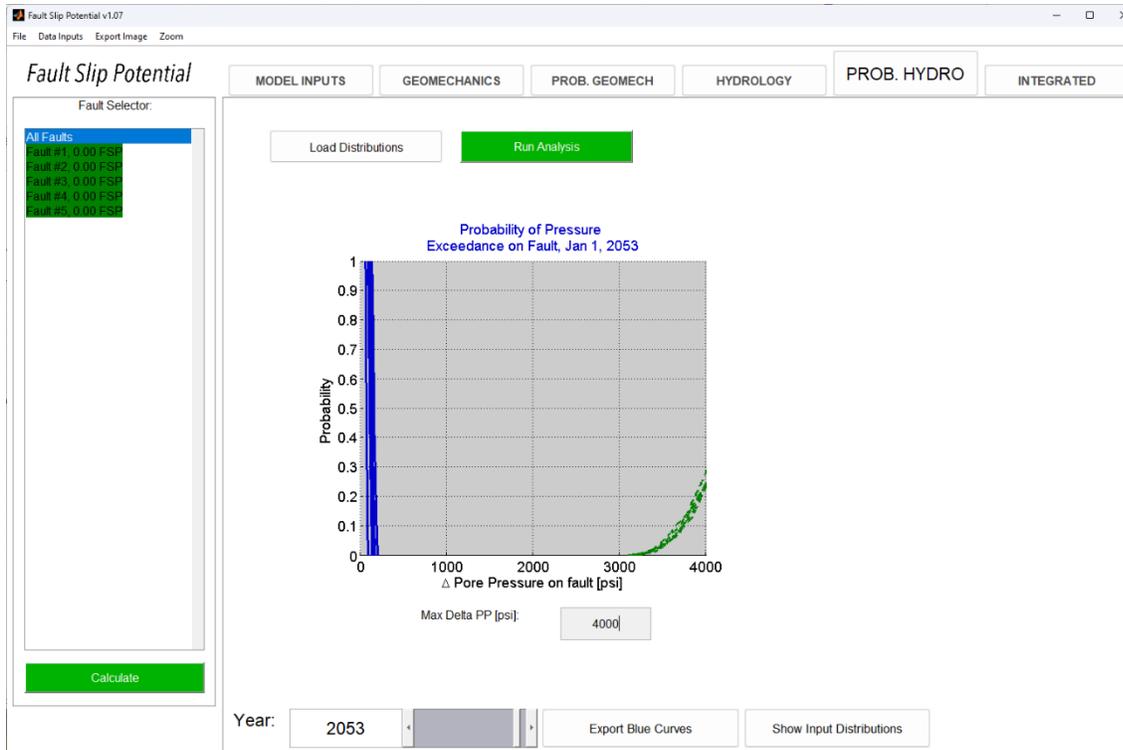
### Year 20 Fault Slip Probability (0% after 20 years)



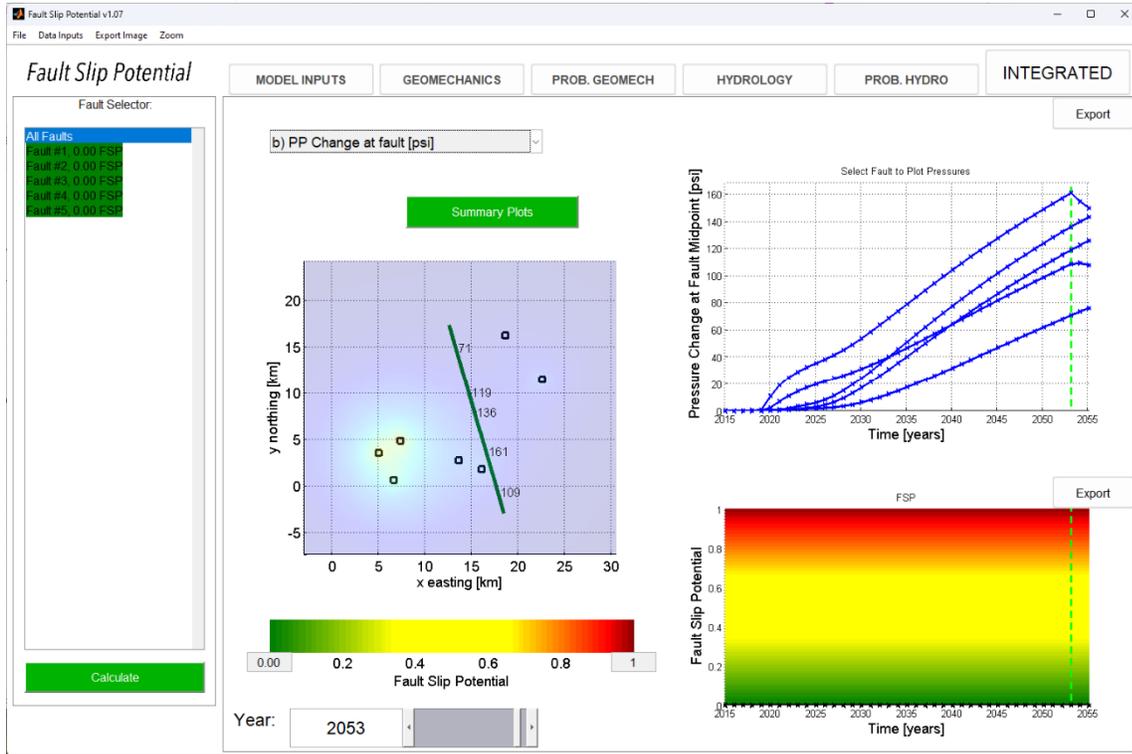
### Year 30 Hydrology



### 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](mailto:gfisher@popmidstream.com)

(817) 606-7630

**District I**  
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**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 287984

**CONDITIONS**

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 287984
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

**CONDITIONS**

Created By	Condition	Condition Date
mgebremichael	None	11/22/2023