

AE Order Number Banner

Application Number: pMSG2332648324

SWD-2582

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: Imperative 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

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 14,761'

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 2,959 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.

GEOLOGY PROGNOSIS			
FORMATION	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>
	KB TVD (ft)	KB TVD (ft)	(ft)
Rustler	1,417	1,642	225
Salt	1,642	3,325	1,683
Yates	3,325	3,648	323
Capitan Reef	3,648	5,219	1,571
Delaware	5,219	8,337	3,118
Bone Spring	8,337	11,004	2,667
Wolfcamp	11,004	12,266	1,262
Mississippi Lm.	14,085	14,595	510
Woodford	14,595	14,761	166
Devonian	14,761	15,572	811
Fusselman (Silurian)	15,572	15,918	346
Montoya (U. Ordovician)	15,918	16,331	413
Simpson (M. Ordovician)	16,331	16,782	451

- 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 13,911'. There is a deeper potential USDW in the Capitan Reef formation. Depth from the bottom of this potential USDW to the injection zone is 9,542'. 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 are two PODs that have been drilled, but plugged as dry holes, CP-01865 POD 1 & CP-01865-POD2. Water right summary and transaction summary documents from the NMOSE showing the POD statuses as dry hole plugged are attached. See attached 1 mile AOR water well map showing these 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 IMPERATIVE FEDERAL SWD			⁶ Well Number 1
⁷ OGRID NO. 328259		⁸ Operator Name PERMIAN OILFIELD PARTNERS, LLC			⁹ Elevation 3586'

¹⁰ Surface Location

UL or lot no. C	Section 11	Township 20S	Range 33E	Lot Idn	Feet from the 795	North/South line NORTH	Feet From the 2600	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

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

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

<p>(C) S 89°22'49" W 2661.77'</p> <p>(D) S 89°41'35" W 2648.39'</p> <p>(E)</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature <i>Gary Fisher</i> Date 7/24/2023</p> <p>Printed Name Gary Fisher</p> <p>E-mail Address gfisher@popmidstream.com</p>
<p>(B) N 00°43'24" W 2629.78'</p> <p>(A) N 00°24'14" W 2642.24'</p> <p>(G) S 89°12'41" W 2646.70'</p> <p>(F) N 89°54'10" W 2646.40'</p>		

2600'

795'

S.L.

GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 580082.8 - E: 756680.1

LAT: 32.5927551° N
LONG: 103.6341248° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1912"
N: 575578.9 - E: 754122.5

B: FOUND BRASS CAP "1912"
N: 578220.5 - E: 754103.9

C: FOUND BRASS CAP "1912"
N: 580849.5 - E: 754070.7

D: FOUND BRASS CAP "1912"
N: 580878.3 - E: 756731.8

E: FOUND BRASS CAP "1912"
N: 580892.5 - E: 759379.6

F: FOUND IRON PIPE
N: 575610.8 - E: 759414.3

G: FOUND BRASS CAP "1912"
N: 575615.3 - E: 756768.4

¹⁸ SURVEYOR CERTIFICATION

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

07/20/2023
Date of Survey

Signature and Seal of Professional Surveyor

14400
Certificate Number

07/24/2023

14400
Job No.: LS23070605

DALE E. BELL
NEW MEXICO
14400
PROFESSIONAL SURVEYOR

III (A)

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
 Imperative Federal SWD #1
 795' FNL, 2600' FWL
 Lot C, Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.5927551° N, Lon -103.6341248° W
 GL 3586', RKB 3616'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1442'
 Cement: 1331 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: 3598'
 Cement: 1096 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: 5244' ECP/DV Tool: 3698'
 Cement: 785 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: 11054' ECP/5344'
 Cement: 1808 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: 10854'
 Depth Btm: 14796'
 Cement: 254 sks - Class H + Additives
 Cement Top: 10854' - Circulate, then Bond Log

Intermediate #5 - (Open Hole)

Hole Size: 6.5" Depth: 15868'
 Inj. Interval: 14796' - 15868' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14751' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10854'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14761' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives

III (A)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.

Imperative Federal SWD #1

795' FNL, 2600' FWL

Lot C, Sec. 11, T20S, R33E, Lea Co. NM

Lat 32.5927551° N, Lon -103.6341248° W

GL 3586', RKB 3616'

Surface - (Conventional)

Hole Size: 26"
 Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1442'
 Cement: 1331 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: 3598'
 Cement: 1096 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: 5244'
 Cement: 785 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 3698'

Intermediate #3 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 11054'
 Cement: 1808 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 5344'

Intermediate #4 - (Liner)

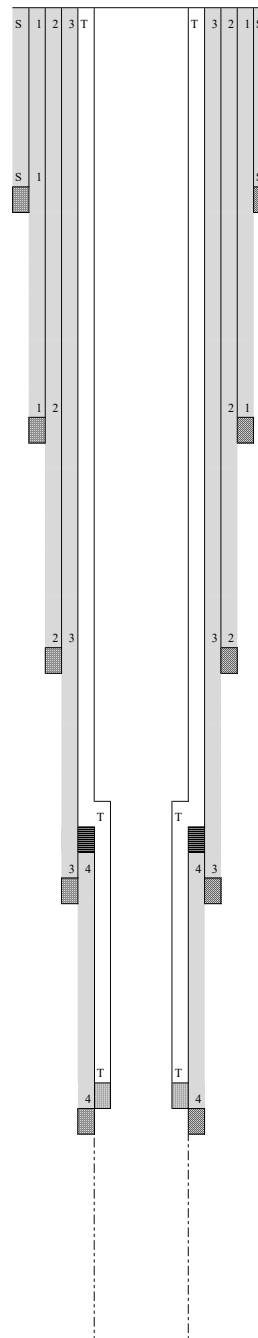
Hole Size: 8.5"
 Casing: 7.625" - 39# HCL-80 FJ Casing
 Depth Top: 10854'
 Depth Btm: 14796'
 Cement: 254 sks - Class H + Additives
 Cement Top: 10854' - Circulate, then Bond Log

Intermediate #5 - (Open Hole)

Hole Size: 6.5"
 Depth: 15868'
 Inj. Interval: 14796' - 15868' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14751'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10854'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14761'
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives



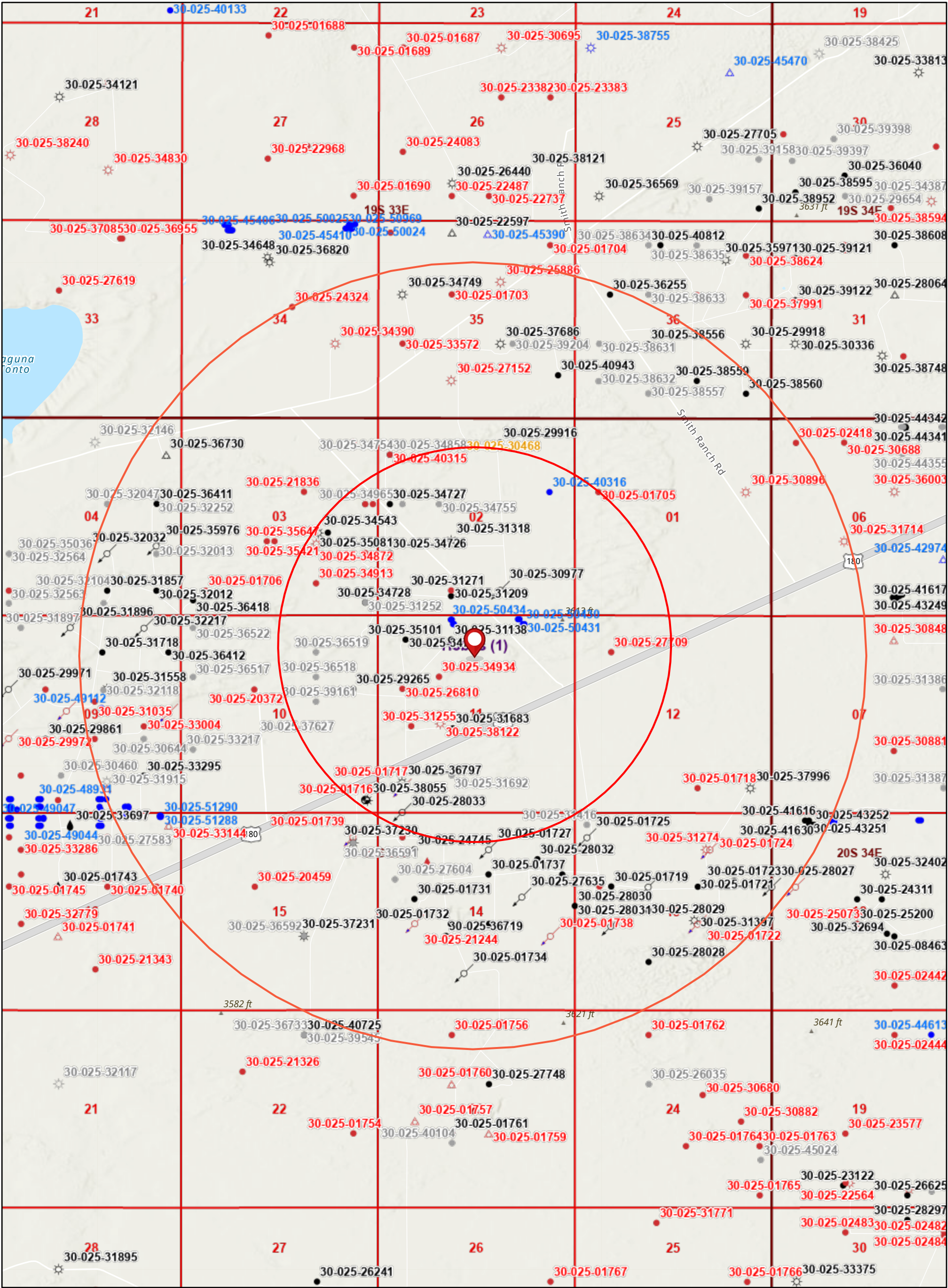
Imperative Federal SWD #1, 1 & 2 Mi AOR, Leases



Released to Imaging: 11/22/2023 1:32:59 PM

V (b)

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



7/24/2023, 6:00:57 PM

- Override 1

Wells - Large Scale

Miscellaneous

Gas, Active

Gas, Cancelled

Gas, New

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

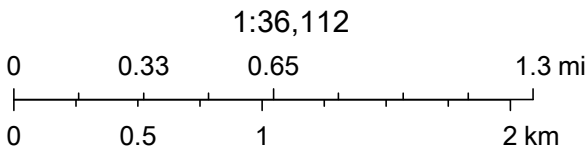
Water, Active

Water, Plugged

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.

Imperative 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	
30-025-34913	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	O	O-03-20S-33E 855 FSL 1650 FEL	O-03-20S-33E 855 FSL 1650 FEL	BONE SPRING	9280	9280	
30-025-36518	SHACKELFORD OIL CO	TONTO FEDERAL	#005	Oil	Vertical	Cancelled Apd	10	T20S	R33E	G	G-10-20S-33E 1650 FNL 1650 FEL	G-10-20S-33E 1650 FNL 1650 FEL	DELAWARE	8300	8300	
30-025-34872	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#001	Gas	Vertical	Plugged, Site Released	03	T20S	R33E	J	J-03-20S-33E 1900 FSL 1650 FEL	J-03-20S-33E 1900 FSL 1650 FEL	DELAWARE	9700	9700	
30-025-39161	MURCHISON OIL AND GAS, LLC	TONTO FEDERAL	#008	Oil	Vertical	Cancelled Apd	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 Apd	10	T20S	R33E	B	B-10-20S-33E 990 FNL 1650 FEL	B-10-20S-33E 990 FNL 1650 FEL	DELAWARE	8300	8300	
30-025-34543	EARTHSTONE OPERATING, LLC	VIPER 3 FEDERAL	#001	Gas	Directional	Active	03	T20S	R33E	J	J-03-20S-33E 2200 FSL 1600 FEL	G-03-20S-33E 3067 FSL 2012 FEL	MORROW	13830	13725	
30-025-35081	EARTHSTONE OPERATING, LLC	PYTHON 3 FEDERAL	#003	Oil	Directional	Active	03	T20S	R33E	J	J-03-20S-33E 2200 FSL 1330 FEL	G-03-20S-33E 2050 FNL 1758 FEL	DELAWARE	9813	9630	
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	
30-025-35101	SHACKELFORD OIL CO	TONTO FEDERAL	#002	Oil	Vertical	Active	10	T20S	R33E	A	A-10-20S-33E 660 FNL 330 FEL	A-10-20S-33E 660 FNL 330 FEL	DELAWARE	8200	8200	
30-025-34935	SHACKELFORD OIL CO	TONTO FEDERAL	#004	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	I	I-03-20S-33E 1650 FSL 330 FEL	I-03-20S-33E 1650 FSL 330 FEL	DELAWARE	9700	9700	
30-025-34728	SHACKELFORD OIL CO	TONTO FEDERAL	#003	Oil	Vertical	Active	03	T20S	R33E	P	P-03-20S-33E 330 FSL 330 FEL	P-03-20S-33E 330 FSL 330 FEL	DELAWARE	9570	9570	
30-025-35475	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#005	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	H	H-03-20S-33E 2310 FNL 330 FEL	H-03-20S-33E 2310 FNL 330 FEL	BONE SPRING	10033	10033	
30-025-31252	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Apd	03	T20S	R33E	P	P-03-20S-33E 330 FSL 330 FEL	P-03-20S-33E 330 FSL 330 FEL	BONE SPRING	9750	9750	
30-025-38055	CIMAREX ENERGY CO. OF COLORADO	NEW SHERIFF 10 FEDERAL COM	#001	Gas	Directional	Active	10	T20S	R33E	P	P-10-20S-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	
30-025-34965	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#003H	Oil	Vertical	Cancelled Apd	03	T20S	R33E	H	H-03-20S-33E 2310 FNL 330 FEL	H-03-20S-33E 2310 FNL 330 FEL	BONE SPRING	9700	9700	
30-025-35474	NEARBURG PRODUCING CO	PYTHON 3 FEDERAL	#004	Oil	Vertical	Plugged, Site Released	03	T20S	R33E	H	H-03-20S-33E 2310 FNL 130 FEL	H-03-20S-33E 1685 FNL 976 FEL	DELAWARE	6905	6905	
30-025-34727	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#008	Oil	Vertical	Active	02	T20S	R33E	E	E-02-20S-33E 2310 FNL 330 FWL	E-02-20S-33E 2310 FNL 330 FWL	YATES	9700	9700	
30-025-34726	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#007	Oil	Vertical	Active	02	T20S	R33E	L	L-02-20S-33E 1650 FSL 330 FWL	L-02-20S-33E 1650 FSL 330 FWL	DELAWARE	9700	9700	
30-025-28033	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#132	Injection	Vertical	Active	11	T20S	R33E	M	M-11-20S-33E 10 FSL 660 FWL	M-11-20S-33E 10 FSL 660 FWL	YATES	3380	3380	
30-025-36797	COG OPERATING LLC	GUNSINGER 11 FEDERAL COM	#001	Gas	Vertical	Active	11	T20S	R33E	M	M-11-20S-33E 810 FSL 660 FWL	M-11-20S-33E 810 FSL 660 FWL	PENN	13850	13850	
30-025-01717	ANADARKO PETROLEUM CORP	TEAS YATES UNIT	#001	Injection	Vertical	Plugged, Site Released	11	T20S	R33E	M	M-11-20S-33E 660 FSL 660 FWL	M-11-20S-33E 0 FSL 660 FWL	YATES	3496	3496	
30-025-31319	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#007	Oil	Vertical	Cancelled Apd	02	T20S	R33E	E	E-02-20S-33E 1980 FNL 660 FWL	E-02-20S-33E 1980 FNL 660 FWL	BONE SPRING	9700	9700	
30-025-26810	COG OPERATING LLC	SMITH RANCH FEDERAL	#001	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	E	E-11-20S-33E 1980 FNL 660 FWL	E-11-20S-33E 1980 FNL 660 FWL	BONE SPRING	13650	13650	
30-025-40128	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#012	Oil	Vertical	Cancelled Apd	02	T20S	R33E	E	E-02-20S-33E 2310 FNL 660 FWL	E-02-20S-33E 2310 FNL 660 FWL	YATES	3700	3700	
30-025-31351	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Cancelled Apd	11	T20S	R33E	D	D-11-20S-33E 330 FNL 660 FWL	D-11-20S-33E 330 FNL 660 FWL	BONE SPRING	9750	9750	
30-025-34701	EARTHSTONE OPERATING, LLC	ANACONDA 11 FEDERAL	#001	Oil	Vertical	Active	11	T20S	R33E	D	D-11-20S-33E 660 FNL 760 FWL	D-11-20S-33E 660 FNL 760 FWL	DELAWARE	9720	9720	
30-025-31271	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#005	Oil	Vertical	Active	02	T20S	R33E	M	M-02-20S-33E 660 FSL 810 FWL	M-02-20S-33E 660 FSL 810 FWL	BONE SPRING	10340	10340	
30-025-31255	MERIT ENERGY COMPANY, LLC	SMITH RANCH 11 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	L	L-11-20S-33E 2310 FSL 900 FWL	L-11-20S-33E 2310 FSL 900 FWL	BONE SPRING	9700	9700	
30-025-34755	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#011	Oil	Vertical	Cancelled Apd	02	T20S	R33E	F	F-02-20S-33E 2310 FNL 1650 FWL	F-02-20S-33E 2310 FNL 1650 FWL	DELAWARE	7000	7000	
30-025-01730	MOMENTUM OPERATING CO INC	TEAS YATES UNIT	#052	Oil	Vertical	Active	14	T20S	R33E	C	C-14-20S-33E 660 FNL 1650 FWL	C-14-20S-33E 660 FNL 1650 FWL	YATES	3392	3392	
30-025-34934	NEARBURG PRODUCING CO	ANACONDA 11 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	11	T20S	R33E	F	F-11-20S-33E 1650 FNL 1650 FWL	F-11-20S-33E 1650 FNL 1650 FWL	BONE SPRING	10450	10450	
30-025-31138	COG OPERATING LLC	SMITH RANCH FEDERAL	#002	Oil	Vertical	Active	11	T20S	R33E	C	C-11-20S-33E 660 FNL 1980 FWL	C-11-20S-33E 660 FNL 1980 FWL	BONE SPRING	9746	9746	
30-025-01735	BXP OPERATING, LLC	MAHAFFEY ARC FEDERAL	#001	Oil	Vertical	Active	14	T20S	R33E	C	C-14-20S-33E 660 FNL 1980 FWL	C-14-20S-33E 660 FNL 1980 FWL	BONE SPRING	14115	14115	
30-025-31692	DEVON ENERGY PRODUCTION COMPANY, LP	SMITH RANCH 11 FEDERAL	#003	Oil	Vertical	Cancelled Apd	11	T20S	R33E	N	N-11-20S-33E 990 FSL 1980 FWL	N-11-20S-33E 990 FSL 1980 FWL	BONE SPRING	10350	10350	
30-025-23897	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	02	T20S	R33E	N	N-02-20S-33E 660 FSL 1980 FWL	N-02-20S-33E 660 FSL 1980 FWL	YATES	3562	3562	
30-025-31209	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#004	Oil	Vertical	Active	02	T20S	R33E	N	N-02-20S-33E 510 FSL 1980 FWL	N-02-20S-33E 510 FSL 1980 FWL	BONE SPRING	10297	10297	
30-025-31683	BXP OPERATING, LLC	SMITH RANCH 11 FEDERAL	#002	Oil	Vertical	Active	11	T20S	R33E	K	K-11-20S-33E 2250 FSL 2014 FWL	K-11-20S-33E 2250 FSL 2014 FWL	BONE SPRING	9520	9520	
30-025-31318	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#006H	Gas	Horizontal	Active	02	T20S	R33E	K	K-02-20S-33E 1980 FSL 1980 FWL	K-02-20S-33E 1980 FSL 1980 FWL	BONE SPRING	13640	10188	
30-025-38122	COG OPERATING LLC	GUNSINGER 11 FEDERAL COM	#002	Gas	Directional	Plugged, Site Released	11	T20S	R33E	K	K-11-20S-33E 2380 FSL 1675 FWL	J-11-20S-33E 2010 FSL 3322 FWL	PENN	14080	13913	
30-025-30977	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#003	Injection	Vertical	Active	02	T20S	R33E	O	O-02-20S-33E 660 FSL 1980 FEL	O-02-20S-33E 660 FSL 1980 FEL	BONE SPRING	13700	13700	
30-025-40316	BTA OIL PRODUCERS, LLC	GEM 8705 JV-P	#011H	Oil	Horizontal	New	02	T20S	R33E	H	H-02-20S-33E 1980 FNL 660 FEL	E-02-20S-33E 2099 FNL 332 FWL	BONE SPRING	14369	10230	
30-025-01705	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	01	T20S	R33E	E	E-01-20S-33E 1980 FNL 660 FWL	E-01-20S-33E 1980 FNL 660 FWL	YATES	3684	3684	
30-025-27709	COG OPERATING LLC	EAST SMITH RANCH FEDERAL	#001	Oil	Vertical	Plugged, Site Released	12	T20S	R33E	D	D-12-20S-33E 990 FNL 990 FWL	D-12-20S-33E 990 FNL 990 FWL	BONE SPRING	13700	13700	
30-025-48540	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 38S FEDERAL COM	#007H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-20S-33E 120 FNL 1500 FEL	P-14-20S-33E 100 FSL 400 FEL	BONE SPRING	21140	11054	
30-025-48539	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 38S FEDERAL COM	#013H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-20S-33E 120 FNL 1530 FEL	O-14-20S-33E 100 FSL 1775 FEL	BONE SPRING	21183	11136	
30-025-50430	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 18S FEDERAL COM	#005H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-20S-33E 250 FNL 1400 FEL	O-14-20S-33E 101 FSL 1775 FEL	BONE SPRING	19484	9463	
30-025-50431	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 18S FEDERAL COM	#006H	Oil	Horizontal	New	11	T20S	R33E	B	B-11-20S-33E 100 FSL 400 FEL	P-14-20S-33E 101 FSL 400 FEL	BONE SPRING	19638	9453	
30-025-50432	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 28S FEDERAL COM	#003H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-20S-33E 250 FNL 2030 FWL	M-14-20S-33E 100 FSL 400 FWL	BONE SPRING	20383	10340	
30-025-50433	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 28S FEDERAL COM	#004H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-20S-33E 250 FNL 2060 FWL	C-11-20S-33E 250 FNL 2060 FWL	BONE SPRING	20237	10350	
30-025-50434	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 38S FEDERAL COM	#001H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-20S-33E 120 FNL 1970 FWL	M-14-20S-33E 101 FSL 400 FWL	BONE SPRING	21224	11115	
30-025-50435	EARTHSTONE OPERATING, LLC	ANACONDA 11 14 38S FEDERAL COM	#002H	Oil	Horizontal	New	11	T20S	R33E	C	C-11-20S-33E 120 FNL 2000 FWL	N-14-20S-33E 100 FSL 2130 FWL	BONE SPRING	21053	11065	

VII (4)

Permian Oilfield Partners, LLC.
 Imperative Federal SWD #1
 795' FNL, 2600' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.5927551° N, Lon -103.6341248° W
 GL 3586', RKB 3616'

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.
 Imperative Federal SWD #1
 795' FNL, 2600' FWL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.5927551° N, Lon -103.6341248° W
 GL 3586', RKB 3616'

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



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.

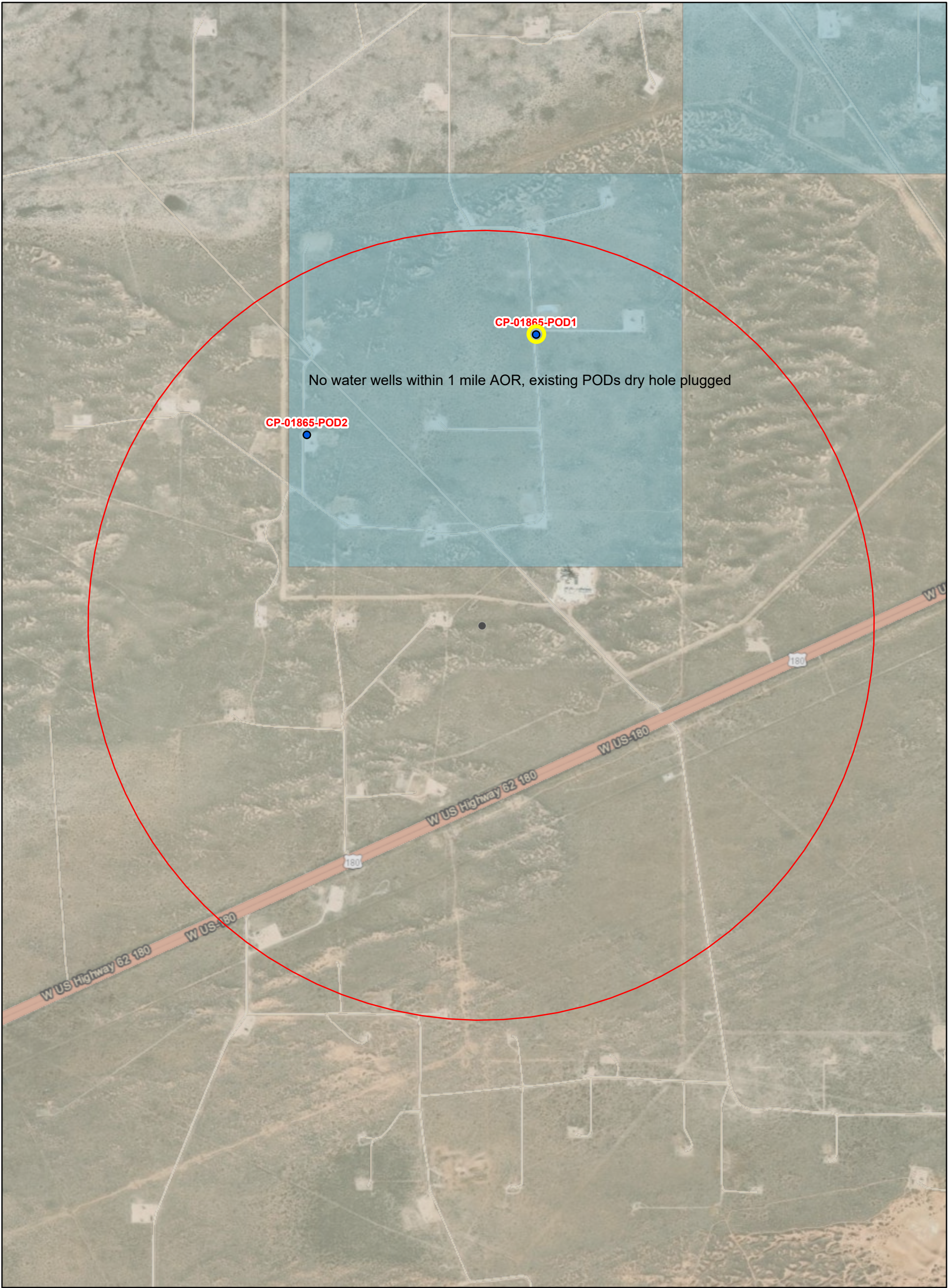
11/5/23 4:04 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

XI.

Imperative Federal SWD #1 Water Wells in 1 Mi AOR



11/5/2023, 4:52:42 PM

GIS WATERS PODs

● Active

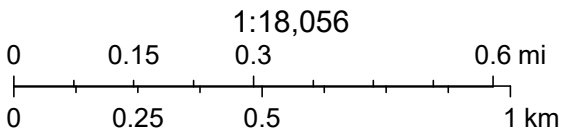
□ OSE District Boundary

Water Right Regulations

□ Closure Area

New Mexico State Trust Lands

□ Both Estates



Esri, HERE, iPC
Esri, HERE, Garmin, iPC
Maxar



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: CP 01865

Subbasin: CP

Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0


Cause/Case: -

Agent: JOHN FARRELL PG



User: BTA OIL PRODUCERS LLC

Contact: BOB HALL

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
 get images	686912	EXPL	2021-02-04	PMT	APR	CP 01865 POD1-2	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)											
POD Number	Well Tag	Source	Q	Q	Q						
			64	16	4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01865 POD1	NA		4	3	2	02	20S	33E	628390	3608155	 BH-1
CP 01865 POD2	NA		3	1	3	02	20S	33E	627454	3607733	 BH-2

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.



New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 686912

Transaction Desc: CP 01865 POD1-2

File Date: 01/21/2021

Primary Status: PMT Permit

Secondary Status: APR Approved






Person Assigned: *****

Agent: JOHN FARRELL PG



User: BTA OIL PRODUCERS LLC

Contact: BOB HALL

Events

	Date	Type	Description	Comment	Processed By
 get images	01/21/2021	APP	Application Received	*	*****
 get images	01/21/2021	TEC	Technical Report	*PLG PLN OPS CP-1865POD1-2	*****
	02/04/2021	FTN	Finalize non-published Trans.		*****
 get images	03/19/2021	LGI	Well Log Image	*	*****
	04/06/2021	ARW	WRAB Main File Rm Arch Sect	CP 01865 Archived	*****
 get images	07/22/2021	LOG	Well Log Received	*POD1	*****
	07/22/2021	DRY	Dry well log received		*****
 get images	07/22/2021	LOG	Well Log Received	*POD2	*****
	08/26/2021	DRY	Dry well log received		*****
	09/03/2021	QAT	Quality Assurance Completed	DATA	*****
	09/29/2021	QAT	Quality Assurance Completed	IMAGE	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01865	0	0		MON MONITORING WELL
**Point of Diversion				
CP 01865 POD1		628390	3608155 	
CP 01865 POD2		627454	3607733 	

Remarks

"APPLICANTS REQUEST TO COMPLETE TWO SOIL BORINGS TO AN APPROXIMATE DEPTH OF 105 FEET WITH THE INTENTION OF PROVING THAT GROUNDWATER DOES NOT EXIST AT SAID DEPTH. A CONTINGENCY PLUGGING PLAN HAS BEEN FILED SIMULTANEOUSLY WITH THIS APPLICATION

Remarks

THE BORING WILL OCCUR ON STATE TRUST LAND ON LEASE NUMBER GT-2922. PERMIT NUMBER WE-795 HAS BEEN ISSUED BY NMSLO FOR ACCESS TO THE JOB SITE FOR THE BORING OPERATION"

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 02/04/2021

Log Due Date: 02/04/2022

State Engineer: John R. D Antonio,



Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject
Permian Oilfield Partners, LLC
Imperative Federal SWD #1
795' FNL & 2600' FWL
Sec 11, T20S, R33E
Lea County, NM

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

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

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 11/5/2023

XIII.



PERMIAN OILFIELD
PARTNERS

Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Imperative Federal SWD #1
795' FNL & 2600' FWL
Sec 11, T20S, R33E
Lea County, NM

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

Imperative 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	9414811899562694904007	11/7/2023
ANADARKO PETROLEUM (c/o Oxy)	5 Greenway Plaza, Ste 110	Houston, TX 77046	USPS	9414811899562694904090	11/7/2023
APACHE CORPORATION	303 Vet Airpark Ln, Ste 1000	Midland, TX 79705	USPS	9414811899562694904083	11/7/2023
B & J OPERATING INC	PO Box 1478	Pampa, TX 79066	USPS	9414811899562694904410	11/7/2023
BTA OIL PRODUCERS, LLC	104 S Pecos	Midland, TX 79701	USPS	9414811899562694904465	11/7/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562694904427	11/7/2023
BURLINGTON RESOURCES OIL & GAS (c/o Conoco)	PO Box 2197	Houston, TX 77252	USPS	9414811899562694904496	11/7/2023
BXP OPERATING, LLC	11757 Katy Freeway, Ste 475	Houston, TX 77079	USPS	9414811899562694904489	11/7/2023
BXP PARTNERS V LP	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562694904434	11/7/2023
CHESAPEAKE EXPLORATION LLC	PO Box 18496	Oklahoma City, OK 73154	USPS	9414811899562694904564	11/7/2023
CHEVRON USA INC	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562694904526	11/7/2023
CIMAREX ENERGY CO. OF COLORADO	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562694904540	11/7/2023
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562694904533	11/7/2023
CONOCOPHILLIPS CO	PO Box 2197	Houston, TX 77252	USPS	9414811899562694905219	11/7/2023
DEVON ENERGY PRODUCTION COMPANY, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899562694905264	11/7/2023
EARTHSTONE OPERATING, LLC	1400 Woodloch Forest, Ste 300	The Woodlands, TX 77380	USPS	9414811899562694905226	11/7/2023
INTREPID POTASH	707 17th St., Ste 4200	Denver, CO 80202	USPS	9414811899562694905202	11/7/2023
KERR-MCGEE OIL & GAS ONSHORE (c/o Oxy)	5 Greenway Plaza, Ste 110	Houston, TX 77046	USPS	9414811899562694905288	11/7/2023
MAGNUM HUNTER PETRO (c/o COG Oper)	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562694905851	11/7/2023
MERIT ENERGY COMPANY, LLC	13727 Noel Road, Ste 500	Dallas, TX 75240	USPS	9414811899562694905868	11/7/2023
MOMENTUM OPERATING CO INC	PO Box 2439	Albany, TX 76430	USPS	9414811899562694905820	11/7/2023
MURCHISON OIL AND GAS, LLC	7250 Dallas Parkway, Ste 1400	Plano, TX 75024	USPS	9414811899562694905837	11/7/2023
NEARBURG PRODUCING CO	PO Box 823085	Dallas, TX 75382	USPS	9414811899562694905714	11/7/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562694905752	11/7/2023
OBO INC	PO Box 22577	Hialeah, FL 79704	USPS	9414811899562694905769	11/7/2023
PENROC OIL CORP	1515 W Calle Sur St	Hobbs, NM 88240	USPS	9414811899562694905721	11/7/2023
PRIME ROCK RESOURCES AGENT CO INC	203 W Wall St #1000	Midland, TX 79701	USPS	9414811899562694905707	11/7/2023
SHACKELFORD OIL CO	11417 W County Rd 33	Midland, TX 79707	USPS	9414811899562694905790	11/7/2023
TENNECO OIL CO (c/o Earthstone)	1400 Woodloch Forest; Ste 300	The Woodlands, TX 77380	USPS	9414811899562694905745	11/7/2023

Date: 11/7/2023

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

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ARTICLE NUMBER: 9414 8118 9956 2694 9040 07

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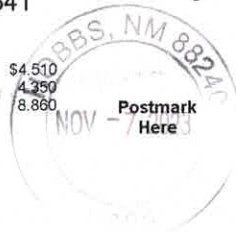
Advance Energy Ptnrs Hat Mesa LLC
11490 WESTHEIMER RD STE 950
HOUSTON TX 77077-6841

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Anadarko Petroleum c/o Oxy USA
5 GREENWAY PLZ STE 110
HOUSTON TX 77046-0521

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ARTICLE ADDRESSED TO:

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

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ARTICLE ADDRESSED TO:

B&J Operating Inc
PO BOX 1478
PAMPA TX 79066-1478

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

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ARTICLE ADDRESSED TO:

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

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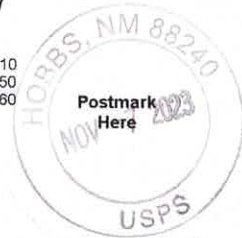
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HOUSTON TX 77252-2197

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HOUSTON TX 77079-1761

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

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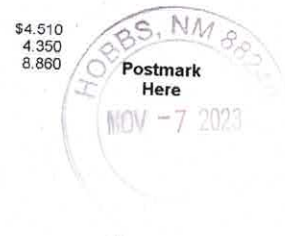
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OKLAHOMA CITY OK 73154-0496

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ARTICLE ADDRESSED TO:

Chevron USA
6301 DEAUVILLE
MIDLAND TX 79706-2964

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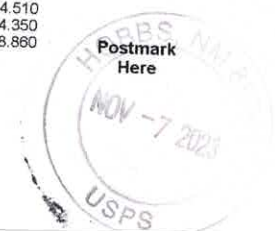
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MIDLAND TX 79706-2671

FEES

Postage Per Piece	\$4.510
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COG Operating LLC
600 W ILLINOIS AVE
MIDLAND TX 79701-4882

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Certified Fee
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ARTICLE ADDRESSED TO:

ConocoPhillips Company
PO BOX 2197
HOUSTON TX 77252-2197

FEES

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Certified Fee
Total Postage & Fees:

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ARTICLE ADDRESSED TO:

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

FEES

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ARTICLE ADDRESSED TO:

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

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ARTICLE ADDRESSED TO:

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

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Total Postage & Fees:

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8.860

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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
Total Postage & Fees:

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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	\$4.510
Certified Fee	4.350
Total Postage & Fees:	8.860

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ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$4.510
Certified Fee	4.350
Total Postage & Fees:	8.860

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Momentum Operating Co
PO BOX 2439
ALBANY TX 76430-8020

FEES

Postage Per Piece	\$4.510
Certified Fee	4.350
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Murchison Oil & Gas, LLC
7250 DALLAS PKWY STE 1400
PLANO TX 75024-5002

FEES

Postage Per Piece	\$4.510
Certified Fee	4.350
Total Postage & Fees:	8.860

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ARTICLE NUMBER: 9414 8118 9956 2694 9057 14

ARTICLE ADDRESSED TO:

Nearburg Producing Co
PO BOX 823085
DALLAS TX 75382-3085

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Certified Fee	4.350
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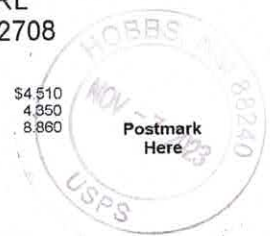
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New Mexico State Land Office
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SANTA FE NM 87501-2708

FEES

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Total Postage & Fees:	8.860



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ARTICLE ADDRESSED TO:

OBO Inc.
PO BOX 22577
HIALEAH FL 33002-2577

FEES

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Certified Fee	4.350
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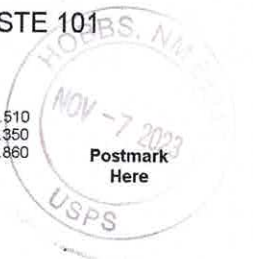
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Penroc Oil Corp
1515 W CALLE SUR ST STE 101
HOBBS NM 88240-1318

FEES

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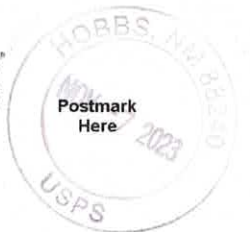
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Prime Rock Resources Agent Co
203 W WALL ST STE 1000
MIDLAND TX 79701-4525

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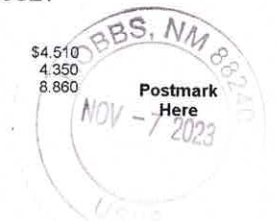
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Shackelford Oil Co
11417 W COUNTY ROAD 33
MIDLAND TX 79707-9027

FEES

Postage Per Piece	\$4.510
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Total Postage & Fees:	8.860

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ARTICLE NUMBER: 9414 8118 9956 2694 9057 45

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$4.510
Certified Fee	4.350
Total Postage & Fees:	8.860

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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 # 1087526
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 Imperative Federal SWD #1, and is located 795' FNL & 2600' FWL, Unit C, Section 11, Township 20 South, Range 33 East, NMPM, approximately 22 mi WSW of Monument, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 14,796 feet to 15,868 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,959 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.
#00281055

67115647

00281055

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



**Attachment to C-108
Permian Oilfield Partners, LLC
Imperative Federal SWD #1
795' FNL & 2600' 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 2.6 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 Imperative Federal SWD #1, and the Vital Federal SWD #1. Interval depth is the lesser of the Imperative & Vital, and interval height is the lesser of the Imperative & Vital.

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

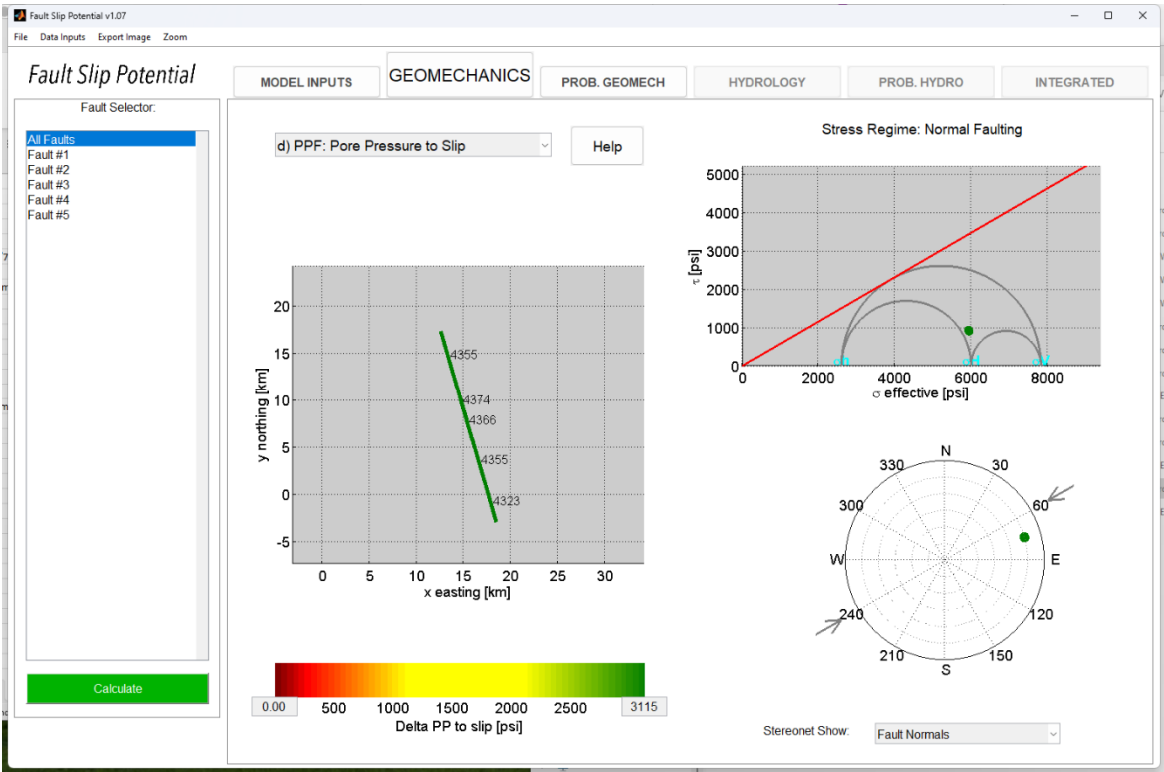
3. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

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

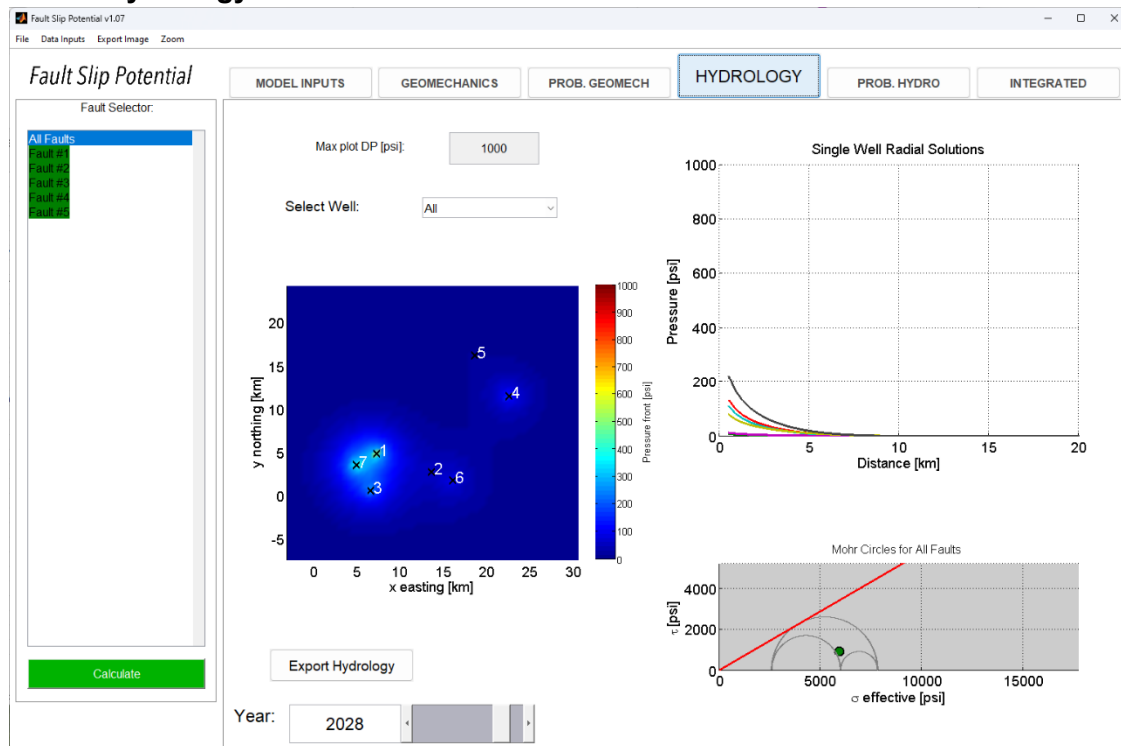
Geomechanics Pore Pressure to Slip



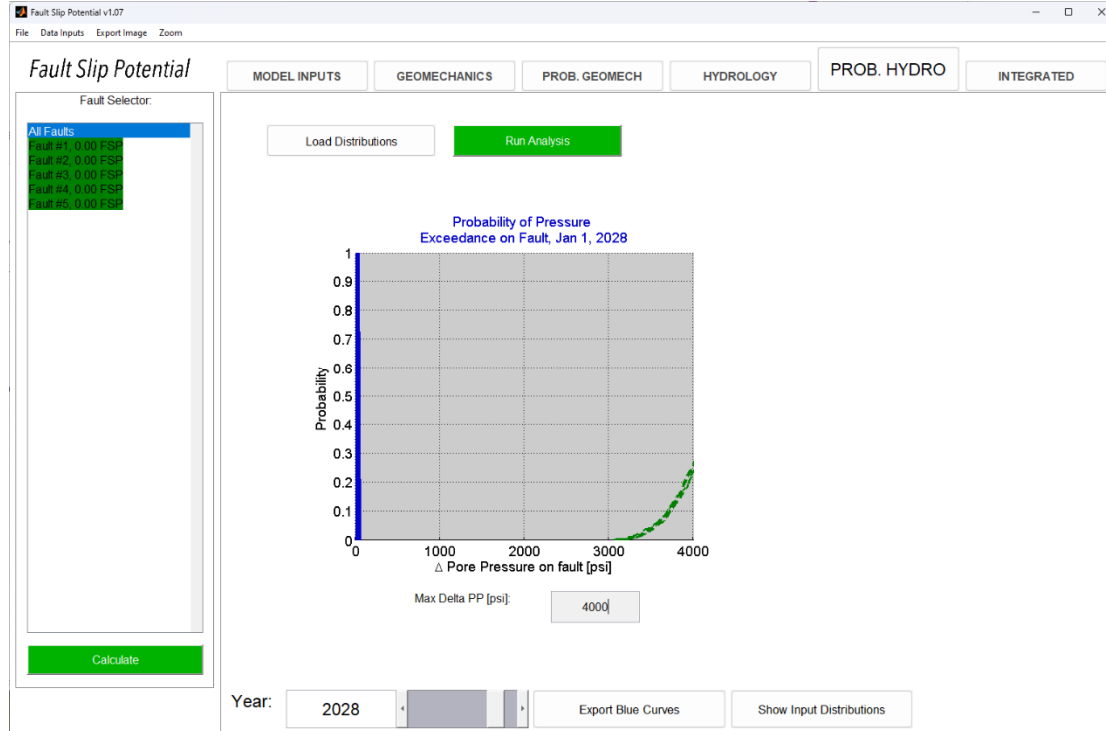
GeoMechanics Variability



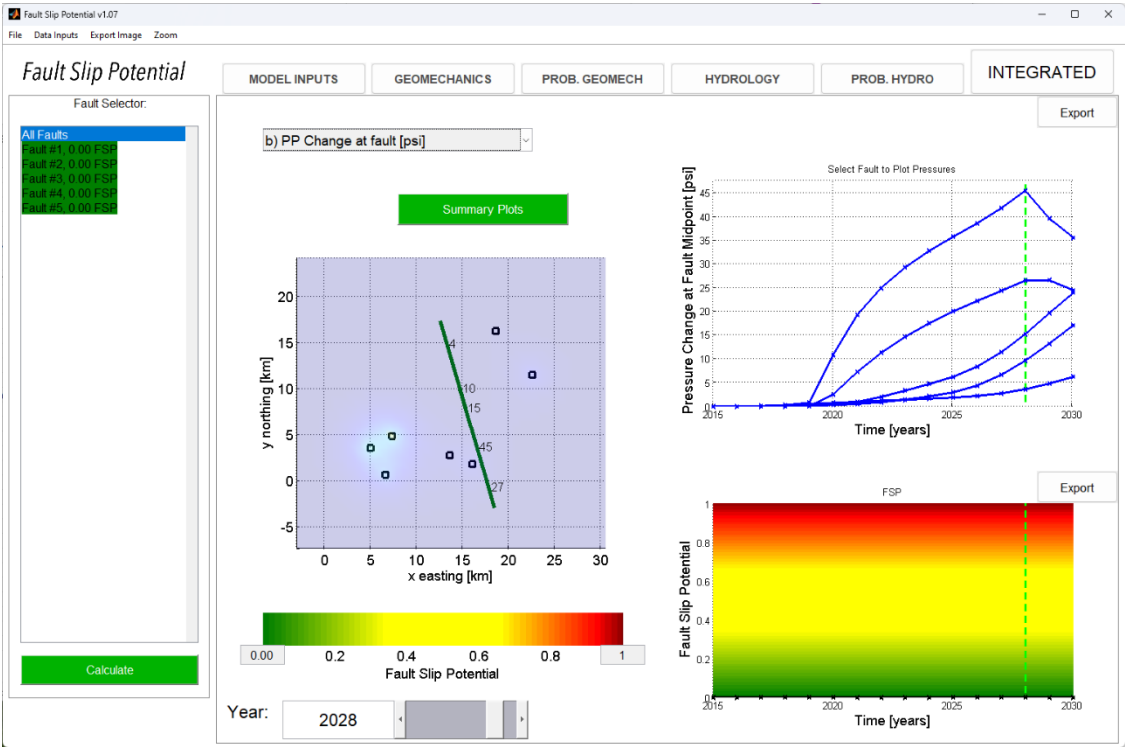
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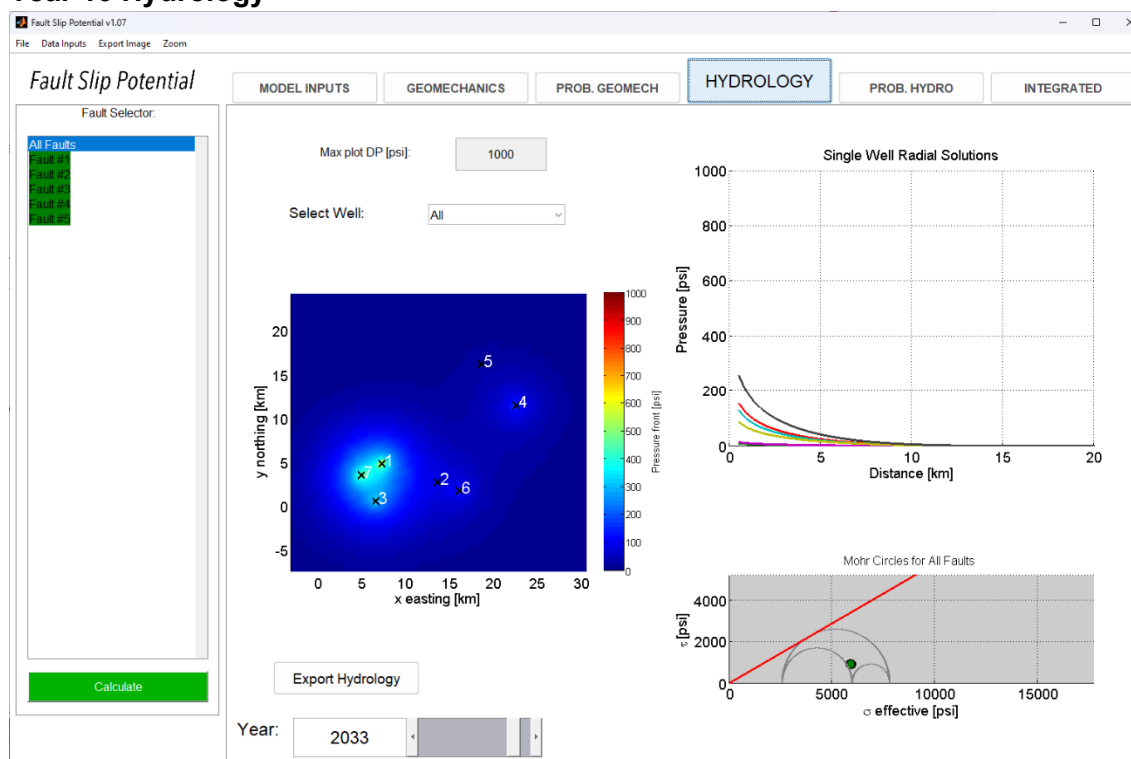
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



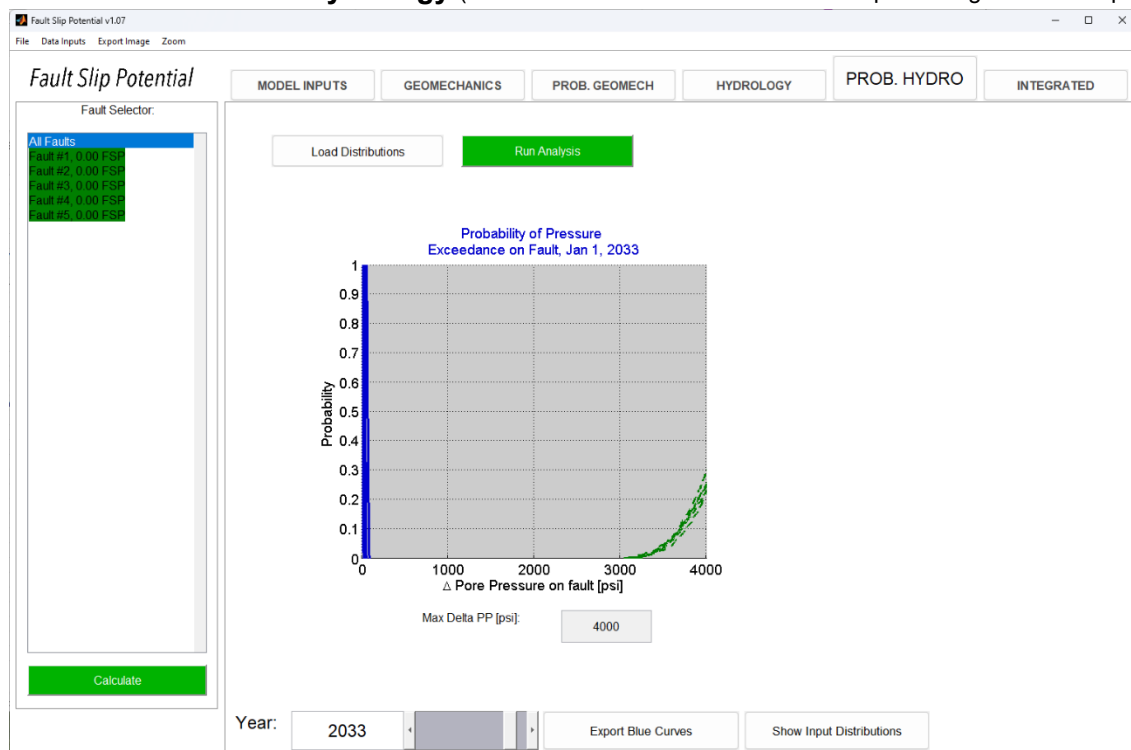
Year 5 Fault Slip Probability (0% after 5 years)



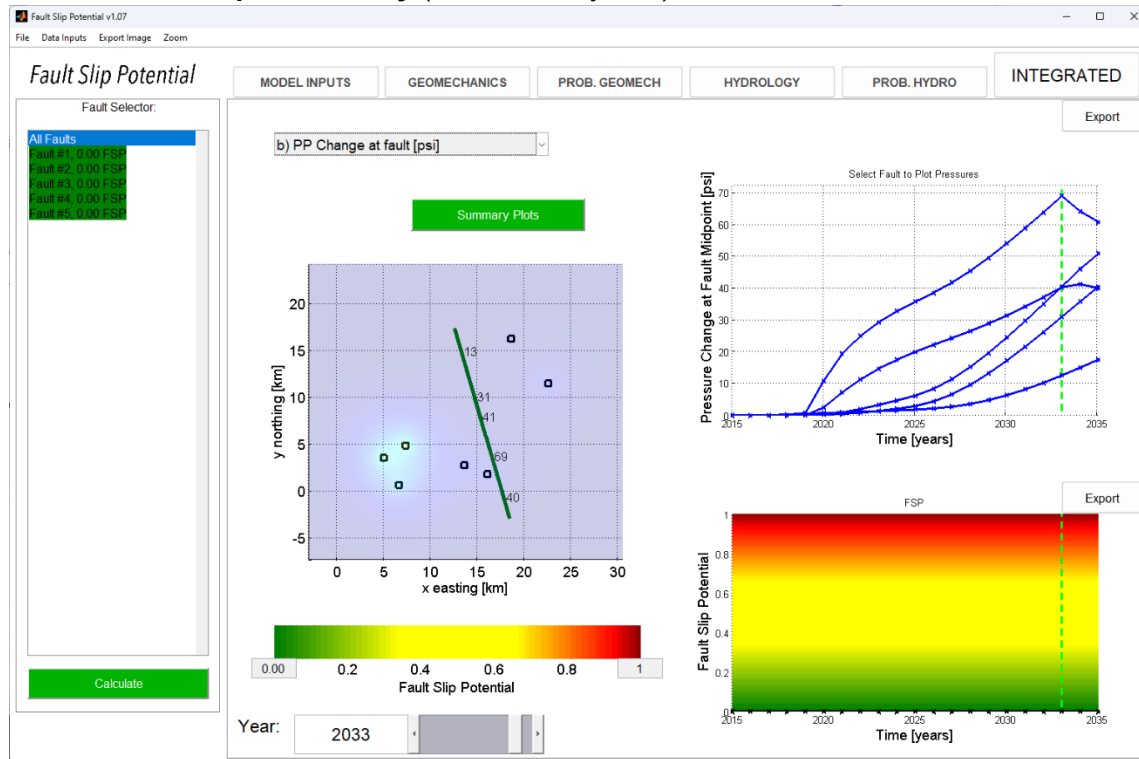
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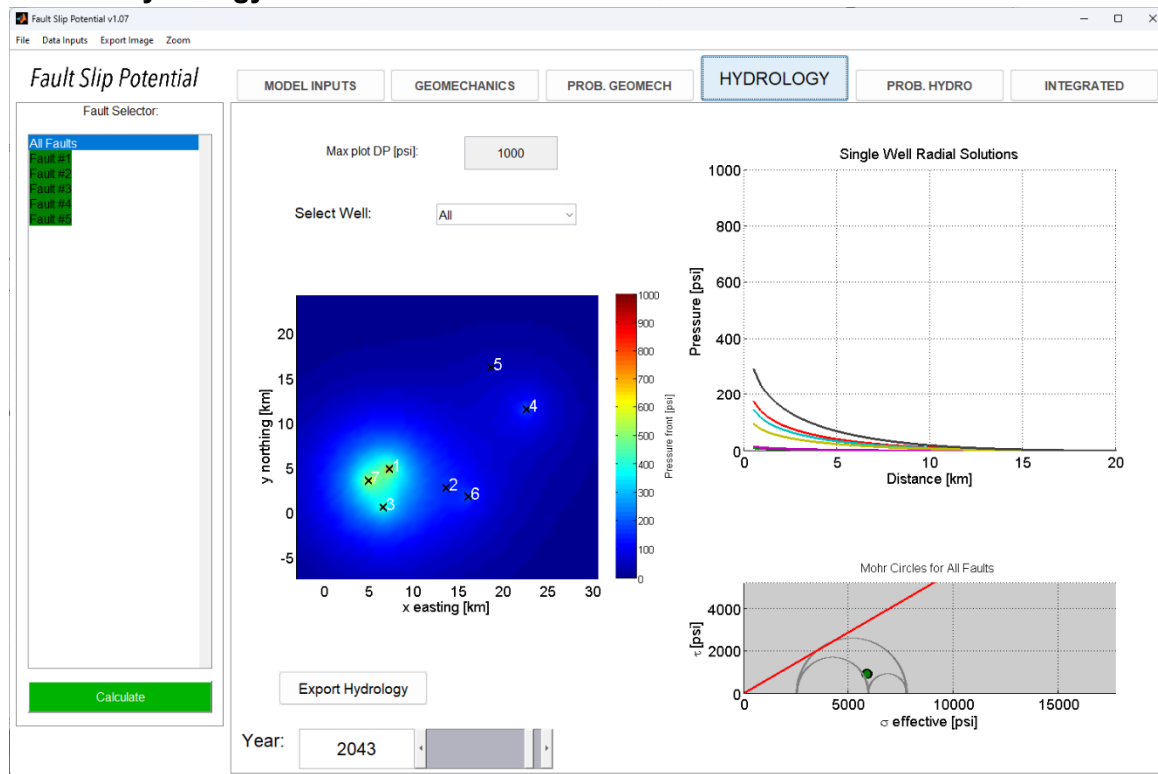
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



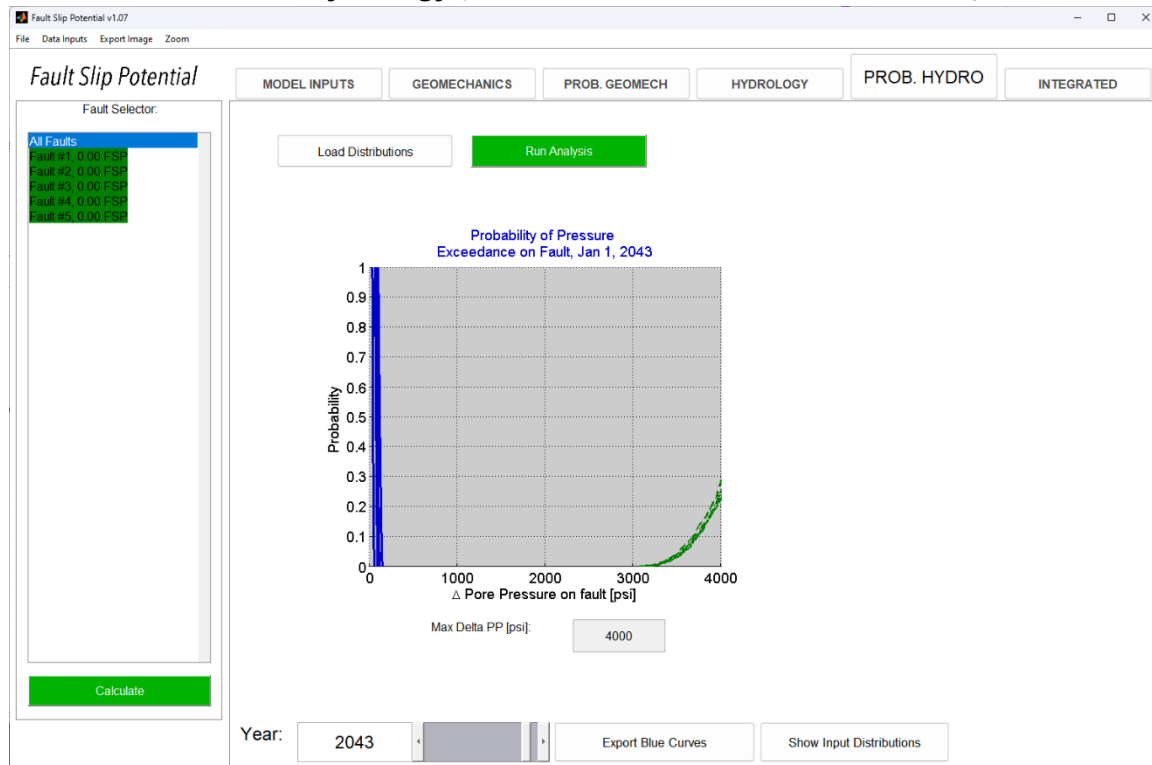
Year 10 Fault Slip Probability (0% after 10 years)



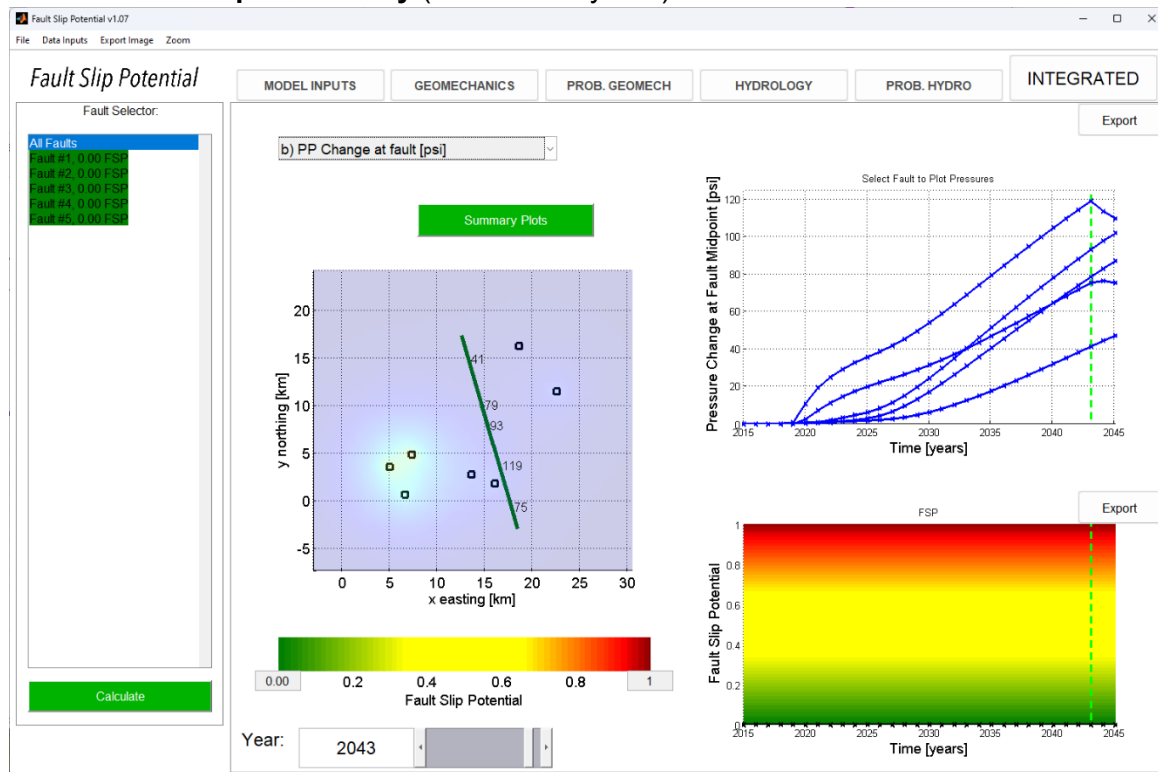
Year 20 Hydrology



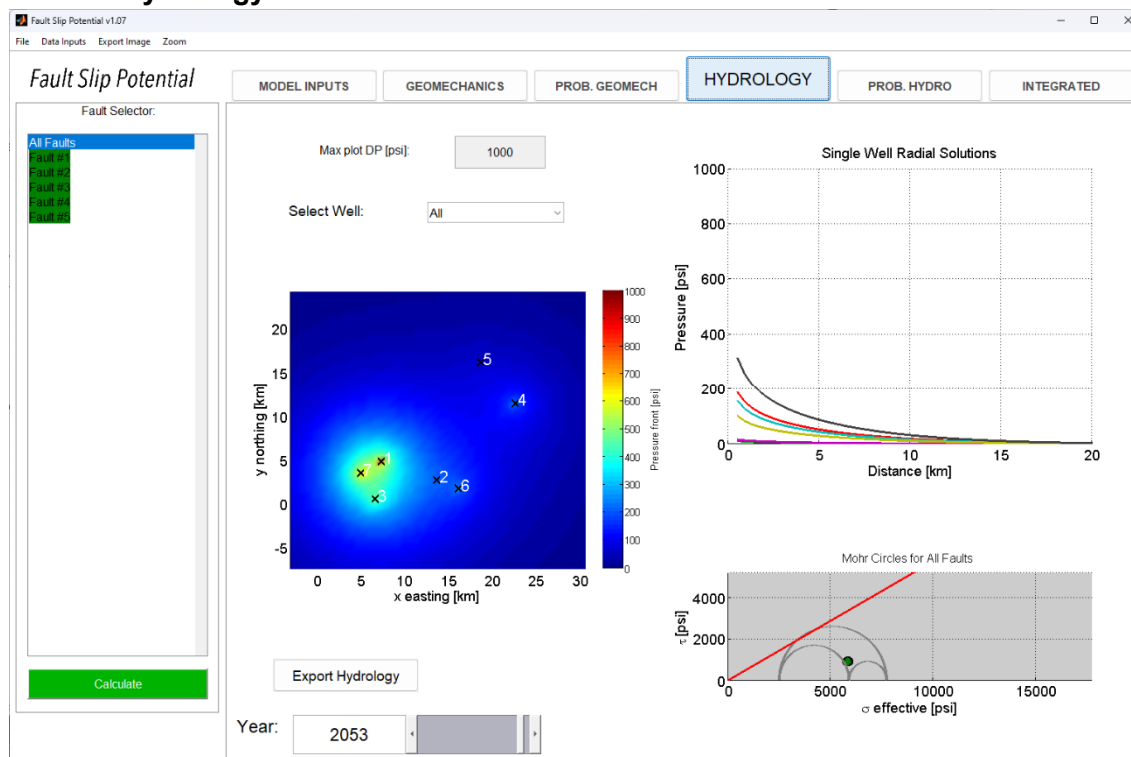
Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



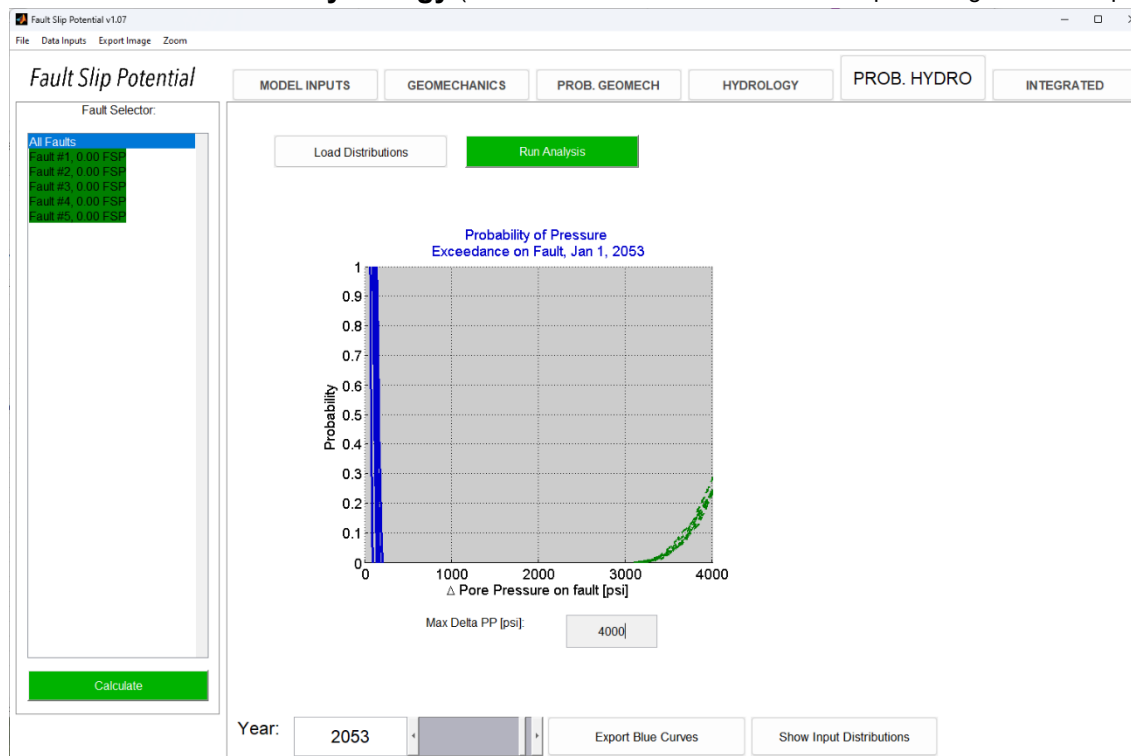
Year 20 Fault Slip Probability (0% after 20 years)

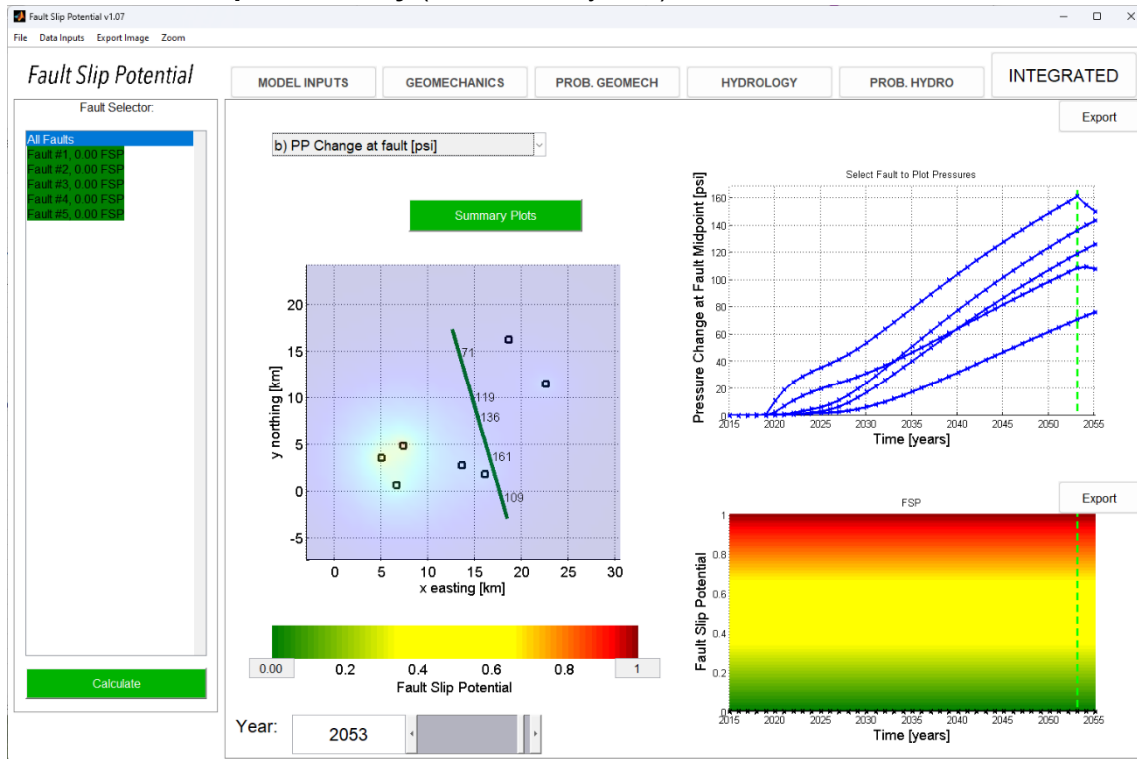


Year 30 Hydrology



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



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

(817) 606-7630

Attached in compiled C-108 document.

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

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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 287979

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 287979
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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