

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF PERMIAN OILFIELD PARTNERS, LLC
TO APPROVE SALT WATER DISPOSAL
WELL IN LEA COUNTY, NEW MEXICO.**

CASE NO. _____

APPLICATION

Permian Oilfield Partners, LLC (“Permian”), OGRID No. 328259, through its undersigned attorneys, hereby submits this application to the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12, Rule No. 19.15.26, and Rule 19.15.4.8 for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, Permian states as follows:

(1) Permian proposes to drill the Overdue Federal SWD Well #1 well at a surface location 602’ from the North line and 298’ from the East line, Unit A, Section 5, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a produced water disposal well.

(2) Permian seeks authority to inject produced water into the Silurian-Devonian formation at a depth of approximately 14,675 feet to 15,844 feet.

(3) Permian requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.

(4) Permian requests approval of a maximum injection pressure of 2,935 psi for the well.

(5) On or about July 11, 2023, Permian filed an administrative application with the Division seeking administrative approval of the subject well for produced water disposal.

(6) Permian complied with the notice requirements for administrative applications, including mailing and publication in the Hobbs News Sun.

(7) Matador Production Company, MRC Permian Company and MRC Hat Mesa, LLC (successor to Advance Energy Partners Hat Mesa, LLC) submitted a protest with respect to Permian's administrative application.

(8) For this reason, Permian is submitting an application for hearing before a Division Examiner for this matter.

(9) To Permian's knowledge, no other protests were submitted.


(10) A proposed C-108 for the subject well is attached hereto as Attachment A, which is the C-108 that was submitted administratively.

(11) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, Permian requests that this application be set for hearing before an Examiner of the Oil Conservation Division on October 5, 2023; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS
& SISK, P.A.

By: 
Deana M. Bennett
Earl.DeBrine, Jr.
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500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168
Telephone: 505.848.1800
Deana.Bennett@modrall.com
Earl.DeBrine@modrall.com
Attorneys for Applicant

CASE NO. _____: Application of Permian Oilfield Partners, LLC for approval of a salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Overdue Federal SWD Well #1 well at a surface location 602' from the North line and 298' from the East line, Unit A, Section 5, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a produced water disposal well. Applicant seeks authority to inject produced water into the Silurian-Devonian formation at a depth of approximately 14,675 feet to 15,844 feet. Applicant further requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 18 miles west of Monument, New Mexico.

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: Overdue 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	
<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

7-11-2023
Date

817-600-8772
Phone Number


spuryear@popmidstream.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Disposal**
Application qualifies for administrative approval? **Yes**
- II. OPERATOR: **Permian Oilfield Partners, LLC.**
ADDRESS: **P.O. Box 3329, Hobbs, NM 88241**
CONTACT PARTY: **Sean Puryear** PHONE: **(817) 600-8772**
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? **No.**
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
NAME: **Sean Puryear** TITLE: **Manager**
SIGNATURE:  DATE: 7-11-2023
E-MAIL ADDRESS: **spuryear@popmidstream.com**
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Exhibit A

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 14,640'

Underlying Potentially Productive Zones:

None

IV: Is this an expansion of an existing project? No.

V: See attached Area of Review Analysis.

VI: There is 1 well within the proposed well's area of review that penetrates the Devonian formation, the Pure Federal "C" #1, API #30-025-02417, plugged 5/13/1963. Well plugging report and diagram attached. Note that this well is the subject of UIC order #SWD-1568, expired August 3, 2017.

- 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 2,935 psi.
 4. Disposal sources will be produced waters from surrounding wells in the Delaware, Avalon, Bone Spring and Wolfcamp formations. These formation waters are known to be compatible with Devonian formation water. Representative area produced water analyses were sourced from the NMT Go-Tech website. See attached Fluid Analyses.
 5. Devonian water analyses from the area of review are unavailable. Representative water analyses were sourced from the NMT Go-Tech website. See attached Fluid Analyses.

VIII:

- Fluid injection will take place in the Devonian-Silurian formations. This sequence is bounded above by the Upper Devonian Woodford shale. Underlying the Woodford is the first injection formation, the Devonian, consisting of dolomitic and limestone carbonates & chert, followed by the Silurian Fusselman dolomite. The lower bound of the injection interval is the limestone of the Upper Ordovician Montoya. This proposed well will TD above the top of the Montoya, and will not inject fluids into the Montoya itself, in order to provide a sufficient barrier to preclude fluid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, the Cambrian, and the PreCambrian below.

Injection zone porosities are expected to range from 0% to a high of 10%, with the higher ranges being secondary porosity in the form of vugs & fractures due to weathering effects, with occasional interbedded shaly intervals. Permeabilities in the 2-3% porosity grainstone intervals are estimated to be in the 10-15 mD range, with the higher porosity intervals conservatively estimated to be in the 40-50 mD range. It is these intervals of high secondary porosity and associated high permeability that are expected to take the majority of the injected water.

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

GEOLOGY PROGNOSIS			
FORMATION	TOP	BOTTOM	THICKNESS
	KB TVD (ft)	KB TVD (ft)	(ft)
Rustler	1,552	1,890	338
Salado	1,890	3,355	1,555
Yates	3,355	3,708	353
Capitan Reef	3,708	5,557	1,849
Delaware	5,557	8,216	2,659
Bone Spring	8,216	10,937	2,721
Wolfcamp	10,937	12,199	1,262
Lwr. Mississippian	13,904	14,482	578
Woodford	14,482	14,640	158
Devonian	14,640	15,518	878
Fusselman (Silurian)	15,518	15,869	351
Montoya (U. Ordovician)	15,869	16,269	400
Simpson (M. Ordovician)	16,269	16,744	475

- Regional shallow fresh water in the Quaternary is known to exist at depths less than 1349'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 13,291'. There is a deeper potential USDW in the Capitan Reef formation. Depth from the bottom of this potential USDW to the injection zone is 9,083'. There is no USDW present below the injection interval.

Exhibit A

- IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X:** A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI:** According to the New Mexico Office of the State Engineer, there are 0 fresh water wells within the proposed well's one-mile area of review. See attached 1 mile AOR water well map showing no active PODs in the AOR.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code 97869		3 Pool Name SWD; DEVONIAN-SILURIAN	
4 Property Code		5 Property Name OVERDUE FEDERAL SWD			6 Well Number 1
7 OGRID NO. 328259		8 Operator Name PERMIAN OILFIELD PARTNERS, LLC			9 Elevation 3643'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
1	5	20S	34E		602	NORTH	298	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

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

① N 89°22'38" E 2644.21'

② N 89°30'52" E 2637.58'

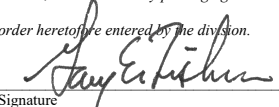
③ S 00°02'58" E 5273.40'

④ S 89°25'39" W 2636.92'

⑤ S 89°29'18" W 2641.84'

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

 7-5-2023
Signature Date

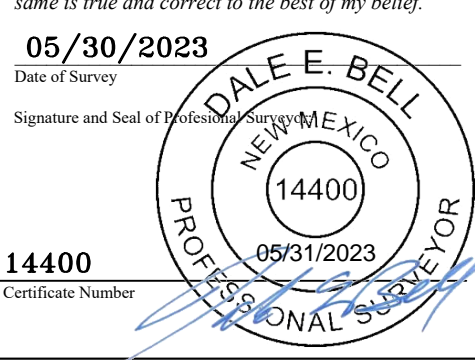
Gary Fisher
Printed Name

gfisher@popmidstream.com
E-mail Address

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.

05/30/2023
Date of Survey


Signature and Seal of Professional Surveyor

14400
Certificate Number

LOT 4 LOT 3 LOT 2 LOT 1

GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 585676.2 - E: 774932.7
LAT: 32.6077848° N
LONG: 103.5747341° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1912"
N: 580957.2 - E: 769955.7

B: FOUND BRASS CAP "1912"
N: 586229.5 - E: 769951.1

C: FOUND BRASS CAP "1912"
N: 586258.3 - E: 772594.6

D: CALCULATED CORNER
N: 586280.6 - E: 775231.6

E: FOUND BRASS CAP "1912"
N: 583642.4 - E: 775227.1

F: FOUND BRASS CAP "1912"
N: 581007.1 - E: 775233.1

G: FOUND BRASS CAP "1912"
N: 580983.5 - E: 772591.9

S.L. 602'
298'

S 00°05'52" W 2638.76'

S 00°07'52" E 2635.81'

III (A)

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
 Overdue Federal SWD #1
 602' FNL, 298' FEL
 Sec. 5, T20S, R34E, Lea Co. NM
 Lat 32.6077848° N, Lon -103.5747341° W
 GL 3643', RKB 3673'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1577'
 Cement: 1444 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: 3658'
 Cement: 1119 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: 5582' ECP/DV Tool: 3758'
 Cement: 827 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: 10987' ECP/5682'
 Cement: 1803 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: 10787'
 Depth Btm: 14675'
 Cement: 250 sks - Class H + Additives
 Cement Top: 10787' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5" Depth: 15844'
 Inj. Interval: 14675' - 15844' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14630' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10787'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14640' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives

Exhibit A

III (A)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
 Overdue Federal SWD #1
 602' FNL, 298' FEL
 Sec. 5, T20S, R34E, Lea Co. NM
 Lat 32.6077848° N, Lon -103.5747341° W
 GL 3643', RKB 3673'

Surface - (Conventional)

Hole Size: 26"
 Casing: 20" - 106.5# N-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 1577'
 Cement: 1444 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: 3658'
 Cement: 1119 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: 5582'
 Cement: 827 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 3758'

Intermediate #3 - (Conventional)

Hole Size: 12.25"
 Casing: 9.625" - 40# HCL-80 BTC Casing
 Depth Top: Surface
 Depth Btm: 10987'
 Cement: 1803 sks - Class C + Additives
 Cement Top: Surface - (Circulate)
 ECP/DV Tool: 5682'

Intermediate #4 - (Liner)

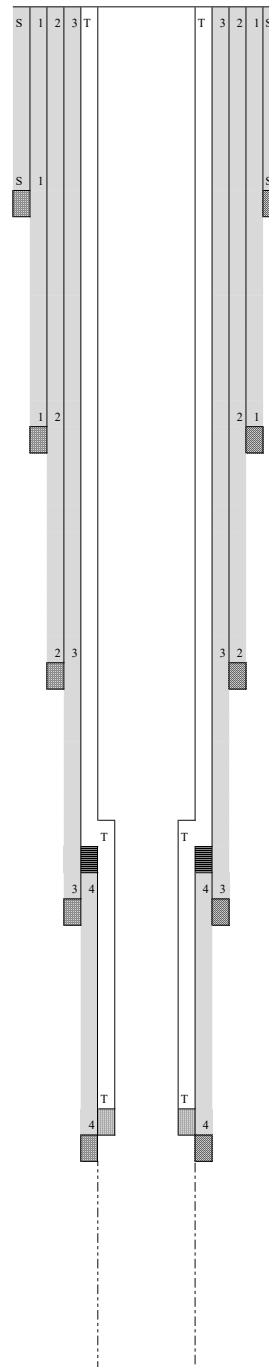
Hole Size: 8.5"
 Casing: 7.625" - 39# HCL-80 FJ Casing"
 Depth Top: 10787'
 Depth Btm: 14675'
 Cement: 250 sks - Class H + Additives
 Cement Top: 10787' - Circulate, then Bond Log when well @ TD

Intermediate #5 - (Open Hole)

Hole Size: 6.5"
 Depth: 15844'
 Inj. Interval: 14675' - 15844' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 14630'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 X/O Depth: 10787'
 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
 Packer Depth: 14640'
 Packer: 5.5" - Perma-Pak or Equivalent (Inconel)
 Packer Fluid: 8.4 ppg FW + Additives



XIII.



PERMIAN OILFIELD
PARTNERS

Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Overdue Federal SWD #1
602' FNL & 298' FEL
Sec 5, T20S, R34E
Lea County, NM

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

Overdue 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	9414811899562232439831	7/11/2023
APACHE CORPORATION	2000 Post Oak Blvd., Suite 100	Houston, TX 77056	USPS	9414811899562232439879	7/11/2023
B & J OPERATING INC	PO Box 1478	Pampa, TX 79066	USPS	9414811899562232439718	7/11/2023
BALOG FAMILY TRUST	PO Box 111890	Anchorage, AK 99504	USPS	9414811899562232439756	7/11/2023
BLACK HILLS GAS RESOURCES, INC.	7001 Mt Rushmore Rd	Rapid City, SD 57702	USPS	9414811899562232439763	7/11/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562232439701	7/11/2023
CHESAPEAKE EXPLORATION LLC	6100 North Western Ave	OKC, OK 73118	USPS	9414811899562232439794	7/11/2023
CIMAREX ENERGY CO	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232439749	7/11/2023
CIMAREX ENERGY CO. OF COLORADO	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232439732	7/11/2023
COG OPERATING LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899562232439770	7/11/2023
DELMAR HUDSON LEWIS LIVING TRUST	PO Box 2546	Fort Worth, TX 76113	USPS	9414811899562232439916	7/11/2023
FASKEN LAND & MINERALS LTD	303 West Wall Ave Ste 1800	Midland, TX 79701	USPS	9414811899562232439954	7/11/2023
HUDSON OIL COMPANY OF TEXAS	616 Texas Street	Fort Worth, TX 76102	USPS	9414811899562232439961	7/11/2023
HYDE OIL & GAS CORP	6300 Ridglea Pl # 1018	Fort Worth, TX 76116	USPS	9414811899562232439909	7/11/2023
JACK V WALKER REVOCABLE TRUST	PO Box 102256	Anchorage, AK 99510	USPS	9414811899562232439947	7/11/2023
JAVELINA PARTNERS	616 Texas St.	Fort Worth, TX 76102	USPS	9414811899562232439985	7/11/2023
LEE WILEY MONCRIEF TRUST	PO Box 2546	Fort Worth, TX 76113	USPS	9414811899562232439930	7/11/2023
LEWIS H DELMAR LIVING TRUST	6300 Ridglea Place Suite 1005a	Fort Worth, TX 76116	USPS	9414811899562232439657	7/11/2023
LINCOLN OIL & GAS LLC	701 Three Cross	Roswell, NM 88201	USPS	9414811899562232439626	7/11/2023
LINDY'S LIVING TRUST	2400 South Hulen, Ste. 302	Fort Worth, TX 76109	USPS	9414811899562232439695	7/11/2023
MAGNUM HUNTER PRODUCTION INC	600 N. Marienfeld, Suite 600	Midland, TX 79701	USPS	9414811899562232439121	7/11/2023
MARATHON OIL CO	990 Town & Country Blvd.	Houston, TX 77024	USPS	9414811899562232439145	7/11/2023
MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM 88241	USPS	9414811899562232439367	7/11/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562232439305	7/11/2023
PENNZENERGY EXPLORATION AND PRODUCTION LLC	P.O. Box 2967	Houston, TX 77001	USPS	9414811899562232439343	7/11/2023
READ & STEVENS INC	1001 17th Street, Suite 1800	Denver, CO 80202	USPS	9414811899562232439381	7/11/2023
SELECT AGUA LIBRE MIDSTREAM, LLC	12515 Carriage Way	Oklahoma City, OK 73142	USPS	9414811899562232439336	7/11/2023
ZORRO PARTNERS LTD	616 Texas St	Fort Worth, TX, 76102	USPS	9414811899562232439374	7/11/2023

Date: 7/11/2023

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

Exhibit A

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

ARTICLE NUMBER: 9414 8118 9956 2232 4398 31

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



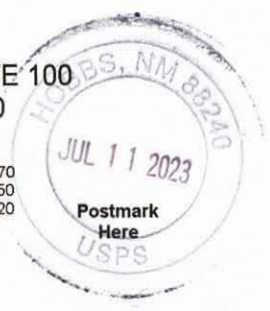
U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 4398 79

ARTICLE ADDRESSED TO:

Apache Corporation
2000 POST OAK BLVD STE 100
HOUSTON TX 77056-4400

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



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

ARTICLE NUMBER: 9414 8118 9956 2232 4397 18

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



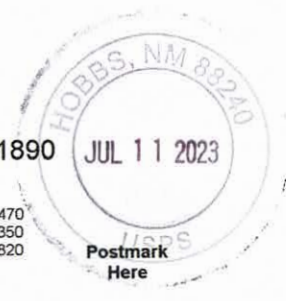
U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 2232 4397 56

ARTICLE ADDRESSED TO:

Balog Family Trust
PO BOX 111890
ANCHORAGE AK 99511-1890

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



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

ARTICLE NUMBER: 9414 8118 9956 2232 4397 63

ARTICLE ADDRESSED TO:

Black Hills Gas Resources, Inc.
7001 MOUNT RUSHMORE RD
RAPID CITY SD 57702-8752

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



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

ARTICLE NUMBER: 9414 8118 9956 2232 4397 01

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4397 94

ARTICLE ADDRESSED TO:

Chesapeake Exploration LLC
6100 N WESTERN AVE
OKLAHOMA CITY OK 73118-1044

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4397 49

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4397 32

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4397 70

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 16

ARTICLE ADDRESSED TO:

Delmar Hudson Lewis Living Trust
PO BOX 2546
FORT WORTH TX 76113-2546

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 54

ARTICLE ADDRESSED TO:

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

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 61

ARTICLE ADDRESSED TO:

Hudson Oil Company of TX
616 TEXAS ST
FORT WORTH TX 76102-4696

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 09

ARTICLE ADDRESSED TO:

Hyde Oil & Gas Corp
6300 RIDGLEA PL STE 1018
FORT WORTH TX 76116-5778

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 47

ARTICLE ADDRESSED TO:

Jack V Walker Revocable Trust
PO BOX 102256
ANCHORAGE AK 99510-2256

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 85

ARTICLE ADDRESSED TO:

Javelina Partners
616 TEXAS ST
FORT WORTH TX 76102-4696

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4399 30

ARTICLE ADDRESSED TO:

Lee Wiley Moncrief Trust
PO BOX 2546
FORT WORTH TX 76113-2546

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4396 57

ARTICLE ADDRESSED TO:

Lewis H Delmar Living Trust
6300 RIDGLEA PL STE 1005A
FORT WORTH TX 76116-5763

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4396 26

ARTICLE ADDRESSED TO:

Lincoln Oil & Gas LLC
701 THREE CROSS DR
ROSWELL NM 88201-7831

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4396 95

ARTICLE ADDRESSED TO:

Lindy's Living Trust
2400 SOUTH HULEN, STE 302
FORT WORTH TX 76109-0000

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4391 21

ARTICLE ADDRESSED TO:

Magnum Hunter Production Inc.
600 N MARIENFELD ST STE 600
MIDLAND TX 79701-4405

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4391 45

ARTICLE ADDRESSED TO:

Marathon Oil Company
990 TOWN AND COUNTRY BLVD
HOUSTON TX 77024-2217

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 67

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 05

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 43

ARTICLE ADDRESSED TO:

Pennzenergy Exploration & Productio
PO BOX 2967
HOUSTON TX 77252-2967

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 81

ARTICLE ADDRESSED TO:

Read & Stevens Inc.
1001 17TH ST STE 1800
DENVER CO 80202-2058

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 36

ARTICLE ADDRESSED TO:

Select Agua Libre Midstream, LLC
12515 CARRIAGE WAY
OKLAHOMA CITY OK 73142-3326

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 4393 74

ARTICLE ADDRESSED TO:

Zorro Partners Ltd
616 TEXAS ST
FORT WORTH TX 76102-4696

FEES	
Postage Per Piece	\$5.470
Certified Fee	4.350
Total Postage & Fees:	9.820



XIII.

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
May 28, 2023
and ending with the issue dated
May 28, 2023.



Publisher

Sworn and subscribed to before me this
28th day of May 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**

LEGAL NOTICE
May 28, 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 Overdue Federal SWD #1, and is located 802' FNL & 298' FEL, Unit A, Section 5, Township 20 South, Range 34 East, NMPM, approximately 18 mi W of Monument, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 14,675 feet to 15,844 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,935 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.
#00278997

67115647

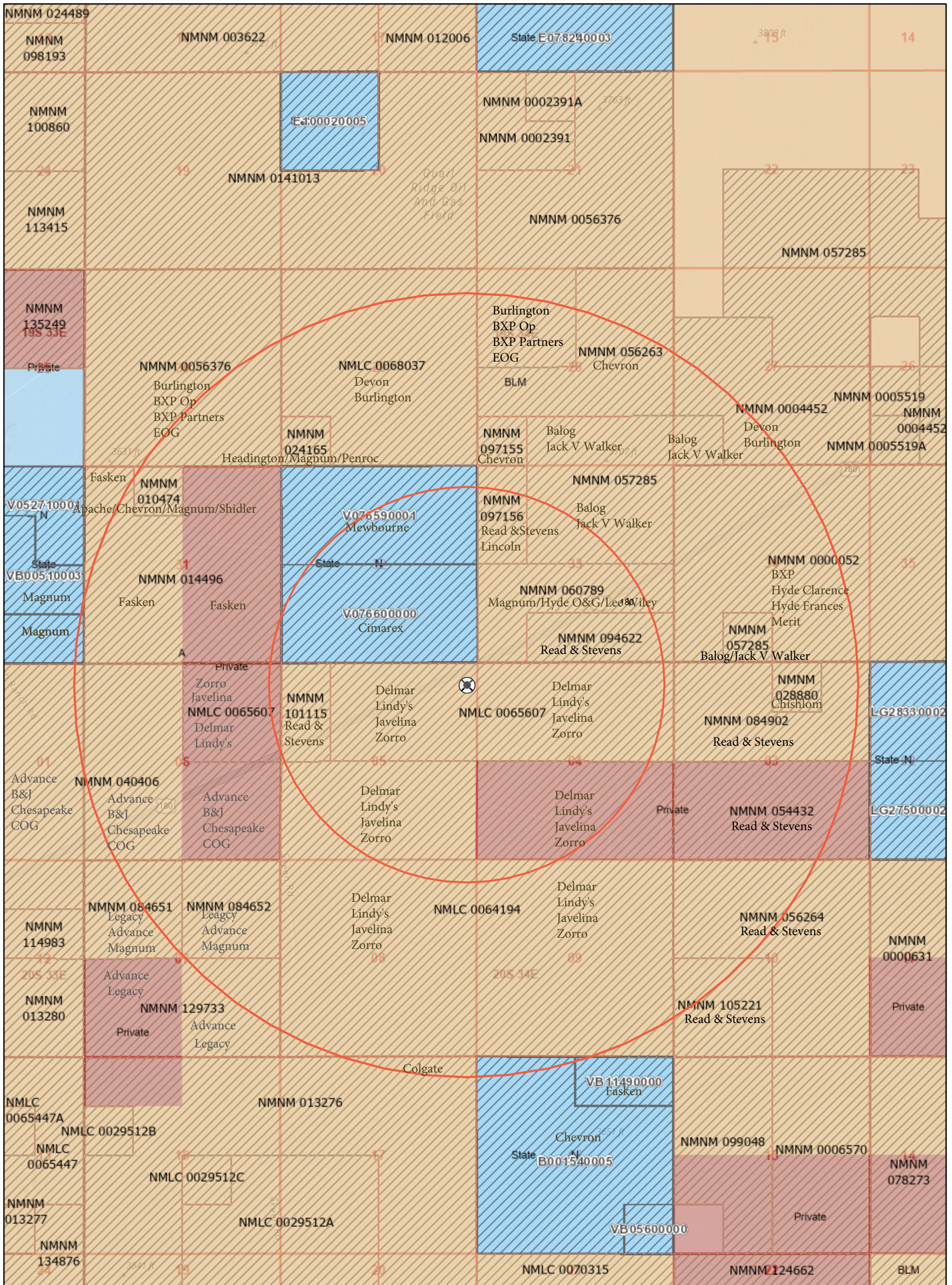
00278997

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

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

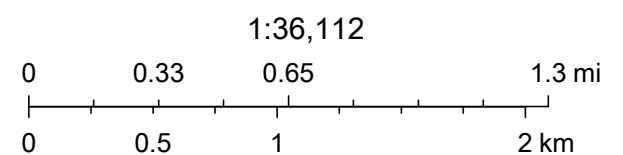
Exhibit A

V (a) Overdue Federal SWD #1, 1 & 2 Mi AOR, Leases



7/8/2023, 7:47:53 PM

- Override 1
- Override 1
- Authorized
- Oil and Gas Leases
- Mineral Ownership**
- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.
- Land Ownership**
- BLM
- P
- S
- PLSS First Division
- PLSS Townships

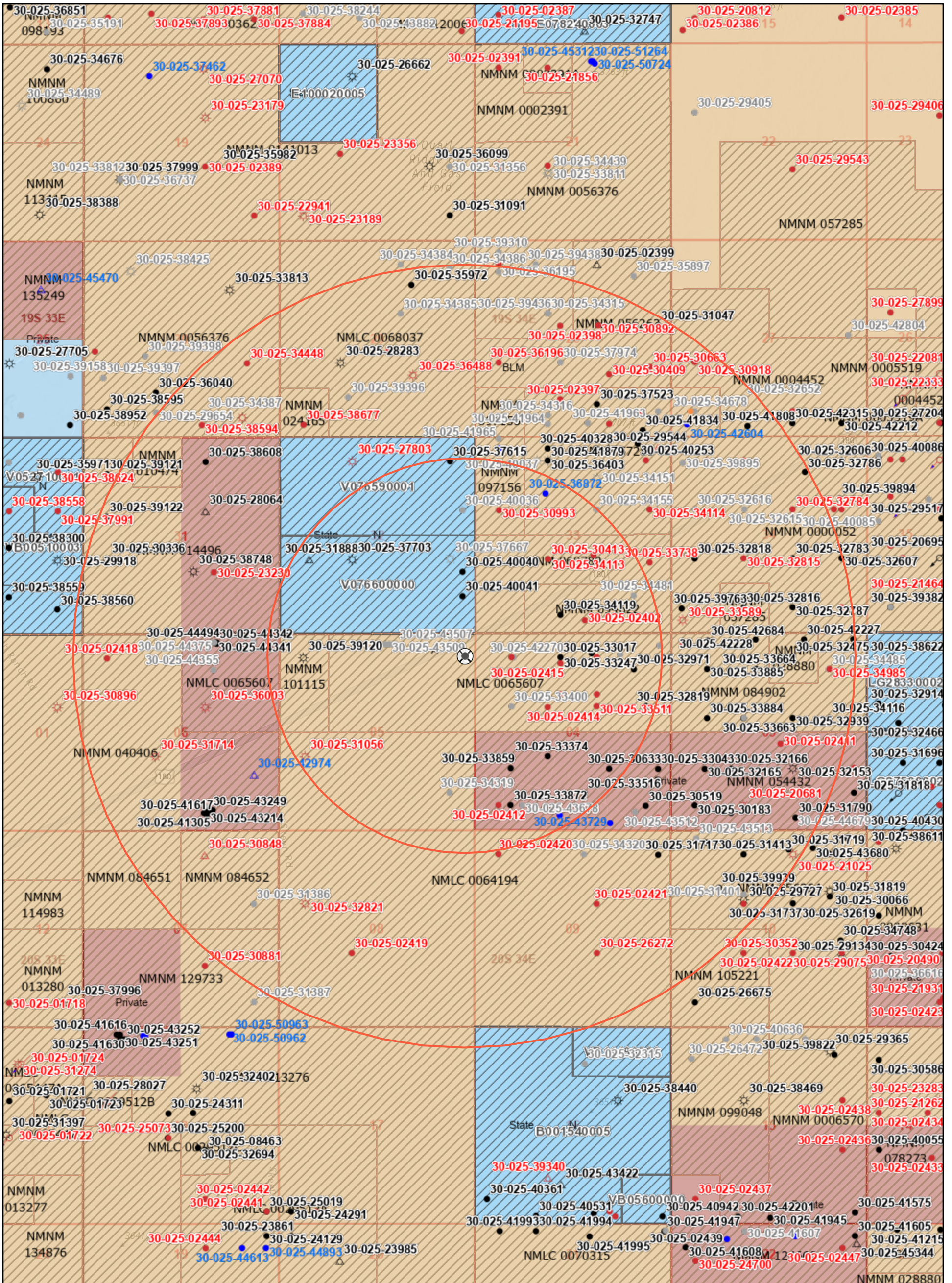


U.S. BLM
 U.S. Department of Interior, Bureau of Land Management (BLM)
 Esri, NASA, NGA, USGS, FEMA
 BLM

New Mexico Oil Conservation Division

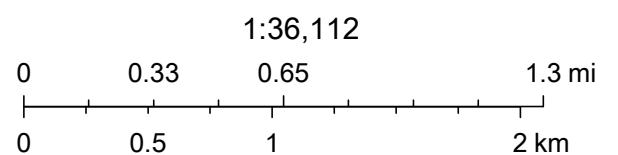
Exhibit A

V (b) Overdue Federal SWD #1, 1 & 2 Mi AOR, Wells



7/8/2023, 7:45:45 PM

- ▭ Override 1
- ⊗ Override 1
- Wells - Large Scale
 - ⊗ Gas, Active
 - ⊗ Gas, Cancelled
 - ⊗ Gas, Plugged
 - ⊗ Injection, Active
 - ⊗ Injection, Plugged
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- △ Salt Water Injection, Active
- △ Salt Water Injection, New
- △ Salt Water Injection, Plugged
- ▨ Authorized
- ▨ Oil and Gas Leases
- Mineral Ownership
 - ▨ A-All minerals are owned by U.S.
 - ▨ N-No minerals are owned by the U.S.
- Land Ownership
 - ▨ BLM
 - ▨ P



U.S. BLM
 U.S. Department of Interior, Bureau of Land Management (BLM)
 Esri, NASA, NGA, USGS, FEMA
 Oil Conservation Division of the New Mexico Energy, Minerals and

New Mexico Oil Conservation Division

Exhibit A

VII (4)

Permian Oilfield Partners, LLC.
 Overdue Federal SWD #1
 602' FNL, 298' FEL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.6077848° N, Lon -103.5747341°
 W GL 3643', RKB 3673'

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.
 Overdue Federal SWD #1
 602' FNL, 298' FEL
 Sec. 11, T20S, R33E, Lea Co. NM
 Lat 32.6077848° N, Lon -103.5747341°
 W GL 3643', RKB 3673'

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



**Attachment to C-108
Permian Oilfield Partners, LLC
Overdue Federal SWD #1
602' FNL & 298' FEL
Sec 5, T20S, R34E
Lea County, NM**

June 10, 2023

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMT 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.

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

1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
2. Basement faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
3. Fault data was also correlated to the publicly available USGS GIS geologic units & structural features database, the NMOCD SWD Applications & Fault Map dated 02/14/2022, to the B3 Insights proprietary faults database, and to fault maps as published in the New Mexico Geological Society Special Publication 13A, "Energy and Mineral Resources of New Mexico: Petroleum Geology," by R. F. Broadhead, 2017.
4. The distance from the proposed injection well to the nearest known fault is approximately 1.7 mi (2.7 km). This fault depth is believed to be in the PreCambrian, well below the Devonian-Silurian injection interval, and separated vertically by the presence of the Montoya, Simpson and Ellenburger formations.
5. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for

probabilistic estimation of fault slip potential resulting from fluid injection”, was used to calculate the probability of the fault being stressed so as to create an induced seismic event.

6. As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 2.7 miles away from the nearest active or permitted Devonian disposal well (Fasken Quail 16 State SWD #9, SWD-1537). There is another permitted Devonian disposal well 5.3 miles to the SW, the Permian TDS, Coombes SWD #1, SWD-1996. Both of these wells are included in the below FSP analysis.
7. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years as per the FSP results screenshots below.

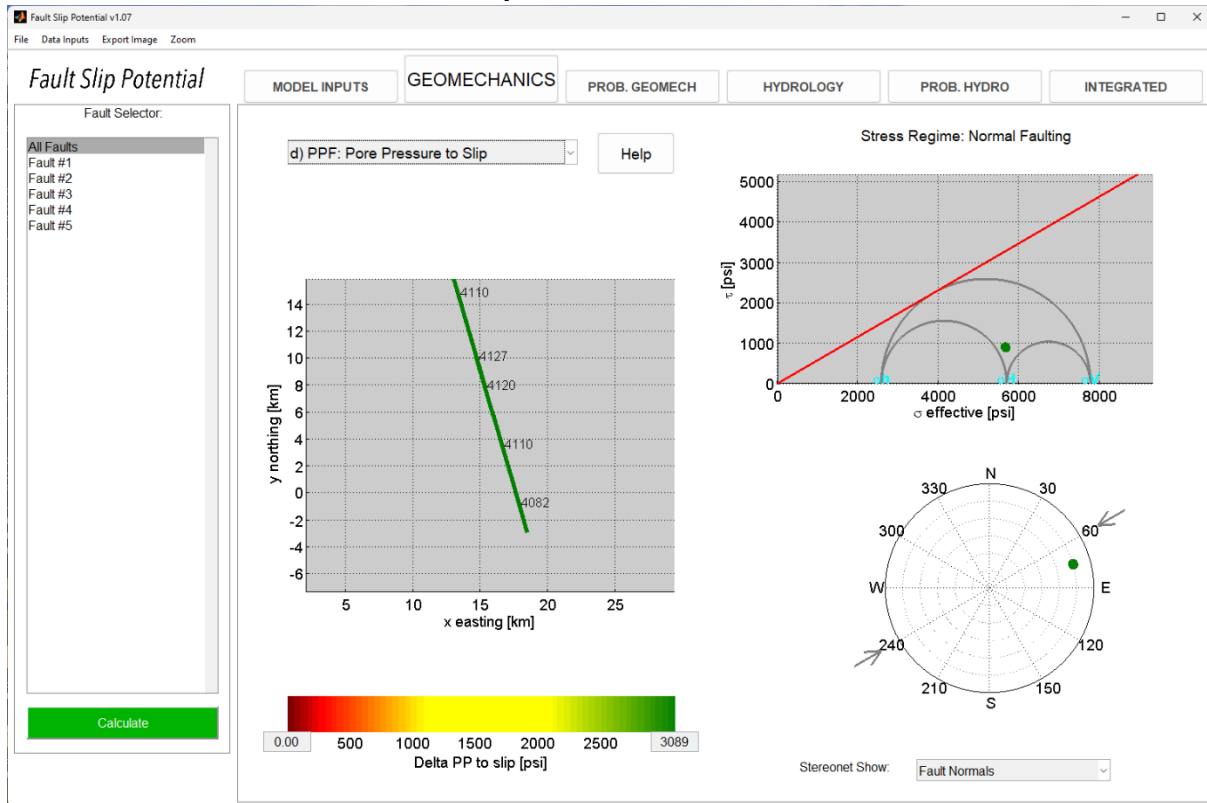
Input assumptions:

Overdue Fed SWD rate (BBL/day)	50000
Fasken Quail 16 SWD #9 rate (BBL/day)	1800
Permian TDS Coombes SWD rate (BBL/day)	30000
Interval height (ft)	1229
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14640
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	19.3
Fluid density (kg/m ³)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

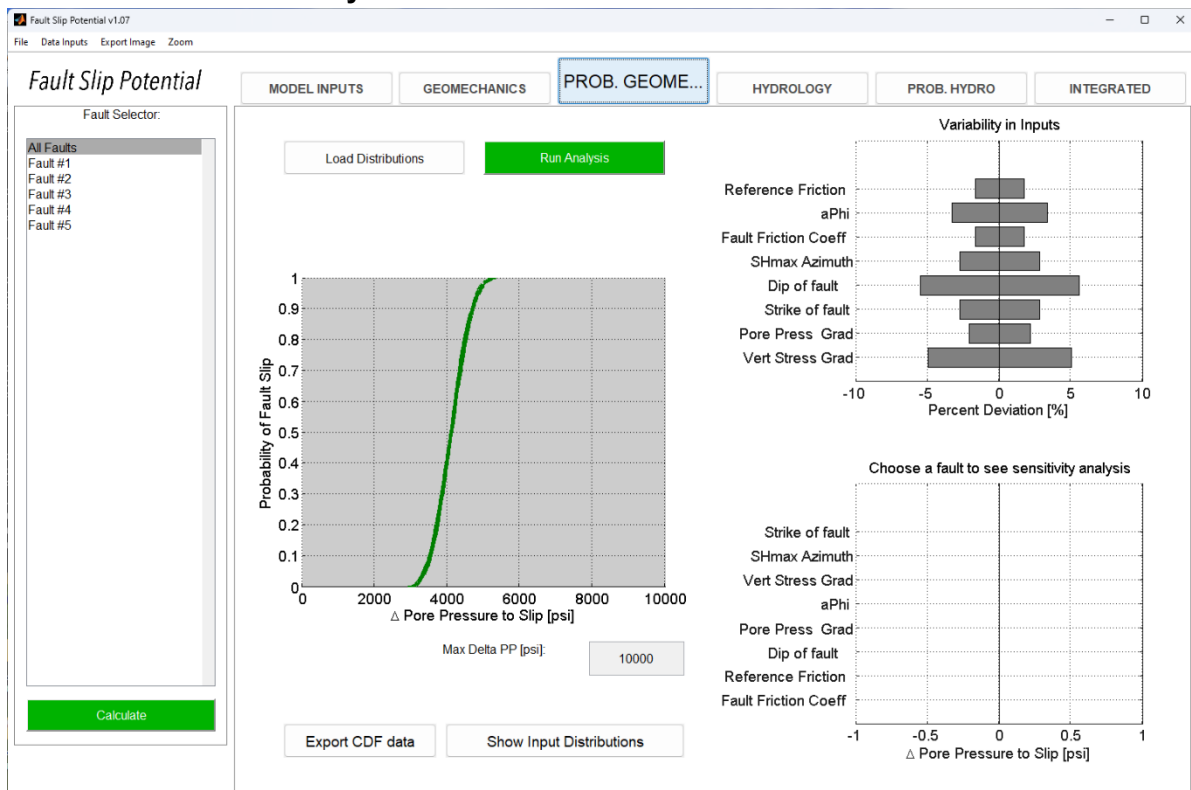
Note:

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

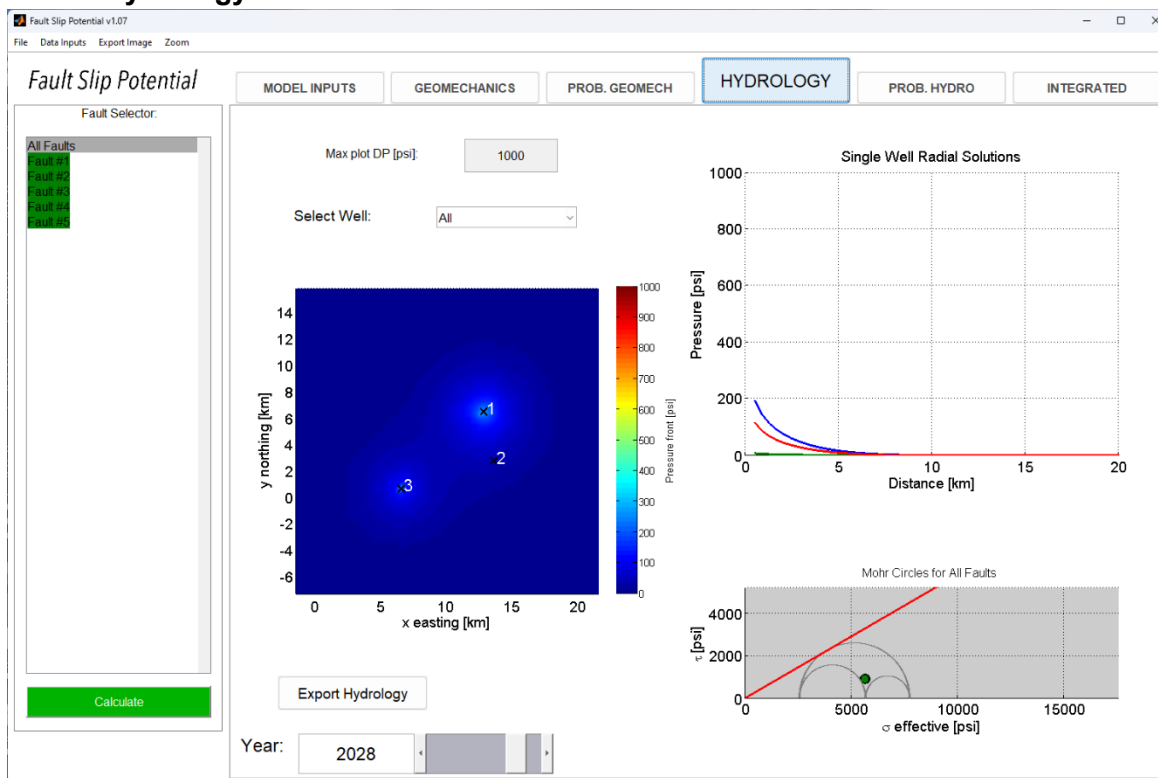
Geomechanics Pore Pressure to Slip



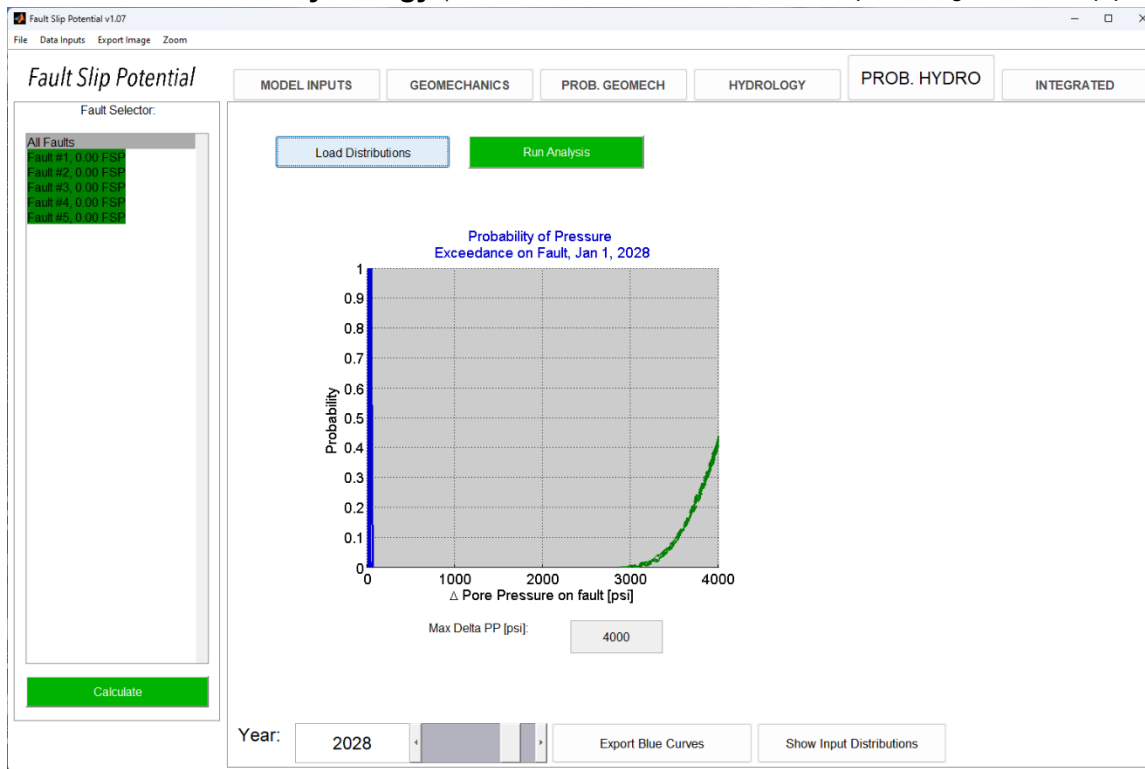
GeoMechanics Variability



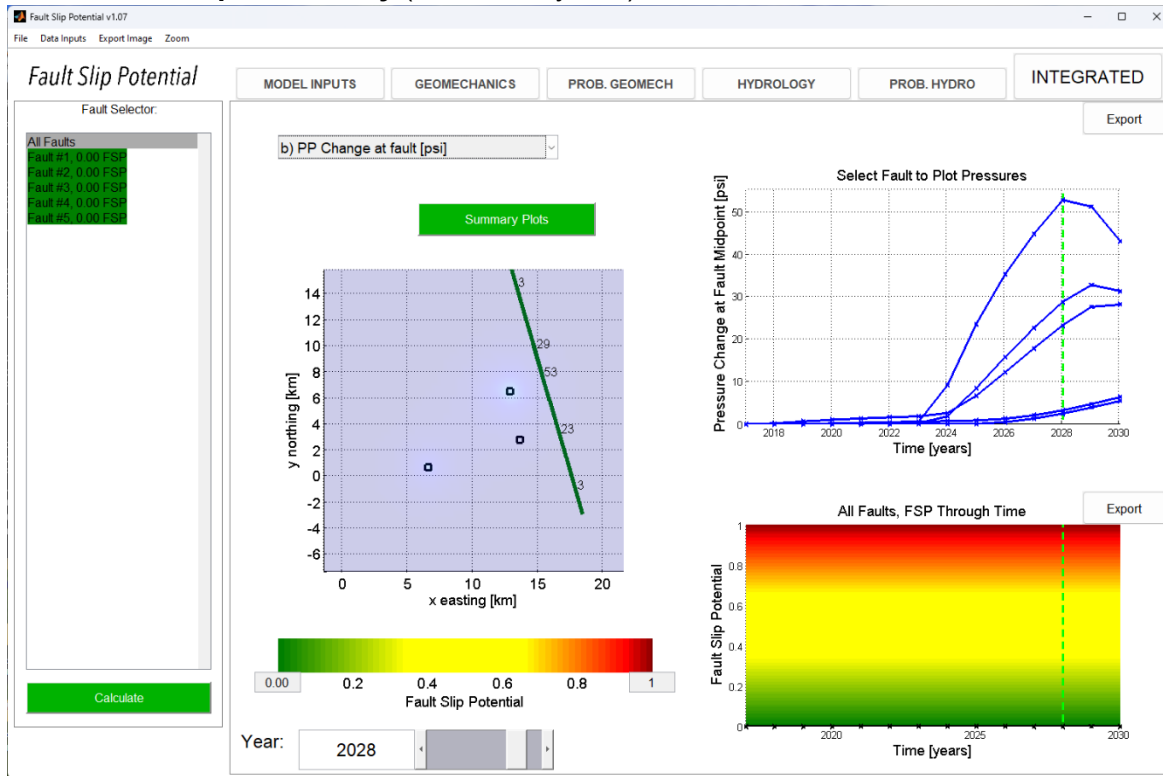
Year 5 Hydrology



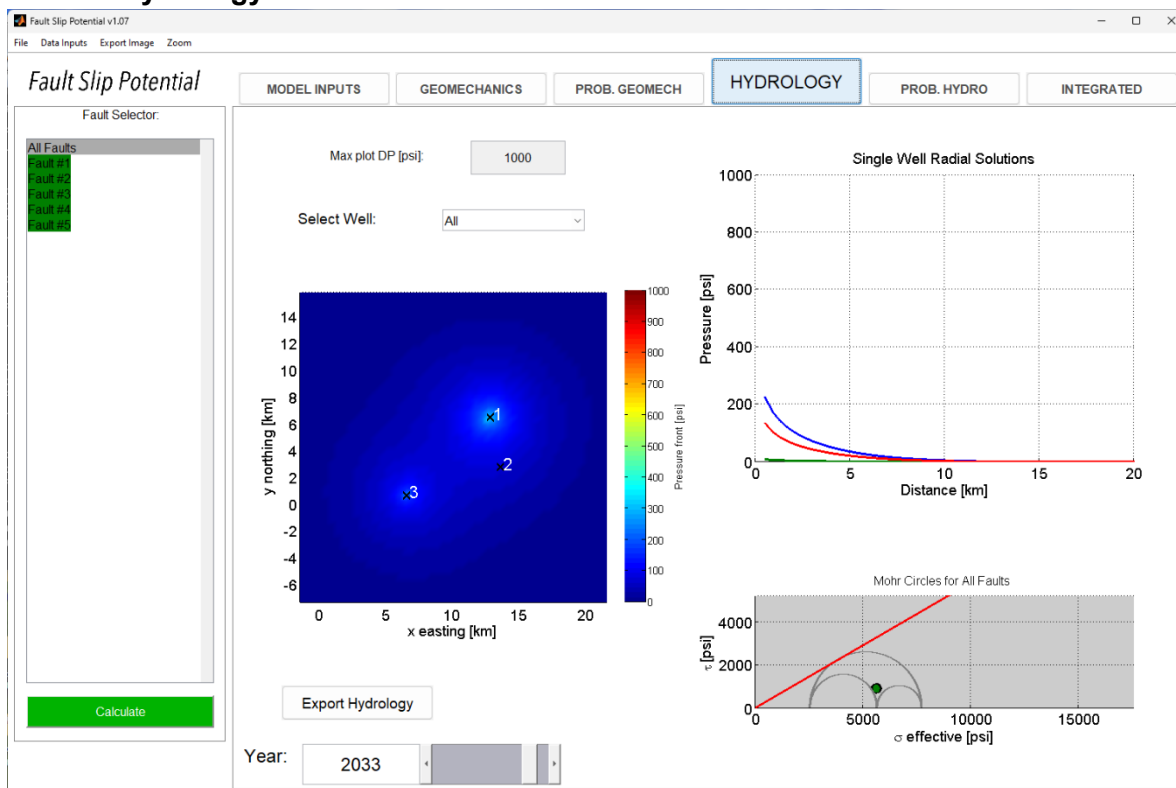
Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



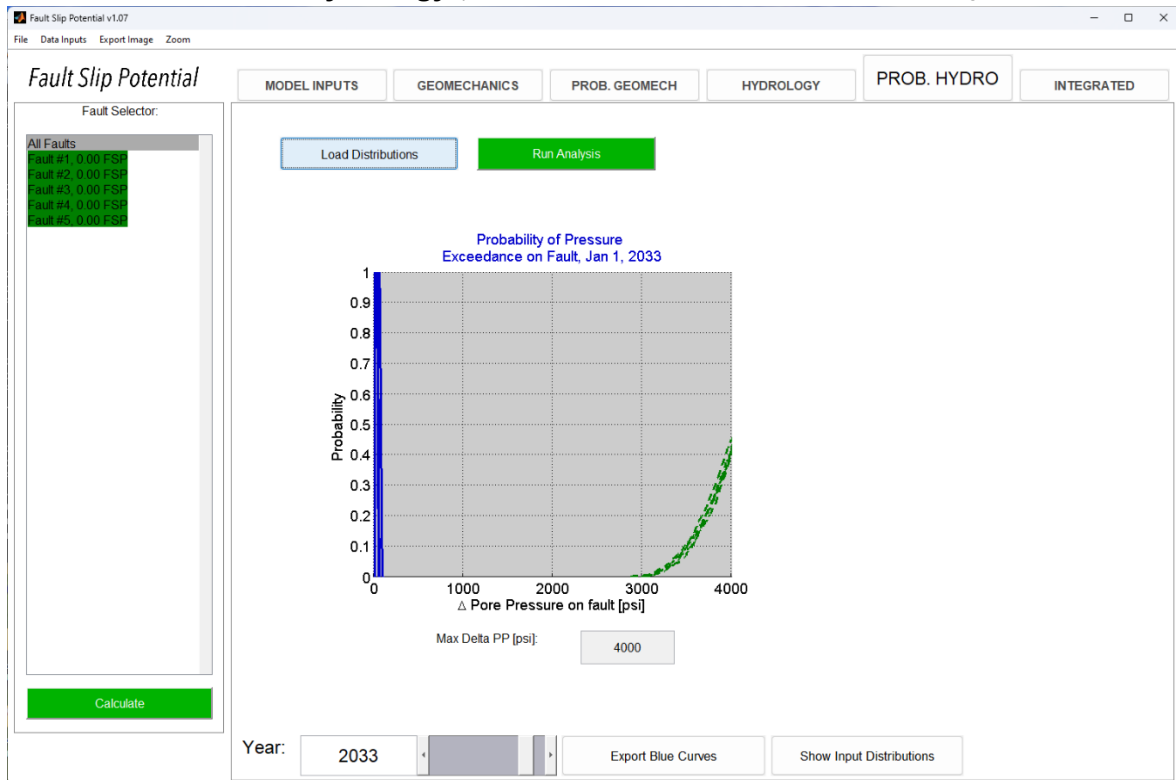
Year 5 Fault Slip Probability (0% after 5 years)



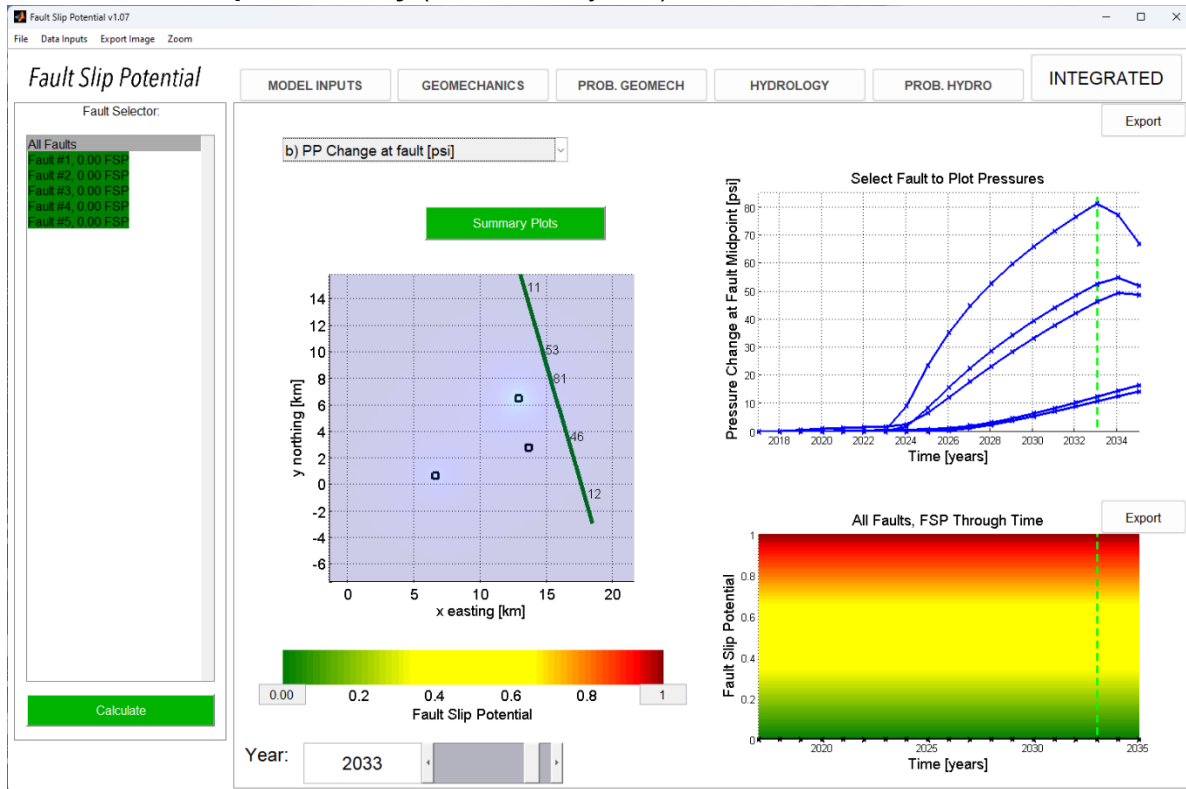
Year 10 Hydrology



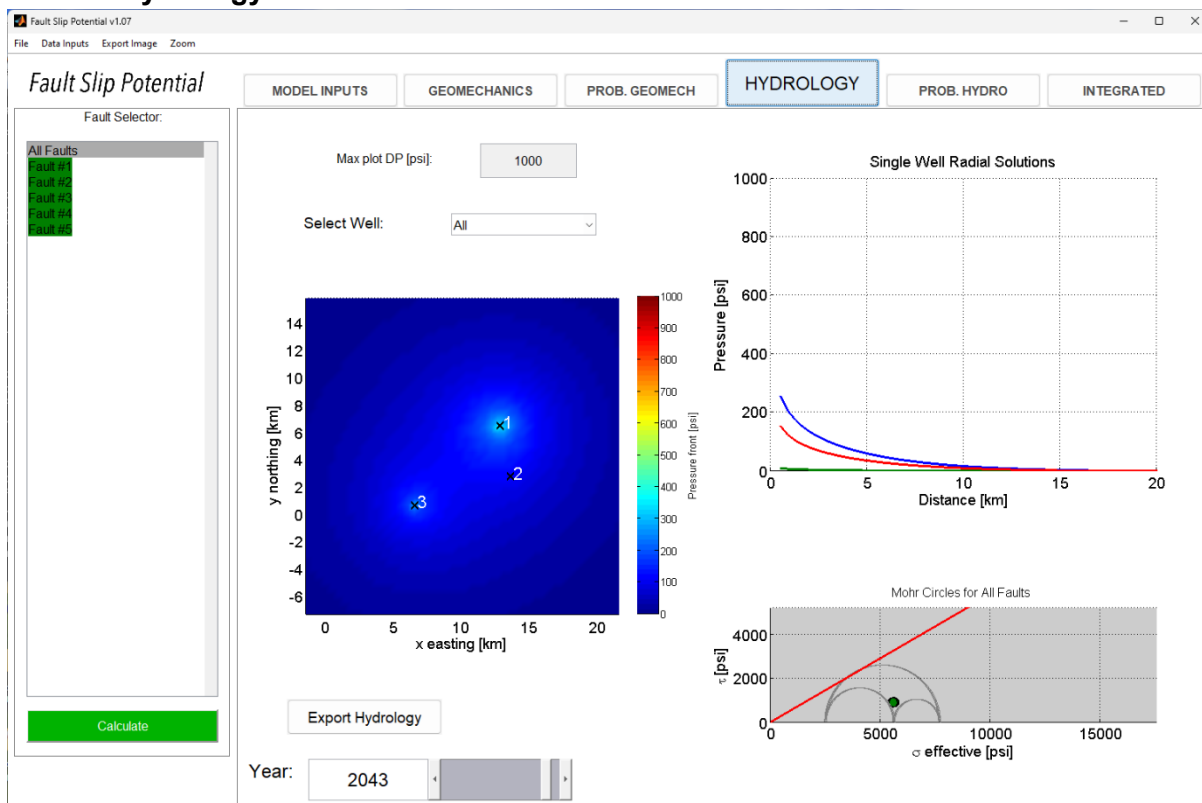
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



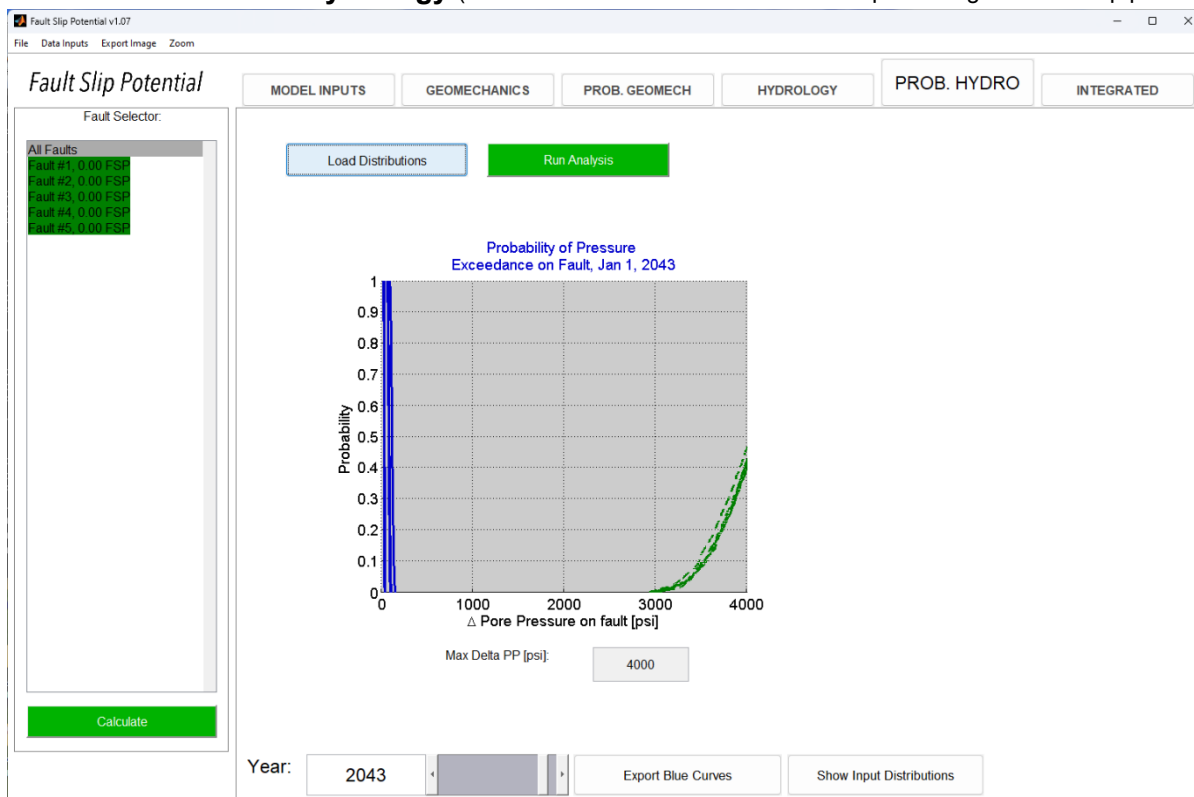
Year 10 Fault Slip Probability (0% after 10 years)



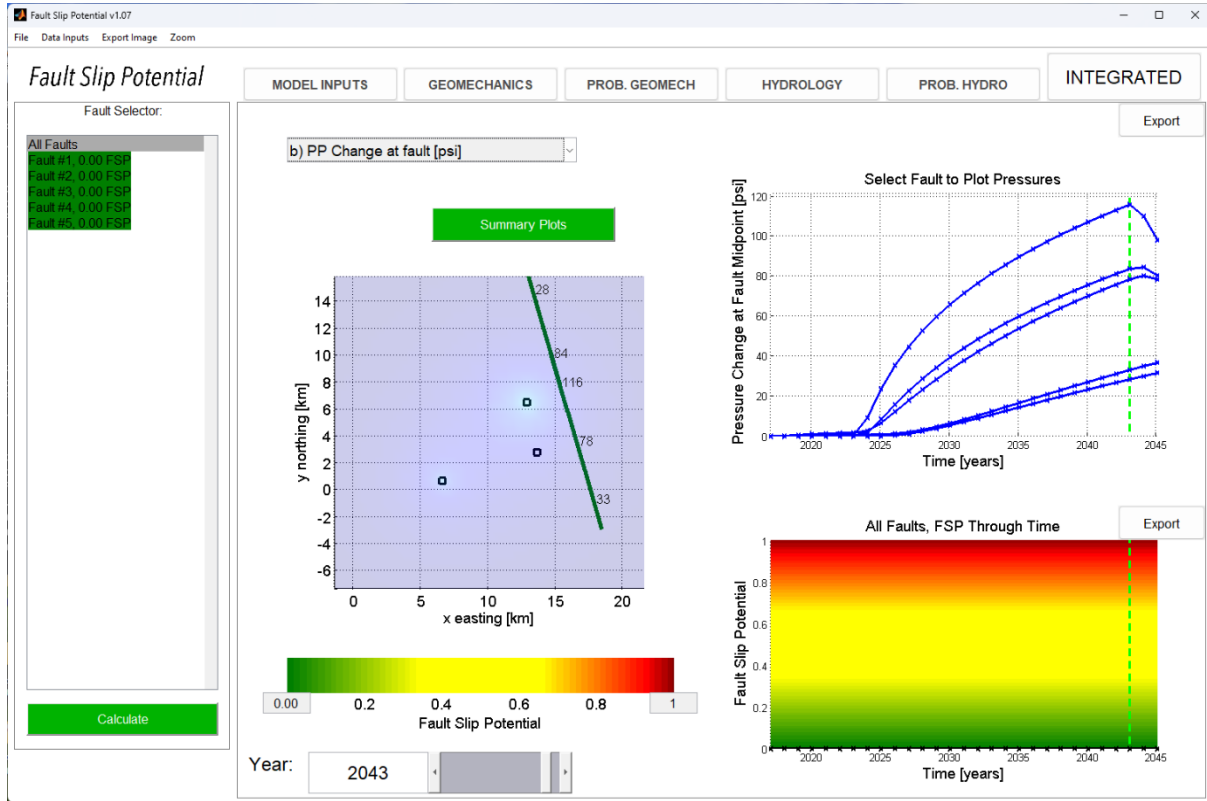
Year 20 Hydrology



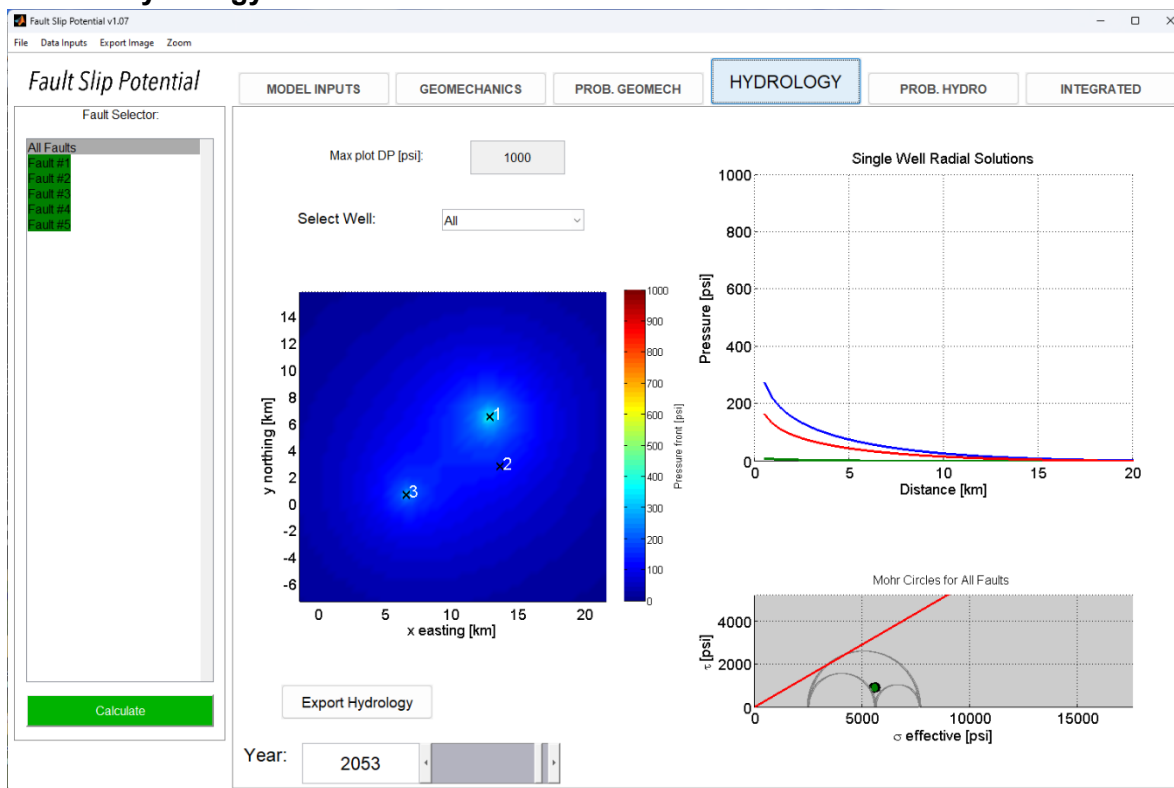
Year 20 Probabilistic Hydrology (note no crossover between blue delta-pressure. & green fault slip press.)



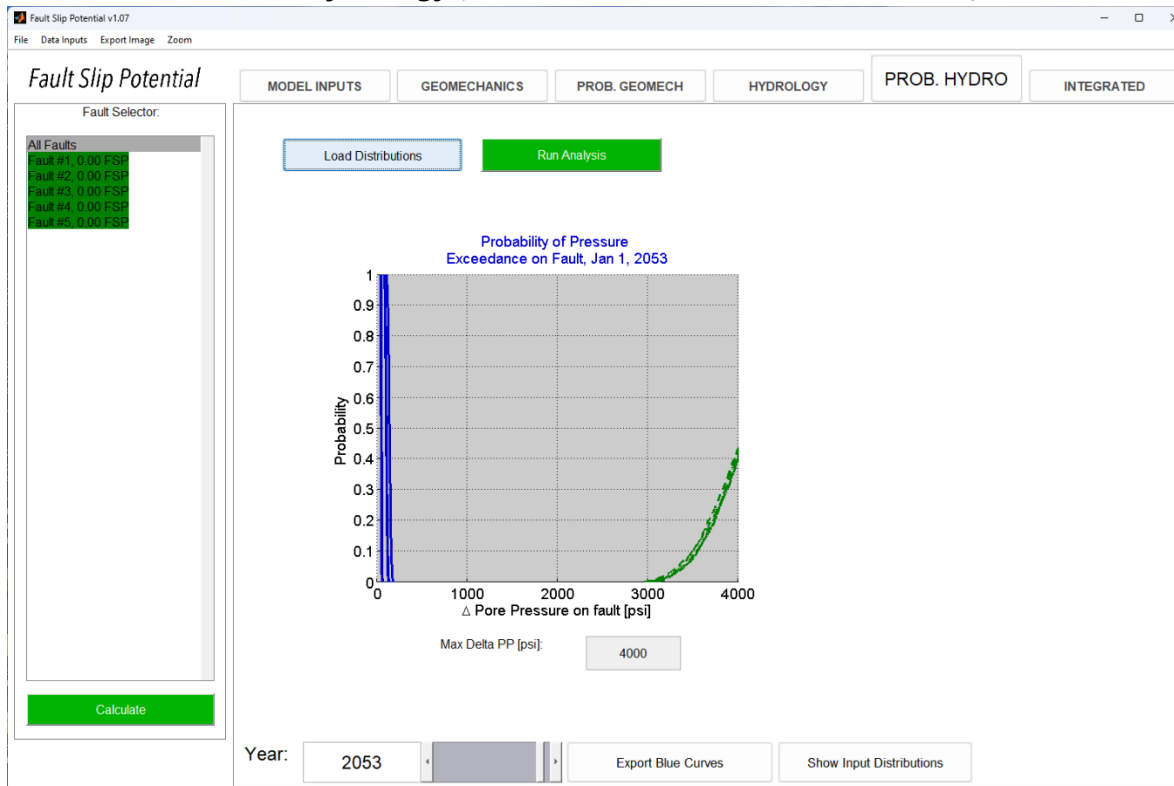
Year 20 Fault Slip Probability (0% after 20 years)



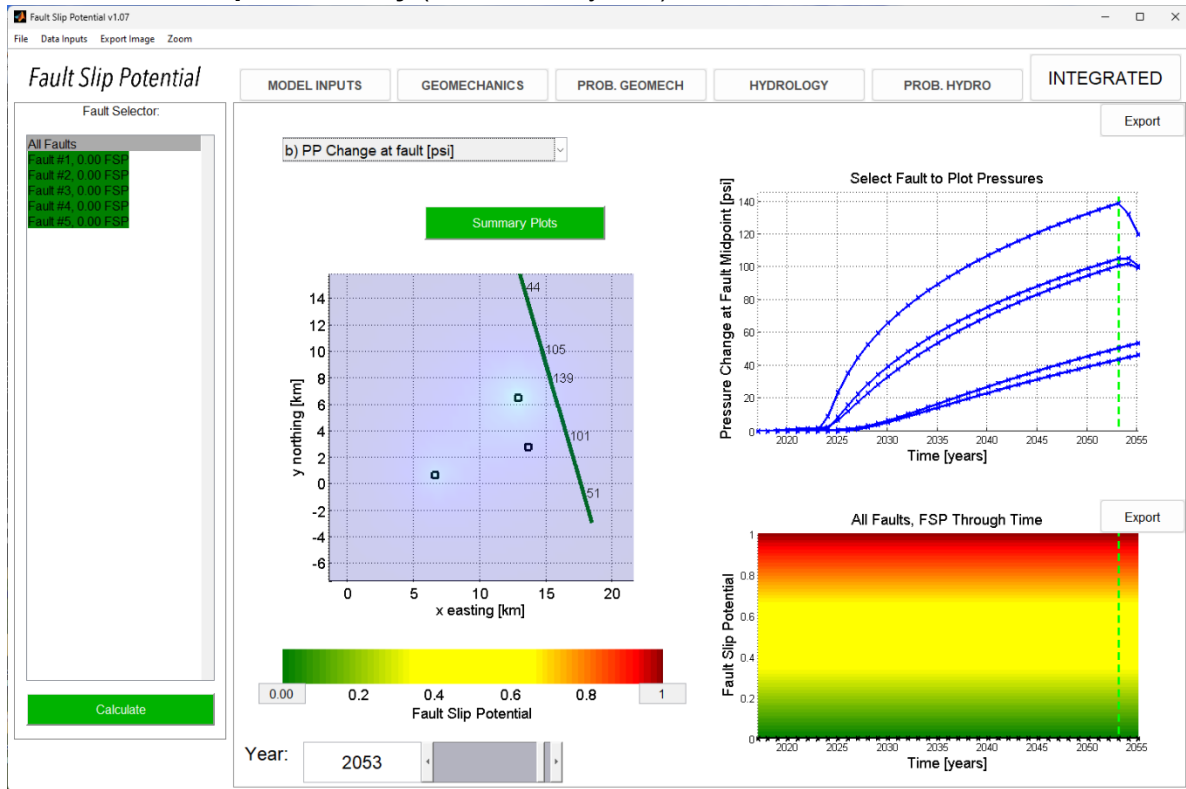
Year 30 Hydrology



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



Year 30 Fault Slip Probability (0% after 30 years)



gfisher@popmidstream.com

(817) 606-7630



Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject
Permian Oilfield Partners, LLC
Overdue Federal SWD #1
602' FNL & 298' FEL
Sec 5, T20S, R34E
Lea County, NM

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

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

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 7/5/2023

VI.

Form 9-831a
(Feb. 1961)

Budget Bureau No. 42-R358.4.
Form Approved.

		X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office LA B. CRUCES
Lease No. 065607
Unit B

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

..... May 15,, 19 63

Pure Federal "C"
Well No. 1 is located 660 ft. from [N] line and 1982 ft. from [E] line of sec. 4

NW NE Sec. 4 20S 14E NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat Lea New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3646 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

In accordance with verbal approval of Mr. Standley, this well was plugged and abandoned on May 13, 1963, as follows:

Set squeeze packer at 12,490. Squeezed below with 150 sacks of slo-set cement at 4500 psi. Placed 30 sack plug cement at 4083-3983 and 10 sack cement plug at 20' to surface. Hole was loaded with 12.2# mud.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company William A. & Edward R. Hudson

Address 302 Carper Building

Artesia, New Mexico

By Ralph L Gray

Title Consulting Engineer

GPO 914974

Form 9-331a
(Feb. 1961)

Budget Bureau No. 42-R358.4.
Form Approved.

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces

Lease No. 063607

Unit E

APPROVED
JUL 22 1963
A. H. BROWN
DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUL 23 1963

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 15, 1963

Pure Federal "C"
Well No. #1 is located 660 ft. from N line and 1982 ft. from E line of sec. 4

N7 NE Sec. 4 (1/4 Sec. and Sec. No.) 20S (Twp.) 34E (Range) MM (Meridian)
Wildcat (Field) Lua (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3646 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

In accordance with verbal approval of Mr. Standley, this well was plugged and abandoned on May 13, 1963, as follows:

Set squeeze packer at 12,490. Squeezed below with 150 sacks of slo-set cement at 4500 psi. Placed 30 sacks plug cement at 4083-3983 and 10 sacks cement plug at 29' to surface. Hole was loaded with 12.2# mud.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company William A. & Edward B. Hudson
Address 302 Carper Building
Artesia, New Mexico
By Ralph L Gray
Title Consulting Engineer

Form 9-381a (Feb. 1961)

Budget Bureau No. 42-R358.4. Form Approved.

APPROVED 1963 JUL 23

(SUBMIT IN TRIPPLICATE)

Land Office LAN CRUCES

Lease No. 065607

Unit 3

	X	JUL 17 1963

UNITED STATES

J. L. GORDON DEPARTMENT OF THE INTERIOR
DISTRICT ENGINEER GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 15, 19 63

Pure Federal "C"
Well No. #1 is located 660 ft. from ^[N]~~203~~ line and 1902 ft. from ^[E]~~34E~~ line of sec. 4

NE NE Sec. 4 203 34E N11M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Lee New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3646 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On May 11, 1963, we reached a depth of 13,008' after drilling out all cement plugs and cleaning out junk. A Baber bridge plug was set at 12,988' in 7" casing. The 7" casing was then perforated from 12,892-920 with 2 1/2" hot shots per foot. On May 13, ran drill stem test from 12,789'-988'. The well flowed at the rate of 620,000 cu.ft. gas per day plus 96 barrels of salt water per hour on a 6 hour test. Pressures were as follows:

Hydrostatic - - 8380 psi. 60 min. F3IP - 6875 FFP - 6153.
60 min. ISIP - 6938 IPF - - - - - 6215

We request approval to plug well as follows (verbal approval was given by Mr. Standley on May 13). Set squeeze packer at about 12,500'. Squeeze below with 150 sacks of sic-set cement. Place cement plugs at 4083-3983 (30 sacks) and 20' to surface (10 sacks). Install 4" marker at surface. Heavy mud between plugs.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company William A. & Edward R. Hudson

Address 302 Carper Building

Artesia, New Mexico

By Ralph L Gray
Title Consulting Engineer.

Budget Bureau No. 42-R358.4.
Form Approved.

Form 9-331a
(Feb. 1961)

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces
Lease No. 065607
Unit B

		X	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 15, 19 63

Well No. 1 is located 660 ft. from N line and 1982 ft. from E line of sec 4

NW NE Sec. 4 (1/4 Sec. and Sec. No.) 20S (Twp.) 34E (Range) NMPM (Meridian)

Wildcat (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3646 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On May 11, 1963, we reached a depth of 13,008' after drilling out all cement plugs and cleaning out junk. A Baker bridge plug was set at 12,988' in 7" casing. The 7" casing was then perforated from 12,892-920 with 2 jet shots per foot. On May 13, ran drill stem test from 12,789'-988'. The well flowed at the rate of 620,000 cu.ft. gas per day plus 96 barrels of salt water per hour on a 6 hour test. Pressures were as follows:

Hydrostatic - - 8380 psi. 60 min. PSIP - 6875 FFP - 6153.
60 min. ISIP - 6938 IFP - - - - - 6215

We request approval to plug well as follows (verbal approval was given by Mr. Standley on May 13). Set squeeze packer at about 12,500'. Squeeze below with 150 sacks of slo-set cement. Place cement plugs at 4083-3983 (30 sacks) and 20' to surface (10 sacks). Install 4" marker at surface. Heavy mud between plugs.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company William A. & Edward R. Hudson

Address 302 Carper Building

Artesia, New Mexico

By Ralph L Gray

Title Consulting Engineer.

GPO 914974

APPROVED N. M. O. C. C. COPY

Budget Bureau No. 42-R358.4
Form Approved.

Form 9-331a
(Feb. 1951)

APR 2 1963

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces

Lease No. 065607

Unit R

E. W. STANDLEY
DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APR 2 1963

		X

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL Re-enter plugged hole	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 1, 1963

Well No. #1 is located 660 ft. from [N] line and 1982 ft. from [E] line of sec. 4

<u>NW NE Sec. 4</u> (¼ Sec. and Sec. No.)	<u>20S</u> (Twp.)	<u>34E</u> (Range)	<u>MPM</u> (Meridian)
<u>Wildcat</u> (Field)	<u>Lea</u> (County or Subdivision)		<u>New Mexico</u> (State or Territory)

The elevation of the derrick floor above sea level is 3646 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is proposed to re-enter this hole which was plugged and abandoned Aug. 21, 1959. The well was previously known as the Pure Oil Company - Federal "C" #1.

We will drill out all cement plugs above the plug at 13,645'. The Morrow Zone at about 12,890 to 12,920 will then be perforated and tested. If a commercial well is indicated, we will file a final plan to complete well at that time.

RECEIVED
APR 1 1963
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company William A. & Edward R. Hudson, et al

Address 302 Carper Building

Artesia, New Mexico

By Rayne L Gray

Title Consulting Engineer.

Drilled to 14,985'. Plugged sack from 14,985' to 14,985' cement in open hole from 14,985' to 14,985' cement in open hole and bottom of 7" OD casing to 13,960' to 13,960'.

Perforated 7" casing from 13,741' with 4 shots per foot, attempted to acidize with 500 gals mud acid, packer failed; acidized with 500 gals mud acid with packer set at 13,655', packer leaking. Swabbed lead water. Acidized with 500 gals mud acid with packer set at 13,646'.

Plugged back in 7" casing from 13,770' to 13,645' with 30 sacks cement, perforated 7" casing from 12,572' to 12,586' with 4 shots per foot. Acidized with 500 gals mud acid.

Plugged and Abandoned: Placed cement plug in 7" casing and over perforations from 12,572' to 12,586' with 12 sacks cement from 12,600' to 12,550'. Shot 7" casing off at 4029', pulled 123 joints, approximately 4000'. Placed cement plug in 7" casing from 6530' to 6470' with 12 sacks cement; from 4220' to 4100' with 24 sacks cement; in 7" and 9-5/8" casing from 4040' to 3940' with 40 sacks; in 9-5/8" casing 20' to surface with 8 sacks cement, with heavy mud between plugs. Welded 1/2" steel plate on top of casing with 4" pipe marker extending 4' above surface.

Form 9-330

TO O. C. C.

HOBBS

Bureau No. 42-R355.4. Expires 12-31-60.

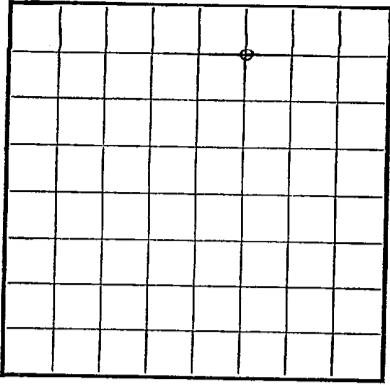
U. S. LAND OFFICE Santa Fe, N. Mex.

HOBBS OFFICE 086 L.C. 065607

LEASE OR PERMIT TO PROSPECT

1959 SEP 22 AM 10:36 UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company The Pure Oil Company Address P.O. Box 2107, Fort Worth, Texas
Lessor or Tract Federal "C" Field Wildcat State New Mexico
Well No. 1 Sec. 4 T. 20S R. 34-E Meridian NMPM County Lea
Location 660 ft. [XX] of N. Line and 1982 ft. [XX] of E. Line of Section 4 Elevation 3646' SCF

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date August 26, 1959 Signed J.L. Suttle Title Chief Clerk

The summary on this page is for the condition of the well at above date.

Commenced drilling December 27, 1958 Finished drilling July 16, 1959

OIL OR GAS SANDS OR ZONES (Denote gas by G)

No. 1, from 13697' to 13741' G No. 4, from ... to ...
No. 2, from 12572' to 12586' G No. 5, from ... to ...
No. 3, from 3720' to 3850' No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from ... to ... No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Table with columns: Size casing, Weight per foot, Threads per inch, Make, Amount, Kind of shoe, Cut and pulled from, Perforated (From-To), Purpose. Includes entries for 13-3/8" and 9-5/8" casings.

MUDDING AND CEMENTING RECORD

Table with columns: Size casing, Where set, Number sacks of cement, Method used, Mud gravity, Amount of mud used. Includes entries for 13-3/8" and 9-5/8" casings.

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Table with columns: Size, Shell used, Explosive used, Quantity, Date, Depth shot, Depth cleaned out.

TOOLS USED

Rotary tools were used from 0 feet to 14985 feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

19... Dry, Plugged & Abandoned Put to producing August 20, 1959

The production for the first 24 hours was ... barrels of fluid of which ...% was oil; ...% emulsion; ...% water; and ...% sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. W. Everett, Driller L. S. Strother, Driller
M. Blain, Driller

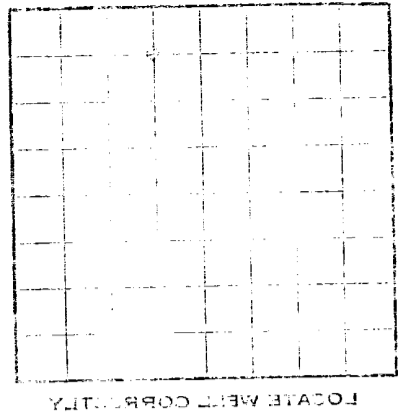
FORMATION RECORD

Table with columns: FROM-, TO-, TOTAL FEET, FORMATION. Lists geological layers from 0 to 7775 feet.

FORMATION RECORD—Continued

10-43004-4

U.S. LAND OFFICE
 FEDERAL BUREAU OF SURVEY
 BUREAU OF GEOLOGICAL SURVEY
 DEPARTMENT OF THE INTERIOR
 UNITED STATES



LOG OF OIL OR GAS WELL

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Company: _____
 Location: _____
 State: _____
 County: _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
 No. 2, from _____ to _____

CASING RECORD

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was changed or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size of casing	Water used	Number sacks of cement	Method used	Kind of gravel	Amount of mud used

PLUGS AND ADAPTERS

Size	Material	Location	Depth

SHOOTING RECORD

Size	Shells used	Explosive used	Quantity	Date	Depth shot	Effect desired

TOOLS USED

Tool	Used from	Used to
Rotary tools	_____ feet	_____ feet
Cable tools	_____ feet	_____ feet

DATES

Put to production _____
 The production for the first 24 hours was _____ barrels of fluid of which _____ was oil.
 If gas well, oil per 24 hours _____ gallons gasoline per 1,000 cu. ft. of gas.
 Rock pressure _____
 If gas well, oil per 24 hours _____
 If water and _____ sediment.

EMPLOYEES

Name	Position
_____	Driller
_____	Driller

FORMATION RECORD

FORMATION	TOTAL FEET	FROM-	TO-
_____	0	0	0
_____	50	0	50
_____	100	50	100
_____	150	100	150
_____	200	150	200
_____	250	200	250
_____	300	250	300
_____	350	300	350
_____	400	350	400
_____	450	400	450
_____	500	450	500
_____	550	500	550
_____	600	550	600
_____	650	600	650
_____	700	650	700
_____	750	700	750
_____	800	750	800
_____	850	800	850
_____	900	850	900
_____	950	900	950
_____	1000	950	1000

FORMATION RECORD - Continued

DRILL STEM TESTS:

- DST #1: From 10,750' to 10,820', 1" x 5/8" chokes, tool open 3 hours, weak air blow throughout the test. Recovered 840' slightly gas cut mud and 90' very slightly oil and gas cut mud, no formation water. 30 minute initial shut in pressure 95#, flowing pressure initial 164#, final 329#, 1 hour final shut in pressure 400#, hydrostatic pressure 5219#, bottom hole temperature 146 deg.
- DST #2: Pennsylvanian from 12,566' to 12,574', 5/8" bottom hole choke, bottom 2500' drill pipe charged with nitrogen to a pressure of 1000 Psi and adjustable surface choke. opened tool, tool plugged immediately. Pulled out of hole, bled down nitrogen in bottom 2500' drill pipe to 100 psi at which pressure gas showed. Recovered 290' gas cut mud. Hydrostatic pressure 7460#.
- DST #3: From 12,566' to 12,575', 5/8" bottom choke, 3/4" adjustable surface choke, bottom 2500' of drill pipe charged with nitrogen to a pressure of 1000 psi. Opened tool, nitrogen to surface in 7 minutes, gas to surface in 60 minutes, tool open 1 hour 15 minutes and packer failed. Measured gas for 15 minutes, maximum rate 1,250 MCF/D and steadily increasing, 3/4" choke, drill pipe pressure 75#. Pulled tool, 1000 psi below nitrogen valve. 5 barrels condensate in drill pipe below valve and estimated 12 barrels gas cut drilling mud below condensate. 30 minute initial shut in pressure 6760#, flowing pressure initial 1380#, final 1600#. Hydrostatic pressure 7260#, bottom hole temperature 230 deg.
- DST #4: From 12,573' to 12,600', 5/8" bottom, 3/4" adjustable surface choke, bottom 2500' of drill pipe charged with Nitrogen to a pressure of 1000#, tool open 3 hours, air to surface in 15 minutes, gas to surface in 55 minutes at rate of 490 MCF/D at 70# tubing pressure, 3/4" choke. Recovered 2 barrels condensate, 1-1/2 barrels gas and condensate cut mud, 180' gas and slightly condensate and slightly salty water cut mud below circulating sub. 30 minute initial shut in pressure 6820#, flowing pressure initial 1180#, final 1420#, 1 hour final shut in pressure 6040#, hydrostatic pressure 7260#.
- DST #5: From 13,075' to 13,120', 5/8" x 1" chokes, 3000' nitrogen blanket charged to pressure of 1000 psi. Tool open 2-1/2 hours, no air blow to surface. Waited 1-1/2 hours, closed and reopened tool, waited 1 hour, no air blow to surface. Bled off nitrogen pressure, recovered very small amount of gas after bleeding nitrogen pressure to 0#, 67' of gas cut mud, no oil or water. 30 minute initial shut in pressure 700# increasing, flowing pressure initial 1160#, final 1160#, 1 hour final shut in pressure 3600# increasing. Hydrostatic pressure 7980#, bottom hole temperature 232 deg.
- DST #6: From 13,665' to 13,750', 5/8" x 1/4" chokes, 4200' of nitrogen blanket charged to 1100 psi. Opened tool and packer failed immediately. Recovered 1300' gas cut drilling mud, hydrostatic pressure 10,000#, bottom hole temperature 223 deg.
- DST #7: From 13,640' to 13,751' with 5/8" x 1/4" chokes with 4200' nitrogen blanket charged to 1100 psi. Opened tool and packer failed immediately. Recovered 630' heavily gas cut mud, hydrostatic pressure 10,000#. Bottom hole temperature 160 - 170 deg.
- DST #8: Attempted test in Mississippian from 14,060' to 14,185', 5/8" x 1" chokes, no water blanket. Plug in circulating sub at 13,980' failed when tool opened, pulled out of hole, left 1-1/4" packer rubbers in hole.
- DST #9: Attempted test in Mississippian from 13,900' to 14,185', packer failed. Recovered 2070' drilling mud, no test.
- DST #10: Mississippian from 13,900' to 14,185', 5/8" x 1" chokes, no water blanket, tool open 4 hours, had strong air blow when tool opened, gas to surface in 8 minutes. First hour flowed at rate of 32,000 cubic feet per day, after 80 minutes, flowed at rate of 25,000 cubic feet per day. At end of 4 hour test rate of 35,500 cubic feet per day. Recovered 532' heavily gas cut drilling mud, no show of oil or formation water. 30 minute initial shut in pressure 6070#, flowing pressure initial 255#, 1 hour final shut in pressure 255#, hydrostatic pressure 6275# to 6260#, bottom hole temperature 188 deg.

DRILL STEM TESTS: (Cont'd)

- DST #11: Devonian 14,599' to 14,622', 5/8 x 1" chokes, no water blanket, tool open 3 hours, gas to surface in 34 minutes. After 2 hours gas volume 4 MCF/D, decreased to very weak blow at end of test. Recovered 10 gallons of free oil, gravity 51 deg at 60 deg. and 1900' of heavily gas cut and slightly oil cut mud, no water. 30 minute initial shut in pressure failed to record. Flowing pressure initial 75#, final 925#, 1 hour final shut in pressure 1025# increasing, hydrostatic pressure 7740#, bottom hole temperature 230 deg.
- DST #12: Devonian 14,620' to 14,672', 5/8" x 1" chokes, no water blanket, tool open 3 hours. Had weak air blow immediately, increased slightly and continued through-out test. Recovered 200' of slightly gas cut mud with brackish taste and 1250' of brackish water. 30 minute initial shut in pressure 6210#, flowing pressure initial 170#, final 650#, 2 hour final shut in pressure 6140# stabilized. Hydrostatic pressure 7695# - 7605#, bottom hole temperature 206 deg.
- DST #13: From 14,625' to 14,973', took 30 minute initial shut in pressure, opened tool and packers failed. Pulled test tool. 30-minute initial shut in pressure 6375#, hydrostatic pressure 8180# - 8070#. Reran test tool with Hookwall packer set at 13,900'. Tool open 7 hours, opened tool with good air blow to surface, gas to surface in 30 minutes, maximum rate of 4 MCF/D, decreased to too small to measure at end of test. Pulled test tool, recovered 11,454' of heavily gas cut mud with brackish taste, no water or oil. Flowing pressure initial 430#, final 5830#, 2-1/2 hour final shut in pressure 5940#, hydrostatic pressure 7495# - 7530#.

FEDERAL "C" #1

FROM	TO	TOTAL FEET	FORMATION	FROM	TO	TOTAL FEET	FORMATION
7969	8928	959	Lime & shale	12233	12318	85	Lime & chert
8928	8942	14	Lime	12318	12411	93	Lime & shale
8942	8967	25	Lime, chert & shale	12411	12461	50	Lime, shale & sand
8967	9001	34	Lime & chert	12461	12487	26	Lime & shale
9001	9209	208	Lime, chert & shale	12487	12558	71	Lime, shale & sand
9209	9256	47	Lime & shale	12558	12740	182	Lime & shale
9256	9272	16	Lime	12740	12800	60	Lime
9272	9289	17	Lime, chert & shale	12800	12812	12	Lime, shale & chert
9289	9300	11	Lime & chert	12812	12879	67	Lime & chert
9300	9342	42	Lime, shale & chert	12879	12890	11	Lime
9342	9354	12	Shale & chert	12890	12942	52	Lime & shale
9354	9407	53	Shale, chert & lime	12942	12943	1	Shale
9407	9428	21	Shale, sand & chert	12943	12955	12	Lime, shale & sand
9428	9562	134	Shale & sand	12955	12964	9	Lime, shale, sand & chert
9562	9580	18	Lime, chert & sand & shale	12964	13042	78	Lime, shale & sand
9580	9679	99	Shale, sand & chert	13042	13052	10	Lime & shale
9679	9696	17	Lime & shale	13052	13079	27	Lime, sand & shale
9696	9711	15	Shale, sand & chert	13079	13136	57	Lime, shale & sand
9711	9733	22	Shale & sand	13136	13140	4	Sand, lime & chert
9733	9757	24	Lime, shale & chert	13140	13163	23	Lime, sand & shale
9757	9806	49	Shale, sand & chert	13163	13250	87	Sand & shale
9806	9822	16	Lime & shale	13250	13263	13	Shale, sand & lime
9822	9856	34	Shale & sand	13263	13308	45	Shale & sand
9856	9895	39	Lime & shale	13308	13348	40	Shale
9895	9933	38	Shale	13348	13365	17	Shale & lime
9933	9961	28	Shale, sand & lime	13365	13389	24	Shale, lime & sand
9961	10008	47	Sand & shale	13389	13413	24	Lime, sand & shale
10008	10089	81	Sand, shale & lime	13413	13574	161	Lime & shale
10089	10103	14	Lime, shale, dolomite	13574	13642	68	Shale
10103	10125	22	Lime, sand & shale	13642	13680	38	Shale & lime
10125	10137	12	Lime & sand	13680	13700	20	Shale
10137	10153	16	Lime, shale, chert & sand	13700	13728	28	Shale & lime
10153	10178	25	Lime, sand & shale	13728	13751	23	Shale & sand
10178	10200	22	Lime & sand	13751	13800	49	Shale & lime
10200	10222	22	Lime, sand, shale & chert	13800	13838	38	Lime & shale
10222	10247	25	Lime, shale & chert	13838	13875	37	Lime & chert
10247	10305	58	Lime & sand	13875	13887	12	Lime
10305	10330	25	Lime, shale & sand	13887	13915	28	Lime & chert
10330	10354	24	Lime & sand	13915	13926	11	Lime
10354	10365	11	Lime, sand & shale	13926	14271	345	Lime & chert
10365	10396	31	Lime & shale	14271	14276	5	Lime
10396	10462	66	Lime, shale & sand	14276	14304	28	Lime & chert
10462	10483	21	Lime & shale	14304	14310	6	Lime
10483	10516	33	Lime, shale & chert	14310	14327	17	Lime & shale
10516	10537	21	Lime & shale	14327	14335	8	Lime & chert
10537	10617	80	Lime, shale & sand	14335	14339	4	Lime, chert & shale
10617	10644	27	Lime & shale	14339	14348	9	Lime & chert
10644	10752	108	Lime, shale & sand	14348	14358	10	Lime
10752	10820	68	Sand	14358	14367	9	Lime, shale & chert
10820	10894	74	Sand, shale & lime	14367	14370	3	Lime & chert
10894	10901	7	Shale & lime	14370	14419	49	Lime & shale
10901	10947	46	Lime, shale & sand	14419	14438	19	Shale
10947	11132	185	Shale	14438	14456	18	Shale & lime
11132	11188	56	Shale & lime	14456	14561	105	Shale
11188	11198	10	Shale & chert	14561	14574	13	Lime
11198	11218	20	Chert	14574	14582	8	Shale
11218	11231	13	Shale, chert & sand	14582	14601	19	Shale & Dolomite
11231	11298	67	Shale & chert	14601	14622	21	Dolomite
11298	11380	82	Shale, lime & chert	14622	14985	363	Lime
11380	11409	29	Shale & lime		14985		Total Depth
11409	11453	44	Lime, shale & chert	14985	13645	-1340	PBTD
11453	11504	51	Shale & lime				
11504	11544	40	Shale				
11544	11594	50	Shale & lime				
11594	11821	227	Shale				
11821	11869	48	Shale & lime				
11869	11920	51	Shale				
11920	12182	262	Shale & lime				
12182	12233	51	Lime, shale & chert				

Exhibit A

DEFLECTION TESTS

<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>
10008	1-3/4	12405	1-3/4
10125	2	12461	1-1/2
10245	1-1/4	12530	1-3/4
10305	1	12705	1
10355	1-1/4	12740	1-1/2
10402	1	12790	1-1/2
10462	1-1/2	12860	1
10490	1-3/4	12980	1-1/4
10537	1-3/4	13063	1-1/2
10617	1-1/4	13134	1-1/4
10752	1-3/4	13182	1
10820	1-3/4	13250	1
10900	1-3/4	13295	1-1/2
11005	1-3/4	13348	1/4
11110	1-3/4	13443	1
11185	1-1/4	13642	1
11240	1-1/4	13680	1-1/4
11385	1-1/4	13813	1
11435	1-1/2	13858	1-1/4
11485	1-3/4	14019	3/4
11520	1-3/4	14137	1-1/4
11664	2-1/4	14194	1-1/2
11750	2	14237	1-1/4
11850	1-1/2	14275	1
11994	1-3/4	14327	1
12066	1-1/4	14370	1-1/2
12130	1-1/4	14406	1-1/4
12157	1-1/4	14456	1-1/4
12282	1-1/4	14807	1-1/2
12347	1-1/2		

Exhibit A

DEFLECTION TESTS

<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>
10008	1-3/4	12405	1-3/4
10125	2	12461	1-1/2
10245	1-1/4	12530	1-3/4
10305	1	12705	1
10355	1-1/4	12740	1-1/2
10402	1	12790	1-1/2
10462	1-1/2	12860	1
10490	1-3/4	12980	1-1/4
10537	1-3/4	13063	1-1/2
10617	1-1/4	13134	1-1/4
10752	1-3/4	13182	1
10820	1-3/4	13250	1
10900	1-3/4	13295	1-1/2
11005	1-3/4	13348	1/4
11110	1-3/4	13443	1
11185	1-1/4	13642	1
11240	1-1/4	13680	1-1/4
11385	1-1/4	13813	1
11435	1-1/2	13858	1-1/4
11485	1-3/4	14019	3/4
11520	1-3/4	14137	1-1/4
11664	2-1/4	14194	1-1/2
11750	2	14237	1-1/4
11850	1-1/2	14275	1
11994	1-3/4	14327	1
12066	1-1/4	14370	1-1/2
12130	1-1/4	14406	1-1/4
12157	1-1/4	14456	1-1/4
12282	1-1/4	14807	1-1/2
12347	1-1/2		

Exhibit A

Budget Bureau No. 42-4568.1
Approval expires 12-31-60.

Form D-881a
(Feb. 1961)

		C	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe, New Mexico
Lease No. LC 66047
Unit HOBBS OFFICE OCC

1959 AUG 27 PM 3:43

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	X	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 26 19 59

Federal #00

Well No. 1 is located 660 ft. from (N) line and 1982 ft. from (E) line of sec. 4

NW 1/4, NE 1/4
(Of Sec. and Sec. No.)

T-20-S
(Twp.)

R-3-E
(Range)

106W
(Meridian)

Wildcat
(Field)

Lee
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; include mudding jobs, cementing points, and all other important proposed work)

Spudded 17-1/2" hole 12-27-58, ran 499' of 13-3/8" OD casing, cemented w/ 525 sacks, maximum pressure 250#, had cement returns to surface. 12-1/4" hole complete 1-18-59 at 1262', ran 4801' of 9-5/8" OD casing, cemented w/ 2900 sacks, maximum pressure 600#, had cement returns to surface. Tested casing and cement w/ 1000#, held 30 minutes OK. 18 hours WOC.

8-3/4" hole complete 5-22-59 at 13,915', ran 13,915' of 7" OD casing, cemented w/ 510 sacks, maximum pressure 900#, 36 hours WOC, ran temperature survey, indicated top of cement outside 7" casing at 12,090' from surface. Tested casing and cement w/ 1000# for 30 minutes, held OK.

4-3/4" hole completed 7-16-59 at 11,985', placed cement plug in open hole and bottom of 7" casing 11,985' to 13,828' w/ 100 sacks. Perforated 7" casing 13,697'-13,741' w/ 175 jet shots, treated parts 13,697'-13,741' w/ 500 gallons mud acid, placed cement plug in 7" casing 13,770'-13,645' w/ 30 sacks. Perforated 7" casing 12,572'-12,586' w/ 56

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Pure Oil Company

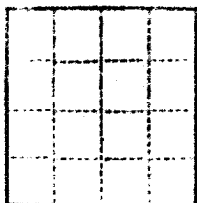
Address Box 671

Midland, Texas

By [Signature]
W. E. Townsend
Chief Clerk

GPO #18507

WH 9-381a
(Feb. 1961)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Local Office

Lease No.

NOBBS OFFICE OCC

Unit

NOV 27 PM 3:43

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Federal #C#

19

Well No. 1 is located ft. from N line and ft. from E line of sec.

(Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

jet shots, treated perfs 12,572'-12,586' w/ 500 gallon mud acid. Placed cement plug in 7" casing 12,600' to 12,500' with 12 sacks. Shot 7" casing off at 4029', pulled 7" casing, placed cement plug in 7" casing 6530'-5470' w/ 12 sacks, 4220'-4100' w/ 24 sacks, 4040'-3940' w/ 40 sacks, 20' to surface w/ 8 sacks. Welded 1/2" steel plate on top casing with 1" marker extended 4' above surface.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company

Address

By

Title

GPO 8 18 507

RECORDS OFFICE (20)
AUG 26 1959

August 26, 1959

United States Department of the Interior
Geological Survey
Box 1896

Albuquerque, New Mexico

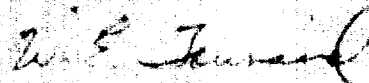
ATTENTION: Mr. T. E. Godfrey, Petroleum Engineer

Dear Sir:

Attached herewith three (3) copies of Form 9-311a "Sundry Notices and Reports on Wells" on The Pure Oil Company's Federal "C" No. 1, Wildcat dry hole drilled in Section 4, Township 20-S, Range 24-S, Lea County, New Mexico.

Yours very truly,

THE PURE OIL COMPANY



W. E. Townsend
Chief Clerk

WET:evv

cc: Schaffer
Teague
File
Signal Oil & Gas Co.
Mr. Ray Diemer
801 Wilco Bldg.
Midland, Texas
Signal Oil & Gas Co.
Mr. Wallace
1010 Ft. Worth Bank Bldg.
Fort Worth 2, Texas
New Mexico Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

Form 9-831a
(Feb. 1961)

Land Office Santa Fe, N.M.

Lease No. 16-065607

Unit _____

(SUBMIT IN TRIPLICATE)

		0	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			
Progress report for DST #1	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 20, 1959

Federal "C"

Well No. 1 is located 660 ft. from N line and 1982 ft. from E line of sec. 4

NW/4, NE/4

1-20-S

R-31-E

101PM

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Wilburt

Lee

New Mexico

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 3662 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 5125' to 11,524' in lime, dolomite, sand, shale and chert.

DST #1 10,750' - 10,820'

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Pure Oil Company

Address Box 671

Midland, Texas

By W. E. Townsend
W. E. Townsend

Title Chief Clerk

GPO 9 18 507

HOURS OFFICE OCC

1959 MAR 20 AM 8:11

March 20, 1959

United States Department of the Interior
Geological Survey
Box 1838
Hobbs, New Mexico

ATTENTION: Mr. T. L. Godfrey, Petroleum Engineer

Dear Sir:

Attaching three copies of Form G-331a "Sundry Notices and Reports on Wells" as our progress report on The Pure Oil Company's Federal "C" Well No. 1, located in Section 1, Township 20-S, Range 11-E, Lea County, New Mexico.

Yours very truly,

THE PURE OIL COMPANY

W. E. Townsend
Chief Clerk

WET:esr

cc: Mr. W. F. Schafer
Mr. H. G. Teague
File
Signal Oil & Gas Company
Mr. Ray Diemer
801 Wilco Bldg.
Midland, Texas
Signal Oil & Gas Company
Mr. Wallace
1010 Fort Worth National Bank Bldg.
Fort Worth 2, Texas
New Mexico Oil Conservation Commission
Box 2045
Hobbs, New Mexico

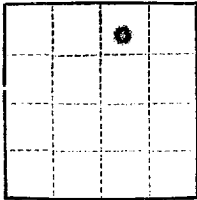
Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office Santa Fe, N.M.

Lease No. 065407

Unit _____



HOOURS OFFICE OCC
**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

1959 JAN 25 AM 7:10

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			
Set & test intermediate pipe	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 23, 1959

Federal #
Well No. 1 is located 660 ft. from N line and 1902 ft. from E line of sec. 4

N/4 NE/4 T-20-S R-34-S W1/4
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Midland Lee New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 1068'-5125' in dolomite, sand & lime. Ran electric logs to 1792', ran 1801' of 9-5/8" OD casing w/ casing shoe set at 1801' SCF, float collar at 1738', Rouse two stage IW tool set at 3510', cemented 1st stage thru shoe at 1801' with 300 sacks 75% incoer cement, 25% stratocrete w/ 6% gels added and 200 sacks incoer neat cement. Pumped plug to 1738', maximum and final pressure 600#. Opened IW tool at 3510', 2nd stage cemented w/ 2400 sacks 50-50 incoer-diamix w/ 6% gel added, had cement returns to surface 1 1/2 hours WOC. Tested 9-5/8" casing, control equipment and cement with 1000# for 30 minutes, hold OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Pure Oil Company

Address Box 671

Midland, Texas

By W. E. Townsend

W. E. Townsend

Title Chief Clerk

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

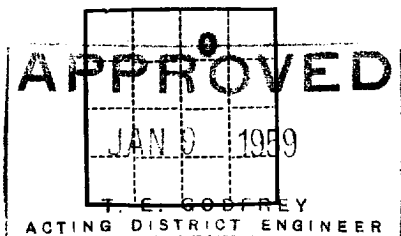
Form 9-331a
(Feb. 1961)

(SUBMIT IN TRIPLICATE)

Land Office Santa Fe, N.M.

Lease No. L.C. 065607

Unit _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			
<u>Spud & set surface casing</u>	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 8, 1959

Federal *C*
Well No. 1 is located 660 ft. from N line and 1902 ft. from E line of sec. h

NE/4 NE/4 T-20-S R-31-E MUM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Midland Lee New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3648 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spud 12-1/4" hole 6:30 AM 12-27-58, drilled to 505' in red beds, reamed 12-1/4" hole to 17-1/2" from 0' to 505'. Ran 499' of 13-3/8" OD casing with Guide Shoe set at 499' BCF, three sets centralizers installed. Cemented 13-3/8" casing with 525 sacks Portland Heat Cement. Pumped plug to 468', maximum pressure 250#. Had cement returns to surface, 24 hours WOG. Test 13-3/8" casing, control equipment and cement with 1000#, held 30 minutes OK.

Drilled 505' - 468' red beds, anhydrite, salt, dolomite, lime and sand.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Pure Oil Company

Address Box 671

Midland, Texas

By [Signature]

Title Chief Clerk

GPO 9 18 507

Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office San Joaquin Co., Calif.

Lease No. 06507

Unit _____

Subject to the condition on back of this page

DEC 8 1958

APPROVED
T. E. Godfrey
T. E. GODFREY
ACTING DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 11, 1958

Federal # 1
Well No. 1 is located 640 ft. from (N) line and 1982 ft. from (E) line of sec. 4
34/4 14/4 T-20-N R-36-E 107E
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Illinois Law New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the ground above sea level is 3648 ft. Arrived at by differential levelling from BM 2421-2423 N.M. 9-56, 1920.
DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Casing Program: 420' - 11-3/4" OD 42# 1-40 New Cemented to surface.
2570' - 8-5/8" OD 32# 1-35 New Cemented to surface.
2230' - 6-5/8" OD 24# 1-35 New
2250' - 5 -3/2" OD 20# 1-50 New Cement returned to
4720' - 5-1/2" OD 20# 1-30 New approximately 13,450'
7260' - 5-1/2" OD 17# 1-40 New from surface

Well will be drilled with rotary tools.

Objective log: Deviation at approximately 13,450'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Ford Oil Company

Address P. O. Box 2107

Fort Worth 1, Texas

By T. E. Godfrey

Title Act. District Engineer

Approval is subject to the following condition:

1. That the 5 $\frac{1}{2}$ " casing be cemented with sufficient cement to protect any porous zones below the base of the 8 5/8" casing, as determined by this office from information obtained in drilling of the well.

32	R 34 E 33	34
Pure State	Signal U. S. A. N. 89° 52' E.	H.A. Peterson U. S. A.
5	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <p>80 Ch.</p> <p>S. 0° 08' E.</p> <p>660</p> </div> <div style="margin: 0 10px;"> </div> <div style="text-align: center;"> <p>1982'</p> <p>S. 89° 52' W.</p> </div> </div>	Signal
8	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>S. 0° 18' W.</p> <p>80.05 Ch.</p> </div> <div style="text-align: center;"> <p>Pure "C"</p> <p>4</p> </div> <div style="writing-mode: vertical-rl;"> <p>80.50 Ch.</p> <p>N. 0° 10' E.</p> </div> </div> <p style="text-align: center;">Total Lease Ac. 802.4 U. S. A.</p>	<div style="display: flex; align-items: center; justify-content: center;"> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">T 20 S</p> <p style="margin-right: 10px;">3</p> </div> <p style="text-align: center;">U. S. A.</p>
8	<p>80.26 Ch.</p> <p>N. 89° 48' W.</p> <p>Pure</p> <p>U. S. A.</p>	<p>Texaco-Seaboard</p> <p>U. S. A.</p>
9	9	10

I, R. R. Reid, Registered Professional Engineer, do hereby certify that the Location^m as shown hereon was made by actual measurement upon the ground.

Registered Professional Engineer
State of Texas

RECEIVED
DEC 18 1958

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

The Pure Oil Co.

FEDERAL "C" LEASE

802.4 Acres

ON PLAT-SEC. 4, T-20-S- R-34-E, OF THE NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

Scale: 4 inches = One Mile

<p>THE PURE OIL CO. TEXAS PRODUCING DIVISION PRODUCTION ENGINEERING DEPT.</p>	DES. SUR. DRN. SWMc. TRD. CHK.	SUBMITTED:	DATE 12-5-58
		APPROVED:	REVISED

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

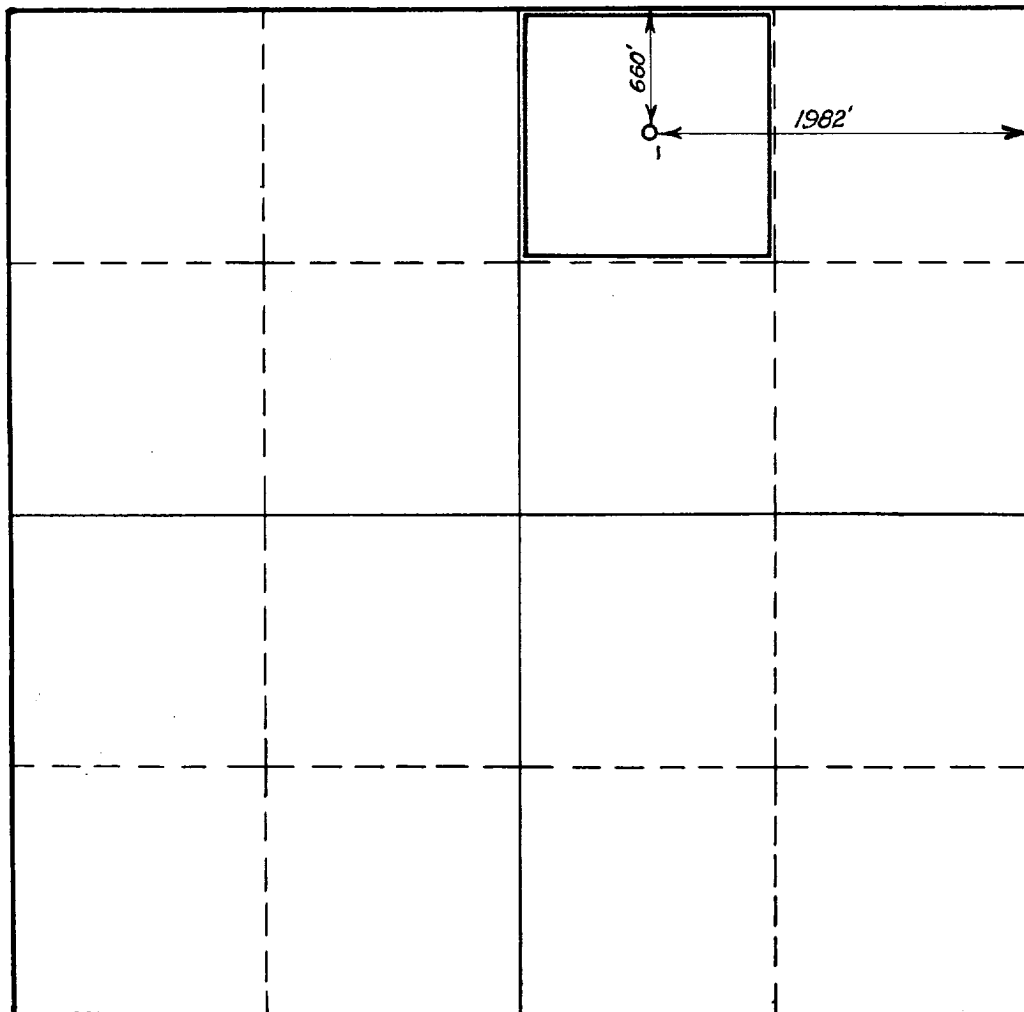
Date December 22, 1958

Operator The Pure Oil Company Lease Federal #00
 Well No. 1 Unit Letter B Section 4 Township 20-S Range 36-E NMPM
 Located 660 Feet From North Line, 1982 Feet From East Line
 County Los G. L. Elevation 3658' Dedicated Acreage 40 Acres
 Name of Producing Formation Devonian Pool wildcat

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
 Yes _____ No X.
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No _____. If answer is "yes," Type of Consolidation Joint Operation
3. If the answer to question two is "no," list all the owners and their respective interests below:

<u>Owner</u>	<u>Land Description</u>

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

THE PURE OIL COMPANY

(Operator)

L. L. Melton

(Representative)

Box 2107, Fort Worth 1, Texas

Address

This is to certify that the well location shown on the plat in Section B 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 knowledge and belief.

Date Surveyed 12-3-58

R. A. Reed
Registered Professional Engineer and/or Land Surveyor.

Texas

Certificate No. 5093

INSTRUCTIONS FOR COMPLETION:

1. Operator shall furnish and certify to the information called for in Section A.
2. Operator shall outline the dedicated acreage for both oil and gas wells on the plat in Section B.
3. A registered professional engineer or land surveyor registered in the State of New Mexico or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
4. All distances shown on the plat must be from the outer boundaries of Section.
5. If additional space is needed for listing owners and their respective interests as required in question 3, Section A, please use space below

* "Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1953 Comp.)

VI.

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



Administrative Order SWD-1568
August 3, 2015

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8B. NMAC, Read & Stevens, Inc. (the "operator") seeks an administrative order for its Pure Federal C SWD Well No. 1 located 660 feet from the North line and 1982 feet from the East line, Unit letter B of Section 4, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico, for disposal of produced water.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objection was received within the required suspense period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

IT IS THEREFORE ORDERED THAT:

The applicant, Read & Stevens, Inc. (OGRID 18917) is hereby authorized to utilize its Pure Federal C SWD Well No. 1 (API No. 30-025-02417) located 660 feet from the North line and 1982 feet from the East line, Unit letter B of Section 4, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico, for disposal of oil field produced water (UIC Class II only) through an open-hole interval within Devonian or Silurian formations from approximately 14590 feet to approximately 14960 feet. Injection shall occur through internally-coated tubing and a packer set a maximum of 100 feet above the top of the open-hole interval.

This permit is limited as advertised to only the Devonian and Silurian aged rocks and to the depths listed above. It does not permit disposal into deeper formations including the Ellenburger formation (lower Ordovician) or lost circulation intervals directly on top and obviously connected to that formation.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface. This includes the well construction proposed in the application and any required modifications of construction as required by the Bureau of Land Management.

Administrative Order SWD-1568
Read & Stevens, Inc.
August 3, 2015
Page 2 of 3

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 2918 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well. The Division Director retains the right to require at any time the operator to install and maintain a chart recorder showing casing and tubing pressures during disposal operations.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District office of the date and time of the installation of disposal equipment and of any MIT so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's District office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's District office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon Division approval. The Division may require the operator to demonstrate mechanical integrity of any disposal well that will be transferred prior to approving transfer of authority to inject.

The Division may revoke this injection permit after notice and hearing if the operator is in violation of Rule 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well

Exhibit A

Administrative Order SWD-1568
Read & Stevens, Inc.
August 3, 2015
Page 3 of 3

abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.



DAVID R. CATANACH
Director

DRC/wvjj

cc: Oil Conservation Division – Hobbs District Office
Bureau of Land Management – Carlsbad Field Office
Administrative Application pWVJ1513562666

VI. **Pure Federal "C" #1 Wellbore Schematic**
API # 30-025-02417
660' FNL & 1982' FEL
Sec. 4, T20S, R34E
Lea Co. NM
 Updated: 07/08/2023

Final P&A Date: 05/15/1963

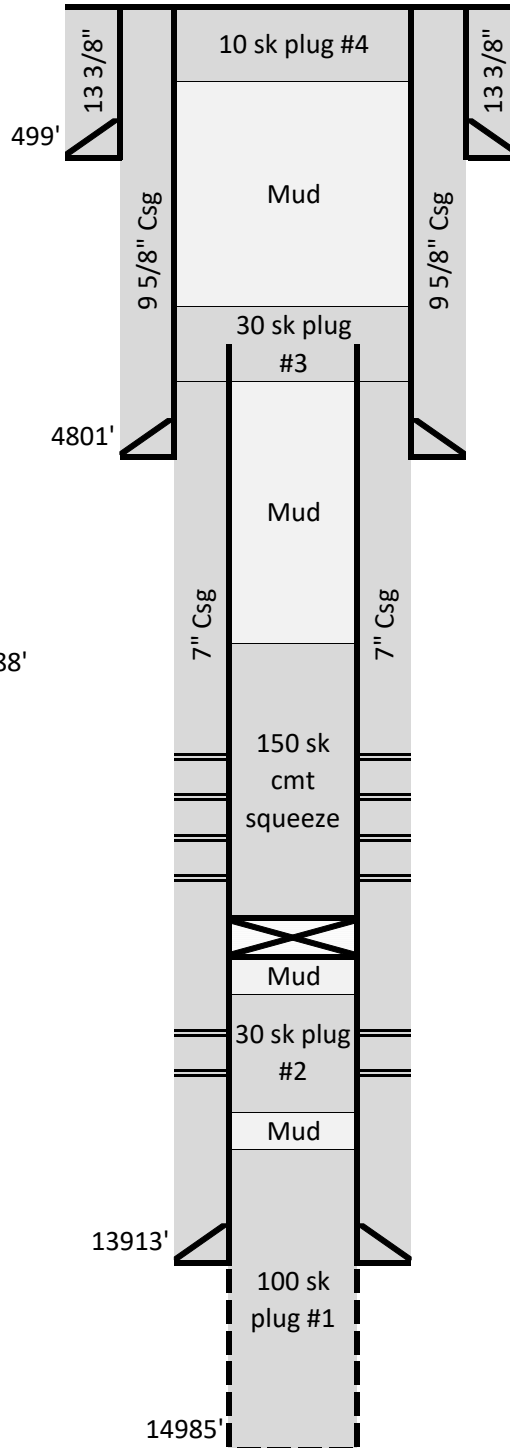
- 13 3/8" Csg Set @ 499' - Cement to Surface
- 9 5/8" Csg Set @ 4801' - Cement to Surface
- 7" Csg Set @ 13913' - TOC @ 12090
- 4 3/4" Open Hole From 13913' - 14985'

- 10 sk cmt plug from surface to 20'
- 12.2# mud from 20' - 3983'
- 30 sk cmnt plug from 3983' - 4083'
- 7" Csg cut off @ 4029'

- 12.2# mud from 4083' - 12490'
- Set pkr @ 12490' & squeeze 150 sk cmt from 12490' - 12988'

- 7" Csg perforated from 12572' - 12572'
- 7" Csg perforated from 12892' - 12920'
- Bridge Plug Set @ 12988'
- 12.2# mud from 12988' - 13645'
- 30 sk cmt plug #2 from 13645' - 13770'
- 7" Csg perforated from 13697' - 13741'
- 12.2# mud from 13770' - 13828'

- 100 sk cmt plug #1 from 13828' - 14985'





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 00654 POD1	CP	LE		4	4	12	20S	34E	640103	3605947*		60			
CP 00655 POD1	CP	LE		3	1	14	20S	34E	637294	3605108*		210			
CP 00656 POD1	CP	LE		4	4	4	04	20S	34E	635342	3607391*		225		
CP 00657 POD1	CP	LE		3	3	17	20S	34E	632465	3604239*		165			
CP 00665	CP	LE		1	4	24	20S	34E	639740	3603128*		698	270	428	
CP 00750 POD1	CP	LE		3	4	07	20S	34E	631639	3605834*		320			
CP 00799 POD1	CP	LE		4	3	4	34	20S	34E	636666	3599364*		100		
CP 00800 POD1	CP	LE		2	2	2	22	20S	34E	637007	3603994*		220		
CP 01204 POD1	CP	LE		3	1	1	25	20S	34E	638755	3602250		370		
CP 01288 POD1	CP	LE		4	4	2	34	20S	34E	637134	3600204		1255	758	497
CP 01289 POD1	CP	LE		4	4	2	34	20S	34E	637037	3600261		1222	651	571
CP 01330 POD1	CP	LE		4	2	1	34	20S	34E	636197	3600483		1349	684	665
CP 01334 POD1	CP	LE		1	2	4	35	20S	34E	638402	3599879		1253	733	520
CP 01335 POD1	CP	LE		4	1	4	35	20S	34E	638205	3599736		1307	735	572
CP 01352 POD1	CP	LE		3	1	4	34	20S	34E	636559	3599716		1270	785	485
CP 01389 POD1	CP	LE		1	1	1	34	20S	34E	635726	3600733		1250	1005	245
CP 01860 POD1	CP	LE		3	3	2	30	20S	34E	631560	3600891		112		
CP 01867 POD1	CP	LE		1	2	4	20	20S	34E	633584	3603189		200		
CP 01867 POD2	CP	LE		1	2	4	20	20S	34E	633513	3603189		200		
CP 01867 POD3	CP	LE		1	2	4	20	20S	34E	633580	3603242		220		
CP 01867 POD4	CP	LE		1	2	4	20	20S	34E	633513	3603245		220		

*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.

Average Depth to Water: **702 feet**

Minimum Depth: **270 feet**

Maximum Depth: **1005 feet**

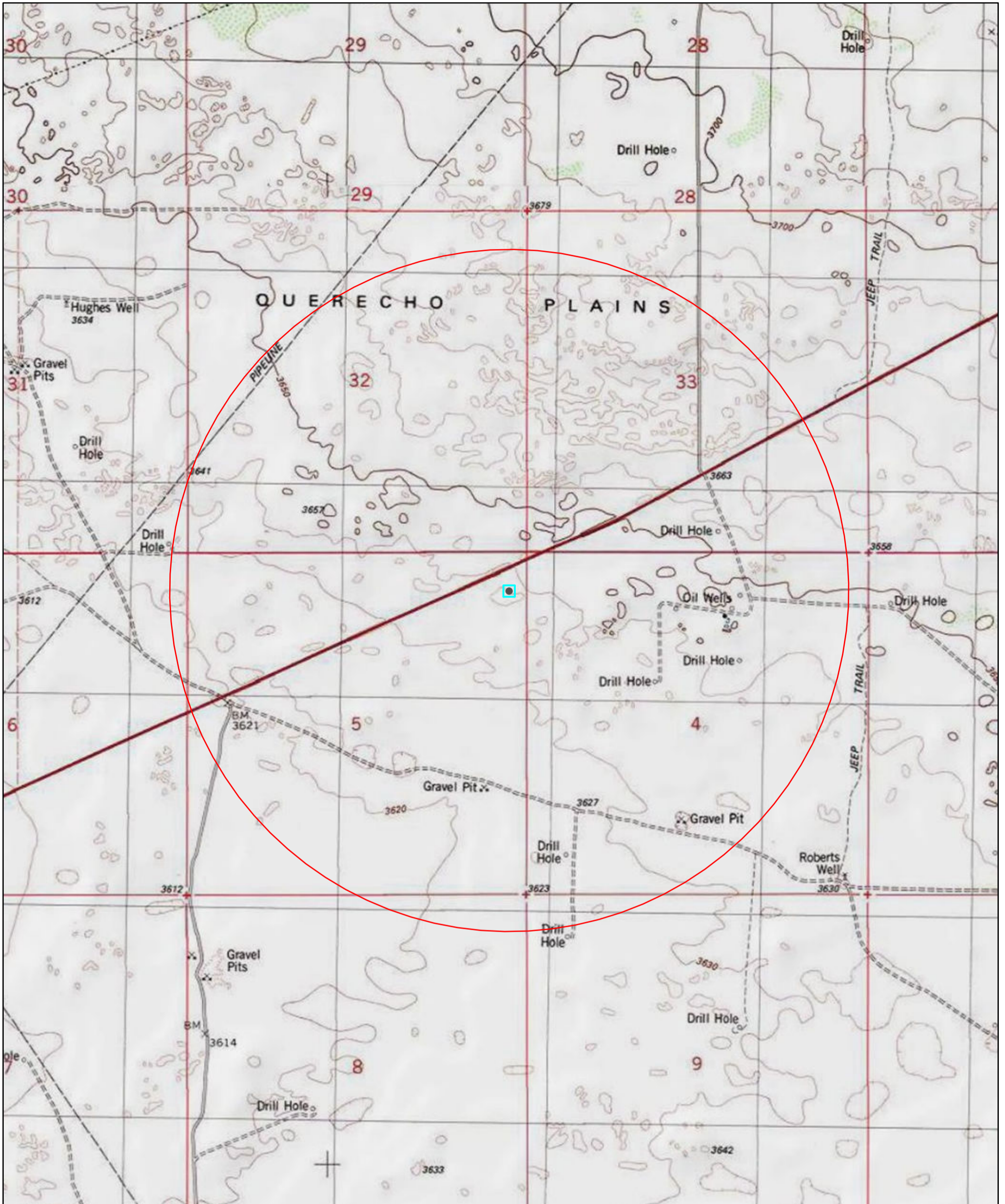
Record Count: 21

PLSS Search:

Township: 20S

Range: 34E

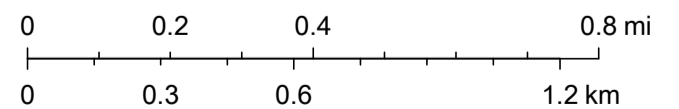
XI. Water Wells Within 1 Mile - Overdue Federal SWD #1



5/23/2023, 6:56:24 PM

 SiteBoundaries

1:20,214



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

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

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 241804

CONDITIONS

Operator: Permian Oilfield Partners, LLC PO Box 3329 Hobbs, NM 88241	OGRID: 328259
	Action Number: 241804
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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