

# **Before the Oil Conservation Division Examiner Hearing October 19, 2023**

Case No. 23808: Belated Federal SWD #1

#### 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. 23808 (BELATED)

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# Tab 1:Application and C-108

#### 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. <u>23808</u>

#### **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 Belated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 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 14,639 feet to 15,841 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 2,927 psi for the well.

(5) On or about July 10, 2023, Permian filed an administrative application with the Division seeking administrative approval of the subject well for produced water disposal.

# Exhibit 1

(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 DivisionExaminer 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.

eena M. Bennet Bv: N

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

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Released to Imaging: 10/13/2023 72 58: 54/AM

**CASE NO.** <u>23808</u>: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 Belated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 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 14,639 feet to 15,841 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.

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Ар	plicant: Permian	n Oilfield Partners, LLC.		OGRID N	umber: <u>328259</u>
	II Name: Belat			API: 30-025-	Pending
	SWD; Devoniar			Pool Cod	e: 97869
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3)	administrativ	DN: I hereby certify that te approval is accurate that no action will be ta	and complete to th	e best of my knowle	dge. I also

notifications are submitted to the Division.

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

Exhibit A

Sean Puryear

Print or Type Name

-Tu

7-10-2023 Date

817-600-8772

Phone Number

spuryear@popmidstream.com e-mail Address

Signature

Released to Imaging: 10/13/2023 72:58:54 AM

Received by OCD: 10/12/2023 11:08:29 PM

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

#### 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

- 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 Purvear

SIGNATURE: Sem Funz

TITLE: Manager DATE: 7-10-2023

#### 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:

Exhibit A

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

#### PHONE: (817) 600-8772

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 <u>14,604</u>'

Underlying Potentially Productive Zones: None

- **IV:** Is this an expansion of an existing project? No.
- V: See attached Area of Review Analysis.
- VI: There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

#### VII:

- 1. The average injected volume anticipated is 40,000 BWPD. The maximum injected volume anticipated is 50,000 BWPD.
- 2. Injection will be through a closed system.
- 3. The average injection pressure anticipated is 2,000 psi. The proposed maximum injection pressure is 2,927 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:

1. 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									
	ТОР	BOTTOM	THICKNESS						
FORMATION	KB TVD (ft)	KB TVD (ft)	(ft)						
Rustler	1,695	2,161	466						
Salado	2,161	3,438	1,277						
Delaware	5,459	8,216	2,757						
<b>Bone Spring</b>	8,216	10,929	2,713						
Wolfcamp	10,929	12,222	1,293						
Lwr. Mississippian	13,867	14,446	579						
Woodford	14,446	14,604	158						
Devonian	14,604	15,505	901						
Fusselman (Silurian)	15,505	15,866	361						
Montoya (U. Ordovician)	15,866	16,266	400						
Simpson (M. Ordovician	16,266	16,766	500						

2. Regional shallow fresh water in the Quaternary is known to exist at depths less than <u>200</u>'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 14,404'. There is no USDW present below the injection interval.

- **IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X: A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- **XI:** According to the New Mexico Office of the State Engineer, there are <u>0</u> 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.

Phone: (575) 393-6161 Fax: (575 <u>District III</u> 811 S. First St., Artesia, NM 8821 Phone: (575) 748-1283 Fax: (575) <u>District III</u> 1000 Rio Brazos Road, Aztec, NM Phone: (505) 334-6178 Fax: (505) <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, Phone: (505) 476-3460 Fax: (505) <sup>1</sup> API N	0 748-9720 87410 334-6170 NM 87505 476-3462		OIL	CONSERVA 1220 South Santa Fe, <u>N AND AC</u>	al Resources De ATION DIVISI St. Francis Dr. NM 87505 <u>REAGE DEDI</u>	ÔN CATIO	ON PLA <sup>3</sup> Pool Na	лТ	Form C Revised August 1, nit one copy to approp District O
4Property Code		•	BE	<sup>5</sup> Property	Name DERAL SWD				<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID NO. <b>328259</b>		Р	ERMIAN	<sup>8</sup> Operator	Name <b>PARTNERS</b> ,	LLC			<sup>9</sup> Elevation <b>3725'</b>
					Location				
UL or lot no. Sec P 2	1	Range 34E	Lot Idn	Feet from the 637	North/South line SOUTH		et From the <b>208</b>	East/West	
<b>F 4</b>	195		 Bottom F		n If Different Fi	1		LAS	
UL or lot no. Sec	ion Township	Range	Lot Idn	Feet from the	North/South line		et from the	East/West	line County
12 Dedicated Acres 13	Joint or Infill 14	Consolidation	n Code 15	Order No.					
M	I         I <td< td=""><td></td><td>27       27    </td><td></td><td>   </td><td>(937' - 1') (537'</td><td>17 O 1 hereby certify to the best of n owns a workin the proposed l location pursu interest, or to order heretor Signature Gary F Printed Name gfisher E-mail Addres <sup>18</sup> SU 1 hereby plat was made by same is to O5/2 Date of Su</td><td>fy that the information of the i</td><td>T/6/2023 Date Stream.com CERTIFICATION e well location shown on the field notes of actual survey my supervision, and that the text to the best of my belief.</td></td<>		27       27   		 	(937' - 1') (537'	17 O 1 hereby certify to the best of n owns a workin the proposed l location pursu interest, or to order heretor Signature Gary F Printed Name gfisher E-mail Addres <sup>18</sup> SU 1 hereby plat was made by same is to O5/2 Date of Su	fy that the information of the i	T/6/2023 Date Stream.com CERTIFICATION e well location shown on the field notes of actual survey my supervision, and that the text to the best of my belief.

III (A)

#### WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

#### Surface - (Conventional)

Hole Size: 26"Casing: 20" - 133# N-80 BTC CasingDepth Top: SurfaceDepth Btm: 1720'

Cement: 3208 sks - Class C + Additives (100% Excess) Cement Top: Surface - (Circulate)

#### Intermediate #1 - (Conventional)

Casing: 13.375" - 68# HCP-110 BTC Casing

Depth Top: Surface Depth Btm: 5409' Cement: 2204 sks - Class C + Additives Cement Top: Surface - (Circulate)

#### Intermediate #2 - (Conventional)

 Hole Size:
 12.25"
 Casing:
 9.625" - 40# HCP110 BTC Casing

 Depth Top:
 Surface

 Depth Btm:
 10979'
 ECP/DV Tool:
 5509'

 Cement:
 1693 sks - Class C + Additives

Cement Top: Surface - (Circulate)

#### Intermediate #3 - (Liner)

Hole Size: 8.75"

Hole Size: 17.5"

Casing: 7.625" - 39# HCL-80 FJ Casing

Depth Top: 10779' Depth Btm: 14639' Cement: 237 sks - Class H + Additives Cement Top: 10779' - (Circulate & Bond Log)

#### Intermediate #4 - (Open Hole)

 Hole Size:
 6.5"
 Depth:
 15841'

 Inj. Interval:
 14639' - 15841' (Open-Hole Completion)

#### Tubing - (Tapered)

 Tubing Depth: 14594'
 Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ

 X/O Depth: 10779'
 Casing (Fiberglass Lined)

 X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth: 14604'
 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. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

#### Surface - (Conventional)

Hole Size:	26"
Casing:	20" - 133# N-80 BTC Casing
Depth Top:	Surface
Depth Btm:	1720'
Cement:	3208 sks - Class C + Additives (100% Excess)
Cement Top:	Surface - (Circulate)

#### Intermediate #1 - (Conventional)

Hole Size:	17.5"
Casing:	13.375" - 68# HCP-110 BTC Casing
Depth Top:	Surface
Depth Btm:	5409'
Cement:	2204 sks - Class C + Additives
Cement Top:	Surface - (Circulate)

#### Intermediate #2 - (Conventional)

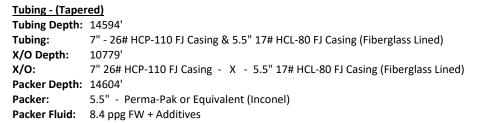
Hole Size:	12.25"
Casing:	9.625" - 40# HCP110 BTC Casing
Depth Top:	Surface
Depth Btm:	10979'
Cement:	1693 sks - Class C + Additives
Cement Top:	Surface - (Circulate)
ECP/DV Tool:	5509'

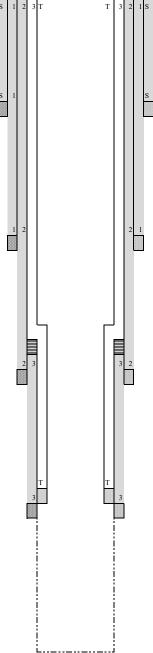
#### Intermediate #3 - (Liner)

Hole Size:	8.75"
Casing:	7.625" - 39# HCL-80 FJ Casing
Depth Top:	10779'
Depth Btm:	14639'
Cement:	237 sks - Class H + Additives
Cement Top:	10779' - (Circulate & Bond Log)

#### Intermediate #4 - (Open Hole)

Hole Size:	6.5"
Depth:	15841'
Inj. Interval:	14639' - 15841' (Open-Hole Completion)





XIII.



Statement of Notifications

Re: C-108 Application for SWD Well Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, R34E Lea County, NM

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

Belate	d Federal SWD #1 - Affected Pe	rsons within 1 Mile A	rea o	f Review	
Notified Name	Notifed Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date
Balog Family Trust	PO Box 111890	Anchorage, AK 99504	USPS	9414811899562232727235	7/10/2023
Black Hills Gas Resources, Inc.	7001 Mt Rushmore Rd	Rapid City, SD 57702	USPS	9414811899562232727860	7/10/2023
BP America Production Company	1700 Platte St, Suite 150	Denver, CO 80202	USPS	9414811899562232727891	7/10/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562232727884	7/10/2023
Burlington Resources Oil & Gas LP	PO Box 2197	Houston, TX 77252	USPS	9414811899562232727839	7/10/2023
BXP Operating, LLC	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562232727754	7/10/2023
BXP Partners V LP	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562232727709	7/10/2023
Cargoil & Gas Co LLC	2981 Plaza Azul	Santa Fe, NM 87505	USPS	9414811899562232727778	7/10/2023
Chevron USA	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562232727907	7/10/2023
Cimarex Energy Co. of Colorado	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232727945	7/10/2023
Cimarex Energy Company	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232727693	7/10/2023
Clarence Hyde Estate	6300 Ridgelea Pl., Suite 1018	Fort Worth, TX 76116	USPS	9414811899562232727129	7/10/2023
Contango Resources, LLC	111 E. 5TH Street, Suite 300	Fort Worth, TX 76102	USPS	9414811899562232727358	7/10/2023
Devon Energy Production Company, L	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899562232727303	7/10/2023
EOG Resources Inc.	PO Box 2267	Midland, TX 79702	USPS	9414811899562232727020	7/10/2023
Frances W Hyde Inc.	6300 Ridgelea Pl., Suite 1018	Fort Worth, TX 76116	USPS	9414811895662232727075	7/10/2023
Jack V Walker Revocable Trust	PO Box 102256	Anchorage, AK 99510	USPS	9414811899562232727426	7/10/2023
Lenox Mineral Title Holdings Inc.	420 Throckmorton St., Suite 1150	Fort Worth, TX 76102	USPS	9414811899562232727440	7/10/2023
Linn Operating, LLC	600 Travis Street, STE 1200	Houston, TX 77002	USPS	9414811899562232727471	7/10/2023
Matador Production Company	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562232727525	7/10/2023
Matador Resources Co.	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562232726214	7/10/2023
Merit Energy Company, LLC	13727 Noel Road, Suite 500	Dallas, TX 75240	USPS	9414811899562232726238	7/10/2023
Merit Energy Partners D-III	13727 Noel Road, Suite 1200	Dallas, TX 75240	USPS	9414811899562232726856	7/10/2023
Nadel and Gussman HEYCO, LLC	P.O. Box 1936	Roswell, NM 88202	USPS	9414811899562232726832	7/10/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562232726702	7/10/2023
Penroc Oil Corp.	PO Box 2769	Hobbs, NM 88241	USPS	9414811899562232726740	7/10/2023
Shogoil & Gas Co II LLC	PO Box 29450	Santa Fe, NM 87592	USPS	9414811899562232726955	7/10/2023
XTO Energy Inc.	22777 Springwoods Village Pkwy, Suite 126	Spring, TX 77389	USPS	9414811899562232754804	7/10/2023

Exhibit A

Sem Pung

Sean Puryear Permian Oilfield Partners, LLC <u>spuryear@popmidstream.com</u> Date: 7/10/2023



ARTICLE NUMBER: 9414 8118 9956 2232 7278 91

ARTICLE ADDRESSED TO:

BP America Production Company 1700 PLATTE ST STE 150 DENVER CO 80202-2837

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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



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

\$4.270

4.350

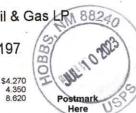
8.620

ARTICLE NUMBER: 9414 8118 9956 2232 7278 39

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

ARTICLE NUMBER: 9414 8118 9956 2232 7277 54

#### ARTICLE ADDRESSED TO:

BXP Operating, LLC 11757 KATY FWY STE 475 HOUSTON TX 77079-1761

FEES Postage Per Piece Certified Fee Total Postage & Fees:



#### U.S. Postal Service Certified Mail Receipt U.S. Postal Service Certified Mail Receipt ARTICLE NUMBER: 9414 8118 9956 2232 7277 78 ARTICLE NUMBER: 9414 8118 9956 2232 7277 09 ARTICLE ADDRESSED TO: ARTICLE ADDRESSED TO: Cargoil & Gas Co., LLC **BXP** Partners V LP 2981 PLAZA AZUL 11757 KATY FWY STE 475 8824 SANTA FE NM 87507-5337 HOUSTON TX 77079-1761 NM 882 FEES FEES C Postage Per Piece Certified Fee Postage Per Piece \$4.270 \$4.270 2 0 Certified Fee 4.350 m Total Postage & Fees: С Total Postage & Fees: 8.620 Fostmark 8 620 0 Postma Here

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

ARTICLE NUMBER: 9414 8118 9956 2232 7279 07

#### ARTICLE ADDRESSED TO:

Chevron USA 6301 DEAUVILLE MIDLAND TX 79706-2964

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

\$4.270

4.350

8.620

ARTICLE NUMBER: 9414 8118 9956 2232 7279 45

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

\$4.270

4 350

8.620

#### ARTICLE NUMBER: 9414 8118 9956 2232 7276 93

ARTICLE ADDRESSED TO:

Cimarex Energy Company 6001 DEAUVILLE STE 300N MIDLAND TX 79706-2671

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

#### ARTICLE NUMBER: 9414 8118 9956 2232 7271 29

ARTICLE ADDRESSED TO:

Clarence Hyde Estate 6300 RIDGELEA PL., STE 1018 FORT WORTH TX 76116-0000

FEES Postage Per Piece Certified Fee Total Postage & Fees:

Exhibit A

\$4.270 4.350 8.620



\$4.270

4.350

8 620

ARTICLE NUMBER: 9414 8118 9956 2232 7273 58

ARTICLE ADDRESSED TO:

Contango Resources, LLC 111 E 5TH ST STE 300 FORT WORTH TX 76102-5472

FEES Postage Per Piece Certified Fee Total Postage & Fees:



U.S. Postal Service Certified Mail Receipt

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7273 03

ARTICLE NUMBER: 9414 8118 9956 2232 7270 75

ARTICLE ADDRESSED TO:

FEES

Postage Per Piece Certified Fee

Total Postage & Fees:

Frances W Hyde Inc.

6300 RIDGELEA PL, STE 1018

FORT WORTH TX 76116-0000

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



NM 885

JUL 10 2023

Postmark

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

ARTICLE NUMBER: 9414 8118 9956 2232 7270 20

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

ARTICLE NUMBER: 9414 8118 9956 2232 7274 26

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:

\$4.270 4.350 8.620



Postmark

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# U.S. Postal Service Certified Mail Receipt

\$4.270

4.350

8 620

ARTICLE NUMBER: 9414 8118 9956 2232 7274 40

ARTICLE ADDRESSED TO:

Lenox Mineral Title Holdings Inc. 420 THROCKMORTON ST STE 1150 M 86 FORT WORTH TX 76102-3761

8 620

FEES Postage Per Piece Certified Fee Total Postage & Fees:

JUL 1 0 2023 \$4,270 4.350 Postmark Here USP

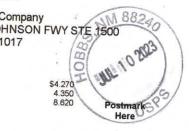


ARTICLE NUMBER: 9414 8118 9956 2232 7275 25

#### ARTICLE ADDRESSED TO:

Matador Production Company 882 5400 LYNDON B JOHNSON FWY STE 1500 DALLAS TX 75240-1017

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

ARTICLE NUMBER: 9414 8118 9956 2232 7262 14

#### ARTICLE ADDRESSED TO:

Matador Resources Co. 88: 5400 LYNDON B JOHNSON FWY STE 1500 DALLAS TX 75240-1017 FEES Postage Per Piece Certified Fee \$4.270 4.350 Total Postage & Fees: 8.620 Postmark Here

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

ARTICLE NUMBER: 9414 8118 9956 2232 7262 38

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

ARTICLE NUMBER: 9414 8118 9956 2232 7268 56

#### ARTICLE ADDRESSED TO:

Merit Energy Partners D-III 13727 NOEL RD STE 1200 DALLAS TX 75240-7362

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

\$4,270

4.350 8.620

ARTICLE NUMBER: 9414 8118 9956 2232 7268 32

ARTICLE ADDRESSED TO:

Nadel & Gussman HEYCO, LLC JM 883 PO BOX 1936 ROSWELL NM 88202-1936

#### FEES

Postage Per Piece Certified Fee Total Postage & Fees:



ARTICLE NUMBER: 9414 8118 9956 2232 7267 02

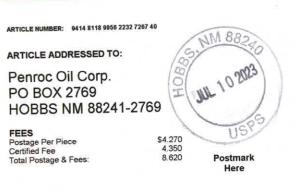
#### ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees: \$4.270 4 350 8.620



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



# U.S. Postal Service Certified Mail Receipt

4.350

8.620

ARTICLE NUMBER: 9414 8118 9956 2232 7269 55

ARTICLE ADDRESSED TO:

Shogoil & Gas Co II LLC PO BOX 29450 SANTA FE NM 87592-9450

FEES Postage Per Piece Certified Fee Total Postage & Fees:



ME

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

8824 ML

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Postmark

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\$4.270

4.350

8,620

ARTICLE NUMBER: 9414 8118 9956 2232 7548 04

ARTICLE ADDRESSED TO:

XTO Energy Inc. 22777 SPRINGWOODS VILLAGE PRWY SPRING TX 77389-1425 HOBI

FEES Postage Per Piece Certified Fee Total Postage & Fees:

Received by OCD: 10/12/2023 11:08:29 PM 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 26, 2023 and ending with the issue dated May 26, 2023.

lasso /

Publisher

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

aste

**Business Manager** 

My commission expires January 29, 2027 (Seal) STATE OF NEW MEXICO NOTARY PUBLIC GUSSIE RUTH BLACK COMMISSION # 1087526 COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said 67115647

Exhibit A

00278993

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

#### Pagg 23 0f 146

Released to Imaging: 10/13/2023 7:58:54 AM

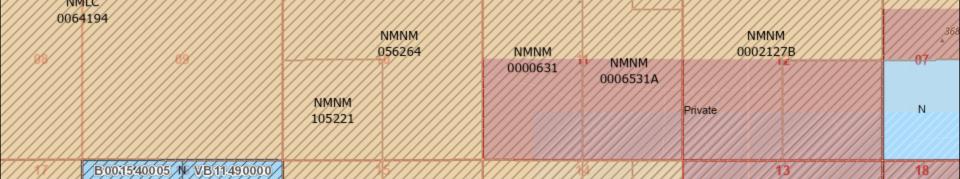
#### LEGAL NOTICE May 26, 2023

Permian Oilfield Partners, LLC, PO Box 3329, Hobbs, NM 88241, phone (817)606-7630, attn. Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial salt water disposal well in Lea County, New Mexico. The proposed well is the Belated Federal SWD #1, and is located 637' FSL & 208 FEL, Unit P, Section 27, Township 19 South, Range 34 East, NMPM, approximately 16 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 14,639 feet to 15,841 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,927 psi.

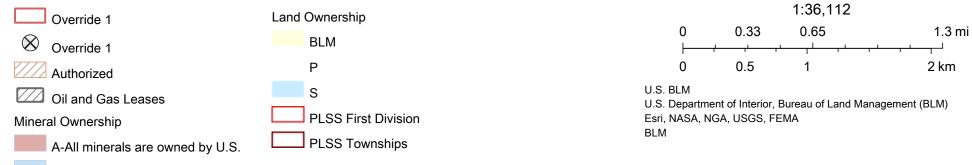
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days. #00278993 Received by OCD: 10/12/2023 11:08:29 PM

# Belated Federal SWD #1. 1 & 2 Mi AOR, Leases

V (a)	Belated Federal SWD #1, 1 & 2 Mi AOR, Leases											
158			E078240000	0 G2001000	a	B015650012	V0802400010	G24160003				
	L02949	_029490005		OG18470001 OG	1847.00.02	State. V067,5	70000	LG241700				
NMNM 012006	E07824	0003	15 <sup>3808 ft</sup> Chevron	Chevron		0G47690002	VB18570001					
	NMNM 0002391A NMNM 0002391 BXP/EOG	376351	Chevron	Chevron	хто	NMNM 026395 ×	то	Driteta				
Glaid Riage Cir And Gas Field	Burlington/BXP/EOG		Chevron Balog Et Al	EOG Balog Et Al	NMNM 142576 Chisholm		INM 550C	Privĝte 19S 35E				
Irlington		Chevron NMNM 056263	EOG Balog Et Al BLM NMNM 0004452 Balog Et Al Balog Et Al BLM Surface Owner	Burlington/Devon 0	NMNM 005519 lington Et Al		180) INM 0086	E0158700				
Re (076590001 51de 11 (076600000	Read and Stevens NMNM 097156 Balog Et Al Magnum Hunter Magnum Hunter NMNM 060789 Bo Read and Stevens NMNM 094622 Delmar Et Al Delmar Et Al		3 1 1 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1	BXP/Hyde/Mer NMNM 1000052	131243	Advan VB075 Unleased Magnum Hi	E0163800					
			Chisholm NMNM 084902 Read and Stevens		хто LG28330.002		Advance BLM					
			Read and Stevens NMNM 054432	LG2750098	2	NMNM 228366 Advance Private						
///////////////////////////////////////	ALC 4194		111111111111111111111111111111111111111	864.5	NMNM 0006531							



### 5/26/2023, 2:04:25 PM



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

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Exhibit A

New Mexico Oil Conservation Division

Received by OCD: 10/12/2023 11:08:29 PM

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

V (b)	Belated F	ederal SWD #			25 22004
Qty. 3 Act No Deyor	tive Queen injection wells wit ian injection wells within 2 m	hin 1 mile AOR (indicated by ile AOR E078230025-0238230-0 30-025-42521 5-42352 30-025-41986	30-025-26783 30-025-2586 30-0 25-27096 30-025-2553 30-025-2553 30-025-2553 30-025-2553 30-025-2553 30-025-2586 30-025-2586 30-025-2586 30-025-2586 30-025-2586 30-0 30-025-2586 30-0	25-26221 B0155550012	c30*025-230 30-025-230
	30 025 41755 <b>30 025 4297930 02</b> 30 025 37081 30 025 41754 3	\$30-025-41986	30-025-41141 25-21286 30-025-2550630	25-40841 25-26836 30-029 30-029 30-029	-38898
	30-025-37081-002541154 L029490005 30-025-26192		OG18470001 0G1830-025-2	22069	30-025-290 30-025-295
0-025-2447 0-025-02388	30-025-26763 0-025-26763 	15 30-025-26087	30-025-2302	30-025-22519	LG241700
MNM 12006	E078240003 30-025-02387 0-025-21195 30-025-32747	30-025-20812 <sup>8 /t</sup> Chevron 30-0 30-025-02386	Chevron 25-02385	OG47690002 VB18570004 30-025-22717 30-025-4221330-025-4198930-0 30-025-4221330-025-4198930-0	25-41987
30-07	25-02391 NMNM				25-42544 25-02393
	0301025-21856 NMNM 0002391 BXP/EOG	30-025-29405 Chevron	Chevron 30-025-2940630-025-2755 30-0	NMNM 6 026395 025-29299 xto	25-24413
<b>30-025</b>	<b>36099</b> 25-31356 30-025-34439 30-025-338111	30-025-2954 Balog Et Al	EOG 230-025-290 NMNM 142576 Chisholm	172 хто 30.025-30839 ММММ	Private 30-025-301
	Burlington/BXP/EOG		Balog Et Al 30-025-4377730-025-43 MNM 30-025-2915030-025-43	0.025 41269 0381550C 741 30-025 43811 742 30-025 42709 30 025 42710	30-025-031 10 S 35E 30-025-504
////2016	025-39/310 125-7138630-025-39438 <b>30-025-0239</b> 72 30-025-36195	Balog Et Al BLM	7285 30-025-31090 Balog Et At 5-504-7 30-025-50	VI PI I I I I I I I I I I I I I I I I I	025-42577 25-24069
0-025-34385	30-025-02398-30-025-3089	0-025-31047	025-42804	2126330-025-21098 30-025-22080 NMNM	525210700
30-025-36 gton	30-025-3619630-025-37974 30 188 Chevron 30-025-30 Chevron 30-025-02397 30-025-3755	025-30663 NMNM 09 30-025-30918 30-025-32652	Surlington Et Al 2449 Burlington/Devon 30-025-22081M Burlington/Devon Burlington/Devon Burlington Et Al 5	30-025-2136900085 30-025-08457 3662 хто	25-22967 30-025-239
30	NM30*025-343Ballog Et 025-41963 097155 25-41965 30-025-41964 30-025-40328	Balog Et Al 25-41834 30-025-844 808 30-025-42 30-025 42500 30-025 425000 30-025 425000000000000000000000000000000000	) 30 025 2200530 025 27204 30 0 25 42212 30 025 21857 30 025 42 21 0 025 40135 30 025 21857 30 025 42	30-025-08457 30-025-23708 125-21798 125-21798 14130-025-41358 14130-025-41425 30-025-4146 30-025-4146 30-025-02403 30-025-02403 30-025-02405 30-025-32935 33661 51546 30-025-32935 30-025-311	30-025-032 0-025-41574
301 • Re 76590001	025-37615         30-025-36403         30-02           ad and Stevens         30-025-33728         9           NMNM         30-025-3647, 30-025-3415         9           00-025-3667, 30-025-3415         Balog Et Al         9	5-40253 30-025-32617 30-025-39895 30-025-327 30-025-39895 30-025-327	30-025-21683 8630-025-40086 30-025-39894 30-025-3417630-025 2069	30-025-21756 30-025-02403 30-025-02403 VB07970001	-41028 30/025-200
-023-3200	/ X / / / / / / / / / / / / / / / / / /	///////////////////////////////////////	111152/////3020252206954///30	1.025-20302	E0169800 69
30 76600003	30-02%agnun runter 0-025-40040 N130V025-34113 0-025-40041 060789 120 Read and Stevens Read and Stevens	30-025-32815 81 30-025-32847 30-025-39763 30-025-32783	30-025-40084 30-025-2146430-025-214 30-025-39382 30-025-39382	зуру <mark>нана 025-02406</mark> 30-025-308 358 30-025-21281003 355 - 30-02%ардоруците30-025-31011	52 30-025-30 30-025-25
025-43507 30-01	30-025-54119 094630-025-3358 30-025-02402 25-4227030-025-3301730-025-33247	Balog         50L025-32816           30-025-4268430-025-42228         30           -30-025-02409         -30-025-422	30-025-32986 30-025-42080 27 30-025-38622 30-025-2352	30-025-20096 30-025-20096 30-025-20096 30-025-20096 30-025-20096 30-025-20096	30-025-420 42292 30-025-40
	30-025-02415 00656C30-025-33400 30-025-02414 30-025-33511	5-32971 30-025-03885 *30-025-33885 NMNNM 25-32819 084902 Read and \$00025-33663 30-025 *30-025-33884 *30-025-32930 *30-025-02411	34985 34985 30-025-3291430-025-38042 3411630-025-32466 30-025-31845	1000000000000000000000000000000000000	30-025-03 30-025-03
	30-025-338 <sup>59mar Et</sup> 30-025-300 5-34319	30-025-02411 Read and Stevens 30-025-32165 30-025-3215 -025-3304330-025-32166 30-02	30-025-37863 30-025-37863 30-025-31696 5-3192830-025-32105	30-025-02408366       NMNM         Advance       NMNM         119279       Private         4288530-025-4441030-025-44411       9         30-025-43145       30-025-44411         30-025-43145       30-025-43146         30-025-37525       30-025-02433	
	30-025-33872 30-025-43678 30-025-43678 30-025-43678 30-025-43678 30-025-43678 30-025-43678 30-025-33872 30-025-33872 30-025-33872	051930-025-30183 5-(3512 5-(3513) <sup>30-025-31189</sup> 30-025-436793	0-025-4183330-025-44023-00-025-44	4288530-025-4441030-025-44411 30 30-025-43145 30-025-43146 30-0 26	025-44252 025-42958
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#### 5/26/2023, 2:08:56 PM

- Override 1
   Override 1
   Wells Large Scale
   Miscellaneous
   Gas, Active
   Gas, Cancelled
- 🌣 🛛 Gas, New
- 🌞 Gas, Plugged
- Injection, Active
  - Injection, Plugged
    - Oil, Active
    - Oil, Cancelled
  - Oil, New
  - d Oil, Plugged
    - Oil, Temporarily Abandoned
  - Salt Water Injection, Active
- 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

#### 

#### U.S. BLM

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

New Mexico Oil Conservation Division

#### Released to Imaging: 10/13/2023 72:58:54 AM

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### V (c)

	Belated Federal SWD #1 - Wells Within 1 Mile Area of Review														
API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCD Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TVD
30-025-34176	BXP Operating, LLC	MESCALERO RIDGE UNIT	#026	Oil	Vertical	Active	35	T195	R34E	G	G-35-19S-34E 1350 FNL 2570 FEL	G-35-19S-34E 1350 FNL 2570 FEL	QUEEN	5236	5236
30-025-34164	BXP Operating, LLC	MESCALERO RIDGE UNIT	#025	Oil	Vertical	Active	35	T195	R34E	J	J-35-19S-34E 2620 FSL 2620 FEL	J-35-19S-34E 2620 FSL 2620 FEL	QUEEN	5204	5204
30-025-20694	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#357	Oil	Vertical	Plugged, Site Released	35	T195	R34E	В	B-35-19S-34E 660 FNL 1980 FEL	B-35-19S-34E 660 FNL 1980 FEL	QUEEN	5250	5250
30-025-21857	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#263	Injection	Vertical	Plugged, Site Released	26	T195	R34E	0	O-26-19S-34E 330 FSL 1980 FEL	O-26-195-34E 330 FSL 1980 FEL	QUEEN	5150	5150
30-025-20692	BXP Operating, LLC	MESCALERO RIDGE UNIT	#354	Injection	Vertical	Active	35	T195	R34E	G	G-35-19S-34E 1980 FNL 1980 FEL	G-35-19S-34E 1980 FNL 1980 FEL	QUEEN	5260	5260
30-025-22196	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#006	Oil	Vertical	Plugged, Site Released	26	T195	R34E	1	J-26-19S-34E 1650 FSL 1980 FEL	J-26-19S-34E 1650 FSL 1980 FEL	QUEEN	5160	5160
30-025-20565	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#352	Oil	Vertical	Plugged, Site Released	35	T195	R34E	1	J-35-19S-34E 1980 FSL 1980 FEL	J-35-19S-34E 1980 FSL 1980 FEL	QUEEN	5268	5268 13980
30-025-23319 30-025-33662	PRE-ONGARD WELL OPERATOR DEVON ENERGY PRODUCTION COMPANY, LP	PRE-ONGARD WELL MESCALERO RIDGE UNIT	#002 #040	Oil	Vertical Vertical	Plugged, Site Released Cancelled Apd	35 26	T195 T195	R34E R34E	1	J-35-19S-34E 2310 FSL 1800 FEL O-26-19S-34E 1000 FSL 1400 FEL	J-35-19S-34E 0 FSL 1800 FEL O-26-19S-34E 1000 FSL 1400 FEL	BONE SPRING QUEEN	13980 6000	6000
30-025-21859	BP AMERICA PRODUCTION COMPANY	MESCALERO RIDGE UNIT	#040	Salt Water Disposal	Vertical	Plugged, Site Released	35	T195	R34E	6	G-35-19S-34E 1980 FNL 1650 FEL	G-35-195-34E 1000 FSL 1400 FEL G-35-19S-34E 1980 FNL 1650 FEL	SEVEN RIVERS	4040	4040
30-025-33660	BXP Operating, LLC	MESCALERO RIDGE UNIT	#023	Oil	Vertical	Active	35	T195	R34E	A	A-35-195-34E 1300 FNL 1300 FEL	A-35-195-34E 1300 FNL 1300 FEL	QUEEN	5215	5215
30-025-33661	BXP Operating, LLC	MESCALERO RIDGE UNIT	#024	Oil	Vertical	Active	35	T195	R34E	Ĥ	H-35-195-34E 2620 FNL 1300 FEL	H-35-195-34E 1500 FRL 1300 FEL	QUEEN	5200	5200
30-025-21798	BXP Operating, LLC	MESCALERO RIDGE UNIT	#262	Oil	Vertical	Active	26	T195	R34E	P	P-26-19S-34E 330 FSL 660 FEL	P-26-19S-34E 330 FSL 660 FEL	QUEEN	5150	5150
30-025-21683	BXP Operating, LLC	MESCALERO RIDGE UNIT	#015	Injection	Vertical	Active	35	T195	R34E	A	A-35-19S-34E 660 FNL 660 FEL	A-35-19S-34E 660 FNL 660 FEL	QUEEN	5135	5135
30-025-39895	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#020D	Oil	Horizontal	Cancelled Apd	34	T195	R34E	D	D-34-19S-34E 730 FNL 330 FWL	A-34-19S-34E 330 FNL 330 FEL	BONE SPRING	15397	10840
30-025-42604	CIMAREX ENERGY CO.	MALLON 27 FEDERAL COM	#004H	Oil	Horizontal	New	27	T195	R34E	м	M-27-19S-34E 305 FSL 450 FWL	E-27-19S-34E 1650 FNL 450 FWL	BONE SPRING	13970	10860
30-025-30725	Contango Resources, LLC	STIVASON FEDERAL	#005	Oil	Vertical	Approved Temporary Abandonment	27	T195	R34E	M	M-27-19S-34E 660 FSL 550 FWL	M-27-19S-34E 660 FSL 550 FWL	QUEEN	5115	5115
30-025-30918	MERIT ENERGY COMPANY, LLC	WEST PEARL FEDERAL	#001	Oil	Vertical	Plugged, Site Released	27	T195	R34E	L	L-27-19S-34E 1980 FSL 660 FWL	L-27-19S-34E 1980 FSL 660 FWL	SEVEN RIVERS	5300	5300
30-025-34678	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#014	Oil	Vertical	Cancelled Apd	27	T195	R34E	м	M-27-19S-34E 660 FSL 660 FWL	M-27-19S-34E 660 FSL 660 FWL	BONE SPRING	10300	
30-025-32654	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL	#003	Oil	Vertical	Cancelled Apd	27	T195	R34E	E	E-27-19S-34E 1980 FNL 660 FWL	E-27-19S-34E 1980 FNL 660 FWL	DELAWARE	8300	8300
30-025-34300	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#003	Oil	Vertical	Cancelled Apd	27	T195	R34E	E	E-27-19S-34E 1980 FNL 660 FWL	E-27-19S-34E 1980 FNL 660 FWL	DELAWARE	8300	8300
30-025-32605	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001	Salt Water Disposal	Vertical	Plugged, Site Released	34	T195	R34E	D	D-34-19S-34E 660 FNL 990 FWL	D-34-19S-34E 660 FNL 990 FWL	DELAWARE	6306	6306
30-025-32616	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#005	Oil	Vertical	Cancelled Apd	34 27	T195 T195	R34E R34E	E	E-34-195-34E 1980 FNL 660 FWL N-27-195-34E 990 FSL 1980 FWI	E-34-19S-34E 1980 FNL 660 FWL N-27-19S-34E 990 FSL 1980 FWL	BONE SPRING DELAWARE	10300 6200	10300 6200
30-025-34349 30-025-32652	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL MALLON 27 FEDERAL	#001 #001	Oil	Vertical	Cancelled Apd Cancelled Apd	27	T195	R34E	N	N-27-195-34E 990 FSL 1980 FWL N-27-195-34E 990 FSL 1980 FWL	N-27-19S-34E 990 FSL 1980 FWL N-27-19S-34E 990 FSL 1980 FWL	DELAWARE	6200	6200
30-025-32815	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	34	T193	R34E	N K	K-34-19S-34E 1980 FSL 1980 FWL	K-34-19S-34E 1980 FSL 1980 FWL	DELAWARE	6270	6270
30-025-32617	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#015	Oil	Vertical	Plugged, Site Released	34	T195	R34E	C C	C-34-195-34E 1980 FSL 1980 FWL	C-34-195-34E 660 FNL 1980 FWL	DELAWARE	8312	8312
30-025-41808	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#003H	Oil	Horizontal	Active	27	T195	R34E	N	N-27-19S-34E 260 FSL 2080 FWL	C-22-19S-34E 2316 FSL 1923 FWL	BONE SPRING	18260	10798
30-025-32615	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#004	Oil	Vertical	Cancelled Apd	34	T195	R34E	F	F-34-19S-34E 1980 FNL 1980 FWL	F-34-19S-34E 1980 FNL 1980 FWL	DELAWARE	6200	6200
30-025-33737	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#004	Oil	Vertical	Plugged, Site Released	27	T195	R34E	0	0-27-19S-34E 660 FSL 1980 FEL	O-27-19S-34E 660 FSL 1980 FEL	QUEEN	7100	7100
30-025-42315	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#002H	Oil	Horizontal	Active	27	T195	R34E	0	O-27-19S-34E 330 FSL 1980 FEL	J-22-195-34E 2310 FSL 1900 FEL	BONE SPRING	18297	10752
30-025-32784	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#009	Oil	Vertical	Plugged, Site Released	34	T195	R34E	G	G-34-19S-34E 1980 FNL 1980 FEL	G-34-19S-34E 1980 FNL 1980 FEL	DELAWARE	10395	10395
30-025-32783	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#008	Oil	Vertical	Active	34	T195	R34E	J	J-34-19S-34E 1980 FSL 1980 FEL	J-34-19S-34E 1980 FSL 1980 FEL	DELAWARE	6300	6300
30-025-32786	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#011	Oil	Vertical	Active	34	T195	R34E	В	B-34-19S-34E 990 FNL 1650 FEL	B-34-19S-34E 990 FNL 1650 FEL	DELAWARE	7044	7044
30-025-32653	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	27	T195	R34E	Р	P-27-19S-34E 660 FSL 990 FEL	P-27-19S-34E 660 FSL 990 FEL	DELAWARE	7100	7100
30-025-32782	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#007	Oil	Vertical	Plugged, Site Released	34	T195	R34E	н	H-34-19S-34E 1980 FNL 860 FEL	H-34-195-34E 1980 FNL 860 FEL	DELAWARE	6300	6300
30-025-32785	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#010	Oil	Vertical	Plugged, Site Released	34	T195	R34E R34E	P	P-34-19S-34E 660 FSL 660 FEL	P-34-195-34E 660 FSL 660 FEL	DELAWARE BONE SPRING	6340 15025	6340
30-025-39894 30-025-42212	CIMAREX ENERGY CO. OF COLORADO MATADOR PRODUCTION COMPANY	MALLON 34 FEDERAL MALLON 27 FEDERAL COM	#019H #001H	Oil	Horizontal Horizontal	Active	34 27	T195 T195	R34E R34E	Н	H-34-19S-34E 1690 FNL 720 FEL P-27-19S-34E 330 FSL 660 FEL	E-34-19S-34E 1990 FNL 4915 FEL I-22-19S-34E 2310 FSL 660 FEL	BONE SPRING	18255	10875
30-025-32606	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001H	Oil	Vertical	Active	34	T195	R34E R34E	P A	A-34-19S-34E 660 FNL 660 FEL	A-34-19S-34E 660 FNL 660 FEL	DELAWARE	6313	6313
30-025-32607	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#002	Oil	Vertical	Active	34	T195	R34E	1	I-34-195-34E 1980 FSL 660 FEL	I-34-195-34E 1980 FSL 660 FEL	DELAWARE	6300	6300
30-025-42804	NADEL AND GUSSMAN HEYCO, LLC	HARLEQUIN 27 22 FEDERAL	#001C	Oil	Horizontal	Cancelled Apd	27	T195	R34E	н	H-27-19S-34E 2591 FNL 510 FEL	I-22-195-34E 2311 FSL 510 FEL	BONE SPRING	15190	10800
30-025-40135	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#020H	Oil	Horizontal	Active	34	T195	R34E	A	A-34-19S-34E 380 FNL 330 FEL	D-34-19S-34E 760 FNL 4925 FEL	BONE SPRING	15352	10870
30-025-21793	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	34	T195	R34E	н	H-34-19S-34E 1980 FNL 660 FEL	H-34-19S-34E 1980 FNL 660 FEL	QUEEN	5150	5150
30-025-40086	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#007H	Oil	Horizontal	Active	35	T195	R34E	D	D-35-19S-34E 585 FNL 330 FWL	A-35-19S-34E 574 FNL 4940 FWL	BONE SPRING	15359	10913
30-025-33046	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT	#019	Oil	Vertical	Cancelled Apd	35	T195	R34E	D	D-35-19S-34E 550 FNL 330 FWL	D-35-19S-34E 550 FNL 330 FWL	DELAWARE	6300	6300
30-025-40084	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005H	Oil	Horizontal	Cancelled Apd	35	T195	R34E	L	L-35-19S-34E 1980 FSL 330 FWL	I-35-19S-34E 1980 FSL 510 FEL	BONE SPRING	15349	10990
30-025-32983	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	35	T195	R34E	D	D-35-19S-34E 660 FNL 660 FWL	D-35-19S-34E 660 FNL 660 FWL	DELAWARE	8330	8330
30-025-32984	BLACK HILLS GAS RESOURCES, INC.	MALLON 35 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	35	T195	R34E	E	E-35-19S-34E 1650 FNL 660 FWL	E-35-19S-34E 1650 FNL 660 FWL	DELAWARE	8300	8300
30-025-27899	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	26	T195	R34E R34E	E	E-26-19S-34E 1980 FNL 660 FWL	E-26-19S-34E 0 FNL 660 FWL	QUEEN	5200 8330	5200 8330
30-025-32985 30-025-40085	CIMAREX ENERGY CO. OF COLORADO CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL MALLON 35 FEDERAL	#003 #006H	Oil	Vertical Horizontal	Plugged, Site Released Cancelled Apd	35 35	T195 T195	R34E R34E	F	L-35-19S-34E 2310 FSL 660 FWL E-35-19S-34E 2310 FNL 330 FWL	L-35-19S-34E 2310 FSL 660 FWL H-35-19S-34E 1980 FNL 510 FEL	DELAWARE BONE SPRING	8330	
30-025-21267	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#006H #013	Oil	Vertical	Plugged, Site Released	35	T195	R34E		L-35-195-34E 1980 FSL 990 FWL	L-35-195-34E 1980 FNL 510 FEL	QUEEN	5200	5200
30-025-21207	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#013	Oil	Vertical	Plugged, Site Released	35	T195	R34E	D	D-35-195-34E 660 FNL 990 FWL	D-35-193-34E 660 FNL 990 FWL	QUEEN	5050	5050
30-025-21015	MERT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#014	Injection	Vertical	Plugged, Site Released	35	T195	R34E	E	E-35-195-34E 1980 FNL 990 FWL	E-35-195-34E 1980 FNL 990 FWL	QUEEN	5200	5200
30-025-22333	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT	#007	Injection	Vertical	Plugged, Site Released	26	T195	R34E	M	M-26-19S-34E 990 FSL 990 FWL	M-26-19S-34E 990 FSL 990 FWL	QUEEN	5031	5031
30-025-22449	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	Vertical	Plugged, Site Released	26	T195	R34E	L	L-26-19S-34E 1980 FSL 990 FWL	L-26-19S-34E 1980 FSL 990 FWL	QUEEN	5035	5035
30-025-32987	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005C	Oil	Vertical	Cancelled Apd	35	T195	R34E	С	C-35-19S-34E 400 FNL 1680 FWL	C-35-19S-34E 400 FNL 1680 FWL	DELAWARE	8200	8200
30-025-32988	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#006F	Oil	Vertical	Cancelled Apd	35	T195	R34E	F	F-35-19S-34E 1720 FNL 1680 FWL	F-35-19S-34E 1720 FNL 1680 FWL	DELAWARE	8200	8200
30-025-21072	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#005	Oil	Vertical	Plugged, Site Released	35	T195	R34E	F	F-35-19S-34E 1980 FNL 1980 FWL	F-35-19S-34E 0 FNL 1980 FWL	QUEEN	5286	5286
30-025-22005	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	26	T195	R34E	N	N-26-19S-34E 330 FSL 1980 FWL	N-26-19S-34E 0 FSL 1980 FWL	QUEEN	5220	5220
30-025-20693	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#356	Injection	Vertical	Plugged, Site Released	35	T195	R34E	С	C-35-19S-34E 660 FNL 1980 FWL	C-35-19S-34E 660 FNL 1980 FWL	QUEEN	5250	5250
30-025-27204	BXP Operating, LLC	MESCALERO RIDGE UNIT	#269	Oil	Vertical	Active	26	T195	R34E	N	N-26-195-34E 330 FSL 2030 FWL	N-26-19S-34E 330 FSL 2030 FWL	QUEEN	5218	5218
30-025-29517 30-025-20695	BXP Operating, LLC	MESCALERO RIDGE UNIT MESCALERO RIDGE UNIT	#018 #358	Oil	Vertical	Active	35 35	T195 T195	R34E R34E	F	F-35-19S-34E 2240 FNL 2030 FWL K-35-19S-34E 1980 FSL 1980 FWL	F-35-19S-34E 2240 FNL 2030 FWL K-35-19S-34E 1980 FSL 1980 FWL	QUEEN	5250 5232	5250 5232
30-025-20695	BXP Operating, LLC MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#358 #265	Injection	Vertical	Active Plugged, Site Released	26	T195	R34E R34E	ĸ	K-35-195-34E 1980 FSL 1980 FWL K-26-195-34E 1650 FSL 1980 FWL	K-35-195-34E 1980 FSL 1980 FWL K-26-19S-34E 1650 FSL 1980 FWL	QUEEN	5232	
30-023-22081	WENT EVENOT COWPANT, ELC	WILJCALENO RIDGE UNIT	#203	injection	vertical	Pluggeu, site neleased	20	1 122	N.244C	n n	N-20-133-34E 1030 F3E 1380 FWE	N-20-133-34E 1030 F3E 1980 FWE	L QUEEN	1 51/4	1 31/4

VII (4)

#### Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

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	208	258	19S	20S		
Range	34E	29E	34E	29E		
Unit	М	0	М	Е		
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			

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

Devonian Injection Zone Water Analysis					
Well Name	Leonard ST 1 (A) #001	LEA UNIT #008	LEA UNIT #009		
API	3001503537	3002502431	3002502432		
Latitude	32.6839676	32.5927162	32.578598		
Longitude	-104.0347595	-103.511673	-103.5121155		
Sec	1	12	13		
Township	19S	208	208		
Range	29E	34E	34E		
Unit	М	В	В		
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 Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, R34E Lea County, NM

June 10, 2023

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMT seismic activity databases shows minimal historic seismic activity >M2.0 in the area (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, with one M2.2 event recorded 5.6 mi SE of the proposed well in August 2021. 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.
- 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 0.6 mi (1.0 km). This fault depth is believed to be in the PreCambrian, well below the Devonian-Silurian injection interval, and separated vertically by the presence of the Montoya, Simpson and Ellenburger formations.
- 5. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from

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

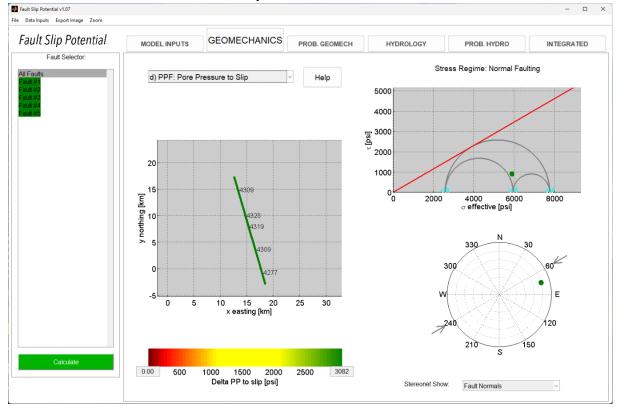
- 6. As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.1 miles away from the nearest active or permitted Devonian disposal well (Fasken Quail 16 State SWD #9, SWD-1537). There is another permitted Devonian disposal well 4.3 miles to the NE, the Blackbuck Wildrye Fee SWD #1, SWD-2369, and an active Devonian disposal 5.1 miles to the NNE, the Solaris Wild Cobra 1 State SWD #2, SWD-1525. All three 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	:
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Belated Fed SWD rate (BBL/day)	50000
Fasken Quail 16 SWD #9 rate (BBL/day)	1800
Blackbuck Wildrye Fee SWD rate (BBL/day)	25000
Solaris Wild Cobra 1 SWD #2 (BBL/day)	2500
Interval height (ft)	1262
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14604
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	19.3
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

Note:

In screenshots below, injection well #1 is the proposed Belated Federal SWD #1. Injection well #2 is the active Fasken Quail 16 State SWD #9. Injection well #3 is the permitted Blackbuck Wildrye Fee SWD #1. Injection well #4 is the active Solaris Wild Cobra 1 State SWD #2.



#### **Geomechanics Pore Pressure to Slip**

#### **GeoMechanics Variability**

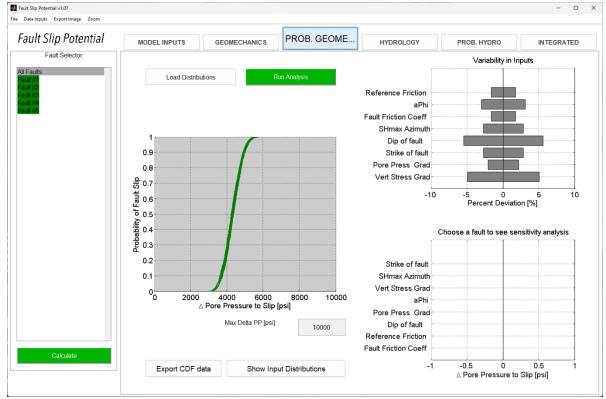
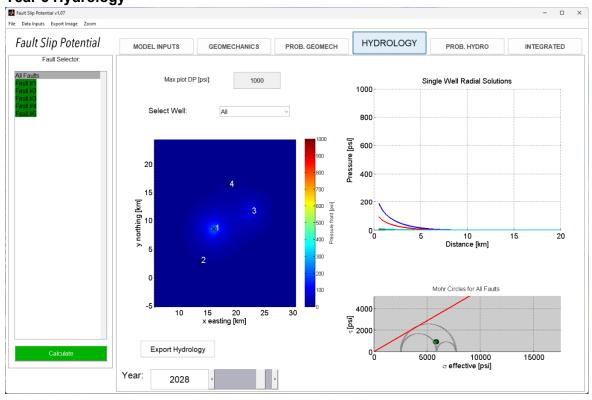


Exhibit A

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

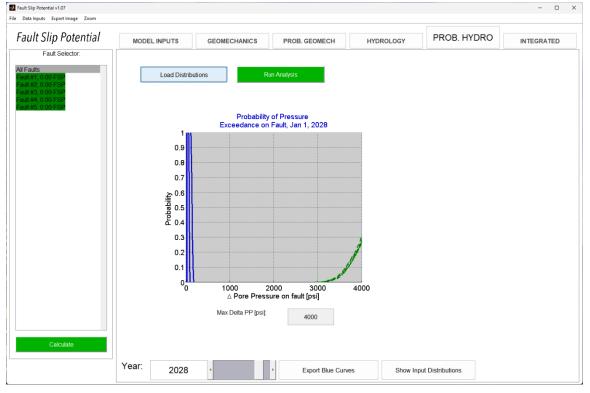
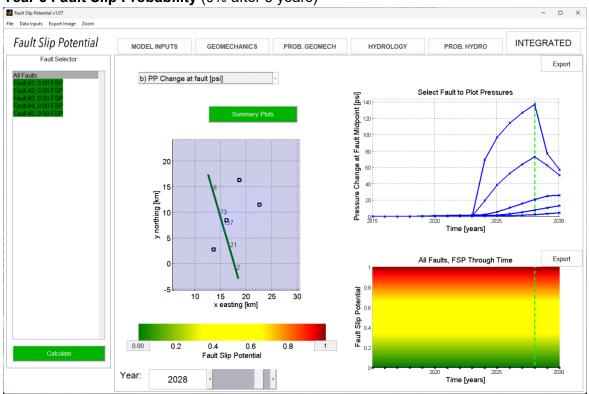
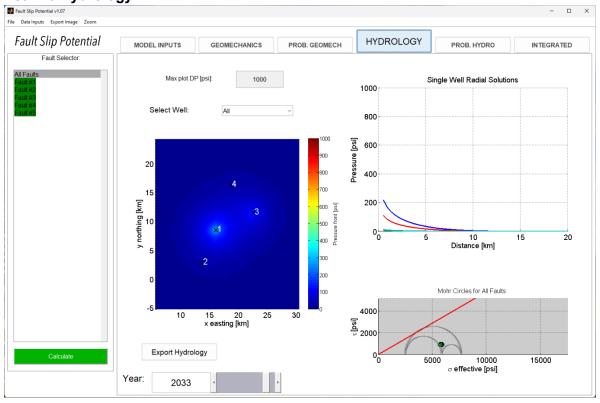


Exhibit A

#### Year 5 Hydrology



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





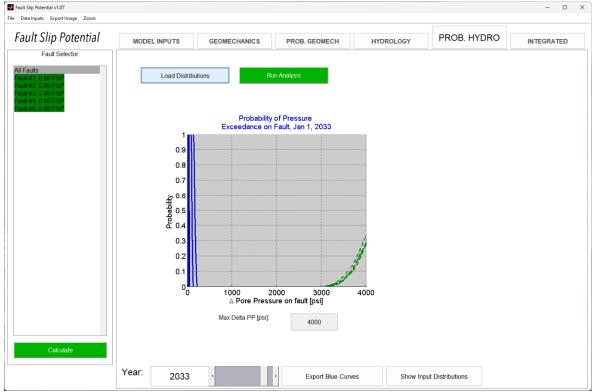
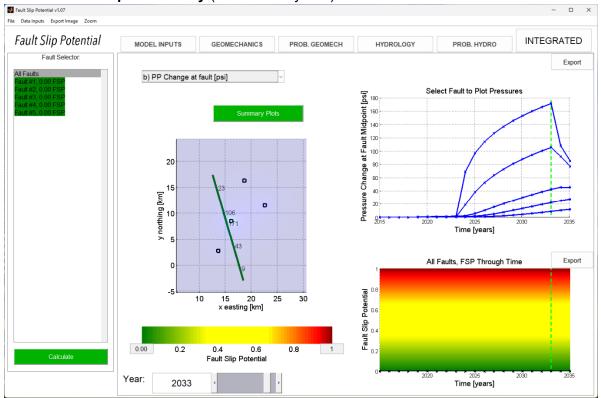
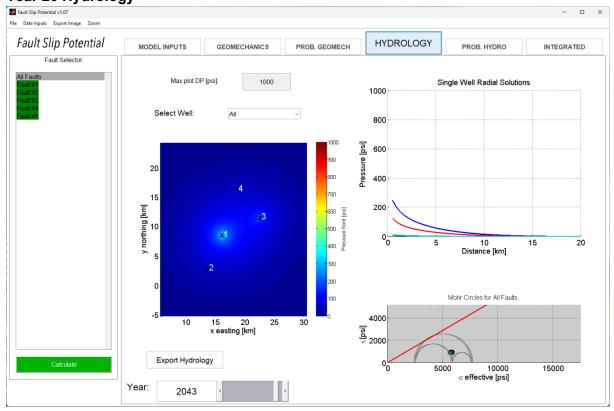


Exhibit A

#### Year 10 Hydrology

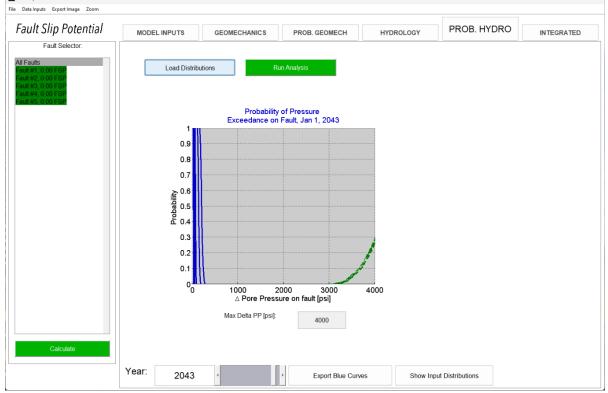


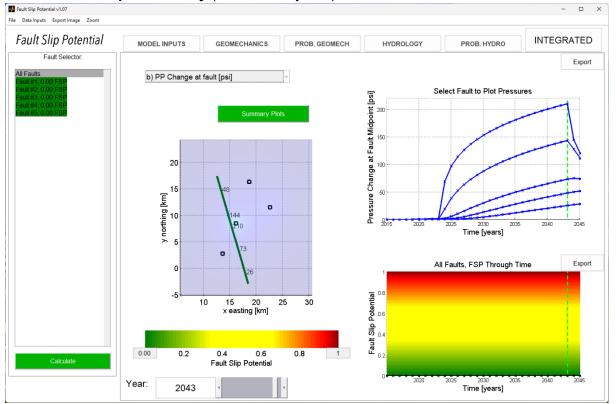
Year 10 Fault Slip Probability (0% after 10 years)



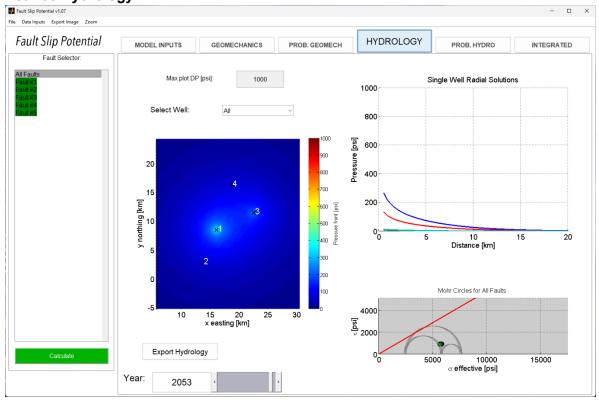
#### Year 20 Hydrology

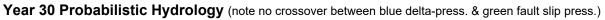
Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)





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





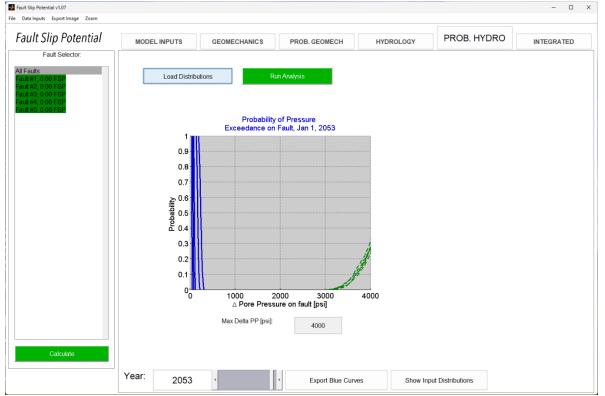
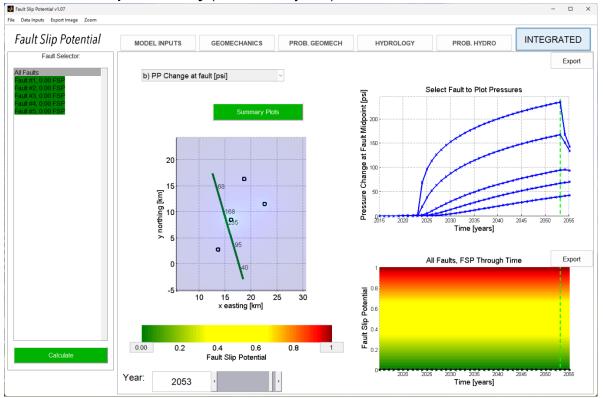


Exhibit A

#### Year 30 Hydrology



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

tay Er Tich

gfisher@popmidstream.com (817) 606-7630



## 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	(R=POD has been replaced O=orphaned, C=the file is	(quar						IE 3=SW	-				
water right file.)	closed)	(quar	ters	s ar	e s	mall	est to	largest)	(NAD8	3 UTM in meters)		(In feet)	
	POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin C	county	64	16	4	Sec	Tws	Rng	Х	Y	Well	Water C	Column
CP 00683 POD1	CP	LE	3	3	4	25	19S	34E	639530	3610685* 🌍	120	28	92
CP 00806 POD1	CP	LE		4	4	04	19S	34E	635109	3617151* 🌍	50		
CP 00811 POD1	CP	LE		4	4	09	19S	34E	635132	3615542* 🌍	50		
<u>CP 00875</u>	CP	LE	3	4	3	05	19S	34E	632592	3617013* 🌍	200		
CP 01672 POD1	CP	LE	1	3	1	36	19S	34E	638736	3610009 🌍	100		
L 04059	L	LE		4	1	12	19S	34E	639146	3616412* 🌍	125	60	65
<u>L 04723</u>	L	LE	1	1	1	11	19S	34E	637026	3616880* 🌍	145	123	22
L 06731	L	LE	3	2	2	12	19S	34E	639844	3616727* 🌍	120	80	40
<u>L 07213</u>	L	LE	4	1	4	31	19S	34E	631700	3609351* 🌍	160	110	50
<u>L 10347</u>	L	LE		2	3	03	19S	34E	635909	3617566* 🌍	130		
<u>L 10380</u>	L	LE	4	4	4	02	19S	34E	638428	3617102* 🌍	153	100	53
L 12103 POD1	L	LE	3	3	4	02	19S	34E	637920	3617173 🌍	120		
										Average Depth to	Water:	83 fe	et
	Minimum I									Depth:	28 fe	et	
	Maximum							Depth:	123 fe	et			

#### Record Count: 12

#### PLSS Search:

Township: 19S

Range: 34E

#### \*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.

Page 1 of 1 Exhibit A Received by OCD: 10/12/2023/11:08:29/PM

XI.

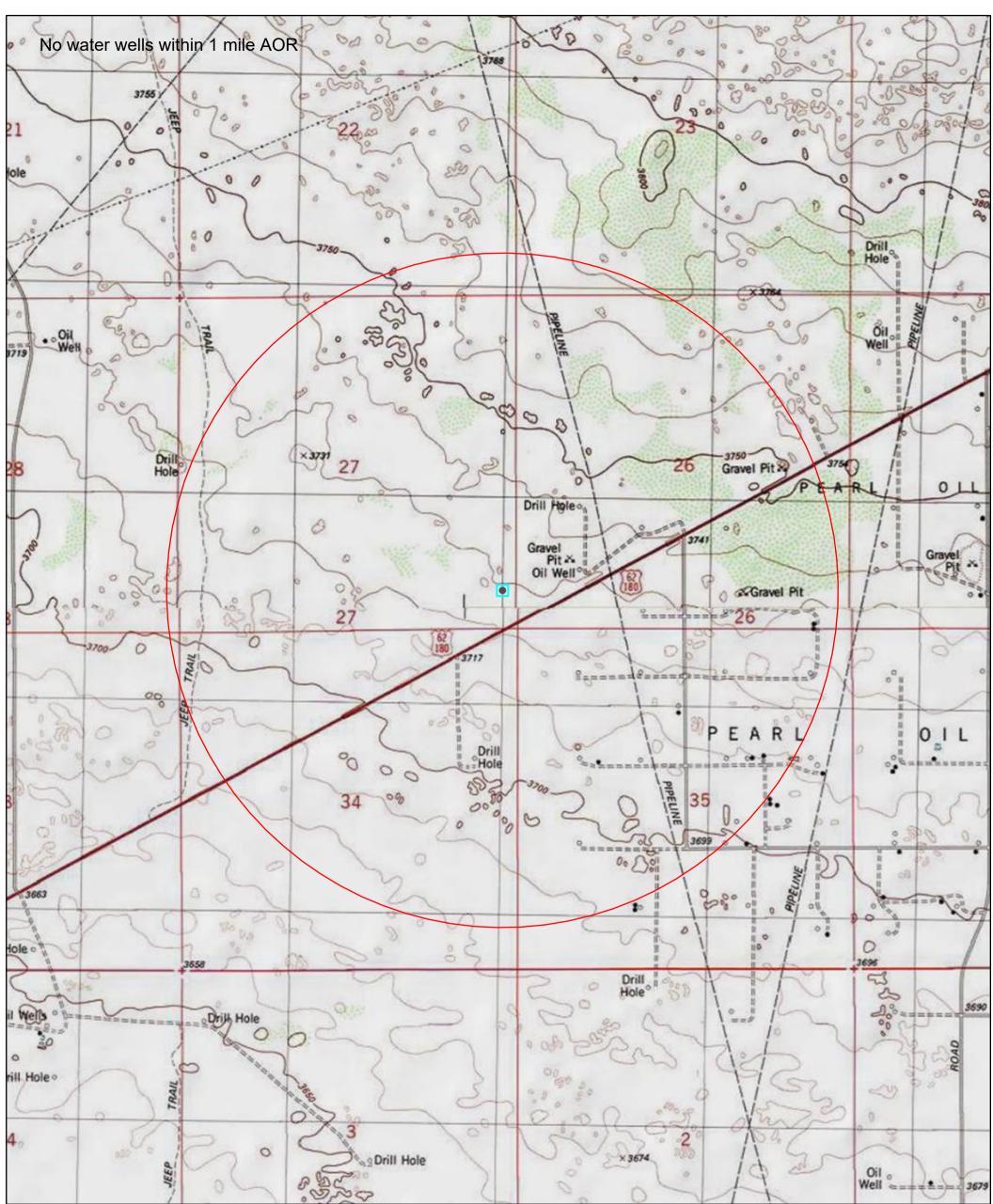
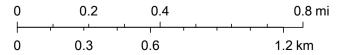


Exhibit A

## 5/23/2023, 7:03:27 PM SiteBoundaries

1:20,214



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Page 41 06 146

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

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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

Operator:	OGRID:
Permian Oilfield Partners, LLC	328259
PO Box 3329	Action Number:
Hobbs, NM 88241	241747
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

#### CONDITIONS

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

Action 241747

CONDITIONS

## Tab 2: Direct Written Testimony of SeanPuryear and Exhibits

#### 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. 23808 (BELATED)

#### **DIRECT WRITTEN TESTIMONY OF SEAN PURYEAR**

Sean Puryear hereby states and declares as follows:

1. I am over the age of 18, I am the Chief Executive Officer of Permian Oilfield Partners, LLC ("Permian"), and I have personal knowledge of the matters stated herein.

2. I have worked for Permian since April 2019.

3. I have previously testified before the Oil Conservation Division ("Division") and my credentials have been accepted as a matter of record.

4. To briefly reiterate my credentials, I graduated from Texas Tech University with a Bachelor of Science in Petroleum Engineering, after which I've held several positions with a major area operator in southeastern New Mexico as a senior-level drilling engineer and operations supervisor, a senior production engineer and operations supervisor, a completions engineer, the senior water 2systems manager and engineer, along with several field engineering positions where I was directly involved in the drilling and completion of over 100 horizontal oil and gas wells in southeastern New Mexico.

5. As Chief Executive Officer of Permian, my responsibilities include management and oversight of drilling saltwater disposal wells, as well as design and construction of produced water infrastructure.

### Exhibit 2

6. I have been directly involved in the drilling and completion of 15 saltwater disposal wells, both before I worked with Permian and with Permian.

7. My area of responsibility at Permian includes the area of Lea County in New Mexico.

8. I am familiar with the application Permian filed in this matter and I am familiar with the saltwater disposal well that is the subject of the application.

9. I submit the following information in support of Permian's request for an order approving drilling of a saltwater disposal well in Lea County, New Mexico. I understand that this document, the information contained herein, and the exhibits attached to this document constitute my direct testimony in this case.

10. Permian proposes to drill the Belated Federal SWD Well #1 well (the "Well") for the purpose of operating a produced water disposal well.

Permian intends to operate the Well and it will be a commercial disposal well.
 The Well is necessary to support oil and gas development in this area.

12. Permian originally filed this application as an administrative application on July 10, 2023. I submitted the application, which included all of the information required by the Division's form C-108. I did not receive any notifications from the Division that the application was incomplete.

13. It is my understanding that there is a 15-day deadline for submitting protests on administrative applications. Near the end of July, I believed the protest period had ended and no protests had been lodged because we had not been notified of any protests within the protest period.

14. Unbeknownst to Permian, Matador Production Company, MRC Permian Company, and MRC Hat Mesa, LLC ("Matador") protested the Well on July 18, 2023. Permian only found about the protest a month later, on August 18, 2023. Matador's protest and the Division's email to Permian are included as **Exhibit 2.A**.

15. As far as I know, the Matador protest is the only protest that was submitted to OCD for the Well.

16. Based on the Division's August 18 email and my understanding of Division practice, Permian has two options once Matador protested its administrative application—resolution of the protest either through negotiations with Matador or through a hearing.

17. Although I was hopeful that we could reach an agreement with Matador, given the time that had already passed between when Matador submitted its protest and when I learned of the protest and the amount of time between filing an application for hearing and being placed on an examiner hearing docket, Permian decided to also file a hearing application.

18. Permian began engaging in discussions with Matador on August 30 and filed its hearing application on September 5 to allow for an October 5 hearing.

19. **Tab 1** is the hearing application in Case No. 23808 that Permian filed with the Division. The application includes the C-108 that Permian submitted for administrative approval on July 10, 2023. In preparing for this hearing, I have reviewed the C-108 and did not identify any changes that require amending the C-108 or affect the accuracy of statements in the C-108.

20. In this case, Permian seeks an order from the Division to drill the Belated Federal SWD Well #1 at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico for the

purpose of operating a produced water disposal well. I have excerpted the C-102 from the C-108 and have attached it as **Exhibit 2.B**.

21. Permian is committed to putting the Well into service in the very near term. Permian has met with the Bureau of Land Management ("BLM"), which is the surface and mineral estate owner. Permian submitted the notice of staking to BLM on August 11, 2023 and Permian and BLM completed the on-site visit on September 5, 2023. BLM has confirmed the viability of the proposed location of the Well. *See* Exhibits 2.C and 2.D.

22. Permian's intent is to commence drilling the Well in August 2024 and to commence injection in November 2024.

23. Permian seeks authority to inject produced water into the Silurian-Devonian formation at a depth of approximately 14,639 feet to 15,841 feet.

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

25. Permian requests approval of a maximum injection pressure of 2,927 psi for the well, which is consistent with the .2 gradient that the Division follows.

26. The C-108 discusses the well construction data information and includes the well bore diagram.

27. For the Division's convenience, I have excerpted the well construction data and the well bore design from the C-108 and have attached those as **Exhibit 2.E**.

28. Permian is proposing a four-string casing for the Well with the surface and intermediate strings being cemented to surface and the liner being cemented to the liner top, with excess cement being circulated to surface. The surface string should isolate any known freshwater zones. The first intermediate string will isolate the salt section, and the second

intermediate string will isolate the lower-pressure reservoir rock above the Wolfcamp. The fourth string, which is a liner, will be set to the top of the Devonian and tied back into the 7-5/8 200 feet, and this string will isolate the shales above the Devonian and below the Third Bone Spring.

29. The casing we are proposing for each depth is consistent with industry standards and is consistent with casings that Permian has used in other Devonian disposal wells. It is also consistent with what I understand other operators to be proposing for similar high volume SWDs, with similar tubing sizes. In my opinion, the casing is designed to and will protect freshwater resources.

30. We also intend to use a 7-inch tubing with premium gas tight connections and an insert fiberglass liner. It crosses over to a 5-1/2-inch tubing with premium gas tight connections as well with the same type of fiberglass insert liner. We intend to circulate cement off of the liner top and run a cement bond log to verify bond.

31. I have included a wellbore schematic that presents a visual representation of the casing, cement, and tubing.

32. We will also employ an inconel permanent-set packer that will help ensure the isolation of hydrocarbons and fresh water.

33. Permian will run a compensated neutron/gamma ray log from surface to TD upon well completion and Permian will submit the logs to the Division.

34. In terms of monitoring the Well after it is operational, we intend to employ a SCADA system that will constantly monitor the tubing pressure and the annular pressure outside of the tubing to ensure continuous mechanical integrity.

35. For the Division's convenience, I have excerpted the maps that identify wells within the 1- and 2-mile area of review ("AOR") from the C-108 and have attached them as **Exhibit 2.F**.

36. These maps identify wells within a one-mile radius of the Well. I have listed those wells on page 3 of Exhibit 2.F.

37. There are three injection wells within the AOR but none of them target the Devonian; their injection zone is the Queen formation.

38. I also reviewed whether there are any fresh water wells within the AOR. I did not find any freshwater wells within the AOR. I have excerpted the Water Well map and New Mexico Office of State Engineer Water Column/Average Depth to Water information as **Exhibit 2.G**. We included this information to confirm that the Well's surface setting depth was deeper than any known sources of fresh water.

39. I did submit a compatibility analysis derived from information from the NMT Go-Tech website, which is marked as **Exhibit 2.H**. The formation waters are compatible with the Devonian formation water.

40. As part of the administrative application process, I sent notice to affected parties. I followed OCD's regulations, in Rule 19.15.26.8(B), which requires notice to the surface owner and to each leasehold operator, and to any other affected person as that term is defined Rule 19.15.2.7(8). A query of the surface owner, all wellbores, operators, lease holders and mineral owners was run for the 1 mile AOR. Following the guidance of the NMOCD, POP sent notice to the surface owner on which the proposed well is located and all wellbore owners and designated operators within the proposed wells 1 mile area of review.

41. The parties to whom we sent notice of the administrative application was sent is included in the C-108. We also published notice and that publication is in the C-108.

42. Permian chose this particular location for this Well because of customer disposal needs offsetting the Well, it is near Highway 62/180, Permian plans to construct pipeline infrastructure that would intersect this location—Permian's plan is to have the main segment installed and online by April 2024. Permian's proposed location is also consistent with NMCOD's SWD spacing requirements, and BLM has confirmed that the surface location is viable. In addition, as discussed in more detail in Mr. Fisher's testimony, this location presents no induced seismicity concerns based on Permian's induced seismicity study.

43. Permian has the technical, operational, and other experience and qualifications to comply with NMOCD's regulatory requirements for SWDs. In fact, Permian agreed to modify certain of its older orders to include the Division's conditions contained in newer orders regarding seismicity.

44. It is my understanding that Matador has some concerns regarding seismic risks from the Well. Permian offered to and wanted to discuss Matador's concerns with Matador but to date Matador has not agreed to a meeting date nor is Matador willing to share any details of its seismic information with Permian.

45. Gary Fisher, President of Permian, prepared a seismicity study using publicly available information which found a zero percent chance of induced seismicity. Mr. Fisher's written testimony discusses that study in more detail. From Permian's perspective, based on Permian's modeling and the information available to Permian, there is little, if any risk, of fault slip from this Well.

46. It is my understanding that Matador may have 3D seismic information for this area. I understand that Matador may have licensing or confidentiality reasons for not sharing all of its 3D data with Permian. In an effort to understand Matador's concerns, our counsel asked Matador's counsel if Matador would be willing to share limited views of its seismic data or other information, so that Permian could verify the faulting or other issues of concern for Matador. So far, Matador has not provided any such data or information.

47. In an attempt to independently evaluate Matador's asserted seismicity concerns, I reviewed the 3D seismic database library on the Seismic Exchanges website to determine whether 3D seismic information exists near the Well. There is no nearby 3D seismic information available for Permian to purchase. *See* Exhibit 2.I. For this reason, it would not have provided any further information regarding faults of concern, if any, near the Well.

48. Given that there is no relevant 3D seismic information that Permian can purchase or access, Permian has had no way to verify or evaluate Matador's asserted concerns. If Matador has 3D seismic information, it should present that information to Permian and to the Division. Otherwise, the information Permian has provided shows little to no risk of induced seismicity, and apart from unsubstantiated statements, Matador has not demonstrated otherwise.

49. I personally reached out to Matador on a number of occasions to offer to meet with Matador and I asked our counsel to do the same, which she did. While Matador would initially agree to have a conversation with Permian, Matador would never commit to a date to meet. When Matador suggested a joint meeting with the Division, Permian agreed to pursue that option. Although Permian was clear that it would meet with Matador and the Division any day or time that worked for Matador and the Division, Matador never proposed any dates to meet with the Division. 50. In recent discussions with Matador's counsel, Matador has stated that it is only willing to meet with the Division after October 19. It is my understanding that Matador is only willing to agree to an in person meeting with the Division, even though we could meet with the Division virtually to discuss Matador's concerns.

51. I was also surprised that Matador protested seven of Permian's proposed SWDs. Permian's wells are approximately 43 miles apart. It seems unlikely to me that Matador has 3D seismic along this entire 43-mile length and unlikely that Matador has concerns about seismic that span this entire length. In my opinion, Matador's indiscriminant protest of nine Permian applications seems like a delay tactic.

52. It is also my understanding that Matador wants to have a series of meetings with the Division, which, in my opinion, is not necessary based on the information Permian currently has which shows no likelihood of induced seismicity. Permian's desire has been and continues to be to understand Matador's concerns and address them. Matador to date has not shared any concrete information or evidence with Permian that causes Permian to rethink the viability of the Well.

53. In my opinion, Matador is trying to delay meeting with Permian and has been trying to delay the hearing in this case, which I do not understand. If Matador has concerns with the location of the Well and the potential for induced seismicity, it makes sense to me that Matador would want to discuss those concerns with Permian and with the Division in a timely fashion and not continue to delay.

54. I attest that the information provided herein is correct and complete to the best of my knowledge and belief.

55. In my opinion, the granting of Permian's application is in the interests of conservation and the prevention of waste. The Well will provide much needed capacity for produced water, which will, in turn, support oil and gas operators' ability to produce oil and gas. Conversely, constraints on disposal could lead to negative impacts on operators in the area and their ability to effectively and efficiently produce resources that they have under lease.

56. The attached exhibits were prepared by me, or compiled from company business records, or were prepared at my direction.

#### [Signature page follows]

•

I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: October 12, 2023

Sean Puryear

# Protested SWD Application

By Matador; received 7/18/2023

Exhibit 2.A

Released to Imaging: 10/13/2023) 73582544AM

From:	Kyle Perkins
To:	Engineer, OCD, EMNRD
Subject:	[EXTERNAL] Matador"s Protest of Permian Oilfield"s Proposed Belated Federal SWD #1
Date:	Tuesday, July 18, 2023 4:27:45 PM
Attachments:	image001.jpg 3207_001.pdf

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ladies and Gentlemen,

Matador Production Company and MRC Delaware Resources, LLC hereby protest Permian Oilfield Partners, LLC's proposed Belated Federal SWD #1, located in Section 27, Township 19 South, Range 34 East, Lea County, NM . A copy of the referenced application is attached for your convenience.

Please advise if this case is set for hearing.

Best regards,

Kyle Perkins Vice President & Assistant General Counsel Regulatory and Operational Matters

Matador Resources Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 (972) 371-5202 (office) kperkins@matadorresources.com



This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

From:	Goetze, Phillip, EMNRD
To:	Sean Puryear
Cc:	<u>Kyle Perkins; Gebremichael, Million, EMNRD; Wrinkle, Justin, EMNRD; Powell, Brandon, EMNRD; Fuge, Dylan,</u> EMNRD; Moander, Chris, EMNRD; <u>Tremaine, Jesse, EMNRD</u>
Subject:	Notification of Protests for Permian Oilfield Partners C-108 Applications by Matador Production
Date:	Friday, August 18, 2023 1:13:00 PM

RE: C-108 Applications for: Belated Federal SWD #1; Beat the Punch Federal SWD #1; Tardy Federal SWD #1; Overdue Federal SWD #1; Thompson 35 Federal SWD #1; Browning 26 Federal SWD #1; and Ruger 31 Federal SWD #1.

#### Mr. Puryear:

The OCD was notified by Matador Production Company and MRC Permian Company that they are protesting seven C-108 applications recently submitted by Permian oilfield Partners, LLC ("Permian"). This operator has been identified as an affected person for the proposed UIC Class II wells being considered. Because of the protest, seven applications can no longer be reviewed administratively. Permian is being notified that for these applications to advance in the review process that there are two options: resolution of the protest though hearing or a negotiated resolution with the protesting party that results in the withdrawal of the protest. If the protest is withdrawn, then the application can be reviewed administratively. The applications will be retained pending a hearing or other resolution.

C-108 Application Well Name	OCD Appl. No.	Assigned SWD No.	Date of Protest		
Belated Federal SWD #1	pMSG2319954754	SWD-2545	7/18/2023		
Beat the Punch Federal SWD #1	pMSG2319953455	SWD-2544	7/18/2023		
Tardy Federal SWD #1	pMSG2319956571	SWD-2546	7/18/2023		
Overdue Federal SWD #1	pMSG2319959255	SWD-2548	7/18/2023		
Thompson 35 Federal SWD #1	pMSG2323043390	SWD-2554	7/26/2023		
Browning 26 Federal SWD #1	pMSG2323038040	SWD-2551	7/26/2023		
Ruger 31 Federal SWD #1	pMSG2323040020	SWD-2552	7/26/2023		

#### Applications that are subjects of this notification:

#### Protest contact information:

Kyle Perkins Vice President & Assistant General Counsel Regulatory and Operational Matters Matador Resources Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 (972) 371-5202 (office) kperkins@matadorresources.com Please continue to provide OCD with information regarding the status of these applications including any resolution of protests. Please contact the UIC Group with any questions regarding this matter. PRG

Phillip R. Goetze UIC Group Manager Oil Conservation Division Energy, Minerals and Natural Resources Department Horizon Building 8801 Horizon Blvd, Suite 260, Albuquerque, NM 87113 Direct: 505.660.8274 Email: phillip.goetze@emnrd.nm.gov



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

Operator:	OGRID:
Permian Oilfield Partners, LLC	328259
PO Box 3329	Action Number:
Hobbs, NM 88241	254716
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

#### CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	8/21/2023

Page 59eof 146

Action 254716

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162: Pho <u>Dist</u> 811 Pho <u>Dist</u> 1000 Pho	rict I 5 N. French Dr., Hobb ne: (575) 393-6161 Fa rict II S. First St., Artesia, N ne: (575) 748-1283 Fa rict III O Rio Brazos Road, Az ne: (505) 334-6178 Fa rict IV	ax: (575) 393- M 88210 x: (575) 748-9 ztec, NM 8741	0720 0	Energ		State erals & N CONSE 1220 Se Santa	Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office					
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	<sup>7</sup> OGRID 1 <b>32825</b>			Р	ERMIA		erator Na	PARTNERS,	LLC		9]	Elevation 3725'
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	UL or lot no.	Section	Township	Range	Lot Idn	Hole Loc		If Different Fr		et from the	East/West line	County
		Section	Township	Kange	Lot Iuli	I det IIO		North/South line	re		East west fille	County
	12 Dedicated Acres	s 13 Joint	or Infill 14 (	Consolidatior	n Code 1	5 Order No.						
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16				5 89170	01" W 5283	.59			U	1	PERATOR CERT	TIFICATION
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2634.		GEODETIC	DATA							-	ant to a contract with an own a voluntary pooling agreemen	ner of such a mineral or working
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₿			CAP "1912" E: 780463.0		27 – -		+-		ź	18 CT I		
			CAP "1912" E: 780440.4	2					8'53		RVEYOR CER	DIFICATION ocation shown on this
			CAP "1912"		Ì				2.00		plotted from field not	
			E: 780418.4						<	made by	me or under my supe	rvision, and that the
22'			CAP "1912" E: 785700.5							same is i	true and correct to the	e best of my belief.
2633	E: FOU	IND BRASS	CAP "1912"								30/2023	F
×.	N: 59	1661.5 —	E: 785745.0		 					Date of Su	AL	E. BEL
9.34			CAP "1912" E: 783105.5							Signature a	and Seal of Professional Sur	VerMIE+ CO
2.00								208	a'			
<												14400
								S.I	L. <mark>() ``</mark>	14400		31/2023
									637'	Certificate N	lumber	-9 601
A				Ē					ن ٦			NALS
L	58	89°47'44" E	- 2643.02'					W 2640.16'	Job I	" Vo.: LS23	050490	
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	8	-				•						

#### Received by OCD: 10/12/2023 11:08:29 PM

#### **WAFMSS**

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

NOS ID: 10400093876

Operator Name: PERMIAN OILFIELD PARTNERS LLC Well Name: BELATED FEDERAL SWD Well Type: INJECTION - DISPOSAL

#### Section 1 - General

NOS ID: 10400093876		Submission Date: 08/15/2023
BLM Office: CARLSBAD	User: Gary Fisher	Title: President
Federal/Indian NOS: FED	Is the first lease penetrated for production	Federal or Indian? FED
Surface access agreement in place?		
Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential?		
Designated Agent? N	NOS Operator: PERMIAN OILFIELD PARTN	ERS LLC
Operator letter of		

#### **Designated Agent Info**

Agent Address:		
Agent PO Box:		
Agent city:	State:	Zip:
Agent Phone:		
Agent Internet Address:		
Operator Info	0	]

# Operator Organization Name: PERMIAN OILFIELD PARTNERS LLC Operator Address: 726 EAST MICHIGAN DRIVE, SUITE 206 Operator PO Box: Operator City: HOBBS State: NM Operator Phone: (817)600-8772 Operator Internet Address:



**Zip:** 88241

Page 61 of 146

10/12/2023

Highlighted data reflects the most

recent changes <u>Show Final Text</u>

NOS Detail Report

Submission Date: 08/15/2023

Well Number: 1

Well Work Type: Drill

#### **Section 2 - Well Information**

Page 62 of 146

Well Name: BELATED FEDERAL SWD Field/Pool or Exploratory? Field and Pool Use Existing Well Pad? N Type of Well Pad: SINGLE WELL Number: Well Class: DIRECTIONAL Well Type: INJECTION - DISPOSAL Describe Well Type: Well Number: 1

Field Name: SWD; DEVONIAN- Pool Name: SILURIAN NULL\_POOL New surface disturbance?

Well API Number:

**Pool Name:** NULL\_POOL\_NAME\_VALUE

Number of Legs: 1

**Multiple Well Pad Name:** 

Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: Other Local Office:

Surface Owner: BUREAU OF LAND MANAGEMENT

USFS Region:

**USFS Forest/Grassland:** 

**USFS Ranger District:** 

#### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

#### **Describe Survey Type:**

Datum: NAD83

#### Survey number:

#### Vertical Datum: NAVD88

#### Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	637	FSL	208	FEL	19S	34E	27	Tract P	32.62576 72	- 103.5401 562	LEA	NEW MEXI CO		F	NMNM 04452	372 5	0	0	N
KOP												Γ				Γ	0	0	
Leg #1						'			1										
#1 PPP				┝──┤	'	<b>├</b> ───'	┝──	<u> </u> '	!								0	0	
Leg				1 <sup>1</sup>		'												C	
#1-1				1 1	1	'													
EXIT				í T								1					0	0	
Leg				1 1	1	'													
#1				$\vdash$	<b> </b> '	<u> </u>		<u> </u>											
BHL	637	FSL	208	FEL	19S	34E	27	Tract	32.62576		LEA			F	NMNM	-	158	158	Ν
Leg				۱	1	'		Р	72	103.5401 562		MEXI CO	CO		04452	121 16	41	41	
#1					L'	<u> </u>	<u> </u>	<u> </u>											

#### Section 4 - Other

Anticipated Bottom Hole Pressure: 7414 Anticipated abnormal pressures, temperatures, or potential geologic hazards? N Describe:

**Contingency Plans geohazards description:** 

Contingency Plans geohazards attachment:

Hydrogen sulfide drilling operations plan required? N Hydrogen sulfide drilling operations plan:

Will existing roads be used?  ${\sf N}$ 

Existing Road Map:

Existing Road Purpose:

ROW(s) Exist?

#### Received by OCD: 10/12/2023 11:08:29 PM

Do the existing roads need to be improved? Existing Road Improvement Description: Existing Road Improvement Attachment: Will new roads be needed? New Road Map: New road type: Access miscellaneous information: Access Additional Attachment: Reserve Pit being used? NO

Reserve pit length (ft.):

Reserve pit depth (ft.):

Reserve pit width (ft.):

Reserve pit volume (cu. yd.):

#### Survey Plat or Map:

Belated\_Federal\_SWD\_1\_C\_102\_20230814110951.pdf

### SUPO Additional Information:

Other SUPO

**Other Attachment:** 

**General Comments:** 

IOS fask Forwarding	NO0 Interferen	N		December		Start Electroni	ic .		
	NOS Initation	Name		Description					
Operator NOS Vorklist		NOS Pro	ocess	Click to start a new N	Notice of Staking				
Operator My Running NOS									
rocesses									
	Operator My Ru	ning NOS I	Processes				Quick Search	O Monite	
Operator My Completed NOS	Operator My Ru	nning NOS I	Processes				Quick Search	Q Monito	itor 🛛 🕄
Operator My Completed NOS Processes									
Completed NOS	V NOS ID	*	Operator			V Well Name/Well Number	Quick Search	×	
ompleted NOS				From:	BLM Office	Vell Name/Well Number			
completed NOS	V NOS ID	*		STORID Data		Vell Name/Well Number		×	
Completed NOS	V NOS ID	*		From:		Vell Name/Well Number		×	
ompleted NOS	V NOS ID	*		From: mm/dd/yyyy		Vell Name/Well Number		×	tor O
completed NOS	V NOS ID	×		From: mm/dd/yyyy 🗖 To:		Vell Name/Well Number		×	

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## Exhibit 2.D

III (A)

#### WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

#### Surface - (Conventional)

Hole Size: 26" Casing: 20" - 133# N-80 BTC Casing Depth Top: Surface Depth Btm: 1720' Cement: 3208 sks - Class C + Additives (100% Excess)

Cement Top: Surface - (Circulate)

#### Intermediate #1 - (Conventional)

Casing: 13.375" - 68# HCP-110 BTC Casing

Depth Top: Surface Depth Btm: 5409' Cement: 2204 sks - Class C + Additives Cement Top: Surface - (Circulate)

#### Intermediate #2 - (Conventional)

 Hole Size:
 12.25"
 Casing:
 9.625" - 40# HCP110 BTC Casing

 Depth Top:
 Surface

 Depth Btm:
 10979'
 ECP/DV Tool:
 5509'

 Cement:
 1693 sks - Class C + Additives

Cement Top: Surface - (Circulate)

#### Intermediate #3 - (Liner)

Hole Size: 8.75"

Hole Size: 17.5"

Casing: 7.625" - 39# HCL-80 FJ Casing

Depth Top: 10779' Depth Btm: 14639' Cement: 237 sks - Class H + Additives Cement Top: 10779' - (Circulate & Bond Log)

#### Intermediate #4 - (Open Hole)

 Hole Size:
 6.5"
 Depth:
 15841'

 Inj. Interval:
 14639' - 15841' (Open-Hole Completion)

#### Tubing - (Tapered)

 Tubing Depth:
 14594'
 Tubing:
 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ

 X/O Depth:
 10779'
 Casing (Fiberglass Lined)

 X/O:
 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth:
 14604'
 Packer:
 5.5" - Perma-Pak or Equivalent (Inconel)

Packer Fluid: 8.4 ppg FW + Additives

Exhibit 2.E

#### III (A)

#### WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

#### Surface - (Conventional)

Hole Size:	26"
Casing:	20" - 133# N-80 BTC Casing
Depth Top:	Surface
Depth Btm:	1720'
Cement:	3208 sks - Class C + Additives (100% Excess)
Cement Top:	Surface - (Circulate)

#### Intermediate #1 - (Conventional)

17.5"
13.375" - 68# HCP-110 BTC Casing
Surface
5409'
2204 sks - Class C + Additives
Surface - (Circulate)

#### Intermediate #2 - (Conventional)

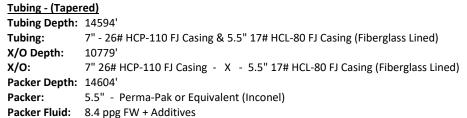
Hole Size:	12.25"
Casing:	9.625" - 40# HCP110 BTC Casing
Depth Top:	Surface
Depth Btm:	10979'
Cement:	1693 sks - Class C + Additives
Cement Top:	Surface - (Circulate)
ECP/DV Tool:	5509'

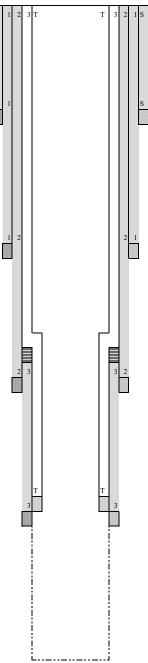
#### Intermediate #3 - (Liner)

Hole Size:	8.75"
Casing:	7.625" - 39# HCL-80 FJ Casing
Depth Top:	10779'
Depth Btm:	14639'
Cement:	237 sks - Class H + Additives
Cement Top:	10779' - (Circulate & Bond Log)

#### Intermediate #4 - (Open Hole)

Hole Size:	6.5"
Depth:	15841'
Inj. Interval:	14639' - 15841' (Open-Hole Completion)

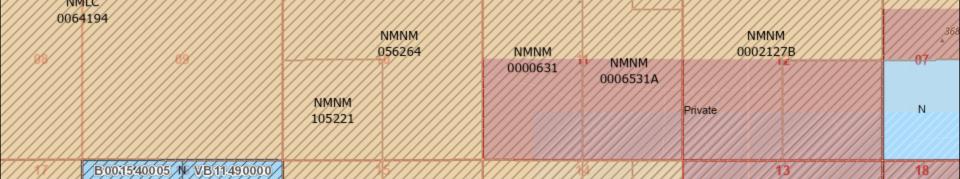




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## Belated Federal SWD #1. 1 & 2 Mi AOR, Leases

V (a)	Belated Federal SWD #1, 1 & 2 Mi AOR, Leases													
158		E078240000	0 G20010004	B015650012 V0802400010	G24160003									
	L029490005	15	OG18470001 OG18470002	State V067570000	LG2 41700									
NMNM 012006	E078240003	3808 ft Chevron	Chevron	0G47690002 VB18570001										
	NMNM 0002391A NMNM 0002391 BxP/EOG	Chevron	Chevron	NMNM 026395 xto										
Olaji Rhage oli Ana Gas Pieva	Burlington/BXP/EOG	Chevron Balog Et Al	EOG NMNM 142576 Chisholm Balog Et Al	ХТО 0381550C	Privậte 19S 35E									
	Chevron Burlington/BXP/EOG		MNM 7285 Balog Et Al	TBO S XTO NMNM										
rlington	Chevron Chevron NMNM 097155 87076	0004452	urlington Et Al Burlington/Devon Urlington/Devon NMNM 0005519A	0000086	E01587000									
Re 1076590001	aad and Stevens NMNM 097156 Batog Et Al	BXP/Hyde/Merit	3/1243 BXP/Hyde/Merit	Advance WB07970001	E0163800									
07660000	Magnum Hunter NMNM 060789 Read and Stevens NMNM 094622	600 Balog Et Al	0052	Unleased	L0237800									
	Delmar Et Al NMLC 0065607	Chisholm NMNM 084902 Read and Stevens	Хто LG28330002	Advance BLM										
Delmar Et Al		Read and Stevens NMNM 054432	LG27500002	Advance 128356 NMNM 119279 Private										
/ / / / / / / / /	MLC 4194	208.345	864 it 0006531											



#### 5/26/2023, 2:04:25 PM



New Mexico Oil Conservation Division

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Exhibit 2.F

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## Related Federal SWD #1 1 & 2 Mi AOR Wells

V (b)	Belated F	ederal SWD #			125 22002
Qty. 3 Act	tive Queen injection wells wit jan injection wells within 2 m	hin 1 mile AOR (indicated by	•30-025-26783 •30-025-2586	25-26221	
	Man Hige Clott wens within 21	30-025-42521 30-025-42521 30-025-41986	25-27096 03200 0030-025-2553 5-41532 30-025-4121030-025-40842 30-025-4121030-025-40842	30-025-4185730-025-41858 125-40841	30-025-230
	30 025 41755 <b>30 025 4297930 02</b> 30 025 37081 30 025 41754 <sup>3</sup>	25-42352 / / / / / / / / / / / / / / / / / / /			5-38898
	L029490005		0G18470001 0G1830 025 2	2069 Male N/06757,0000	30-025-290 30-025-295
	30-025-26192 •	2	(//////////////////////////////////////		
0 025 2447	30-025-26763 0 - 025-26763 - 30-025-25896 - 30-025-26098	15 30-025-26087	30-025-2302	30=025=22519	LG241700
IMNM	E078240003		Chevron	0G47690002 VB18570001	
12006	30-025-02387 0-025-21195 30-025-32747	30-025-20812 <sup>8</sup> / <sup>+</sup> Chevron 30-0 30-025-02386	25-02385	30-025-22717 30-025-4221330-025-41989 <b>30-0</b> 30-025-4221330-025-41989 <b>30-0</b>	25-41987
30-0	25-02391 NMNM 31230-025-51264 NMNM 316-025-51264				25-42544 25-02393
	0301025-21856 NMNM		xto	NMNM	
	0002391 BXP/EOG	30-025-29405 Chevron	Chevron 30-025-2940630-025-2755	6 026395 30-0 125-29299 хто	25-24413
30-025		30-025-29543	2 30=025=290 NMNM	7//////////////////////////////////////	Private 30-025-301
ANS GAS	125-31356 30-025-338111 Burlington/BXP/EOG	Chevron Balog Et Al	EOG 142576 Chisholm	XTO 30.025-30839 NMNM	• 30-025-03*
30-0	025_31091	V98 345	Balog Et Al 3 30-025-4377730-025-43	0 025 41269 03815500 30-025 43811 741 30-025 43811 742 30-025 42709 30 025 42710 30	10S 35E
////27	025-39310 025-3938630-025-39438 <b>30-025-0239</b>	05	MNM 38-025-2915030-025-43 7285 30-025-31090	742 30-025-42709 30 30 025 30-555 30-025-27896 30-0	025-42577
30-025-359	72 30-025-36195 Chevron	5-35897 Balog Et Al	Balog Et At 5-58747 30-025-58	30-025-39555 <sup>30-025-27896</sup> 30-0 30-025-24867 30-025-24867 30-025-38391 30-025-25101	
0-025-3438		0-025-31047		21263 30-025-21098 30-025-2208	
	30-025-02398.30-025-3089 30-025-3619630-025-37974 488		025-42804	NMNM 30-025-2521830- 22 30-025-21369 UUBt 30-0 30-025-08457	5525219700 025-22967
30-025-36 Igton	188 Chevron 30-025-30	09 30-025-30918 09 30-025-30918 000+452	30-025-22081 Burlington/Devon 30-025-22190 30-025-22333	*30-025-08457	30-025-23
	Chevron 00-025-02397 30-025-3752 NMS0-025-343Balog Et A 007155	Balog Et Al 55 4180 30-025 41808 30-025 42	urlington/Devon Burlington Et Al	xto 30-025-23708 225-21798 30-025-41358	30-025-03
30	1254196530-0254196430-0254032 125-37615 30.02536403 30.02	30-025-42504 5-40253 30-025-32617	25'42212' 3 0:025'40135 <b>30:025:21857</b> 30-025'42' 30:025:21693	0-025-41573 14130-025-40425 30-025-42146 30-025-21756	0-025-41574
Re	Chevron         30-025-30           30-025-02397         30-025-3757           NMS0025-343Balog Et Al         30-025-3757           097155         30-025-41963           25-41965         30-025-4032           30-025-36403         30-02           30-025-36403         30-02           30-025-3728         30-025-3415           NMNM         30-025-33728           NMNM         30-025-3415           30-025-30993         30-	30-025-39895 30-025-327	8630-025-40086 30-025-	30-025-02403 30-02 33660	5-41028
	Balog Et Al 025-40036 30-025-34155 30-025-30993 30-	30-025-32616 025-34114 BxP/Hyde/Ment 015	30-025-3417630-025 2069 30-025-4008630-025 269	2/30-025-02405 30-025-32935	<b>30-025-20</b> E-0169800
0=025=3200	30 0 Magnum Hunter	NM 1000 1000 1000 1000 1000 1000 1000 10	130 <u>4025</u> 2126630-025-34164 <sup>30-025-3</sup> 10057 125-32607 30-025-20695 30	33661 -025-20302 30-025-02404	69
	3 30-02/asput Hunter 0-025-40040 Ni30/025-34113 0-025-40041 Read and Stevens	30-025-32815	30-025-40084 30-025-	Hole and 025-02406 30-025-308	352 30-025-30
#860000 <u>3</u>	0-025-00041 Read and Stevens 30-025-34119	30-025-3281 30-025-39763 Balog 501025-32816	30-025-39382 30-025-32986 30-025-2	355030-029a20291unte30-025-31011 355030-029a20291unte30-025-20096	30-025-25
025-43507	30:025-02402	30-025-4268430-025-42228 30 • 30-025-02409 • 30-025-422	2025-42080 27 30.025-38622 30.025-23520	25-4229430-025-42295 30-025-23601 30-025-42295	42292
	30-025-02415	5-32971 30-025-33885 30-025-33885 30-025	34485 STP02540333 STP02540333	30-025-02407 Advance	30-025-40
	0-025-40040 N 30'025-34113 0-025-40041 Read and Stevens 30-025-34119 094630-025-3358 30-025-02402 25-4227030-025-3301730-025-33247 30-025-02415 006560 30-025-02415 30-025-02414 30-025-02414	25-32819 084902 Read and \$00025-33663 30-025	30-025-3291430-025-38042 3411630-025-32466 30-025-31845	BLW	30-025-03
///////////////////////////////////////	///////////////////////////////////////	-30-025-33884 -30-025-32935	///////////////////////////////////////	025-29089/2/ NMNM////////////////////////////////	V//6//
	30-025-338 <sup>559mar</sup> Et 30-025-306 31 30-025-33872 30-025-33872 30-025-45678 30-02 30-025-02420 30-025-34320 30 100 30-025-02420	Read and Stevens 30-025-32165 30-025-3215 0-025-3304330-025-32166 30-02	3/30-025-31696 5-3192830.025-32105	Advance NMNM 119279	
30-02	30-025-33872 30-025-3 30-025-33872 30-025-3	051930-025-30183 3/3512 3/2512 30-025-31818	30-025-35962 0 0025-35962 0 0025-40330	4288530-025-4441030-025-44411	025 44252
30-0	25-02412/30/025/43129///30-02	5-1351330-025-3118930-025-436793	0-025-4183330-025-44023	30-025-43145 50-025-43146 - 30- 026	23-42958
	SU-025-02420 SU-025-343203	30-025-31413 <sup>30-025-43680</sup>	30-025-38611 0006531	42959 •30-025-37525	
		20 025 24000			8/////



#### 5/26/2023, 2:08:56 PM

- Override 1 Override 1 ø Wells - Large Scale ٠ ۲ Miscellaneous ¢ Gas, Active Gas, Cancelled
- ¢ Gas, New
- \$ Gas, Plugged
- ŗÓ Injection, Active
  - Injection, Plugged
  - Oil, Active
  - Oil, Cancelled
  - Oil, New
  - ٠ Oil, Plugged
    - Oil, Temporarily Abandoned
  - Salt Water Injection, Active ◬
- Salt Water Injection, Plugged Δ 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

#### 1:36,112 0.33 0.65 0 1.3 mi 0 0.5 2 km 1

#### 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

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#### V (c)

				Belated	Federal S	SWD #1 - Wells Within	1 Mil	e Area	of R	Review					
API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCD Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TVD
30-025-34176	BXP Operating, LLC	MESCALERO RIDGE UNIT	#026	Oil	Vertical	Active	35	T195	R34E	G	G-35-19S-34E 1350 FNL 2570 FEL	G-35-19S-34E 1350 FNL 2570 FEL	QUEEN	5236	5236
30-025-34164	BXP Operating, LLC	MESCALERO RIDGE UNIT	#025	Oil	Vertical	Active	35	T195	R34E	J	J-35-19S-34E 2620 FSL 2620 FEL	J-35-19S-34E 2620 FSL 2620 FEL	QUEEN	5204	5204
30-025-20694	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#357	Oil	Vertical	Plugged, Site Released	35	T195	R34E	В	B-35-19S-34E 660 FNL 1980 FEL	B-35-19S-34E 660 FNL 1980 FEL	QUEEN	5250	5250
30-025-21857	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#263	Injection	Vertical	Plugged, Site Released	26	T195	R34E	0	O-26-19S-34E 330 FSL 1980 FEL	O-26-19S-34E 330 FSL 1980 FEL	QUEEN	5150	5150
30-025-20692	BXP Operating, LLC	MESCALERO RIDGE UNIT	#354	Injection	Vertical	Active	35	T195	R34E	G	G-35-19S-34E 1980 FNL 1980 FEL	G-35-19S-34E 1980 FNL 1980 FEL	QUEEN	5260	5260
30-025-22196	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#006	Oil	Vertical	Plugged, Site Released	26	T195	R34E	J	J-26-19S-34E 1650 FSL 1980 FEL	J-26-19S-34E 1650 FSL 1980 FEL	QUEEN	5160	5160
30-025-20565	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#352	Oil	Vertical	Plugged, Site Released	35	T195	R34E	J	J-35-19S-34E 1980 FSL 1980 FEL	J-35-19S-34E 1980 FSL 1980 FEL	QUEEN	5268	5268
30-025-23319	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	35	T195	R34E	J	J-35-19S-34E 2310 FSL 1800 FEL	J-35-19S-34E 0 FSL 1800 FEL	BONE SPRING	13980	
30-025-33662	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT	#040	Oil	Vertical	Cancelled Apd	26	T195	R34E	0	O-26-19S-34E 1000 FSL 1400 FEL	O-26-19S-34E 1000 FSL 1400 FEL	QUEEN	6000	6000
30-025-21859	BP AMERICA PRODUCTION COMPANY	MESCALERO RIDGE UNIT	#017	Salt Water Disposal	Vertical	Plugged, Site Released	35	T195	R34E	G	G-35-19S-34E 1980 FNL 1650 FEL	G-35-19S-34E 1980 FNL 1650 FEL	SEVEN RIVERS	4040	4040
30-025-33660	BXP Operating, LLC	MESCALERO RIDGE UNIT	#023	Oil	Vertical	Active	35	T195	R34E	A	A-35-19S-34E 1300 FNL 1300 FEL	A-35-19S-34E 1300 FNL 1300 FEL	QUEEN	5215	5215
30-025-33661	BXP Operating, LLC	MESCALERO RIDGE UNIT	#024	Oil	Vertical	Active	35	T195	R34E	н	H-35-19S-34E 2620 FNL 1300 FEL	H-35-19S-34E 2620 FNL 1300 FEL	QUEEN	5200	5200
30-025-21798	BXP Operating, LLC	MESCALERO RIDGE UNIT	#262	Oil	Vertical	Active	26	T195	R34E	Р	P-26-19S-34E 330 FSL 660 FEL	P-26-19S-34E 330 FSL 660 FEL	QUEEN	5150	5150
30-025-21683	BXP Operating, LLC	MESCALERO RIDGE UNIT	#015	Injection	Vertical	Active	35	T195	R34E	A	A-35-19S-34E 660 FNL 660 FEL	A-35-19S-34E 660 FNL 660 FEL	QUEEN	5135	5135
30-025-39895	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#020D	Oil	Horizontal	Cancelled Apd	34	T195	R34E	D	D-34-19S-34E 730 FNL 330 FWL	A-34-19S-34E 330 FNL 330 FEL	BONE SPRING	15397	10840
30-025-42604	CIMAREX ENERGY CO.	MALLON 27 FEDERAL COM	#004H	Oil	Horizontal	New	27	T195	R34E	м	M-27-19S-34E 305 FSL 450 FWL	E-27-19S-34E 1650 FNL 450 FWL	BONE SPRING	13970	
30-025-30725	Contango Resources, LLC	STIVASON FEDERAL	#005	Oil	Vertical	Approved Temporary Abandonment	27	T195	R34E	м	M-27-19S-34E 660 FSL 550 FWL	M-27-19S-34E 660 FSL 550 FWL	QUEEN	5115	5115
30-025-30918	MERIT ENERGY COMPANY, LLC	WEST PEARL FEDERAL	#001	Oil	Vertical	Plugged, Site Released	27	T195	R34E	L	L-27-19S-34E 1980 FSL 660 FWL	L-27-19S-34E 1980 FSL 660 FWL	SEVEN RIVERS	5300	5300
30-025-34678	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#014	Oil	Vertical	Cancelled Apd	27	T195	R34E	м	M-27-19S-34E 660 FSL 660 FWL	M-27-19S-34E 660 FSL 660 FWL	BONE SPRING	10300	
30-025-32654	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL	#003	Oil	Vertical	Cancelled Apd	27	T195	R34E	E	E-27-19S-34E 1980 FNL 660 FWL	E-27-19S-34E 1980 FNL 660 FWL	DELAWARE	8300	8300
30-025-34300	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#003	Oil	Vertical	Cancelled Apd	27	T195	R34E	E	E-27-19S-34E 1980 FNL 660 FWL	E-27-19S-34E 1980 FNL 660 FWL	DELAWARE	8300	8300
30-025-32605	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001	Salt Water Disposal	Vertical	Plugged, Site Released	34	T195	R34E	D	D-34-19S-34E 660 FNL 990 FWL	D-34-19S-34E 660 FNL 990 FWL	DELAWARE	6306	6306
30-025-32616	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#005	Oil	Vertical	Cancelled Apd	34 27	T195	R34E R34E	E	E-34-19S-34E 1980 FNL 660 FWL N-27-19S-34E 990 FSL 1980 FWI	E-34-19S-34E 1980 FNL 660 FWL N-27-19S-34E 990 FSL 1980 FWI	BONE SPRING	10300 6200	10300 6200
30-025-34349 30-025-32652	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL MALLON 27 FEDERAL	#001 #001	Oil	Vertical Vertical	Cancelled Apd Cancelled Apd	27	T195	R34E	N	N-27-195-34E 990 FSL 1980 FWL N-27-195-34E 990 FSL 1980 FWL	N-27-195-34E 990 FSL 1980 FWL N-27-195-34E 990 FSL 1980 FWL	DELAWARE	6200	6200
30-025-32815	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	34	T195	R34E	ĸ	K-34-19S-34E 1980 FSL 1980 FWL	K-34-19S-34E 1980 FSL 1980 FWL	DELAWARE	6270	6270
30-025-32617	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#013	Oil	Vertical	Plugged, Site Released	34	T193	R34E	C	C-34-195-34E 660 FNL 1980 FWL	C-34-195-34E 660 FNL 1980 FWL	DELAWARE	8312	8312
30-025-41808	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#000 #003H	Oil	Horizontal	Active	27	T195	R34E	N	N-27-195-34E 260 FSL 2080 FWL	C-22-19S-34E 2316 FSL 1923 FWL	BONE SPRING	18260	10798
30-025-32615	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#004	Oil	Vertical	Cancelled Apd	34	T195	R34E	F	F-34-19S-34E 1980 FNL 1980 FWL	F-34-195-34E 1980 FNL 1980 FWL	DELAWARE	6200	6200
30-025-33737	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#004	Oil	Vertical	Plugged, Site Released	27	T195	R34E	0	0-27-19S-34E 660 FSL 1980 FEL	0-27-19S-34E 660 FSL 1980 FEL	QUEEN	7100	7100
30-025-42315	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#002H	Oil	Horizontal	Active	27	T195	R34E	0	0-27-195-34E 330 FSL 1980 FEL	J-22-19S-34E 2310 FSL 1900 FEL	BONE SPRING	18297	10752
30-025-32784	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#009	Oil	Vertical	Plugged, Site Released	34	T195	R34E	G	G-34-19S-34E 1980 FNL 1980 FEL	G-34-19S-34E 1980 FNL 1980 FEL	DELAWARE	10395	10395
30-025-32783	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#008	Oil	Vertical	Active	34	T195	R34E	J	J-34-19S-34E 1980 FSL 1980 FEL	J-34-19S-34E 1980 FSL 1980 FEL	DELAWARE	6300	6300
30-025-32786	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#011	Oil	Vertical	Active	34	T195	R34E	В	B-34-19S-34E 990 FNL 1650 FEL	B-34-19S-34E 990 FNL 1650 FEL	DELAWARE	7044	7044
30-025-32653	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#002	Oil	Vertical	Plugged, Site Released	27	T195	R34E	Р	P-27-19S-34E 660 FSL 990 FEL	P-27-19S-34E 660 FSL 990 FEL	DELAWARE	7100	7100
30-025-32782	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#007	Oil	Vertical	Plugged, Site Released	34	T195	R34E	н	H-34-19S-34E 1980 FNL 860 FEL	H-34-19S-34E 1980 FNL 860 FEL	DELAWARE	6300	6300
30-025-32785	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#010	Oil	Vertical	Plugged, Site Released	34	T195	R34E	Р	P-34-19S-34E 660 FSL 660 FEL	P-34-19S-34E 660 FSL 660 FEL	DELAWARE	6340	6340
30-025-39894	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#019H	Oil	Horizontal	Active	34	T195	R34E	н	H-34-19S-34E 1690 FNL 720 FEL	E-34-19S-34E 1990 FNL 4915 FEL	BONE SPRING	15025	
30-025-42212	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#001H	Oil	Horizontal	Active	27	T195	R34E	Р	P-27-19S-34E 330 FSL 660 FEL	I-22-19S-34E 2310 FSL 660 FEL	BONE SPRING	18255	10795
30-025-32606	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#002	Oil	Vertical	Active	34	T195	R34E	A	A-34-19S-34E 660 FNL 660 FEL	A-34-19S-34E 660 FNL 660 FEL	DELAWARE	6313	6313
30-025-32607	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#003	Oil	Vertical	Active	34	T195	R34E	1	I-34-19S-34E 1980 FSL 660 FEL	I-34-19S-34E 1980 FSL 660 FEL	DELAWARE	6300	6300
30-025-42804	NADEL AND GUSSMAN HEYCO, LLC	HARLEQUIN 27 22 FEDERAL	#001C	Oil	Horizontal	Cancelled Apd	27	T195	R34E	н	H-27-19S-34E 2591 FNL 510 FEL	I-22-19S-34E 2311 FSL 510 FEL	BONE SPRING	15190	10800
30-025-40135	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#020H	Oil	Horizontal	Active	34	T195	R34E	A	A-34-19S-34E 380 FNL 330 FEL	D-34-19S-34E 760 FNL 4925 FEL	BONE SPRING	15352	10870
30-025-21793	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	34	T195	R34E	н	H-34-19S-34E 1980 FNL 660 FEL	H-34-19S-34E 1980 FNL 660 FEL	QUEEN	5150	5150
30-025-40086	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#007H	Oil	Horizontal	Active	35	T195	R34E	D	D-35-19S-34E 585 FNL 330 FWL	A-35-19S-34E 574 FNL 4940 FWL	BONE SPRING	15359	10913
30-025-33046 30-025-40084	DEVON ENERGY PRODUCTION COMPANY, LP CIMAREX ENERGY CO. OF COLORADO	MESCALERO RIDGE UNIT MALLON 35 FEDERAL	#019 #005H	Oil	Vertical Horizontal	Cancelled Apd	35 35	T195 T195	R34E R34E	D	D-35-19S-34E 550 FNL 330 FWL L-35-19S-34E 1980 FSL 330 FWL	D-35-19S-34E 550 FNL 330 FWL I-35-19S-34E 1980 FSL 510 FEL	DELAWARE BONE SPRING	6300 15349	6300 10990
30-025-32983	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL MALLON 35 FEDERAL	#005H #001	Oil	Vertical	Cancelled Apd Plugged, Site Released	35	T195	R34E	D	D-35-195-34E 1980 FSL 330 FWL D-35-195-34E 660 FNL 660 FWL	D-35-195-34E 1980 FSL 510 FEL D-35-195-34E 660 FNL 660 FWL	DELAWARE	8330	8330
30-025-32983	BLACK HILLS GAS RESOURCES, INC.	MALLON 35 FEDERAL MALLON 35 FEDERAL	#001 #002	Oil	Vertical	Plugged, Site Released Plugged, Site Released	35	T195	R34E	E	E-35-195-34E 660 FNL 660 FWL E-35-19S-34E 1650 FNL 660 FWL	E-35-195-34E 1650 FNL 660 FWL	DELAWARE	8330	8330
30-025-32984	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Vertical	Plugged, Site Released	26	T195	R34E	E	E-26-19S-34E 1980 FNL 660 FWL	E-26-195-34E 1050 FNL 660 FWL	OUFEN	5200	5200
30-025-32985	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#003	Oil	Vertical	Plugged, Site Released	35	T195	R34E	1	L-35-195-34E 2310 FSL 660 FWL	L-35-195-34E 2310 FSL 660 FWL	DELAWARE	8330	8330
30-025-40085	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005 #006H	Oil	Horizontal	Cancelled Apd	35	T195	R34E	E	E-35-195-34E 2310 FNL 330 FWL	H-35-195-34E 1980 FNL 510 FEL	BONE SPRING	15362	
30-025-21267	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#013	Oil	Vertical	Plugged, Site Released	35	T195	R34E	L	L-35-195-34E 1980 FSL 990 FWL	L-35-19S-34E 1980 FSL 990 FWL	QUEEN	5200	5200
30-025-21613	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#014	Oil	Vertical	Plugged, Site Released	35	T195	R34E	D	D-35-19S-34E 660 FNL 990 FWL	D-35-19S-34E 660 FNL 990 FWL	QUEEN	5050	5050
30-025-21266	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#012	Injection	Vertical	Plugged, Site Released	35	T195	R34E	E	E-35-19S-34E 1980 FNL 990 FWL	E-35-19S-34E 1980 FNL 990 FWL	QUEEN	5200	5200
30-025-22333	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT	#007	Injection	Vertical	Plugged, Site Released	26	T195	R34E	м	M-26-19S-34E 990 FSL 990 FWL	M-26-19S-34E 990 FSL 990 FWL	QUEEN	5031	5031
30-025-22449	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	Vertical	Plugged, Site Released	26	T195	R34E	L	L-26-19S-34E 1980 FSL 990 FWL	L-26-19S-34E 1980 FSL 990 FWL	QUEEN	5035	5035
30-025-32987	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005C	Oil	Vertical	Cancelled Apd	35	T195	R34E	С	C-35-19S-34E 400 FNL 1680 FWL	C-35-19S-34E 400 FNL 1680 FWL	DELAWARE	8200	8200
30-025-32988	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#006F	Oil	Vertical	Cancelled Apd	35	T195	R34E	F	F-35-19S-34E 1720 FNL 1680 FWL	F-35-19S-34E 1720 FNL 1680 FWL	DELAWARE	8200	8200
30-025-21072	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#005	Oil	Vertical	Plugged, Site Released	35	T195	R34E	F	F-35-19S-34E 1980 FNL 1980 FWL	F-35-19S-34E 0 FNL 1980 FWL	QUEEN	5286	5286
30-025-22005	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Vertical	Plugged, Site Released	26	T195	R34E	N	N-26-19S-34E 330 FSL 1980 FWL	N-26-19S-34E 0 FSL 1980 FWL	QUEEN	5220	5220
30-025-20693	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#356	Injection	Vertical	Plugged, Site Released	35	T195	R34E	С	C-35-19S-34E 660 FNL 1980 FWL	C-35-19S-34E 660 FNL 1980 FWL	QUEEN	5250	5250
30-025-27204	BXP Operating, LLC	MESCALERO RIDGE UNIT	#269	Oil	Vertical	Active	26	T195	R34E	N	N-26-19S-34E 330 FSL 2030 FWL	N-26-19S-34E 330 FSL 2030 FWL	QUEEN	5218	5218
30-025-29517	BXP Operating, LLC	MESCALERO RIDGE UNIT	#018	Oil	Vertical	Active	35	T195	R34E	F	F-35-19S-34E 2240 FNL 2030 FWL	F-35-195-34E 2240 FNL 2030 FWL	QUEEN	5250	5250
30-025-20695	BXP Operating, LLC	MESCALERO RIDGE UNIT	#358	Injection	Vertical Vertical	Active	35 26	T195	R34E R34E	К	K-35-19S-34E 1980 FSL 1980 FWL	K-35-19S-34E 1980 FSL 1980 FWL	QUEEN	5232	5232 5174
30-025-22081	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	#265	Injection	vertical	Plugged, Site Released	20	T195	K34E	К	K-26-19S-34E 1650 FSL 1980 FWL	K-26-19S-34E 1650 FSL 1980 FWL	QUEEN	1 51/4	J 21/4

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## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced O=orphaned, C=the file is	(quar						IE 3=SW	-				
water right file.)	closed)	(quar	ters	s ar	e s	mall	est to	largest)	(NAD8	3 UTM in meters)		(In feet)	
	POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin C	ounty	64	16	4	Sec	Tws	Rng	Х	Y	Well	Water 0	Column
CP 00683 POD1	CP	LE	3	3	4	25	19S	34E	639530	3610685* 🌍	120	28	92
CP 00806 POD1	CP	LE		4	4	04	19S	34E	635109	3617151* 🌍	50		
CP 00811 POD1	CP	LE		4	4	09	19S	34E	635132	3615542* 🌍	50		
<u>CP 00875</u>	CP	LE	3	4	3	05	19S	34E	632592	3617013* 🌍	200		
CP 01672 POD1	CP	LE	1	3	1	36	19S	34E	638736	3610009 🌍	100		
L 04059	L	LE		4	1	12	19S	34E	639146	3616412* 🌍	125	60	65
<u>L 04723</u>	L	LE	1	1	1	11	19S	34E	637026	3616880* 🌍	145	123	22
L 06731	L	LE	3	2	2	12	19S	34E	639844	3616727* 🌍	120	80	40
<u>L 07213</u>	L	LE	4	1	4	31	19S	34E	631700	3609351* 🌍	160	110	50
L 10347	L	LE		2	3	03	19S	34E	635909	3617566* 🌍	130		
<u>L 10380</u>	L	LE	4	4	4	02	19S	34E	638428	3617102* 🌍	153	100	53
L 12103 POD1	L	LE	3	3	4	02	19S	34E	637920	3617173 🌍	120		
										Average Depth to	Water:	83 fe	et
										Minimum	Depth:	28 fe	et
										Maximum	Depth:	123 fe	et

#### Record Count: 12

#### PLSS Search:

Township: 19S

Range: 34E

#### \*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.

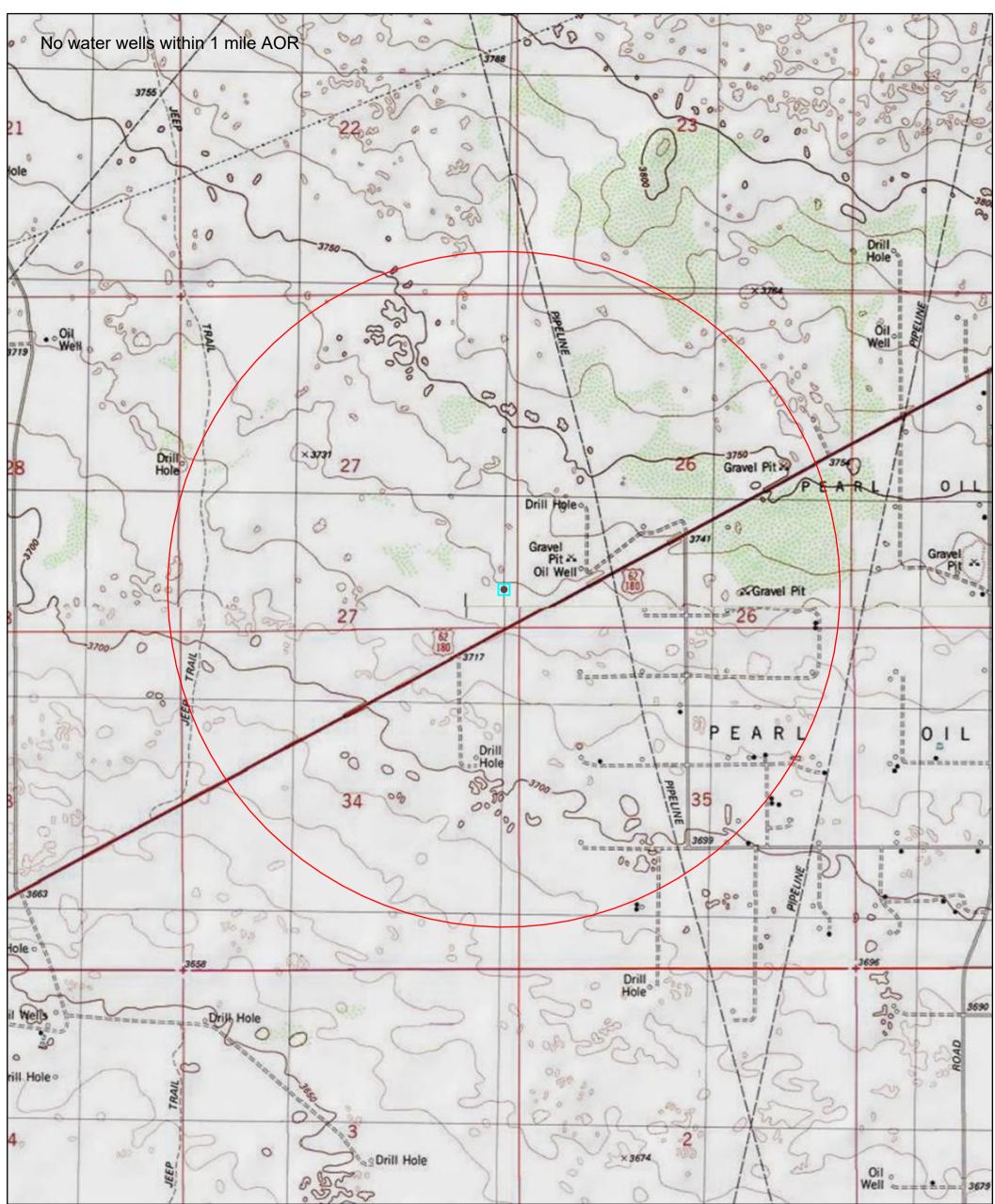
Exhibit 2.G

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Page 1 of 1

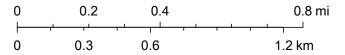
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XI.



## 5/23/2023, 7:03:27 PM SiteBoundaries

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Web Generated Map Map is generated by web users.

VII (4)

#### Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

	<b>Regional So</b>	urce Water Anal	ysis	
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	208	258	19S	20S
Range	34E	29E	34E	29E
Unit	М	0	М	Е
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
pН	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	

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

<b>Devonian Injection Zone Water Analysis</b>					
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	208	208		
Range	29E	34E	34E		
Unit	М	В	В		
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		

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	31	32	33	34	35	36	31	32	33
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	19	20	21	22	23	24	19	20	21
	30	29	28	27	26	25	30	29	28
	31	32	33	34	35	36	31	32	33
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# Tab 3: Direct Written Testimony of Gary Fisher

### 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. 23808 (BELATED)

#### **DIRECT WRITTEN TESTIMONY OF GARY FISHER**

Gary Fisher hereby states and declares as follows:

1. I am over the age of 18, I am the President of Permian Oilfield Partners, LLC ("Permian"), and I have personal knowledge of the matters stated herein.

2. I have worked for Permian since November 2018.

3. I have previously testified before the Oil Conservation Division ("Division") and my credentials as an expert in geology log analysis and fault slip analysis have been accepted as a matter of record.

4. To briefly reiterate my credentials, I have over 30 years experience in the oil and gas field, including more recently, injection of produced water. I have a degree in mechanical engineering from the University of Southern California. After graduation, I worked for Schlumberger where I did open-hole logging, log analysis, interpretation of geology logs, etc. I was then employed by Numar Corporation (Halliburton) where my responsibilities again included logging and log analysis, geology, and geologic interpretations for customers. After that, I was employed by Core Labs where I was involved in fracture diagnostics, especially as related to hydraulic fracturing and correlation with microseismic. Immediately before joining Permian, I worked for Pioneer Energy Services where I did open-hole log analysis, geology, internal

## <sup>1</sup> Exhibit 3

instruction for the employees and also to other customers on log interpretation, geology, completion designs, many of which were for saltwater disposal. While at Pioneer, I was also involved in several special projects, one of which was an induced seismicity study in Oklahoma regarding all the Arbuckle injection problems. I authored the saltwater disposal logging and the MIT, or mechanical integrity test, procedures, which were incorporated by the Oklahoma Corporation Commission guidelines.

5. I have been a member of the Society of Petrophysicists and Well Log Analysts and I have been a member of the Society of Petroleum Engineers for 21 years. I have also been a contributing editor to the AESC green book. I have also been a member- presenter with the SPWLA Nuclear Special Interest Group.

6. In sum, my experience focuses on geology log analysis, fracture propagation, and induced seismicity.

7. As President of Permian, my responsibilities include management and oversight of drilling saltwater disposal wells.

8. I have prepared and submitted geology and seismic studies for Permian applications in numerous hearing examiner cases and in numerous administrative applications.

9. The Division has accepted the studies I have prepared in support of Permian applications.

10. I have been directly involved in the permitting, drilling and/or completion of approximately 50 saltwater disposal wells, both before I worked with Permian and with Permian.

11. My area of responsibility at Permian includes the area of Lea County in New Mexico.

12. I am familiar with the application Permian filed in this matter and I am familiar with the saltwater disposal well that is the subject of the application.

13. I submit the following information in support of Permian's request for an order approving drilling the Belated Federal SWD Well #1 in Lea County, New Mexico. I understand that this document, the information contained herein, and the exhibits attached to this document constitute my direct testimony in this case.

14. Permian proposes to drill the Belated Federal SWD Well #1 at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a produced water disposal well. Permian seeks authority to inject produced water into the Silurian-Devonian formation at a depth of approximately 14,639 feet to 15,841 feet.

15. I reviewed the geology of this area and prepared a study of the geology. The geology summary I prepared was submitted with the C-108, and I have excerpted that information as **Exhibit 3.A.** 

16. Based on my geology study, I have concluded that the Silurian-Devonian formation is well suited for SWD purposes for several reasons. First, there have been a number of successfully drilled and operated Devonian wells in this area.

17. Second, the thickness of the injection zone is approximately 1,260 feet, which makes it well suited for the volumes and pressure Permian is requesting. The Devonian consists of dolomitic and limestone carbonates & chert and the Silurian consists of Fusselman dolomite.

18. 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.

19. Permeabilities in the Devonian do not necessarily correlate to high porosity. It is expected that the Devonian will be fractured, and the high porosity (10%) intervals can have similar permeabilities to the low porosity (2-3%) intervals. A conservative average permeability of 20 mD is used for fault slip analysis purposes, with an average porosity of 5.4% used based on log data from similar wells in the region.

20. Third, there are very strong upper and lower confining zones. The Woodford Shale is a very strong upper bound. The lower confining zones include the Upper Ordovician Montoya, which is very tight lined. 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. Below the Montoya is the Simpson, which is mostly shale, and will act as an additional barrier to keep injected fluids from penetrating the Cambrian or Bliss or Precambrian rocks.

- 21. The Upper Devonian Woodford shale in this area is approximately 158 feet thick.
- 22. The Upper Ordovician Montoya in this area is approximately 400 feet thick.
- 23. The Simpson in this area is approximately 500 feet thick.

24. In sum, 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.

25. I also analyzed whether there is risk to freshwater resources if the Well is drilled and concluded that there is no risk due to the Well's casing design, as well as the permeability barriers above the injection zone.

26. I examined available geologic and engineering data and found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. *See* **Exhibit 3.B** attached hereto, which is excerpted from the C-108.

27. In my opinion, operating the Well will not impact the correlative rights of mineral owners for several reasons. First, I analyzed whether there are any productive shales in the injection interval, and there are none. Second, I concluded that there is no risk to hydrocarbons above the injection interval, such as the Wolfcamp or Bone Spring because the Woodford will act as an upper hydraulic seal to the injection, and also the casing design takes that into account, and the cement job will seal that off.

28. I also prepared a statement regarding seismicity, which was included in the C-108, and which I have revised as discussed in herein.

29. The Well is not located within any current Seismicity Response Area.

30. The Seismicity Statement I prepared essentially models the probability of fault slip—fault slip is the displacement or movement of rock on each side of a fault. Fault slip potential or probability is the likelihood of a seismic event.

31. I undertook two analyses as part of the Seismicity Statement—a "desktop" review and modeling the fault slip potential.

32. As part of the desktop review, I reviewed the USGS and TexNext databases which showed no historic seismic activity >M2.0 in the area (5.64 mile radius, 25 sq. mile) of the Well,

with one M2.2 event recorded 5.6 miles southeast of the Well in August 2021. I also reviewed the USGS Quaternary Fault & Fold database, which shows no quaternary faults in the nearby area.

33. 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. I correlated fault data 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.

34. Based on this desktop review, I concluded the closest known fault is approximately 0.6 miles to the west of the Well. 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.

35. While Permian does not have 2D or 3D seismic data, and as Mr. Puryear testified none exists that is available for Permian to acquire, I have no reason to doubt the location of the closest fault based on the materials I reviewed.

36. I understand that Matador has asserted it has 3D seismic in this area but Matador has not shared that information or any conclusions Matador has reached from that data with Permian. If Matador has additional information on faults in this area, I would be happy to discuss that information with Matador and we have offered to meet with Matador any time they are available, but to date, Matador has not been willing to meet with us.

37. To model the fault slip potential, I used a publicly available version of the Stanford Center for Induced and Triggered Seismicity Fault slip Potential ("FSP") software tool. The

Stanford FSP tool has been used by Permian and other SWD operators to prepare seismic studies presented to the Division and the Division has accepted the use of this modeling tool. In fact, the Stanford FSP analysis has been widely accepted as a modeling tool for probabilistically screening faults near injection wells.

38. The FSP tool models fault slip potential based on a number of inputs, including the thickness of the injection zone, the injection rate, the porosity, friction coefficients, fluid densities, viscosities, the location and orientation of the closest fault, etc.

39. One of the assumptions for the modeling is the injection from the proposed Well and other wells. When I prepared my original Seismicity Statement, I included injection from the proposed Well (at maximum injection of 50,000 bbl/day), the Quail 16 State SWD #9 (at its average injection rate), and the Coombes SWD (30,000 bbl/day rate). I have prepared a revised Seismic Statement, attached as **Exhibit 3.C**, which includes three additional existing injection wells (the Wildrye Fee SWD #1, the Wild Cobra 1 State SWD #2, and the Libby Berry Fee SWD #2). I used these wells' average injection rates. I also included Permian's proposed Overdue Federal SWD #1 at its maximum injection rate.

40. The inputs I used are included in Exhibit 3.C.

41. I also wanted to model a "worst-case" scenario, so I set some of the specification to show the maximum pressure, which would only occur if all of the fluid was injected straight down through the Montoya, through the Simpson, through the Ellenburger, all the way down into the basement faults. As I testified above, there are no known faults in this area in the Devonian-Silurian, but for purposes of the PFS, I assumed that faults penetrated the Devonian-Silurian injection zone. Again, this is a worst case scenario.

42. I modeled FSP and probabilistic hydrology over time as shown in the screen shots in Exhibit 3.C. The probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years.

43. The addition of the Wildrye Fee SWD #1, the Wild Cobra 1 State SWD #2, the Libby Berry Fee SWD #2, and Permian's proposed Overdue Federal SWD #1 did not change the modeling results— the probability of an induced seismic event is calculated to be 0% after 5, 10, 20, & 30 years.

44. I attest that the information provided herein is correct and complete to the best of my knowledge and belief.

45. In my opinion, the granting of Permian's application is in the interests of conservation and the prevention of waste. The Well will provide much needed capacity for produced water, which will, in turn, support oil and gas operators' ability to produce oil and gas. Conversely, constraints on disposal could lead to negative impacts on operators in the area and their ability to effectively and efficiently produce resources that they have under lease.

46. The attached exhibits were prepared by me, or compiled from company business records, or were prepared at my direction.

[Signature page follows]

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I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: October 12, 2023

Gary Fisher

\_\_\_\_\_

## VIII:

1. 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					
	ТОР	BOTTOM	THICKNESS		
FORMATION	KB TVD (ft)	KB TVD (ft)	(ft)		
Rustler	1,695	2,161	466		
Salado	2,161	3,438	1,277		
Delaware	5,459	8,216	2,757		
<b>Bone Spring</b>	8,216	10,929	2,713		
Wolfcamp	10,929	12,222	1,293		
Lwr. Mississippian	13,867	14,446	579		
Woodford	14,446	14,604	158		
Devonian	14,604	15,505	901		
Fusselman (Silurian)	15,505	15,866	361		
Montoya (U. Ordovician)	15,866	16,266	400		
Simpson (M. Ordovician	16,266	16,766	500		

2. Regional shallow fresh water in the Quaternary is known to exist at depths less than <u>200</u>'. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 14,404'. There is no USDW present below the injection interval.

## Exhibit 3.A



#### Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, 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.

Lay Ertihn

Gary Fisher Manager Permian Oilfield Partners, LLC.

Date: 7/5/2023

## Exhibit 3.B



Attachment to C-108 Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, R34E Lea County, NM

June 10, 2023 (as revised 10/12/2023)

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMT seismic activity databases shows minimal historic seismic activity >M2.0 in the area (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, with one M2.2 event recorded 5.6 mi SE of the proposed well in August 2021. This proposed well is not located within any current Seismic Response Area.

As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.1 miles away from the nearest active or permitted Devonian disposal well (Fasken Quail 16 State SWD #9, SWD-1537).

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.
- 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.

## Exhibit 3.C

There is one known fault within the area of interest (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, approximately 0.6 mi (1.0 km) to the west.

- Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for probabilistic estimation of fault slip potential resulting from fluid injection", was used to calculate the probability of the fault being stressed so as to create an induced seismic event.
- 2. Devonian wells as noted in the table below are included in the FSP analysis. Both the Belated Fed SWD application and the Overdue Fed SWD application were modeled assuming simultaneous injection. Interval depth is the lesser of the Belated & Overdue, and interval height is the lesser of the Belated & Overdue.

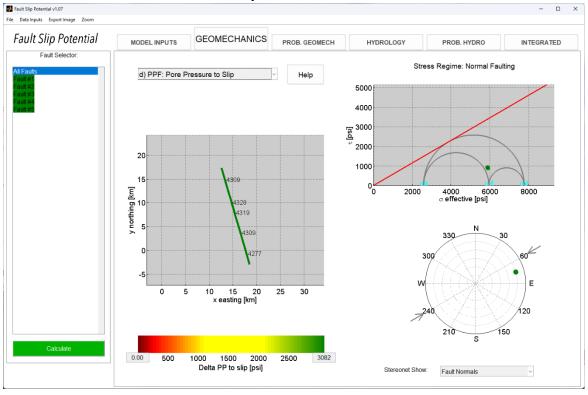
UIC Order	Well Name	PLSS	Lat	Lon	Rate (bbl/day)
SWD-1537	Quail 16 State SWD #9	16-20S-34E	32.5687732	-103.5662994	1,800
SWD-1996	Coombes SWD #1	22-20S-33E	32.5558627	-103.6431607	30,000
SWD-2369	Wildrye Fee SWD #1	20-19S-35E	32.6521540	-103.4716360	25,000
SWD-1525	Wild Cobra 1 State SWD #2	1-19S-34E	32.6952372	-103.5170732	2,500
SWD-1777	Libby Berry Fee SWD #2	22-20S-34E	32.5644180	-103.5403940	15,870
Pending	Belated Federal SWD #1	27-19S-34E	32.6257672	-103.5401562	50,000
Pending	Overdue Federal SWD #1	5-20D-34E	32.6077848	-103.5747341	50,000

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

### Input assumptions:

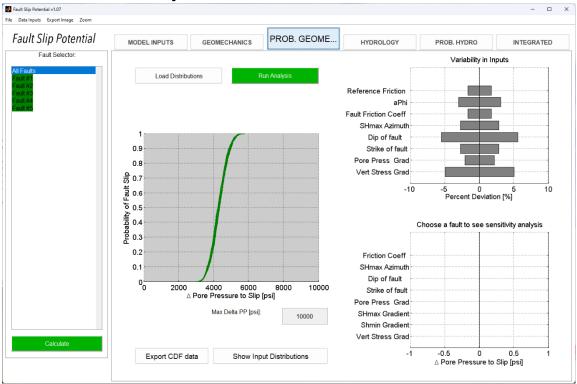
Interval height (ft)	1229
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.0
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14604
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	20
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

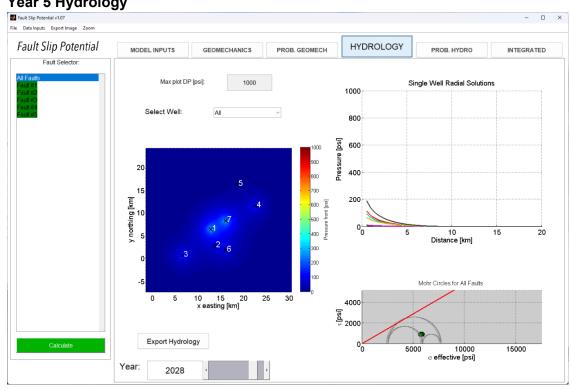
Note: In screenshots below, Injection Well #1: Prop. Overdue Fed SWD #1 Injection Well #2: Quail 16 State SWD #9 Injection Well #3: Coombes SWD #1 Injection Well #4: Wildrye Fee SWD #1 Injection Well #5: Wild Cobra 1 State SWD #2 Injection Well #6: Libby Berry Fee SWD #2 Injection Well #7: Prop. Belated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



#### **Geomechanics Pore Pressure to Slip**

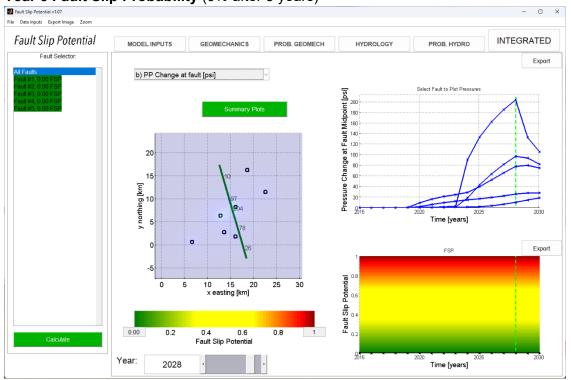
## **GeoMechanics Variability**



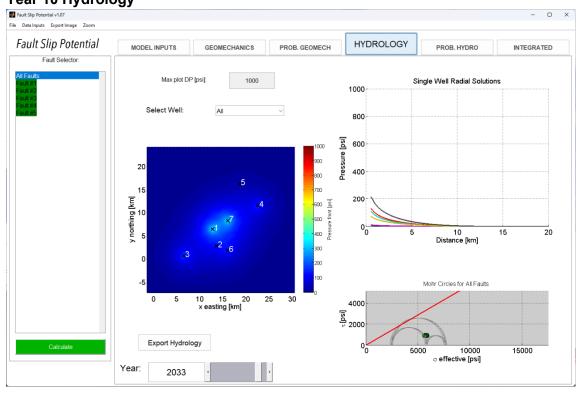


Year 5 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)

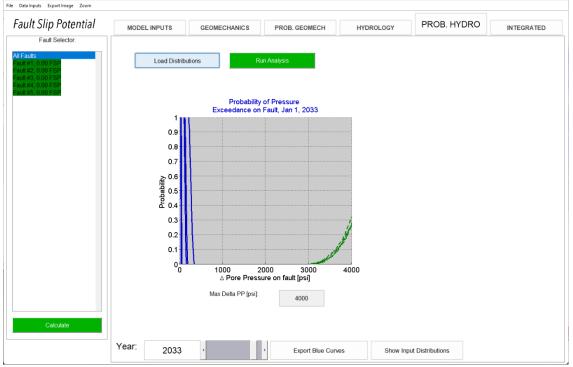




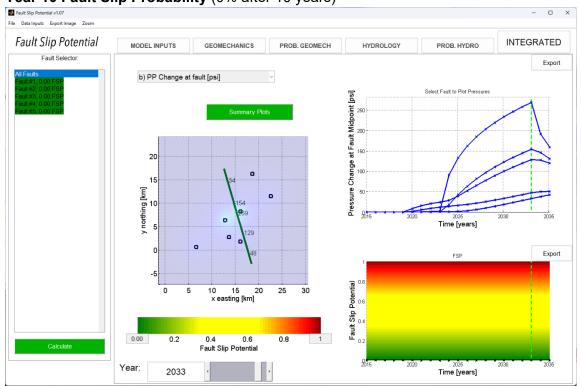
## Year 5 Fault Slip Probability (0% after 5 years)



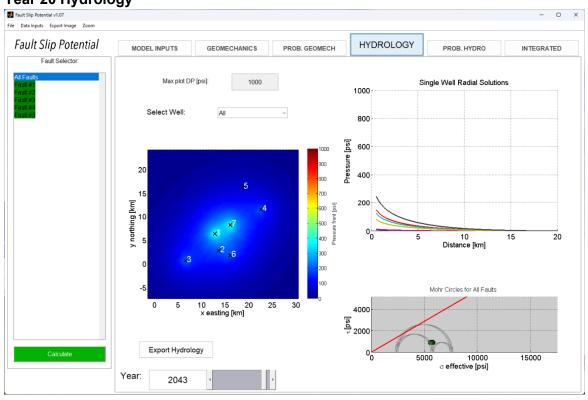
Year 10 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



### Year 10 Hydrology



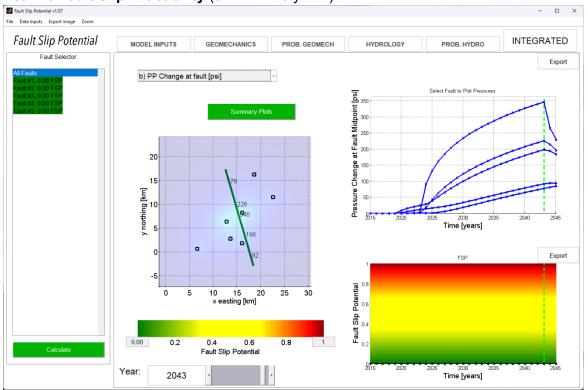
Year 10 Fault Slip Probability (0% after 10 years)



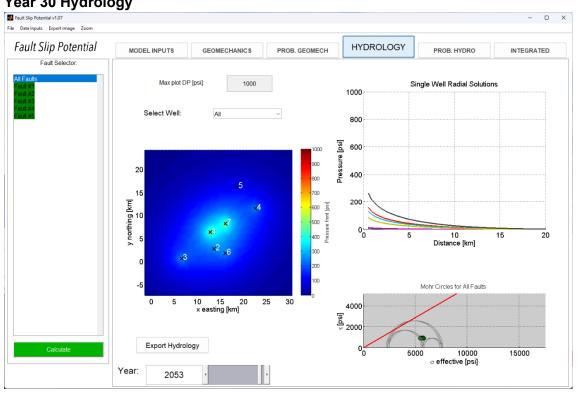
## Year 20 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.)



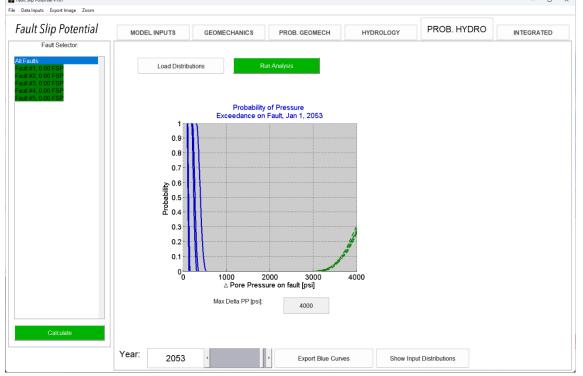
## Year 20 Hydrology

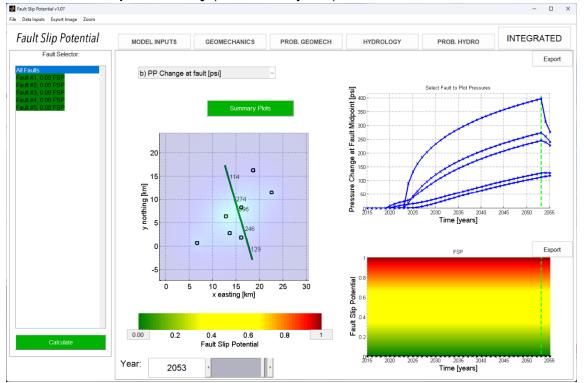


Year 20 Fault Slip Probability (0% after 20 years)



Year 30 Probabilistic Hydrology (note no crossover between blue delta-press. & green fault slip press.) Fault Slip Potential v1.07 





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

Hay Er Tichen

gfisher@popmidstream.com (817) 606-7630

# **Tab 4: Notice Materials**

### 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. 23808

## SELF-AFFIRMED DECLARATION OF DEANA M. BENNETT

Deana M. Bennett, attorney in fact and authorized representative of Permian Oilfield Partners, LLC, the Applicant herein, declares as follows:

1) The above-referenced Application was provided under notice letter, dated September 28,

2023, and attached hereto, as Exhibit A.

2) Exhibit B is the mailing list, which show the notice letters were delivered to the USPS for mailing on September 28, 2023.

3) Exhibit C is the certified mailing tracking information, which is automatically complied

by CertifiedPro, the software Modrall uses to track the mailings. This shows the names and addresses of the parties to whom notice was sent and proof of delivery.

4) Exhibit D is the Affidavit of Publication from the Hobbs News-Sun, confirming that notice of the October 19, 2023 hearing was published on September 29, 2023.

5) I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: October 12, 2023

Deona H Bennett

Deana M. Bennett



September 28, 2023

### <u>VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED</u>

Deana M. Bennett 505.848.1834 dmb@modrall.com

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

#### **CASE NO. 23808**

#### **TO: AFFECTED PARTIES**

This letter is to advise you that Permian Oilfield Partners, LLC ("Permian") has filed the enclosed application.

In Case No. 23808, Permian seeks an order approving disposal into the Silurian-Devonian formation through the Belated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 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 14,639 feet to 15,841 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.

The hearing will be conducted remotely on October 19, 2023 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <u>https://www.emnrd.nm.gov/ocd/hearing-info/</u>. This hearing is subject to continuance by the Division to a subsequent docket date.

As a party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Exhibit 4.A

EXHIBIT sepper Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel: 505.848.1800 www.modrall.com

#### Page 2

You are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

Neona M. Bennett

Deana M. Bennett Attorney for Applicant

#### 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. 23808

#### **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 Belated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 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 14,639 feet to 15,841 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 2,927 psi for the well.

(5) On or about July 10, 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 DivisionExaminer 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: Klema M Bennet

Deana M. Bennett Earl DeBrine, Jr. Post Office Box 2168 500 Fourth Street NW, Suite 1000 Albuquerque, New Mexico 87103-2168 Telephone: 505.848.1800 Deana.Bennett@modrall.com eed@modrall.com Attorneys for Applicant Received by OCD: 10/12/2023 11:08:29 PM Received by OCD: 9/5/2023 3:21:20 PM

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Released to Imaging: 9/5/2023 4:29:54 PM

CASE NO. <u>23808</u>: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 Belated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 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 14,639 feet to 15,841 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.

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	REVIEWER:	TYPE:	APP NO:
1	- Geologia	above THIS TABLE FOR OCD DAV O OIL CONSERVA cal & Engineering ancis Drive, Santa	TION DIVISION Bureau –
THIS C		L'ADMINISTRATIVE APPLICAT QUIRE PROCESSING AT THE D	IONS FOR EXCEPTIONS TO DIVISION RULES AND DIVISION LEVEL IN SANTA FE
Applicant: Permian O	ilfield Partners, LLC.		OGRID Number: 328259
Well Name: Belated			API: 30-025-Pending
Pool: SWD; Devonian-Sil	lurian		Pool Code: 97869
1) TYPE OF APPLIC	CATION: Check those v	INDICATED BELOW	
A. Location -	- Spacing Unit – Simulto SL 🛛 🗍 NSP(pro		
[   ] Comn [ [    ] Inje <u>c</u> t	e only for [1] or [1] ningling – Storage – Me DHC CTB PL ion – Disposal – Pressu WFX PMX SV	C PC OL re Increase – Enhar	nced Oil Recovery
A. Offset of B. Royalty C. Applica D. Notifica E. Notifica F. Surface G. For all of	<b>REQUIRED TO:</b> Check to operators or lease hold v, overriding royalty ow ation requires publishe ation and/or concurre ation and/or concurre owner of the above, proof of ice required	ders vners, revenue own d notice nt approval by SLC nt approval by BLM	ers Application Content
administrative of understand that	approval is <b>accurate</b> a	nd <b>complete</b> to the en on this applicati	nitted with this application for e best of my knowledge. I also on until the required information and
Note	e: Statement must be complete	ed by an individual with m	anagerial and/or supervisory capacity.
			7-10-2023 Date
Sean Puryear			
Sean Puryear Print or Type Name	)		Date 817-600-8772
Sean Puryear Print or Type Name		n	Date
Sean Puryear	3		Date 817-600-8772

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

#### **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**

- 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 Purvear SIGNATURE: Sam Fing

TITLE: Manager DATE: 7-10-2023

#### 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

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Exhibit A

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#### PHONE: (817) 600-8772

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 <u>14,604</u>'

Underlying Potentially Productive Zones: None

- IV: Is this an expansion of an existing project? No.
- V: See attached Area of Review Analysis.
- VI: There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

### VII:

- 1. The average injected volume anticipated is 40,000 BWPD. The maximum injected volume anticipated is 50,000 BWPD.
- 2. Injection will be through a closed system.
- 3. The average injection pressure anticipated is 2,000 psi. The proposed maximum injection pressure is 2,927 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:

1. 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.

GEO	DLOGY PR	OGNOSIS	
	ТОР	BOTTOM	THICKNESS
FORMATION	KB TVD (ft)	KB TVD (ft)	(ft)
Rustler	1,695	2,161	466
Salado	2,161	3,438	1,277
Delaware	5,459	8,216	2,757
Bone Spring	8,216	10,929	2,713
Wolfcamp	10,929	12,222	1,293
Lwr. Mississippian	13,867	14,446	579
Woodford	14,446	14,604	158
Devonian	14,604	15,505	901
Fusselman (Silurian)	15,505	15,866	361
Montoya (U. Ordovician)	15,866	16,266	400
Simpson (M. Ordovician	16,266	16,766	500

2. Regional shallow fresh water in the Quaternary is known to exist at depths less than <u>200</u><sup>'</sup>. See attached OSE Water Column Depth table for the region. Depth from the bottom of this USDW to the injection zone is 14,404<sup>'</sup>. 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  $\underline{0}$  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.



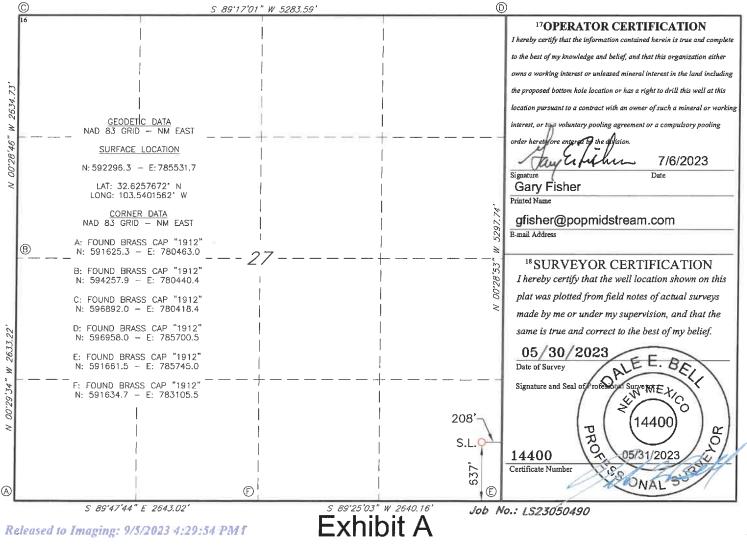
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis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

			VELL L	OCATIC	N AND ACI	REAGE DEDIC	CATION PLA	.T					
	<sup>1</sup> API Numbe	r		2Pool Cod	e	<sup>3</sup> Pool Name							
	97869 SWD; DEVONIAN-SILUR								RIAN				
4Property Co	ode				5 Property N	lame			6 Y	Vell Number			
				BE	BELATED FEDERAL SWD								
7OGRID	OGRID NO. 8 Operator Name 9Elevatio												
328259 PERMIAN OILFIELD PARTNERS, LLC 37										725'			
					<sup>10</sup> Surface	Location							
UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/Wes	t line	County			
Р	27	19S	34E		637	SOUTH	208	EAS	T	LEA			
			11 ]	Bottom I	Iole Location	If Different Fr	om Surface		//				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County			
2 Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	Code 15	Order No.	1							

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.



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III (A)

### WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

### Surface - (Conventional)

Hole Size: 26" Casing: 20" - 133# N-80 BTC Casing Depth Top: Surface Depth Btm: 1720' Cement: 3208 sks - Class C + Additives (100% Excess) Cement Top: Surface - (Circulate)

### Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 68# HCP-110 BTC Casing Depth Top: Surface Depth Btm: 5409' Cement: 2204 sks - Class C + Additives Cement Top: Surface - (Circulate)

cement rop. Surface (circulate)

### Intermediate #2 - (Conventional)

 Hole Size:
 12.25"
 Casing:
 9.625" - 40# HCP110 BTC Casing

 Depth Top:
 Surface
 ECP/DV Tool:
 5509'

 Cement:
 1693 sks - Class C + Additives

Cement Top: Surface - (Circulate)

### Intermediate #3 - (Liner)

Casing: 7.625" - 39# HCL-80 FJ Casing

Hole Size: 8.75" Casing: 7.625" - 39# H Depth Top: 10779' Depth Btm: 14639' Cement: 237 sks - Class H + Additives Cement Top: 10779' - (Circulate & Bond Log)

### Intermediate #4 - (Open Hole)

Hole Size: 6.5"

Inj. Interval: 14639' - 15841' (Open-Hole Completion)

### Tubing - (Tapered)

 Tubing Depth:
 14594'
 Tubing:
 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ

 X/O Depth:
 10779'
 Casing (Fiberglass Lined)

 X/O:
 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth:
 14604'
 Packer:
 5.5" - Perma-Pak or Equivalent (Inconel)

 Packer Fluid:
 8.4 ppg FW + Additives

Depth: 15841'



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# III (A)

### WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

Surface - (Con	ventional)
Hole Size:	26"
Casing:	20" - 133# N-80 BTC Casing
Depth Top:	Surface
Depth Btm:	1720'
Cement:	3208 sks - Class C + Additives (100% Excess)
Cement Top:	Surface - (Circulate)

### Intermediate #1 - (Conventional)

Hole Size:	17.5"
Casing:	13.375" - 68# HCP-110 BTC Casing
Depth Top:	Surface
Depth Btm:	5409'
Cement:	2204 sks - Class C + Additives
Cement Top:	Surface - (Circulate)

### Intermediate #2 - (Conventional)

Hole Size:	12.25"
Casing:	9.625" - 40# HCP110 BTC Casing
Depth Top:	Surface
Depth Btm:	10979'
Cement:	1693 sks - Class C + Additives
Cement Top:	Surface - (Circulate)
ECP/DV Tool:	5509'

### Intermediate #3 - (Liner)

 Hole Size:
 8.75"

 Casing:
 7.625" - 39# HCL-80 FJ Casing

 Depth Top:
 10779'

 Depth Btm:
 14639'

 Cement:
 237 sks - Class H + Additives

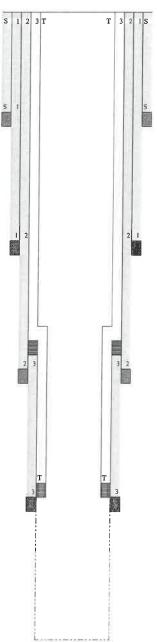
 Cement Top:
 10779' - (Circulate & Bond Log)

### Intermediate #4 - (Open Hole)

 Hole Size:
 6.5"

 Depth:
 15841'

 Inj. Interval:
 14639' - 15841' (Open-Hole Completion)



 Tubing - (Tapered)

 Tubing Depth:
 14594'

 Tubing:
 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 X/O Depth:
 10779'

 X/O:
 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)

 Packer Depth:
 14604'

 Packer:
 5.5" - Perma-Pak or Equivalent (Inconel)

 Packer Fluid:
 8.4 ppg FW + Additives





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XIII.



Statement of Notifications

Re: C-108 Application for SWD Well Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, R34E Lea County, NM

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

Notified Name	Notifed Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date
Balog Family Trust	PO Box 111890	Anchorage, AK 99504	USPS	9414811899562232727235	7/10/2023
Black Hills Gas Resources, Inc.	7001 Mt Rushmore Rd	Rapid City, SD 57702	USPS	9414811899562232727860	7/10/2023
BP America Production Company	1700 Platte St, Suite 150	Denver, CO 80202	USPS	9414811899562232727891	7/10/2023
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899562232727884	7/10/2023
Burlington Resources Oil & Gas LP	PO Box 2197	Houston, TX 77252	USPS	9414811899562232727839	7/10/2023
BXP Operating, LLC	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562232727754	7/10/2023
BXP Partners V LP	11757 Katy Fwy, Suite 475	Houston, TX 77079	USPS	9414811899562232727709	7/10/2023
Cargoil & Gas Co LLC	2981 Plaza Azul	Santa Fe, NM 87505	USPS	9414811899552232727778	7/10/2023
Chevron USA	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899562232727907	7/10/2023
Cimarex Energy Co. of Colorado	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232727945	7/10/2023
Cimarex Energy Company	6001 Deauville Blvd, Ste 300N	Midland, TX 79706	USPS	9414811899562232727693	7/10/2023
Clarence Hyde Estate	6300 Ridgelea Pl., Suite 1018	Fort Worth, TX 76116	USPS	9414811899562232727129	7/10/2023
Contango Resources, LLC	111 E. 5TH Street, Suite 300	Fort Worth, TX 76102	USPS	9414811899562232727358	7/10/2023
von Energy Production Company, L	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899562232727303	7/10/2023
EOG Resources Inc.	PO Box 2267	Midland, TX 79702	USPS	9414811899562232727020	7/10/2023
Frances W Hyde Inc.	6300 Ridgelea Pl., Suite 1018	Fort Worth, TX 76116	USPS	9414811895662232727075	7/10/2023
Jack V Walker Revocable Trust	PO Box 102256	Anchorage, AK 99510	USPS	9414811899562232727426	7/10/2023
Lenox Mineral Title Holdings Inc.	420 Throckmorton St., Suite 1150	Fort Worth, TX 76102	USPS	9414811899562232727440	7/10/2023
Linn Operating, LLC	600 Travis Street, STE 1200	Houston, TX 77002	USPS	9414811899562232727471	7/10/2023
Matador Production Company	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562232727525	7/10/2023
Matador Resources Co.	5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	9414811899562232726214	7/10/2023
Merit Energy Company, LLC	13727 Noel Road, Suite 500	Dallas, TX 75240	USPS	9414811899562232726238	7/10/2023
Merit Energy Partners D-III	13727 Noel Road, Suite 1200	Dallas, TX 75240	USPS	9414811899562232726856	7/10/2023
Nadel and Gussman HEYCO, LLC	P.O. Box 1936	Roswell, NM 88202	USPS	9414811899562232726832	7/10/2023
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899562232726702	7/10/2023
Penroc Oil Corp.	PO Box 2769	Hobbs, NM 88241	USPS	9414811899562232726740	7/10/2023
Shogoil & Gas Co II LLC	PO Box 29450	Santa Fe, NM 87592	USPS	9414811899562232726955	7/10/2023
	22777 Springwoods Village Pkwy, Suite 126	Spring, TX 77389	USPS	9414811899562232754804	7/10/2023

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Sean Puryear Permian Oilfield Partners, LLC <u>spuryear@popmidstream.com</u> Date: 7/10/2023

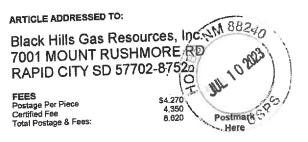
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# U.S. Postal Service Certified Mail Receipt



# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9856 2232 7278 80



## U.S. Postal Service Certified Mail Receipt

#### ARTICLE NUMBER: 9414 8118 9956 2232 7278 91

### ARTICLE ADDRESSED TO:

BP America Production Company, St boz. 1700 PLATTE ST STE 150 DENVER CO 80202-2837

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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



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

\$4.270

4.350

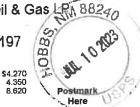
8,620

### ARTICLE NUMBER: 9414 8118 9956 2232 7278 39

### ARTICLE ADDRESSED TO:

Burlington Resources Oil & Gas LRN 882 PO BOX 2197 HOUSTON TX 77252-2197

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

\$4,270

4.350

8.620

### ARTICLE NUMBER: 9414 8118 9956 2232 7277 54

#### ARTICLE ADDRESSED TO:

**BXP Operating, LLC** 11757 KATY FWY STE 475 HOUSTON TX 77079-1761

FEES Postage Per Piece Certified Fee Total Postage & Fees:



Postmark Here

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### Exhibit A Released to Imaging: 9/5/2023 4:29:54 PM1 Released to Imaging: 10/13/2023 7:58:54 AM

### ARTICLE NUMBER: 9414 8118 9956 2232 7277 08

### ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

### ARTICLE NUMBER: 9414 8118 9956 2232 7277 78

### ARTICLE ADDRESSED TO:

Cargoil & Gas Co., LLC 2981 PLAZA AZUL SANTA FE NM 87507-5337

FEES Postage Per Piece Certified Fee Total Postage & Fees:



## U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7279 07

### ARTICLE ADDRESSED TO:

Chevron USA 6301 DEAUVILLE MIDLAND TX 79706-2964

FEES Postage Per Piece Certified Fee Total Postage & Fees:



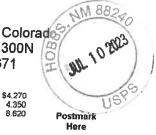
# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7279 45

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

\$4.270 4.350

### ARTICLE NUMBER: 9414 8118 9956 2232 7276 93

ARTICLE ADDRESSED TO:

Cimarex Energy Company 6001 DEAUVILLE STE 300N MIDLAND TX 79706-2671

FEES Postage Per Piece Certified Fee Total Postage & Fees;



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

ARTICLE NUMBER: 9414 8118 9958 2232 7271 20

ARTICLE ADDRESSED TO:

**Clarence Hyde Estate** 6300 RIDGELEA PL., STE 1018 FORT WORTH TX 76116-0000

FEES Postage Per Piece Certified Fee Total Postage & Fees:

الال \$4.270 4.350 Postmark [C 8.620 Here

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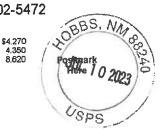
٩,

#### ARTICLE NUMBER: 0414 \$118 9958 2232 7273 58

#### ARTICLE ADDRESSED TO:

Contango Resources, LLC 111 E 5TH ST STE 300 FORT WORTH TX 76102-5472

FEES Postage Per Piece Certified Fee Total Postage & Fees:



U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 0414 8118 9958 2232 7273 03

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees;



Page 119 of 146 Page 17 of 40

## U.S. Postal Service Certified Mail Receipt

ARTICLE MIMBER: 9414 8118 8956 2232 7270 20

### ARTICLE ADDRESSED TO:

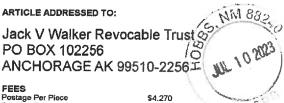
EOG Resources, Inc. PO BOX 2267 MIDLAND TX 79702-2267

FEES Postage Per Piece Certified Fee Total Postage & Fees:



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

#### ARTICLE NUMBER: 0414 \$118 9955 2232 7274 26



Postage Per Piece Certified Fee Total Postage & Fees:

4.350 8.620 Postmark Here

# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7270 75

ARTICLE ADDRESSED TO:

Frances W Hyde Inc. 6300 RIDGELEA PL, STE 1018 FORT WORTH TX 76116-0000





# U.S. Postal Service Certified Mail Receipt

4.350 8.620

ARTICLE NUMBER: 9414 8118 9956 2232 7274 40

### ARTICLE ADDRESSED TO:

Lenox Mineral Title Holdings Inc. 420 THROCKMORTON ST STE 1150 FORT WORTH TX 76102-3761

FEES Postage Per Piece Certified Fee Total Postage & Fees:

JUL 10/2023 \$4,270 Postmark Here UST

### ARTICLE NUMBER: 9414 8118 9956 2232 7274 71

### ARTICLE ADDRESSED TO:

Linn Operating LLC 600 TRAVIS ST STE 1200 HOUSTON TX 77002-1279

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

### ARTICLE NUMBER: 9414 8118 9958 2232 7275 25

### ARTICLE ADDRESSED TO:

Matador Production Company 5400 LYNDON B JOHNSON FWY STE 1500 DALLAS TX 75240-1017

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

\$4.270

4,350

8.620

#### ARTICLE NUMBER: 9414 8118 9958 2232 7282 14

#### ARTICLE ADDRESSED TO:

Matador Resources Co. 5400 LYNDON B JOHNSON FWY STE 1500 888. DALLAS TX 75240-1017

FEES Postage Per Piece Certified Fee Total Postage & Fees:

Postmark Here

# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7282 38

ARTICLE ADDRESSED TO:

FEES

Postage Per Piece Certified Fee Total Postage & Fees;

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



# U.S. Postal Service Certified Mail Receipt

### ARTICLE NUMBER: 9414 8118 9955 2232 7268 55

### ARTICLE ADDRESSED TO:

Merit Energy Partners D-III 13727 NOEL RD STE 1200 DALLAS TX 75240-7362

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7268 32

ARTICLE ADDRESSED TO:

Nadel & Gussman HEYCO, LLC PO BOX 1936 ROSWELL NM 88202-1936

FEES

Postage Per Piece Certified Fee Total Postage & Fees;

\$4.270 4.350 8.620

Postmark Here

61 P

# Released to Imaging: 9/3/2023 4:29:54 PM1 Released to Imaging: 10/13/2023 7:58:54 AM

#### ARTICLE NUMBER: 9414 8118 9956 2232 7267 02

ARTICLE ADDRESSED TO:

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

FEES Postage Per Piece Certified Fee Total Postage & Fees:



NM 880

# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7267 40

### ARTICLE ADDRESSED TO:

Penroc Oil Corp. PO BOX 2769 HOBBS NM 88241-2769

FEES Postage Per Piece Certified Fee Total Postage & Fees:



# U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 2232 7209 55

ARTICLE ADDRESSED TO:

Shogoil & Gas Co II LLC PO BOX 29450 SANTA FE NM 87592-9450

FEES Postage Per Piece Certified Fee Total Postage & Fees:

\$4.270 4.350 8.620 Postmark

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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9958 2232 7548 04

ARTICLE ADDRESSED TO:

NM 882 XTO Energy Inc. 22777 SPRINGWOODS VILLAGE PRWY SPRING TX 77389-1425

FEES Postage Per Piece Certified Fee Total Postage & Fees;

Exhibit A

(OB) \$4.270 4 350 8,620 Postmat Here

Released to Imaging: 9/3/2023 4:29:54 PM1 Released to Imaging: 10/13/2023 7:58:54 AM

Received by OCD: 10/12/2023 11:08:29 PM Received by OCD: 9/5/2023 3:21:20 PM1 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 26, 2023 and ending with the issue dated May 26, 2023.

Publisher

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

**Business Manager** 

My commission expires January 29, 2027 (Seal) STATE OF NEW MEXICO NOTARY PUBLIC GUSSIE RUTH BLACK COMMISSION # 1087526 COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said Page 122 of 146 Page 20 of 40

#### LEGAL NOTICE May 26, 2023

Permian Oilfield Partners, LLC, PO Box 3329, Hobbs, NM 88241, phone (817)606-7630, attn. Gary Fisher, has filed form C-108 (Application for Authorization for injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial sait water disposal well in Lea County. New Mexico. The proposed well is the Belated Federal SWD #1, and is located 637' FSI & 208' FEL, Unit P, Section 27, Township 19 South, Range 34 East, NMPM, approximately 16 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 14,639 feet to 15,841 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 2,927 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. #00278993

67115647

GARY FISHER

PO BOX 3329

PERMIAN OILFIELD PARTNERS, LLC

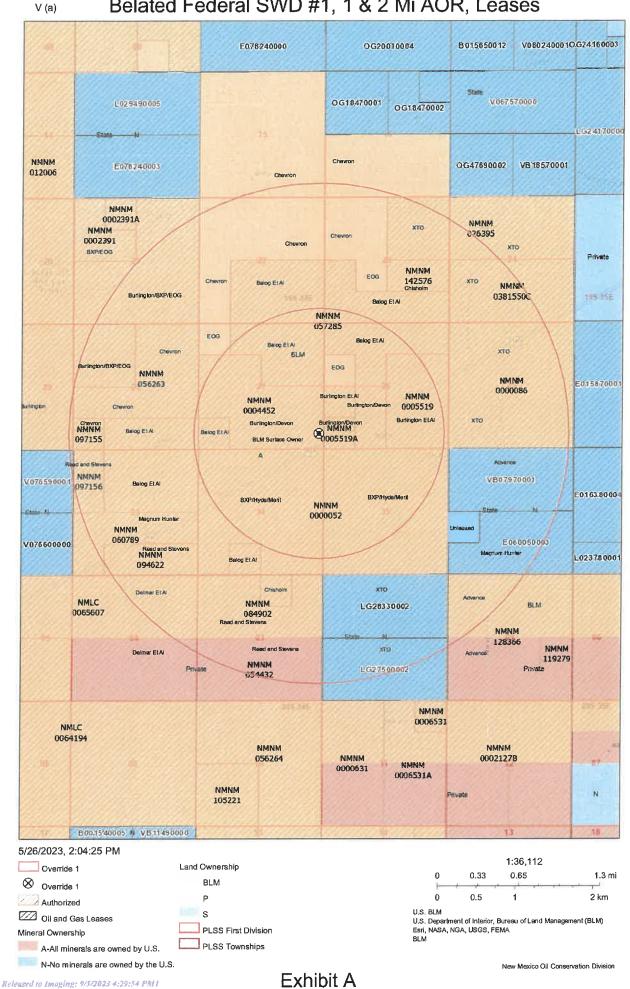
00278993

Exhibit A

HOBBS, NM 88241

Received by OCD: 10/12/2023 11:08:29 PM

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



Released to Imaging: 10/13/2023 7:58:54 AM

# Belated Federal SWD #1 1 & 2 Mi AOR Wells

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5/26/2023, 2	2:08:56 PM						26 112	
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Gas, Active Gas, Cance	01, 101	N-No minerals are or	-		Esri, NASA,	NGA, USGS, FEMA		
ů 0		Land Ownership			Oil Conserv	ation Division of the	New Mexico Energy,	Minerals and

 Oil, New N-No minerals are owned by the U.S. Gas, Cancelled 🔹 Oil, Plugged Oil, Temporarily Abandoned

- Gas, New
- Gas, Plugged 🗠 Salt Water Injection, Active

Exhibit A

BLM

Released to Imaging: 9/5/2023 4:29:54 PM1

New Mexico Oil Conservation Division

### Received by OCD: 9/5/2023 3:21:20 PM1

Page 23 of 40

				Belated	Federal S	WD #1 - Wells Within	1 Mi	le Ares	of R	leview					
API Number	Current Operator	Well Name	Well Number	Well Tran	Well Direction	Well Status	Section				Surface Location	Bottomhole Location	Formation	MD	D
KP1 7K1110E1	SXP Counting LLC	MESCALERO BIDGE LINIT	8026	Oil	Vertical	Active	35	T195	834E	G	G-35-195-34E 1350 FNL 2570 FEL	G-35-195-34E 1350 FNL 2570 FEL	QUEEN	523	
0-025-34164	BXP Operating U.C.	MESCALERO BIDGE UNIT	8025	(in the second s	Vertical	Active	35	1195	R34E	1	1-35-195-34E 2520 FSL 2520 FEL	J-35-195-34E 2520 FSL 2620 FEL	GLIEEN	520	14
0-025-20694	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#357	Crit	Vertical	Pingant Site Released	35	T395	R348	8	8-35-195-34E 660 FNL 1980 FEL	8-35-195-34E 660 FNL 1980 FEL	QUEEN	5250	
0-025-21857	UNN OPERATING, LLC.	MESCALERO RIDGE UNIT	#263	Franchian .	Vertical	Phagenil, Site Released	26	T195	R34E	0	0-26-195-34E 330 FSL 1980 FEL	D-26-195-34E 330 FSL 1980 FEL	QUEEN	5250	
0-025-20692	BXP Operating U.C	MESCALERO RIDISE UNIT	#354	Injection	Vertical	Active	35	T195	R34E	G	G-35-195-34E 1980 FNL 1980 FEL	G-35-195-34E 1980 FNL 1980 FEL	QUEEN	5260	
0-025-22196	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	1006	Oil	Vertical	Page Site Released	26	T195	<b>R34E</b>	1	J-26-195-34E 1650 FSL 1980 FEL	J-26-195-34E 1650 PSL 1990 FEL	QUEEN	5160	
2-025-20565	UNN OPERATING, LLC.	MESCALERO RIDGE UNIT	#352	04	Vertical	Pingani, Site Released	35	T155	R34E	J	J-35-195-34E 1980 FSL 1980 FEL	J-35-195-34E 1980 FSL 1980 FEL	QUEEN	5268	
0-025-23319	PRE-DNGARD WELL OPERATOR	PRE-ONGARD WELL	#002	08	Vertical	Plagert, Site Released	35	T195	R34E	1	J-35-195-34E 2310 PSL 1800 FEL	J-35-195-34E 0 FSL 1800 FEL	BONE SPRING		
-025-33662	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE LINIT	1040	Dil	Vertical	Cancelled Apd	26	T195	834E	0	0-26-195-34E 1000 FSL 1400 FEL G-35-195-34E 1980 FNL 1650 FEL	0-26-195-34E 1000 FSL 2400 FEL	QUEEN	6000 5 4040	
-025-21859	BP AMERICA PRODUCTION COMPANY	MESCALERO RIDGE UNIT MESCALERO RIDGE UNIT	#017 #023	Salt Water Dissound Oil	Ventical	Figgent Site Released	35	T195	R34E	A	A-35-195-34E 1300 FNL 1300 FEL	G-35-195-34E 1980 FNL 1850 FEL A-35-195-34E 1300 FNL 1300 FEL	SEVEN RIVER	5735	
1025-33660	BOP Operating LLC	MESCALERO RIDGE UNIT	#024	DI	Vertical	Active	35	T195	R346	R	H-35-195-34E 2520 FNL 3300 FEL	H-35-195-34E 2620 FNL 1300 FEL	DUEEN	5200	
-025-33661	BXP Operating LLC 8XP Operating LLC	MESCALERO RIDGE UNIT	#262	ON	Vertical	Active	26	7135	1346	n 0	P-76-195-34E 330 FSL 660 FFL	P-25-195-34E 330 FSL 660 FEL	QUEEN	5150	
-025-21683	BOP Operating LLC	MESCALERO RIDGE UNIT	#015	injection	Vertical	Active	35	7196	R34E		A-35-195-34E 660 FNL 860 FEL	A 35-195-34E 680 FML 660 FEL	OUFEN	5135	
025-34895	CIMAREX ENERGY CD. OF COLDRADO	MALLON 34 FEDERAL	80200	Oil	Norizontal	Cancelled Aud	34	T195	8346	D	D-34-195-34E 730 FNL 330 FWL	A-34-195-34E 330 FNL 330 FEL	BONE SPRING	3 1539	37
025-42604	CIMAREX ENERGY CO.	MALLON 27 FEDERAL COM	10048	ON I	Horizontal	New	27	T195	A34E	M	M-27-195-34E 305 FSL 450 FWL	E-27-195-34E 1650 FNL 450 FWL	BONE SPRING	5 1397	70
025-30725	Contango Resources LLC	STIVASON FEDERAL	#005	04	Vertical	Approven Temporary Abandonment	27	T195	R34E	м	M-27-195-34E 660 FSL 550 FWL	M-27-195-34E 660 FSL 550 FWL	QUEEN	5115	5
025-30918	MERIT ENERGY COMPANY LLC	WEST PEARL FEDERAL	#001	Dil	Vertical	Plugged, Site Released	27	T195	R34E	L .	L-27-195-34E 1980 PSL 660 FWL	L-27-195-34E 1980 FSL 660 FW1	SEVEN RIVERS	5 5300	õ
025-34678	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#014	Oil	Vertical	Cancelled Apd	27	T195	R34E	M	M-27-195-34E 660 PSL 660 FWL	M-27-195-34E 660 F5L 660 FWL	BONE SPRING		~
025-32654	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL	#003	04	Vertical	Cancelled Apr	27	7195	R34E	E	E-27-195-34E 1380 FNL 660 FWL	E-27-195-34E 1980 FNL 660 PWL	DELAWARE	8300	-
025-34300	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#003	04	Vertical	Cancelled April	27	T195	R34E	E	E-27-195-34E 1980 FNL 560 FWL	E-27-195-34E 1980 FNL 660 FWL	DELAWARE	8300	
075-32605	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#001	Salt Water Discourt	Vertical	Plagent Site Released	34	T195	R34E	0	D-34-195-34E 660 FNL 990 FWL	D-34-195-34E 660 FNL 990 PWL	DELAWARE	6306	
025-32616	BLACK HILLS GAS RESOURCES, INC.	MALLON 34 FEDERAL	#005	CH	Vertical	Cancelled Apd	34	7195	RB4E	£	E-84-195-34E 1980 FNL 660 FWL	E-34-195-34E 1980 FNL 660 FWL	BONE SPRING		
025-34349	CHAAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	#001	OR	Vertical	Cancelled April	27	7195	<b>R34E</b>	N	N-27-195-34E 990 PSL 1980 FWL	N-27-195-34E 990 FSL 1980 FWL N-27-195-34E 990 FSL 1980 FWL	DELAWARE	6200	
025-32652	BLACK HILLS GAS RESOLURCES, INC.	MALLON 27 FEDERAL MALLON 34 FEDERAL	8001	08	Vertical	Cancelled April	27	T295 T195	R34E R34E	N	N-27-195-34E 990 FSL 1980 FWL K-34-195-34E 1980 FSL 1980 FWL	N-27-195-34E 990 FSL 1980 FWL K-34-195-34E 1980 FSL 1980 FWL	DELAWARE	6200	
025-32815	CIMAREX ENERGY CO. OF COLORADO	Printing of the sections	Po mo		Vertical	Pluggent, Site Released	34	1195 T195	R34E	к С	C-34-195-34E 1980 PSL 1980 PWL C-34-195-34E 650 PNL 1980 PWL	C-34-195-34E 660 FML 1980 FWL	DELAWARE	\$312	
025-32617	BLACK HILLS GAS RESOURCES, INC. MATADOR PRODUCTION COMPANY	MALLON 34 FEDERAL MALLON 27 FEDERAL COM	#003H	08	Vertical Horizontal	Pluggmil, Site Released Active	27	T195	R34E	N	N-27-195-34F 260 FSL 2080 FWC	C-22-195-34E 2316 PSL 1923 FWL	BONE SPRING	1875	
025-41808	BLACK HILLS GAS RESOURCES, INC.	MALLON 27 FEDERAL COM	RCGH	08	Vertical	Cancelled Real	34	T195	8346	E C	F-34-195-34E 1980 FNL 1980 FWL	5-34-195-346 2310 F3C 2923 FWL	DELAWARE	6200	
025-32625	CIMAREX ENERGY CO. OF COLORADO	MALLON 27 FEDERAL	8004	OR	Ventical	Phagent, Site Released	27	T195	8345	0	O-27-195-34£ 660 FSL 1980 FEL	0-27-195-34F 660 F5L 1980 FEL	OUSEN	7100	
025-02315	MATADOR PRODUCTION COMPANY	MALLON 27 FEDERAL COM	#002H	DRI DI	Horizontal	Active	27	T195	8345	0	0-27-195-34E 330 F5L 1980 FE1	1-22-195-34F 2310 FSL 1900 FFL	BONE SPRING	1829	
025-32784	CIMAREX ENERGY CO. DF COLDRADO	MALLON 34 FEDERAL	8009	Dil	Vertical	Pluggerd, Site Released	34	7195	8346	6	G-34-195-34E 1980 FNL 1980 FEL	G-34-195-34E 1980 FNL 1980 FEL	DELAWARE	1039	ŝ
025-32783	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	4005	Dil	Vertical	Active	34	T195	R34E	1	1-34-195-34£ 1980 FSL 1980 FEL	1-34-195-34E 1980 FSL 1980 FEL	DELAWARE	6300	ō
025-32786	CIMAREX ENERGY CD. DF COLDRADO	MALLON 34 FEDERAL	#011	0il	Vertical	Active	34	T195	R34E	8	8-34-195-34E 590 FN1 1650 FEL	8-34-195-34E 990 FNL 2850 FEL	DELAWARE	7044	
023-32653	CIMAREX ENERGY CO. DF COLORADO	MALLON 27 FEDERAL	#002	Oll	Vertical	Plugged, Site Released	27	T195	R34E	P	P-27-195-34E 660 FSL 990 FEL	P-27-195-34E 660 FSL 990 FEL	DELAWARE	7100	ő
025-32782	CIMAREX ENERGY CO. DF COLORADO	MALLON 34 FEDERAL	#007	Oli	Vertical	Phagens Site Released	34	7195	R346	н	H-34-195-34£ 1980 FNL 860 FEL	H-34-195-34E 1980 FNL 860 FEL	BRAWARE	6300	δ
025-32785	CIMAREX ENERGY CO. DF COLORADO	MALLON 34 FEDERAL	#010	08	Vertical	Phaganit, Site Released	34	T195	<b>R34E</b>	P	P-34-195-34E 660 FSL 660 FEL	P-34-195-34E 660 PSL 660 FEL	DELAWARE	6340	õ
025-39894	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#019H	OII	Norizontal	Active	34	T195	A34E	н	H-34-195-34E 1690 FNL 720 FEL	E-34-195-34E 1990 FNL 4915 FEL	BONE SPRING	15025	
025-42212	MATADOS PRODUCTION COMPANY	MALLON 27 FEDERAL COM	8001H	Oil	Horizontal	Active	27	T195	R34E	P	P-27-195-34E 330 FSL 660 FEL	+22-195-34E 2310 PSL 660 FEL	BONE SPRING	18255	
025-32606	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#002	01	Vertical	Active	3.4	T195	<b>R34E</b>	A	A-34-195-34E 560 FNL 660 FEL	A-34-195-34E 660 FNL 660 FEL	DELAWARE	6313	
025-32607	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	#003	Dil III	Vertical	Active	34	T195	R34E	1	1-34-195-34E 1980 PSL 660 FEL	I-34-195-34E 1980 F5L 660 FEL	DELAWARE	5300	
025-42804	HADELAND GUSSMAN NEVCO, LLC	HARLEQUIN 27 22 FEDERAL	#001C	Oil	Norizontal	Cancelled April	27	7195	R34E	н	H-27-195-34E 2591 FNL 510 FEL	1-22-195-34E 2311 FSL 510 FEL	BONE SPRING	15190	
025-40135	CIMAREX ENERGY CO. OF COLORADO	MALLON 34 FEDERAL	II020H	0ii	Horizontal	Active	34	T195	834E	A	A-34-195-84E 380 FNL 330 FEL	D-34-195-34E 760 FNL 4925 FEL	BONE SPRING	15352	
025-21793	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	0fi	Vertical	Plugged, Site Released	34	T195	R34E	н	H-34-195-34E 1980 FNL 660 FEL	H-34-195-34E 1980 FNL 660 FEL	QUEEN	5150	
025-40086	CHAAREX ENERGY CD. OF COLORADO	MALLON 35 FEDERAL	8007H	01	Horizontal	Active	35	7195	R34E	D	D-35-195-34E 585 FNL 330 FWL	A-35-195-34E 574 FNL 4940 FWL	BONE SPRUNG	15359	
025-33046	DEVON ENERGY PRODUCTION COMPANY_LP	MESCALERO RIDGE UNIT	#019	Cil	Vertical	Cancelled Apr	35	T195	R34E	D	D-35-185-34E 550 FNL 330 FWL	D-35-195-34E 550 FNL 330 FWL	DELAWARE	6300	
025-40084	DIMAREX ENERGY CD. OF COLORADO	MALLON 35 FEDERAL	MO05H	08	Horizontal	Cancelled April	35	T195	R34E 834E	1	L-35-195-34E 19/30 PSL 330 FWL D-35-195-34E 660 FNL 660 FWL	1-35-195-34E 1980 FSL 510 FEL D-35-195-34E 560 FNL 660 FWL	BONE SPRING DELAWARE	15349 8330	
025-32983	CIMAREX ENERGY CD. OF COLORADO	MALLON 35 FEDERAL MALLON 35 FEDERAL	8001	08	Vertical	Plugged, Site Released	35 35	T195 T195	N342 R34E	D	E-35-195-34E 660 FNL 660 FWL E-35-195-34E 1550 FNL 660 FWL	5-35-195-34E 1550 FNL 660 FWL	DELAWARE	8300	
025-32984	BLACK HILLS GAS RESOURCES. INC. PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	8001	CH/	Vertical	Plaggerd, Site Released	26	T195	8345	F	E-26-195-34E 1980 FNL 660 FWL	E-25-195-34E D FNL 660 FWL	OUEEN	5200	
025-27899	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#003	Dil	Vertical	Pugget Site Released	35	T195	8346	1	L-35-195-34E 2310 FSL 660 FWL	L-35-195-348 2310 FSL 660 FW1	DELAWARE	8330	
025-60085	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005H	Dil	Norizontal	Cancelled And	35	7195	R34E	F	F-35-195-34F 2330 FNI 330 FWI	H-35-195-34E 1980 FML 510 FEL	BONE SPRING	15362	
25-21267	MERIT ENERGY COMPANY LLC	MESCALERO NIDGE UNIT	8013	Oil	Vertical	Fluggert, Site Released	35	T195	8345	i.	1-35-195-34F 1980 FSL 990 FWI	1-35-195-34F 1980 FSL 990 FWL	OUFEN	5200	ŝ
025-21613	MERIT ENERGY COMPANY_LLC	MESCALERO RIDGE UNIT	JC14	Oll	Vertical	Plugged, Site Released	35	T195	1348	p	0-35-195-34E 660 FNL 990 FWL	D-35-195-34E 660 FNL 990 FWL	QUEEN	5050	
75-21766	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT	8012	Injection	Vertical	Phagest, Site Released	35	7195	R34E	6	E-35-195-34E 1980 FNL 990 FWL	E-35-195-34E 1980 FNL 590 FWL	QUEEN	5200	
025-22333	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT	0007	injection	Vertical	Pluggerd, Site Released	26	7195	R34E	M	M-26-195-34E 990 FSL 990 FWL	M-26-195-34E 990 FSL 990 FWL	QUEEN	5031	í
25-22449	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	\$008	QII	Vertical	Plugged, Site Released	25	T195	R34E	L	L-25-195-34E 1980 FSL 99D FWL	L-26-195-34E 1980 FSL 990 FWL	QUEEN	5035	
125-32987	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	#005C	0il	Vertical	Cancelled Apd	35	T195	R34E	c	C-35-195-34E 400 FNL 1580 FWL	C-35-195-34E 400 FNL 1680 FWL	DELAWARE	8200	í
125-32988	CIMAREX ENERGY CO. OF COLORADO	MALLON 35 FEDERAL	MOD6F	Dit	Ventical	Cancelled april	35	T195	R34E	F	F-35-195-34E 1720 FNL 1680 FWL	F-35-195-34E 1720 FNL 1680 FWL	DELAWARE	8200	ĩ
025-21072	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#005	Cil	Vertical	Plugged, Site Rejeased	35	T195	R34E	F	F-35-195-34E 1980 FNL 1980 FWL	F-35-195-34E 0 FNL 1980 FWL	QUEEN	\$2B6	í
025-22005	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	OH	Vertical	Pluggest, Site Released	25	T195	R34E	N	N-26-195-34E 330 F5L 1980 FWI	N-25-195-34E D PSL 1980 FWL	QUEEN	5220	í
025-20693	LINN OPERATING, LLC.	MESCALERO RIDGE UNIT	#356	Injection	Ventical	Pluggett, Site Released	35	T195	R34E	c	C-35-195-34E 660 FNL 1980 FWL	C-35-195-34E 660 FNL 1980 FWL	QUEEN	5250	
025-27204	SXP Operating, LLC	MESCALERO RIDGE UNIT	#259	FiQ	Vertical	Active	25	T195	R34E	N	N-26-195-34E 330 FSL 2030 FWL	N+26-195-34E 330 FSL 2030 FWL	QUITEN	5218	
025-29517	BXP Operating LLC	MESCALERO RIDGE UNIT	#018	Oit	Vertical	Active	35	T195	R34E	F	F-35-195-34E 2240 FNL 2030 FWL	F-35-195-34E 2240 FNL 2030 FWL	QUEEN	\$250	
025-20695	BXP Operating, LLC	MESCALERO RIDGE UNIT	#358	Injection	Ventical	Active	35	T195	R34E	ĸ	K-35-195-34E 1980 FSL 1980 FWL	K-35-195-34E 1980 FSL 1980 FWL	QUEEN	5232	
	MERIT ENERGY COMPANY LLC	MESCALERO RIDGE UNIT	#265	<b>Enjection</b>	Vertical	Pluggent Site Released	26	T195	R34E	K.	K-26-195-34E 1650 FSL 1980 FWL	K-26-195-34E 1650 FSL 1980 FWL	DUEEN	517	

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VII (4)

### Permian Oilfield Partners, LLC. Belated Federal SWD #1 637' FSL, 208' FEL Sec. 27, T19S, R34E, Lea Co. NM Lat 32.6257672° N, Lon -103.5401562° W GL 3725', RKB 3755'

Regional Source Water Analysis											
Well Name	MOBIL LEA STATE #003	COOTER 16 STATE COM #006H	PLAYA 2 STATE #002H	ZINNIA BKC FEDERAL #00							
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	258	198	20S							
Range	34E	29E	34E	29E							
Unit	М	0	М	Е							
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								

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VII (5)

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

Devo	<b>Devonian Injection Zone Water Analysis</b>										
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	198	20S	20S								
Range	29E	34E	34E								
Unit	M	В	В								
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								

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Attachment to C-108 Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, R34E Lea County, NM

June 10, 2023

STATEMENT REGARDING SEISMICITY

Examination of the USGS and NMT seismic activity databases shows minimal historic seismic activity >M2.0 in the area (< 5.64 mile radius, 25 sq. mi.) of the proposed above referenced SWD well, with one M2.2 event recorded 5.6 mi SE of the proposed well in August 2021. 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.
- 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 0.6 mi (1.0 km). This fault depth is believed to be in the PreCambrian, well below the Devonian-Silurian injection interval, and separated vertically by the presence of the Montoya, Simpson and Ellenburger formations.
- 5. Permian Oilfield Partners ran modeling to check for fault slip assuming that any known faults penetrate the Devonian-Silurian injection zone. Software as discussed in #3 from

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

- 6. As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 4.1 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 4.3 miles to the NE, the Blackbuck Wildrye Fee SWD #1, SWD-2369, and an active Devonian disposal 5.1 miles to the NNE, the Solaris Wild Cobra 1 State SWD #2, SWD-1525. All three 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.

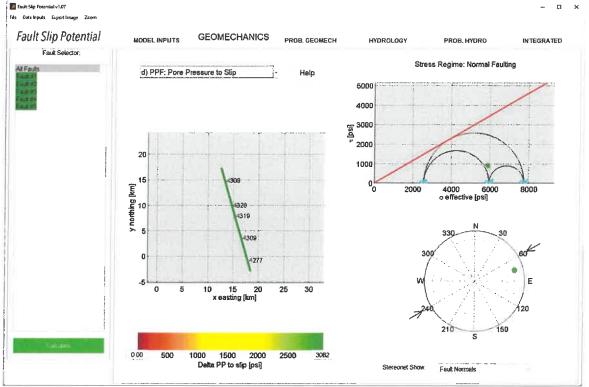
### Input assumptions:

Belated Fed SWD rate (BBL/day)	50000
Fasken Quail 16 SWD #9 rate (BBL/day)	1800
Blackbuck Wildrye Fee SWD rate (BBL/day)	25000
Solaris Wild Cobra 1 SWD #2 (BBL/day)	2500
Interval height (ft)	1262
Average Porosity (%)	5.4
Vert stress gradient (psi/ft)	1.00
Hor stress direction (deg N)	60
Fault dip (deg)	75
Ref depth (ft)	14604
Initial res press gradient (psi/ft)	0.47
A phi	0.65
Friction coefficient	0.58
Weighted Average perm (mD)	19.3
Fluid density (kg/m3)	1100
Dynamic viscosity (Pa-s)	0.0003
Fluid compressibility (/Pa)	4 e-10
Rock compressibility (/Pa)	1.08 e-09

### Note:

In screenshots below, injection well #1 is the proposed Belated Federal SWD #1. Injection well #2 is the active Fasken Quail 16 State SWD #9. Injection well #3 is the permitted Blackbuck Wildrye Fee SWD #1. Injection well #4 is the active Solaris Wild Cobra 1 State SWD #2.

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### **Geomechanics Pore Pressure to Slip**

## **GeoMechanics Variability**

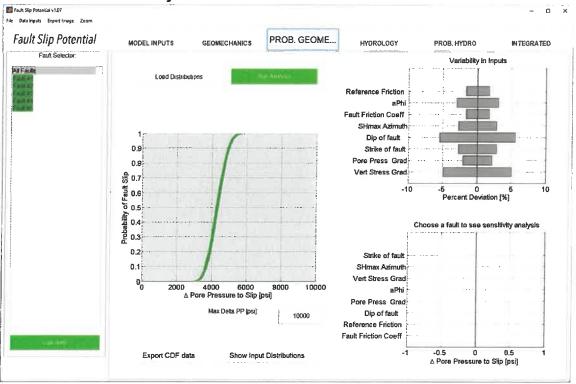
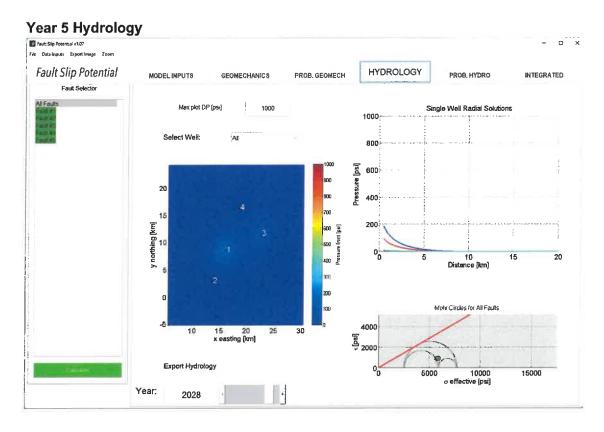


Exhibit A

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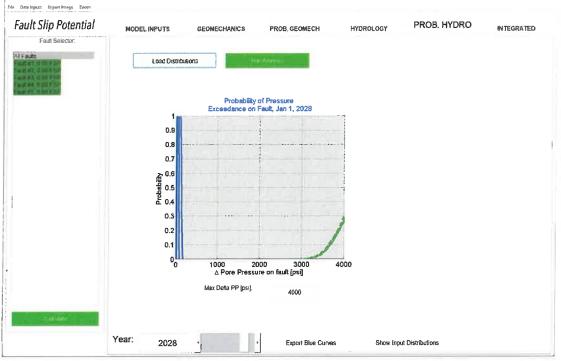
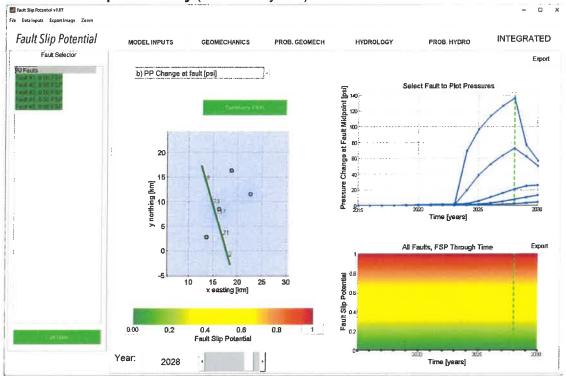


Exhibit A

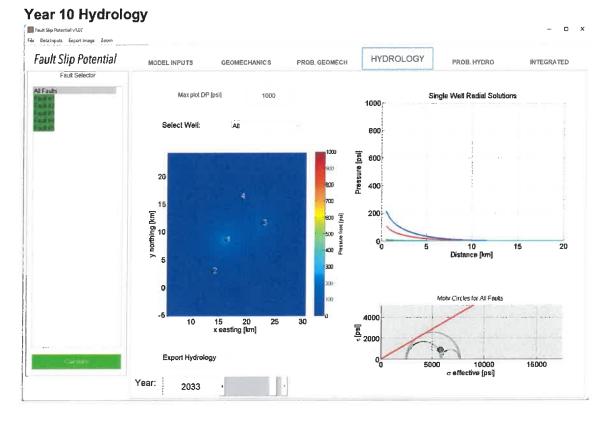
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# Year 5 Fault Slip Probability (0% after 5 years)

Exhibit A

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

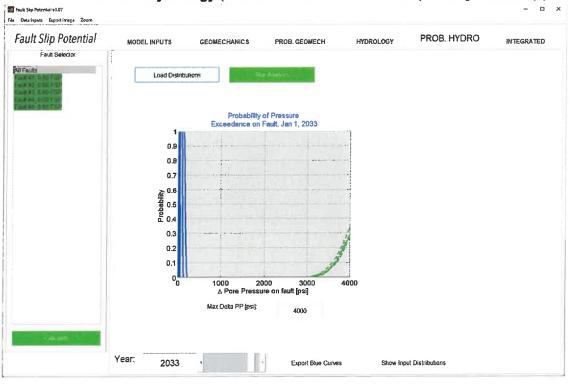
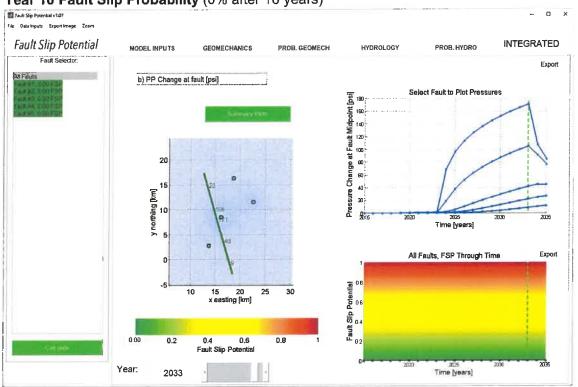


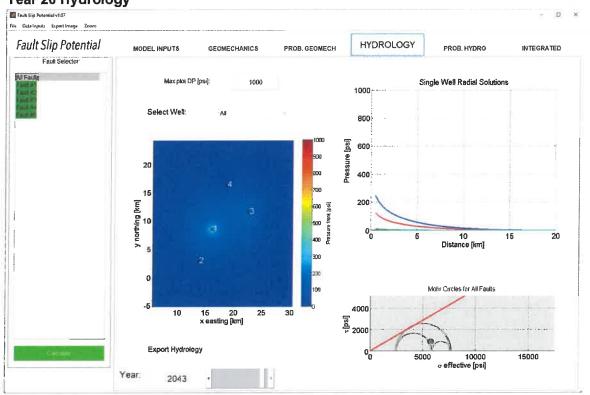
Exhibit A

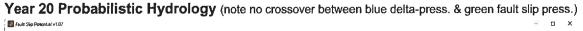
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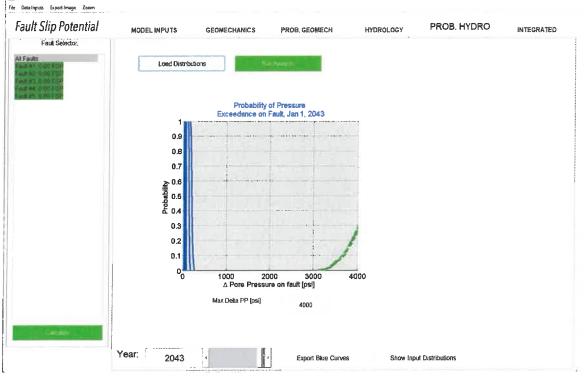


## Year 10 Fault Slip Probability (0% after 10 years)

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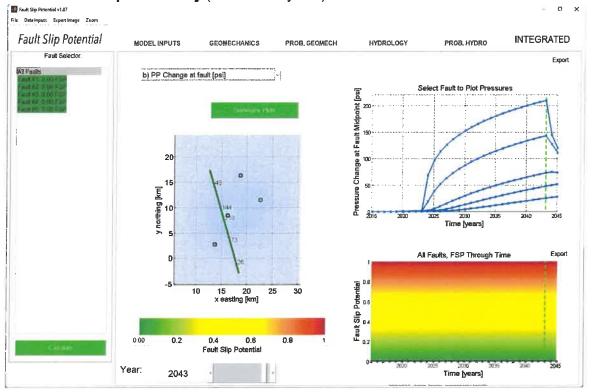






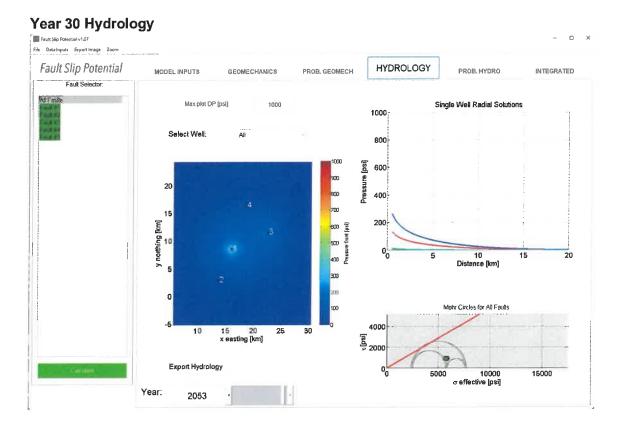
## Year 20 Hydrology

Exhibit A



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

Exhibit A



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

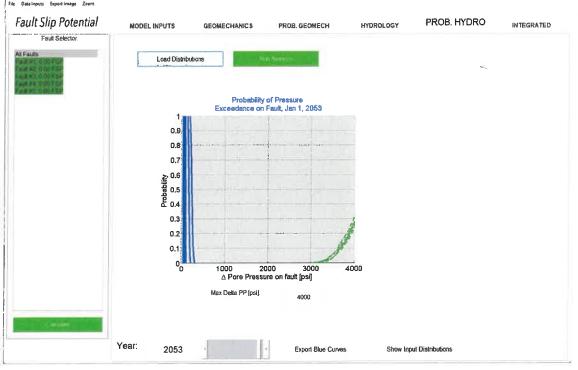
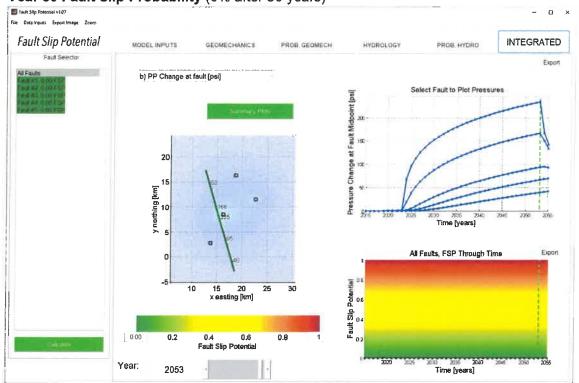


Exhibit A

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

Elih

gfisher@popmidstream.com (817) 606-7630





### Item XII. Affirmative Statement

Re: C-108 Application for Authorization to Inject Permian Oilfield Partners, LLC Belated Federal SWD #1 637' FSL & 208' FEL Sec 27, T19S, 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.

tay Er Tichin

Gary Fisher Manager Permian Oilfield Partners, LLC.

Date: 7/5/2023

Exhibit A



# 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)	(qua					VE 3=SW		33 UTM in meters)		(In feet)	
POD Number	POD Sub- Code basin (	County		Q (		Twe	Rng	x	Y		Depth N Water C	
CP 00683 POD1	CP	LE	3			19S		639530		120	28	92
CP 00806 POD1	CP	LE		44	04	19S	34E	635109	3617151* 🌍	50		
CP 00811 POD1	CP	LE		44	09	19S	34E	635132	3615542* 🔵	50		
CP 00875	CP	LE	3	43	05	19S	34E	632592	3617013* 🌍	200		
CP 01672 POD1	CP	LE	1	31	36	19S	34E	638736	3610009 🌍	100		
L 04059	L	LE		41	12	19S	34E	639146	3616412* 😜	125	60	65
L 04723	L	LE	1	1 1	11	19S	34E	637026	3616880* 🔵	145	123	22
L 06731	L	LE	3 3	22	12	19S	34E	639844	3616727* 🌍	120	80	40
L 07213	L	LE	4	14	31	19S	34E	631700	3609351* 🌍	160	110	50
<u>L 10347</u>	L	LE	2	23	03	19S	34E	635909	3617566* 🌍	130		
L 10380	L	LE	4 4	44	02	19S	34E	638428	3617102* 🌍	153	100	53
L 12103 POD1	L	LE	3 3	34	02	19S	34E	637920	3617173 🌍	120		
									Average Depth to	Water:	83 fee	t
									Minimum	Depth:	28 fee	t
									Maximum	Depth:	123 fee	t
Record Count: 12	and and and and for his fair for	a and and provide										

### PLSS Search:

Township: 19S

Range: 34E

### \*UTM location was derived from PLSS - see Help

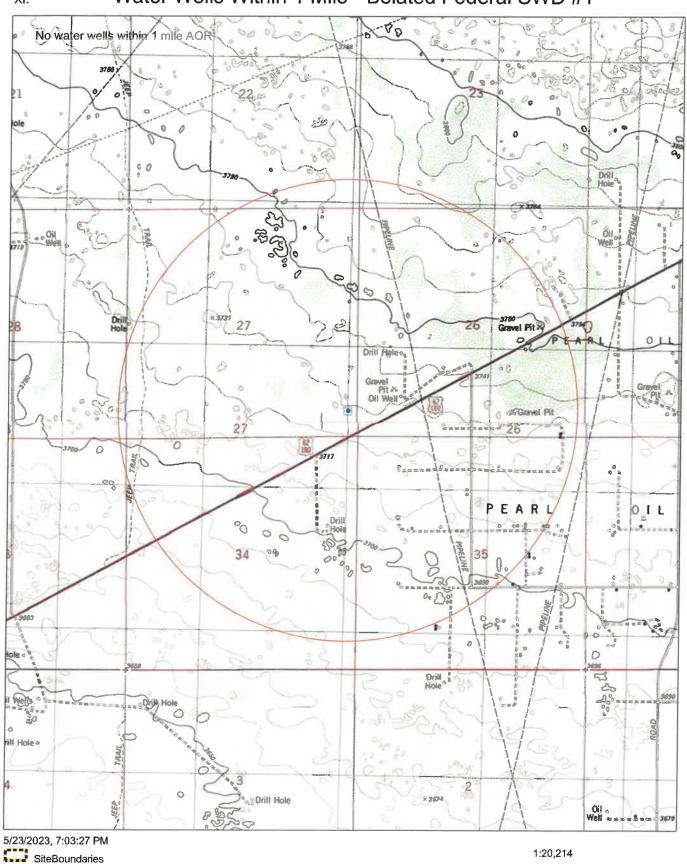
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Page 1 of 1 Exhibit A WATER COLUMN/ AVERAGE DEPTH TO WATER

Received by OCD: 10/12/2023 11:08:29 PM

XI.

# Water Wells Within 1 Mile - Belated Federal SWD #1





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0.2

0.3

0.4

Copyright: 2013 National Geographic Society, i-cubed, U.S. Department of Energy Office of Legacy Management

0.6

0.8 mi

1.2 km

Received by OCD: 10/12/2023 11:08:29 PM Received by OCD: 9/5/2023 3:21:20 PM1

> 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

Operator:	OGRID:			
Permian Oilfield Partners, LLC	328259			
	Action Number:			
Hobbs, NM 88241	241747			
	Action Type:			
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)			

#### CONDITIONS

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

Page 142 of 146

Page 40 of 40

Action 241747

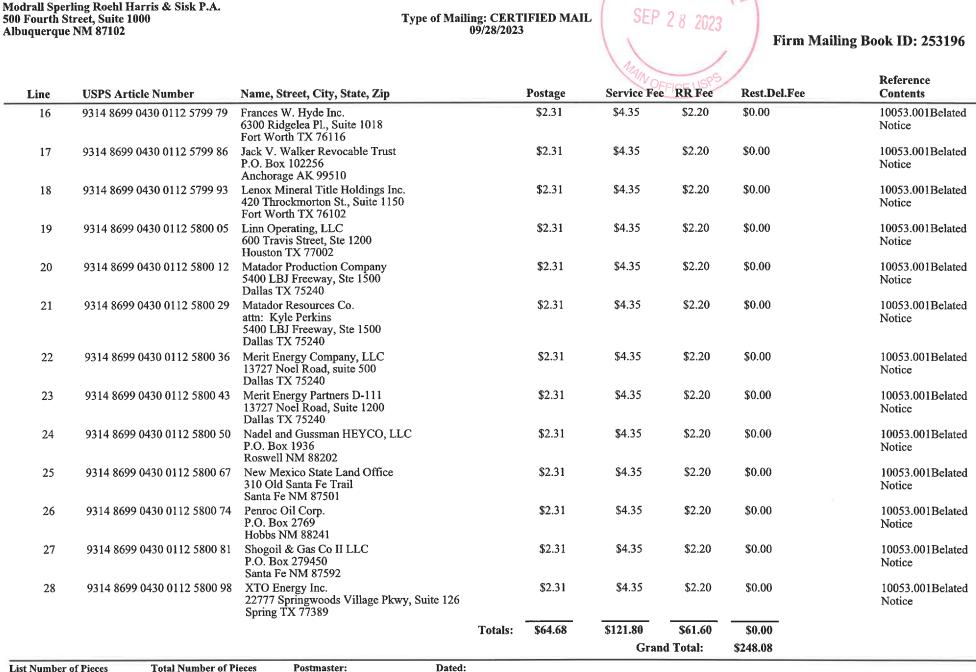
Exhibit A

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					Mai			Mailing Book ID: 253196 Reference
	Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fo	e RR Fee	Rest.Del.Fee	Contents
	1	9314 8699 0430 0112 5798 25	Balog Family Trust PO Box 111890 Anchorage AK 99504	\$2.31	\$4.35	\$2.20	\$0.00	Reference Contents 10053.001Belated Notice
	2	9314 8699 0430 0112 5798 32	Black Hills Gas Resources, Inc. 7001 Mt. Rushmore Rd. Rapid City SD 57702	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice 10053.001Belated Notice
	3	9314 8699 0430 0112 5798 49	BP America Production Company 1700 Platte St., Suite 150 Denver CO 80202	y \$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	4	9314 8699 0430 0112 5798 56	Bureau of Land Management 620 E. Greene St. Carlsbad NM 88220	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	5	9314 8699 0430 0112 5798 63	Burlington Resources Oil & Gas P.O. Box 2197 Houston TX 77252	LP \$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	6	9314 8699 0430 0112 5798 70	BXP Operating, LLC 11757 Katy Fwy, Suite 475 Houston TX 77079	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	7	9314 8699 0430 0112 5798 87	BXP Partners V LP 11757 Katy Fwy, Suite 475 Houston TX 77079	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	8	9314 8699 0430 0112 5798 94	Cargoil & Gas Co LLC 2981 Plaza Azul Santa Fe NM 87505	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	9	9314 8699 0430 0112 5799 00	Chevron USA 6301 Deauville Blvd. Midland TX 79706	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	10	9314 8699 0430 0112 5799 17	Cimarex Energy Co. of Colorado 6001 Deauville Blvd, Ste 300N Midland TX 79706	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	11	9314 8699 0430 0112 5799 24		\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	12	9314 8699 0430 0112 5799 31		\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	13	9314 8699 0430 0112 5799 48	Contango Resources, LLC 111 E. 5th Street, Suite 300 Fort Worth TX 76102	\$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	14	9314 8699 0430 0112 5799 55		bany \$2.31	\$4.35	\$2.20	\$0.00	10053.001Belated Notice
	15	9314 8699 0430 0112 5799 62	•	\$2.31	\$4.35	\$2.20	<b>1</b>	EXHIBIT
	Exhibit 4.B							

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**PS Form 3877** 

List Number of Pieces Listed by Sender

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**Karlene Schuman** 

Total Number of Pieces Postmaster: Received at Post Office Name of receiving employee



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Transaction Report Details - CertifiedPro.net Firm Mail Book ID= 253196 Generated: 10/12/2023 9:53:20 AM										
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Exhibit 4.C



tabbies"

# 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 September 29, 2023 and ending with the issue dated September 29, 2023.

Publisher

Sworn and subscribed to before me this 29th day of September 2023.

**Business Manager** 

OF NEW MEXICO anuary 2 NOTARY PUBLIC Seal) **GUSSIE RUTH BLACK** COMMISSION # 1087526 COMMISSION EXPIRES 01/29/2027

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

#### LEGAL NOTICE September 29, 2023

CASE NO. 23807: Notice to all affected parties, as well as heirs and deviaes of: Advance Energy Partners Hat Mess LLC; Apache Corporation; B&J Operating Inc.; Balog Family Trust; Biack Hills Gas Resources, Inc.; Bureau of Land Management; Chesapeake Exploration, LLC; Cimarex Energy Co. of Colorado; COG Operating LLC; Delmar Hudson Lewis Living Trust; Fasken Land & Minerals LTD; Hudson Oll Company of Texas; Hyde Oll & Gas Corp; Jack V. Walker Revocable Trust; Javelina Partners; Lee Wiley Moncriet Trust; Lewis H. Delmar Living Trust; Incoin Oll and Gas LLC; Lindy's Living Trust; Magnum Hunter Production Inc.; Marathon Oll Co.; Mewbourne Oll Co.; New Mexico State Land Office; Pennzenergy Exploration and Production LLC; Read & Stevens Inc.; Select Agua Libre Midstream, LLC; Zorro Partners LTD; Matador Resources Co. of Application of Permian Ollified Partners, LLC for approval of a sait water disposai well in Lea County, New Mexico. The State of New Mexico through its Oli Conservation Division hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on October 19, 2023 to consider this application in formation about accessing the electronic hearing is posted at "OCD NOTICES" approving disposal into the Silurian-Devonian formation through the Overdue form the East line, Unit A. Section 5. Tewnship 20 South, Range 34 East, NMP, Lea County, New Mexico for the purpose of operating a produced water disposal well. Applicant seeks autority to inject produced water into the Silurian-Devonian formation through the Silurian-Devonian formation through the Silurian-Devonian formation through the Overdue approving disposal when the Section 5. Tewnship 20 South, Range 34 East, NMP, Lea County, New Mexico for the purpose of operating a produced water for the well of 50,000 bits per day. Said area is located approximately 18.

miles west of Monument, New Mexico. CASE NO. 23308: Notice to all affected parties, as well as heirs and devises of: Balog Family Truet; Black Hills Gas Resources, Inc.; BP America Production Company; Bureau of Land Management; Burlington Resources Oil & Gas LP; BXP Operating, LLC; BXP Partners V LP; Cargoll & Gas Co., LLC; Chevron USA; Cimarex Eenrgy Co. of Colorado; Cimarex Energy Company; Clarence Hyde Estate; Contango Resources, LLC; Devon Energy Production Company, LLC; EOG Resources Inc.; Frances W. Hyde Inc.; Jack V. Walker Revocable Trust; Lenox Mineral Title Holdings Inc.; Linn Operating, LLC; Matador Production Company; Matador Resources Co.; Merit Energy Company, LLC; Merit Energy Partners D-III; Nadel and Gussman HEYCO, LLC; New Mexico State Land Office; Penroc Oil Corp.; Shogoll & Gas Co II LLC; XTO Energy, Inc. of Application of Permian Oilfield Partners, LLC for approvel of a sait water disposal well in Les County, New Mexico. The State of New Mexico through its Oil Conservation Division hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on October 19, 2023 to consider this application. Information about accessing the electronic hearing is posted at "OCD NOTICES" at <u>https://www.emrd.nm.gov/ocd/hearing-info/</u>. Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Beliated Federal SWD Well #1 well at a surface location 637' from the South line and 208' from the East line, Unit P, Section 27, Township 19 South, Range 34 East, NMMM, 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 14,639 feet to 15,841 feet. Applicant further requests that the Division approve a maximum daily injection rate tor the weil of 50,000 bils per day. Said area is located approximately 18 miles west of Monument, New Mexico.

01104570

Exhibit 4.D

00283241

**DOLORES SERNA** MODRALL, SPERLING, ROEHL, HARRIS & P. O. BOX 2168 ALBUQUERQUE, NM 87103-2168

