

# Initial Application Part I

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*

RECEIVED: <u>05/23/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAm1.9/43 35024</u>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** Permian Oilfield Partners, LLC. **OGRID Number:** 328259  
**Well Name:** Waterfall Federal SWD #1 **API:** 30-025-Pending  
**Pool:** SWD; Devonian-Silurian **Pool Code:** 97869

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location - Spacing Unit - Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling - Storage - Measurement  
 DHC     CTB     PLC     PC     OLS     OLM  
 [ II ] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX     PMX     SWD     IPI     EOR     PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

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

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

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

Sean Puryear

Print or Type Name

Signature

05/20/2019  
Date

(817) 600-8772  
Phone Number

spuryear@popmidstream.com  
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Disposal**  
Application qualifies for administrative approval? **Yes**
- II. OPERATOR: **Permian Oilfield Partners, LLC.**  
ADDRESS: **P.O. Box 1220, Stephenville, TX. 76401**  
CONTACT PARTY: **Sean Puryear** PHONE: **(817) 600-8772**
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? **No**
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: **Sean Puryear**

TITLE: **Manager**

SIGNATURE: 

DATE: **05/13/19**

E-MAIL ADDRESS: **spuryear@popmidstream.com**

- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.

### 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.**

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**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.

**Additional Data**

**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 13,467'

**Underlying Potentially Productive Zones:**

None

## WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.  
Waterfall Federal SWD #1  
759' FNL, 288' FEL  
Sec. 34, T25S, R29E, Eddy Co. NM  
Lat 32.0914833° N, Lon 103.9645387° W  
GL 2994', RKB 3024'

### Surface - (Conventional)

Hole Size: 26"                      Casing: 20" - 94# H-40 STC Casing  
Depth Top: Surface  
Depth Btm: 586'  
Cement: 336 sks - Class C + Additives  
Cement Top: Surface - (Circulate)

### Intermediate #1 - (Conventional)

Hole Size: 17.5"                      Casing: 13.375" - 48# H-40 & 54.5# J-55 STC Casing  
Depth Top: Surface  
Depth Btm: 3253'  
Cement: 1094 sks - Lite Class C (50:50:10) + Additives  
Cement Top: Surface - (Circulate)

### Intermediate #2 - (Conventional)

Hole Size: 12.25"                      Casing: 9.625" - 40# L-80 BTC Casing  
Depth Top: Surface  
Depth Btm: 10338'                      ECP/DV Tool: 3353'  
Cement: 1738 sks - Lite Class C (60:40:0) + Additives  
Cement Top: Surface - (Circulate)

### Intermediate #3 - (Liner)

Hole Size: 8.5"                      Casing: 7.625" - 39# HCL-80 FJ Casing  
Depth Top: 10138'  
Depth Btm: 15491'  
Cement: 257 sks - Lite Class C (60:40:0) + Additives  
Cement Top: 10138' - (Volumetric)

### Intermediate #4 - (Open Hole)

Hole Size: 6.5"                      Depth: 17064'  
Inj. Interval: 15491' - 17064' (Open-Hole Completion)

### Tubing - (Tapered)

Tubing Depth: 15446'                      Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80  
X/O Depth: 10138'                      FJ Casing (Fiberglass Lined)  
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
Packer Depth: 15456'                      Packer: 5.5" - Perma-Pak or Equivalent (Incone!)

## WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.  
Waterfall Federal SWD #1  
759' FNL, 288' FEL  
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Lat 32.0914833° N, Lon 103.9645387° W  
GL 2994', RKB 3024'

### Surface - (Conventional)

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### Intermediate #1 - (Conventional)

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Depth Top: Surface  
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Cement: 1094 sks - Lite Class C (50:50:10) + Additives  
Cement Top: Surface - (Circulate)

### Intermediate #2 - (Conventional)

Hole Size: 12.25"  
Casing: 9.625" - 40# L-80 BTC Casing  
Depth Top: Surface  
Depth Btm: 10338'  
Cement: 1738 sks - Lite Class C (60:40:0) + Additives  
Cement Top: Surface - (Circulate)  
ECP/DV Tool: 3353'

### Intermediate #3 - (Liner)

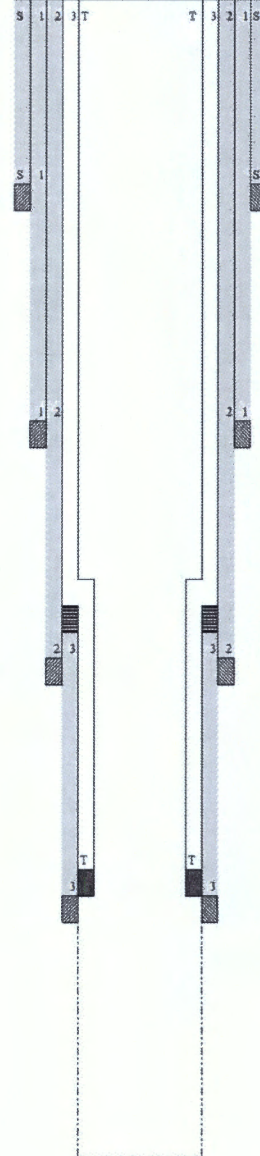
Hole Size: 8.5"  
Casing: 7.625" - 39# HCL-80 FJ Casing  
Depth Top: 10138'  
Depth Btm: 15491'  
Cement: 257 sks - Lite Class C (60:40:0) + Additives  
Cement Top: 10138' - (Volumetric)

### Intermediate #4 - (Open Hole)

Hole Size: 6.5"  
Depth: 17064'  
Inj. Interval: 15491' - 17064' (Open-Hole Completion)

### Tubing - (Tapered)

Tubing Depth: 15446'  
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
X/O Depth: 10138'  
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
Packer Depth: 15456'  
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



**VI:** There are no wells within the proposed well's 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 3,098 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 Go-Tech's website and are listed below.

WELL NAME	COOTER 16 STATE COM #006H	SNAPPING 2 STATE #013H	CHIMAYO 16 STATE #003	SNAPPING 2 STATE #014H
API	3001537876	3001542113	3001538105	3001542688
Latitude	32.123642	32.0654	32.1329002	32.06555986
Longitude	-103.9862061	-103.7498165	-103.9933624	-103.7413815
Section	16	2	16	2
Township	25S	26S	25S	26S
Range	29E	31E	29E	31E
Unit	O	N	F	P
Ftg NS	330S	200S	1610N	250S
Ftg EW	1650E	2375W	1455W	330E
County	EDDY	EDDY	EDDY	EDDY
State	NM	NM	NM	NM
Formation	AVALON UPPER	BONE SPRING 3RD SAND	DELAWARE-BRUSHY	WOLFCAMP
Sample Date	7/22/2011	12/14/2015	2/7/2011	42284
PH	7	6.8	7	7.3
TDS mgL	193732.3	91289.1	192950.9	81366.4
Resistivity Ohm-cm		0.089		0.1004
Sodium_mgL	74027.8	28721.3	73057.6	26319.4
Calcium_mgL	513	3441	776	2687.4
Iron_mgL	104	16.3	94	26.1
Magnesium_mgL	118	437.4	177	326.7
Manganese_mgL	1		1.5	
Chloride_mgL	113441	56957.4	112506	50281.2
Bicarbonate_mgL	1830		3123.2	
Sulfate_mgL	2665	327.9	1981	399.7
CO2_mgL	700	150	980	100



5. Devonian water analysis from the area of review is unavailable. Representative area water analyses were sourced from Go-Tech's website and are listed below.

WELL NAME	ANTELOPE RIDGE UNIT #003	BELL LAKE UNIT #006
API	3002521082	3002508483
Latitude	32.2593155	32.3282585
Longitude	-103.4610748	-103.507103
Sec	34	6
Township	23S	23S
Range	34E	34E
Unit	K	O
Ftg NS	1980S	660S
Ftg EW	1650W	1980E
County	LEA	LEA
State	NM	NM
Field	ANTELOPE RIDGE	BELL LAKE NORTH
Formation	DEVONIAN	DEVONIAN
Sample Source	UNKNOWN	HEATER TREATER
PH	6.9	7
TDS_mgL	80187	71078
Chloride_mgL	42200	47900
Bicarbonate_mgL	500	476
Sulfate_mgL	1000	900

### VIII: Injection Zone Geology

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 carbonates & chert, followed by the Upper Silurian dolomites, and the Lower 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 8%, 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 migrations to USDW's, 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.

Permian Oilfield Partners, LLC.  
 Waterfall Federal SWD #1  
 759' FNL, 288' FEL  
 Sec. 34, T25S, R29E, Eddy Co. NM  
 Lat 32.0914833° N, Lon 103.9645387° W  
 GL 2994', RKB 3024'

<b>GEOLOGY PROGNOSIS</b>			
<b>FORMATION</b>	<b>TOP</b> KB TVD (ft)	<b>BOTTOM</b> KB TVD (ft)	<b>THICKNESS</b> (ft)
Salt	1,011	3,108	2,097
Delaware	3,228	6,840	3,612
Bone Spring	6,840	10,288	3,448
Wolfcamp	10,288	12,078	1,790
Lwr. Mississippian	15,100	15,274	174
Woodford	15,274	15,456	182
Devonian	15,456	16,247	791
Fusselman (Silurian)	16,247	17,089	842
Montoya (U. Ordovician)	17,089	17,471	382
Simpson (M. Ordovician)	17,471	18,201	730

2. According to the New Mexico Office of the State Engineer, there are no fresh water wells nearby or within the proposed well's one-mile area of review. Regionally, shallow fresh water is known to exist at depths less than 462'.
- 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 no fresh water wells nearby or within the proposed well's one-mile area of review.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-</b>		<sup>2</sup> Pool Code <b>97869</b>		<sup>3</sup> Pool Name <b>SWD; DEVONIAN-SILURIAN</b>	
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>WATERFALL FEDERAL SWD</b>			<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID NO. <b>328259</b>		<sup>8</sup> Operator Name <b>PERMIAN OILFIELD PARTNERS, LLC</b>			<sup>9</sup> Elevation <b>2994'</b>

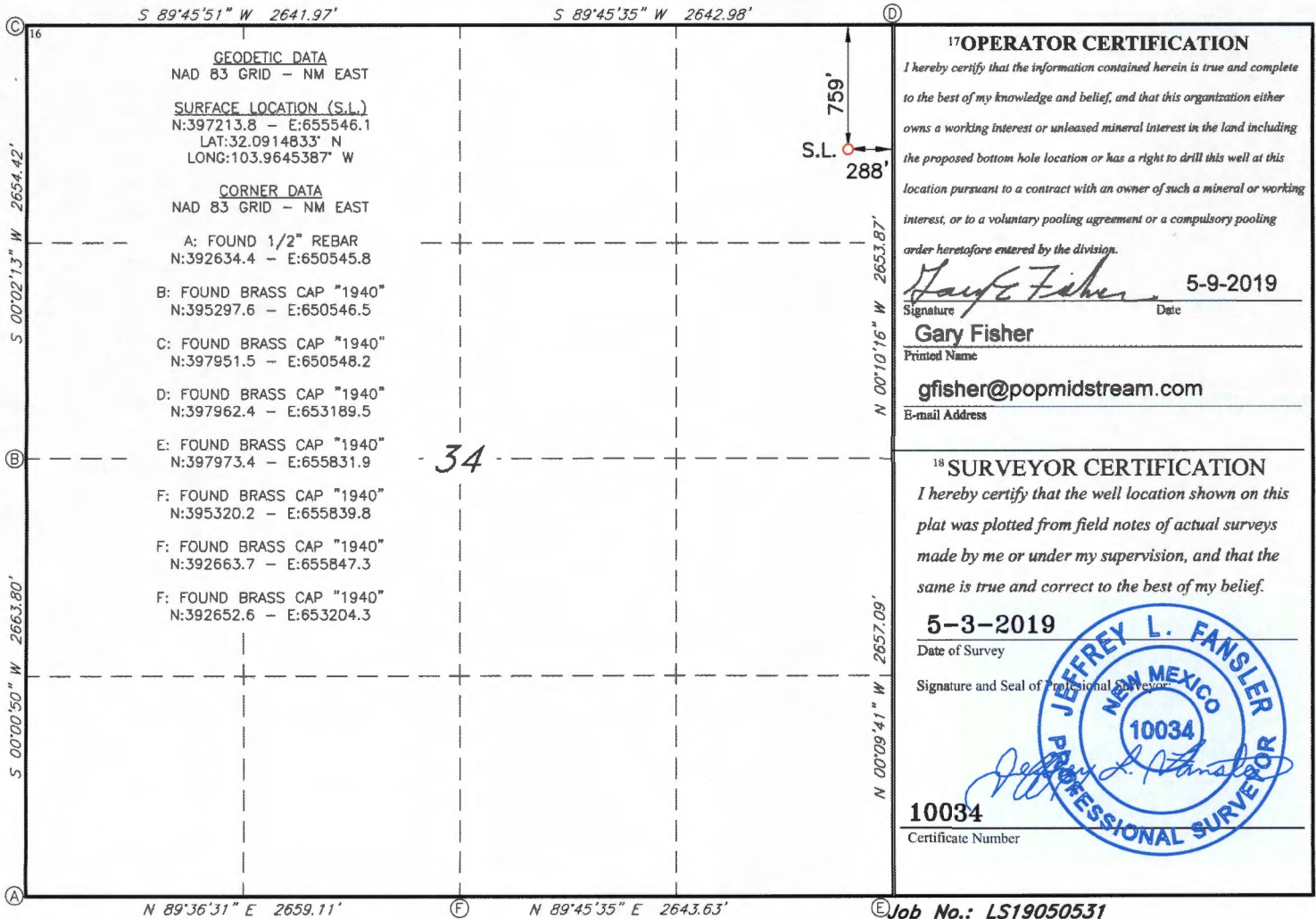
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>A</b>	<b>34</b>	<b>25S</b>	<b>29E</b>		<b>759</b>	<b>NORTH</b>	<b>288</b>	<b>EAST</b>	<b>EDDY</b>

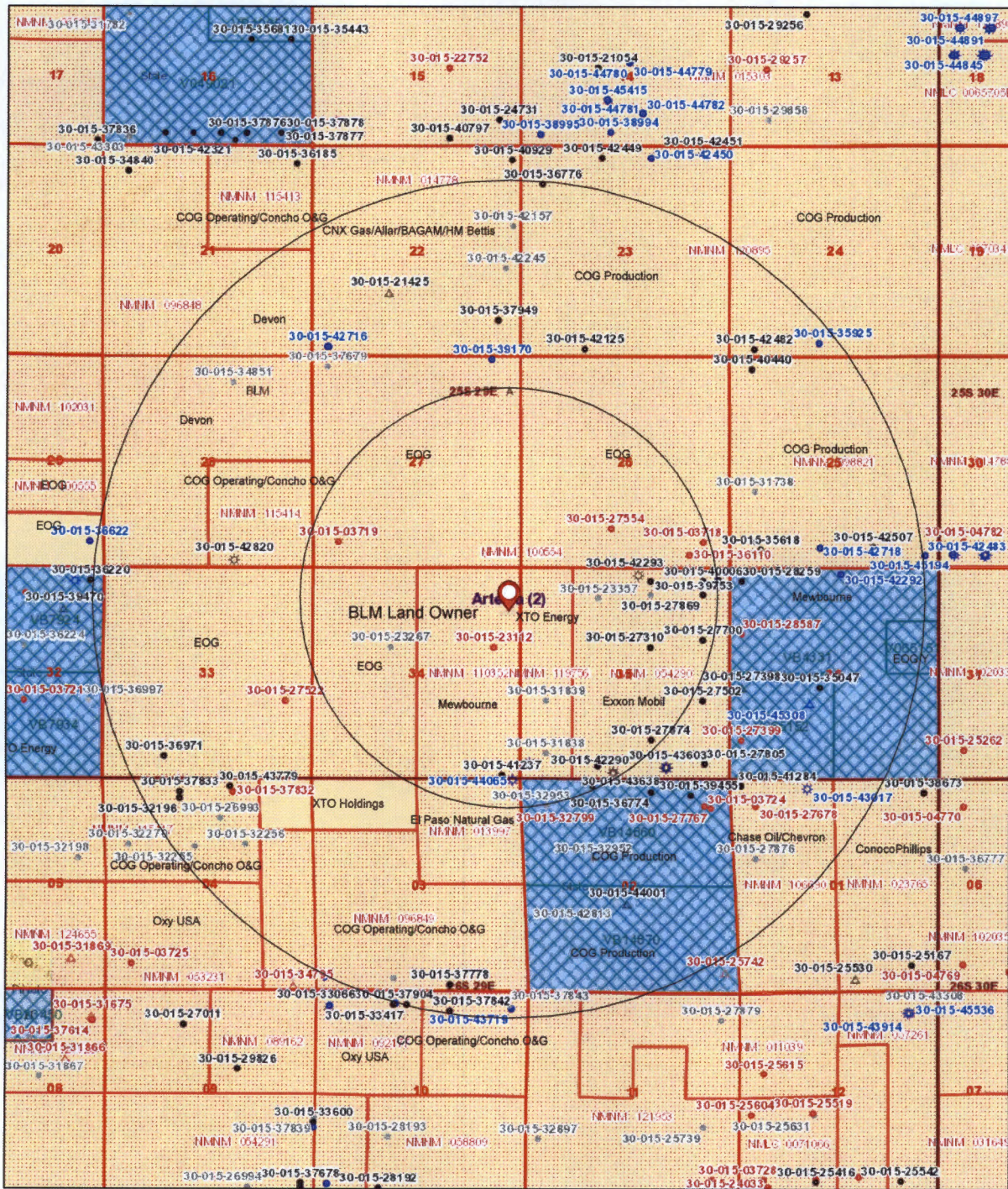
<sup>11</sup> Bottom Hole Location If Different From Surface

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

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

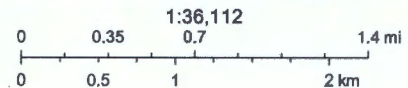


# 1 & 2 Mile AOR, Waterfall Federal SWD #1



5/9/2019, 7:57:00 AM

- |                                     |  |  |
|-------------------------------------|--|--|
|                                     |  |  |
| <b>Well Locations - Small Scale</b> |  |  |
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| <b>Well Locations - Large Scale</b> |  |  |
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U.S. BLM  
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp.,  
 GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,  
 Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c)

New Mexico Oil Conservation Division

Waterfall 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	Benthole Location	Formation	MD	TVD
30-015-03718	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	26	T25S	R29E	P	P-26-25S-29E 660 FSL 660 FEL	P-26-25S-29E 660 FSL 660 FEL	DELAWARE	3381	3381
30-015-03719	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	27	T25S	R29E	M	M-27-25S-29E 660 FSL 660 FVL	M-27-25S-29E 660 FSL 660 FVL	DELAWARE	3145	3145
30-015-23112	DEVON ENERGY PRODUCTION COMPANY, LP	BISON WALLOW UNIT	#001	Oil	Vertical	Plugged, Site Released	34	T25S	R29E	H	H-34-25S-29E 1980 FNL 1980 FNL	H-34-25S-29E 1980 FNL 660 FVL	MORROW	14391	14391
30-015-23267	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	Vertical	Cancelled Awd	34	T25S	R29E	F	F-34-25S-29E 1980 FNL 1980 FNL	F-34-25S-29E 1980 FNL 1980 FNL	MORROW	14400	14400
30-015-23357	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Awd	35	T25S	R29E	C	C-35-25S-29E 760 FNL 1980 FNL	C-35-25S-29E 760 FNL 1980 FNL	MORROW	14400	14400
30-015-27310	SOUTHWEST ROYALTIES INC	NORTH BRUSHY DRAW 35 FEDERAL	#001	Oil	Vertical	Active	35	T25S	R29E	G	G-35-25S-29E 1980 FNL 1980 FNL	G-35-25S-29E 1980 FNL 1980 FNL	DELAWARE	5821	5821
30-015-27524	SOUTHWEST ROYALTIES INC	N BRUSHY DRAW A 35 FEDERAL	#005	Oil	Vertical	Cancelled Awd	35	T25S	R29E	B	B-35-25S-29E 660 FNL 1980 FNL	B-35-25S-29E 660 FNL 1980 FNL	DELAWARE	6000	6000
30-015-27524	EOG Y RESOURCES, INC	CORRAL FED UT	#002	Oil	Vertical	Plugged, Site Released	26	T25S	R29E	N	N-26-25S-29E 990 FSL 2310 FVL	N-26-25S-29E 990 FSL 2310 FVL	DELAWARE	7040	7040
30-015-27700	SOUTHWEST ROYALTIES INC	N BRUSHY DRAW A 35 FEDERAL	#007	Oil	Vertical	Active	35	T25S	R29E	H	H-35-25S-29E 1800 FNL 660 FVL	H-35-25S-29E 1800 FNL 660 FVL	DELAWARE	5760	5760
30-015-27874	SOUTHWEST ROYALTIES INC	N BRUSHY DRAW A 35 FEDERAL	#006	Oil	Vertical	Active	35	T25S	R29E	A	A-35-25S-29E 990 FSL 1980 FNL	A-35-25S-29E 990 FSL 1980 FNL	DELAWARE	5741	5741
30-015-31838	DEVON ENERGY PRODUCTION COMPANY, LP	N BRUSHY DRAW A 35 FEDERAL	#008	Oil	Vertical	Cancelled Awd	35	T25S	R29E	O	O-35-25S-29E 660 FSL 660 FVL	O-35-25S-29E 660 FSL 660 FVL	DELAWARE	5741	5741
30-015-31839	DEVON ENERGY PRODUCTION COMPANY, LP	N BRUSHY DRAW A 35 FEDERAL	#001	Oil	Vertical	Cancelled Awd	35	T25S	R29E	M	M-35-25S-29E 660 FSL 660 FVL	M-35-25S-29E 660 FSL 660 FVL	DELAWARE	7000	7000
30-015-40185	DEVON ENERGY PRODUCTION COMPANY, LP	TESOQUE 35 FEDERAL	#002	Oil	Vertical	Cancelled Awd	35	T25S	R29E	L	L-35-25S-29E 1980 FNL 660 FVL	L-35-25S-29E 1980 FNL 660 FVL	DELAWARE	7000	7000
30-015-36310	EOG RESOURCES INC	TESOQUE 35 FEDERAL	#001Q	Oil	Vertical	Cancelled Awd	35	T25S	R29E	M	M-35-25S-29E 660 FSL 660 FVL	M-35-25S-29E 660 FSL 660 FVL	DELAWARE	7100	7100
30-015-36310	EOG RESOURCES INC	TESOQUE 35 FEDERAL	#001	Oil	Vertical	Plugged, Site Released	26	T25S	R29E	P	P-26-25S-29E 330 FSL 990 FVL	P-26-25S-29E 330 FSL 990 FVL	DELAWARE	5900	5900
30-015-40006	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL 35	#001H	Oil	Horizontal	Active	35	T25S	R29E	B	B-35-25S-29E 330 FSL 1980 FNL	B-35-25S-29E 330 FSL 1675 FVL	BONE SPRING	12113	7652
30-015-40006	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL 35	#002H	Oil	Horizontal	Active	35	T25S	R29E	A	A-35-25S-29E 330 FSL 660 FVL	A-35-25S-29E 313 FSL 659 FVL	BONE SPRING	11743	7373
30-015-40852	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL 35	#003H	Oil	Horizontal	Active	35	T25S	R29E	C	C-35-25S-29E 333 FSL 2008 FVL	C-35-25S-29E 333 FSL 2008 FVL	BONE SPRING	11800	7473
30-015-40852	COG PRODUCTION, LLC	REPOSADO FEDERAL	#003H	Oil	Horizontal	Active	02	T26S	R29E	C	C-02-26S-29E 195 FNL 1841 FVL	C-35-25S-29E 813 FNL 1662 FVL	BONE SPRING	13400	8821
30-015-41337	MEMPHORNE OIL CO	BISON WALLOW 34 FEDERAL	#002H	Oil	Horizontal	Active	34	T25S	R29E	P	P-34-25S-29E 100 FSL 450 FVL	A-34-25S-29E 335 FNL 491 FVL	BONE SPRING	13315	8831
30-015-42790	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL COM 35	#004H	Gas	Horizontal	Active	35	T25S	R29E	N	N-35-25S-29E 175 FSL 2365 FVL	C-35-25S-29E 601 FNL 1967 FVL	WOLFECAMP	14736	10430
30-015-42991	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL COM 35	#005H	Gas	Horizontal	Active	35	T25S	R29E	N	N-35-25S-29E 175 FSL 2365 FVL	C-35-25S-29E 231 FNL 2531 FVL	WOLFECAMP	15411	10593
30-015-42991	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL COM 35	#006H	Gas	Horizontal	Active	35	T25S	R29E	B	B-35-25S-29E 175 FSL 2280 FVL	D-35-25S-29E 236 FNL 2158 FVL	WOLFECAMP	15027	10502
30-015-44992	WPX Energy Permian, LLC	NORTH BRUSHY DRAW FEDERAL COM 35	#013H	Gas	Horizontal	New	35	T25S	R29E	M	M-35-25S-29E 380 FSL 260 FVL	D-35-25S-29E 230 FNL 330 FVL	WOLFECAMP	14891	10195
30-015-44995	MEMPHORNE OIL CO	BISON WALLOW 34 W2PA FEDERAL	#001H	Gas	Horizontal	New	34	T25S	R29E	P	P-34-25S-29E 15 FSL 330 FVL	A-34-25S-29E 330 FNL 330 FVL	WOLFECAMP	15980	11257



**PERMIAN OILFIELD**  
PARTNERS

Statement of Notifications

Re: C-108 Application for SWD Well  
Permian Oilfield Partners, LLC  
Waterfall Federal SWD #1  
Sec. 34, T25S, R29E  
759' FNL, 288' FEL  
Eddy County, NM

Permian Oilfield Partners, LLC has mailed notifications to Affected Persons as per the following list:

Waterfall Federal SWD #1 - Affected Persons within 1 Mile Area of Review					
Notified Name	Notified Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date
Bureau Of Land Management	620 E Greene St.	Carlsbad, NM 88220	USPS	9414811899561847782363	5/20/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561847780918	5/20/2019
EOG Resources, Inc.	P.O. Box 2267	Midland, TX 79702	USPS	9414811899561847780802	5/20/2019
COG Operating, LLC	600 West Illinois Avenue	Midland, TX 79701	USPS	9414811899561847782066	5/20/2019
Concho Oil & Gas, LLC	550 West Texas Avenue, Suite 100	Midland, TX 79701	USPS	9414811899561847782509	5/20/2019
El Paso Natural Gas Company, LLC	1001 Louisiana Street, Suite 1000	Houston, TX 77002	USPS	9414811899561847780246	5/20/2019
COG Production, LLC	400 North Marienfeld Street, Suite 200	Midland, TX 79701	USPS	9414811899561847782455	5/20/2019
XTO Energy Inc.	6401 Holiday Hill Road Building #5	Midland, TX 79707	USPS	9414811899561847780666	5/20/2019
ExxonMobil Oil Corporation	5959 Las Colinas Boulevard	Irving, TX 75039	USPS	9414811899561847780871	5/20/2019
Mewbourne Oil Company	P.O. Box 5270	Hobbs, NM 88241	USPS	9414811899561847780727	5/20/2019
XTO Holdings, LLC	22777 Springwoods Village Parkway	Spring, TX 77389	USPS	9414811899561847780116	5/20/2019

Sean Puryear  
Permian Oilfield Partners, LLC  
[spuryear@popmidstream.com](mailto:spuryear@popmidstream.com)

Date: 5-20-2019

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

ARTICLE NUMBER: 9414 8118 9956 1847 7823 63

ARTICLE ADDRESSED TO:

Bureau of Land Management  
620 E Greene St  
Carlsbad NM 88220-6292

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7809 18

ARTICLE ADDRESSED TO:

New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe NM 87501-2708

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7808 02

ARTICLE ADDRESSED TO:

EOG Resources, Inc.  
PO Box 2267  
Midland TX 79702-2267

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7820 66

ARTICLE ADDRESSED TO:

COG Operating LLC  
600 W Illinois Ave  
Midland TX 79701-4882

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7825 09

ARTICLE ADDRESSED TO:

Concho Oil & Gas LLC  
550 West Texas Ave. Suite 100  
Midland TX 79701-4287

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7802 46

ARTICLE ADDRESSED TO:

El Paso Natural Gas Company, LLC  
1001 Louisiana Street, Suite 1000  
Houston TX 77002-5089

<b>FEES</b>	
Postage Per Piece	\$3.50
Certified Fee	3.50
Total Postage & Fees:	7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7824 55

ARTICLE ADDRESSED TO:

COG Production  
400 North Marienfeld Street, Suite 200  
Midland TX 79701-4559

**FEES**  
Postage Per Piece \$3.50  
Certified Fee 3.50  
Total Postage & Fees: 7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7806 66

ARTICLE ADDRESSED TO:

XTO Energy, Inc.  
6401 Holiday Hill Road Bldg #5,  
Midland TX 79707-2157

**FEES**  
Postage Per Piece \$3.50  
Certified Fee 3.50  
Total Postage & Fees: 7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7808 71

ARTICLE ADDRESSED TO:

ExxonMobil Oil Corp  
5959 Las Colinas Blvd  
Irving TX 75039-4202

**FEES**  
Postage Per Piece \$3.50  
Certified Fee 3.50  
Total Postage & Fees: 7.00



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

ARTICLE NUMBER: 9414 8118 9956 1847 7807 27

ARTICLE ADDRESSED TO:

Mewbourne Oil Co.  
PO Box 5270  
Hobbs NM 88241-5270

**FEES**  
Postage Per Piece \$3.50  
Certified Fee 3.50  
Total Postage & Fees: 7.00



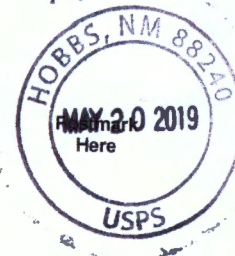
U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1847 7801 16

ARTICLE ADDRESSED TO:

XTO Holdings  
22777 Springwoods Village Parkway  
Spring TX 77389-1425

**FEES**  
Postage Per Piece \$3.50  
Certified Fee 3.50  
Total Postage & Fees: 7.00



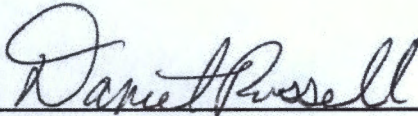


# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

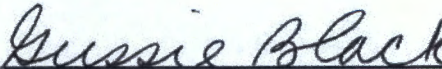
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 14, 2019  
and ending with the issue dated  
May 14, 2019.



Publisher

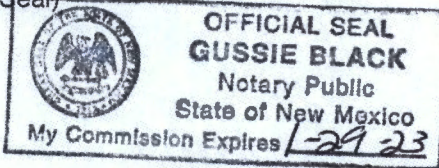
Sworn and subscribed to before me this  
14th day of May 2019.



Business Manager

My commission expires  
January 29, 2023

(Seal)



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

## LEGAL

LEGAL NOTICE  
MAY 14, 2019

### Newspaper Publication Notice

Permian Oilfield Partners, LLC, PO Box 1220, Stephenville, TX 76401, phone (817)608-7630, attention 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 Eddy County, New Mexico. The well name is the Waterfall Federal SWD #1, and is located 759' FNL & 288' FEL, Unit Letter A, Section 34, Township 25 South, Range 29 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 15,491 feet to 17,064 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,098 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.  
#34142

67115647

00228368

GARY FISHER  
PERMIAN OILFIELD PARTNERS, LLC  
PO BOX 1220  
STEPHENVILLE, TX 76401

# Water Wells within 1 Mile, Waterfall Federal SWD #1



5/11/2019, 6:48:26 PM

- Override 1
- PLSS First Division
- PLSS Second Division
- PLSS Townships



Sources: Esri, HERE, Garmin, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 01337</a>	C	C	ED	2	1	30	25S	29E		591926	3552642*	180	30	150
<a href="#">C 01880</a>	C	C	ED	3	3	2	06	25S	29E	592161	3558605*	85	40	45
<a href="#">C 02371</a>	C	C	ED	2	3	15	25S	29E		596741	3555106*	200	60	140
<a href="#">C 02459</a>	C	C	ED	4	4	1	02	25S	29E	598422	3558663*	150		
<a href="#">C 02518</a>	C	C	ED	3	4	08	25S	29E		593895	3556300*	462		
<a href="#">C 02680</a>	CUB	C	ED	2	3	15	25S	29E		596741	3555106*	200		

Average Depth to Water: **43 feet**  
 Minimum Depth: **30 feet**  
 Maximum Depth: **60 feet**

**Record Count:** 6

**PLSS Search:**

**Township:** 25S **Range:** 29E

\*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.

5/9/19 8:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 01354 X-3</a>	CUB	ED	2	1	3	23	26S	29E	598323	3543837	170			
<a href="#">C 02038</a>	C	ED	3	2	4	26	26S	29E	599204	3541992*	200			
<a href="#">C 03507 POD1</a>	C	ED	1	3	3	05	26S	29E	593064	3548313	140	78	62	
<a href="#">C 03508 POD1</a>	C	ED	1	3	3	05	26S	29E	593063	3548361	140	75	65	
<a href="#">C 03605 POD1</a>	CUB	ED	4	2	3	27	26S	29E	596990	3541983	45	0	45	

Average Depth to Water: **51 feet**  
 Minimum Depth: **0 feet**  
 Maximum Depth: **78 feet**

**Record Count:** 5

**PLSS Search:**

**Township:** 26S **Range:** 29E

\*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.

5/9/19 8:36 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



**Item XII. Affirmative Statement**

Re: C-108 Application for SWD Well  
Permian Oilfield Partners, LLC  
Waterfall Federal SWD #1  
Sec. 34, T25S, R29E  
759' FNL, 288' FEL  
Eddy County, NM

Permian Oilfield Partners, LLC. has 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.

A handwritten signature in black ink, appearing to read "Gary Fisher", is written in a cursive style.

Gary Fisher  
Manager  
Permian Oilfield Partners, LLC.

Date: 5/11/2019

**Plugging Risk Assessment  
Permian Oilfield Partners, LLC.  
Waterfall Federal SWD #1  
SL: 759' FNL & 288' FEL  
Sec 34, T25S, R29E  
Eddy County, New Mexico**

**WELLBORE SCHEMATIC**

Permian Oilfield Partners, L.L.C.  
Waterfall Federal SWD #1  
759' FNL, 288' FEL  
Sec. 34, T25S, R29E, Eddy Co. NM  
Lat 32.0914833° N, Lon 103.9645387° W  
GL 2994', RKB 3024'

**Surface - (Conventional)**

Hole Size: 26"  
Casing: 20" - 94# H-40 STC Casing  
Depth Top: Surface  
Depth Btm: 586'  
Cement: 336 sks - Class C + Additives  
Cement Top: Surface - (Circulate)

**Intermediate #1 - (Conventional)**

Hole Size: 17.5"  
Casing: 13.375" - 48# H-40 & 54.5# J-55 STC Casing  
Depth Top: Surface  
Depth Btm: 3253'  
Cement: 1094 sks - Lite Class C (50:50:10) + Additives  
Cement Top: Surface - (Circulate)

**Intermediate #2 - (Conventional)**

Hole Size: 12.25"  
Casing: 9.625" - 40# L-80 BTC Casing  
Depth Top: Surface  
Depth Btm: 10338'  
Cement: 1738 sks - Lite Class C (60:40:0) + Additives  
Cement Top: Surface - (Circulate)  
ECP/DV Tool: 3353'

**Intermediate #3 - (Liner)**

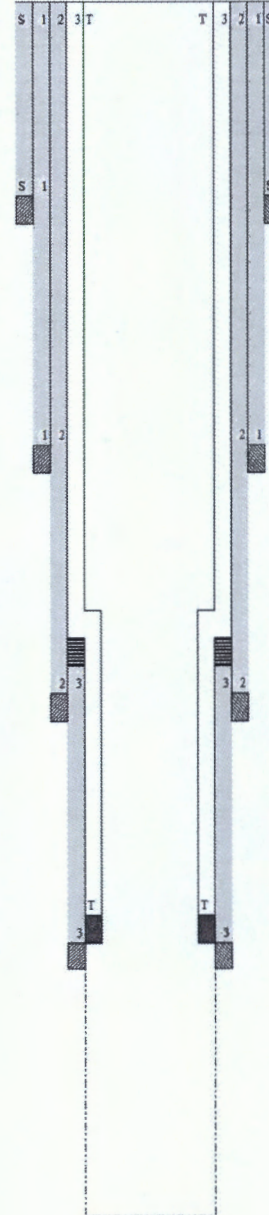
Hole Size: 8.5"  
Casing: 7.625" - 39# HCL-80 FJ Casing  
Depth Top: 10138'  
Depth Btm: 15491'  
Cement: 257 sks - Lite Class C (60:40:0) + Additives  
Cement Top: 10138' - (Volumetric)

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

Hole Size: 6.5"  
Depth: 17064'  
Inj. Interval: 15491' - 17064' (Open-Hole Completion)

**Tubing - (Tapered)**

Tubing Depth: 15446'  
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
X/O Depth: 10138'  
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)  
Packer Depth: 15456'  
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



## 7" UFJ Tubing Inside of 9 5/8" 40# Casing

### Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 6 3/4" to 7 1/4" Inclusive

Maximum Catch Size (Spiral)		6 3/4"	6 7/8"	7"	7 1/8"
Maximum Catch Size (Basket)		5 3/4"	6 1/4"	6 3/4"	6 7/8"
Overshot O.D.		8 1/4"	7 3/4"	8 1/4"	8 3/4"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	Q217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	280

### Replacement Parts

Top Sub	Part No.	A-3033	A-5223	Q218	A-5355
Bowl	Part No.	B-3034	B-5224	Q219	B-5356
Packer	Part No.	A-1814	B-5225	Q224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	Q222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	Q223	B-5360
Standard Guide	Part No.	A-1813	A-5229	Q228	A-5361

### Basket Parts

Basket Grapple	Part No.	N-84	B-5227	Q222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	Q223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	Q224-R	B-5357-R

A 6.375" O.D. Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

7" 26# FJ Casing Inside 9.625" 40# BTC Casing													
Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Type	Body O.D. (in)	Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft	Lined I.D. (in)	Flare I.D. (in)	Lined Drift (in)
	0.840	9 5/8	40.0	L-80	BTC	Casing	9.625	10.625	8.835	8.679	-	-	-
	7	26.0	HCP-110	FJ	Casing	7.000	7.000	6.276	6.151	28.500	6.080	5.940	5.815

\*Red indicates Tubing



# Fishing Procedure

## Overshot Fishing Procedure

### In the Event of a Connection Break

#### - If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

#### - If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.
5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

### In the Event of a Body Break

#### - If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

#### - If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.

5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

### **Spear Fishing Procedure**

**If an overshot cannot be used to retrieve the fish, a spear may be used.**

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
  2. Engage the insert liner inside the tubing with spear.
  3. Pull the insert liner out of the tubing.
  4. Trip out of hole with insert liner.
  5. Trip in hole with spear sized to engage the I.D. of the tubing.
  6. Engage the tubing with spear.
  7. Pick up 2 points over neutral weight.
  8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
  9. Once released from packer, trip out of hole with fish.

### **Inside Diameter Cutting Tool Fishing Procedure**

**If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.**

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
  2. Engage the insert liner inside the tubing with spear.
  3. Pull the insert liner out of the tubing.
  4. Trip out of hole with insert liner.
  5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
  6. Trip out hole with cutting tool.
  7. Trip in hole with spear sized to engage the I.D. of the tubing.
  8. Engage the previously cut tubing segment with spear.
  9. Trip out hole with cut tubing segment and spear.
  10. Trip in hole with overshot and engage fish.
  11. Pick up 2 points over neutral weight.
  12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
  13. Once released from packer, trip out of hole with fish.

## 5 1/2" UFJ Tubing Inside of 7 5/8" 39# Casing

### Series 150 Overshots

Tools are listed in order of maximum catch size.

The following table shows only a partial listing of available NOV Downhole Bowen® overshots.

NOTE: Nitralloy Grapples are available upon request.

#### Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 4 1/4" to 5 1/2" Inclusive

Maximum Catch Size (Spiral)		4%	4%	4%	4%	5	5	5%
Maximum Catch Size (Basket)		3 3/4	4	4 1/4	4 1/2	4 3/4	4 3/4	4 3/4
Overshot O.D.		5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	S.H.
Complete Assembly	Part No.	5898	5998	C-3168	8875	C-3171	C-4825	8825
(Dressed Spiral Parts)	Weight	130	130	133	138	140	102	185

#### Replacement Parts

Top Sub	Part No.	5907	5990	A-5160	8970	A-5172	B-4820	8820
Bowl	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8817
Packer	Part No.	180	1140	B-2190	0114	L-5050	L-4305	8818
Spiral Grapple	Part No.	185	1135	B-2201	0112	B-4360	M-1071	8619
Spiral Grapple Control	Part No.	180	1137	B-2202	0113	B-4370	M-1072	8620
Standard Guide	Part No.	187	1143	B-2203	0121	B-4371	L-1074	8621

#### Basket Parts

Basket Grapple	Part No.	185	1135	B-2201	0112	B-4360	M-1071	8619
Basket Grapple Control	Part No.	180	1137	B-2202	0113	B-4370	M-1072	8620
Mill Control Packer	Part No.	180-R	1140-R	B-2190-R	0114-R	L-5050-R	M-4505	L-8818-R

A (6.625" turned down to 6.500" O.D.) Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

5.5" 17# FJ Casing Inside 7.625" 39# FJ Casing													
Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Type	Body O.D. (in)	Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft	Lined I.D. (in)	Flare I.D. (in)	Lined Drift (in)
0.500	7 5/8	39.0	HCL-80	FJ	Casing	7.625	7.625	6.625	6.500	-	-	-	-
	5 1/2	17.0	HCL-80	FJ	Casing	5.500	5.500	4.892	4.767	18.500	4.520	4.400	4.275

\*Red Indicates Tubing

# Fishing Procedure

## Overshot Fishing Procedure

### In the Event of a Connection Break

#### - If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

#### - If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.
5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

### In the Event of a Body Break

#### - If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

#### - If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.

5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

### **Spear Fishing Procedure**

**If an overshot cannot be used to retrieve the fish, a spear may be used.**

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
  2. Engage the insert liner inside the tubing with spear.
  3. Pull the insert liner out of the tubing.
  4. Trip out of hole with insert liner.
  5. Trip in hole with spear sized to engage the I.D. of the tubing.
  6. Engage the tubing with spear.
  7. Pick up 2 points over neutral weight.
  8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
  9. Once released from packer, trip out of hole with fish.

### **Inside Diameter Cutting Tool Fishing Procedure**

**If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.**

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
  2. Engage the insert liner inside the tubing with spear.
  3. Pull the insert liner out of the tubing.
  4. Trip out of hole with insert liner.
  5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
  6. Trip out hole with cutting tool.
  7. Trip in hole with spear sized to engage the I.D. of the tubing.
  8. Engage the previously cut tubing segment with spear.
  9. Trip out hole with cut tubing segment and spear.
  10. Trip in hole with overshot and engage fish.
  11. Pick up 2 points over neutral weight.
  12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
  13. Once released from packer, trip out of hole with fish.

## **Abandonment Procedure**

**If the tubing cannot be recovered and the well is to be abandoned.**

- The operator will ensure that all geologic formations are properly isolated.
- 1. Confirm the I.D. of the injection tubing is free from obstructions.
- 2. Run in hole with wireline set profile plug.
- 3. Set plug inside of packer assembly.  
(Plug will allow cement to fill the I.D. of the injection tubing and the tubing to casing annulus)
- 4. Run in hole with wireline conveyed perforating guns and perforate the tubing immediately above the packer.
- 5. Trip in hole with an overshot, spear, cement retainer or isolation tool that will provide a work string-to- injection tubing seal.
- 6. Engage the fish with sealing tool.
- 7. Confirm circulation down the tubing and up the tubing-to-casing annulus.
- 8. Cement the work string, injection tubing, injection tubing-to-casing annulus and work string-to-casing annulus to surface.
- 9. Confirm the entirety of the wellbore is cemented to surface and all zones are isolated.
- 10. ND wellhead and install permanent capping flange.



**PERMIAN OILFIELD**  
PARTNERS

**Attachment to C-108**  
**Permian Oilfield Partners, LLC**  
**Waterfall Federal SWD #1**  
**Sec. 34, T25S, R29E**  
**759' FNL, 288' FEL**  
**Eddy County, NM**

May 16, 2019

**STATEMENT REGARDING SEISMICITY**

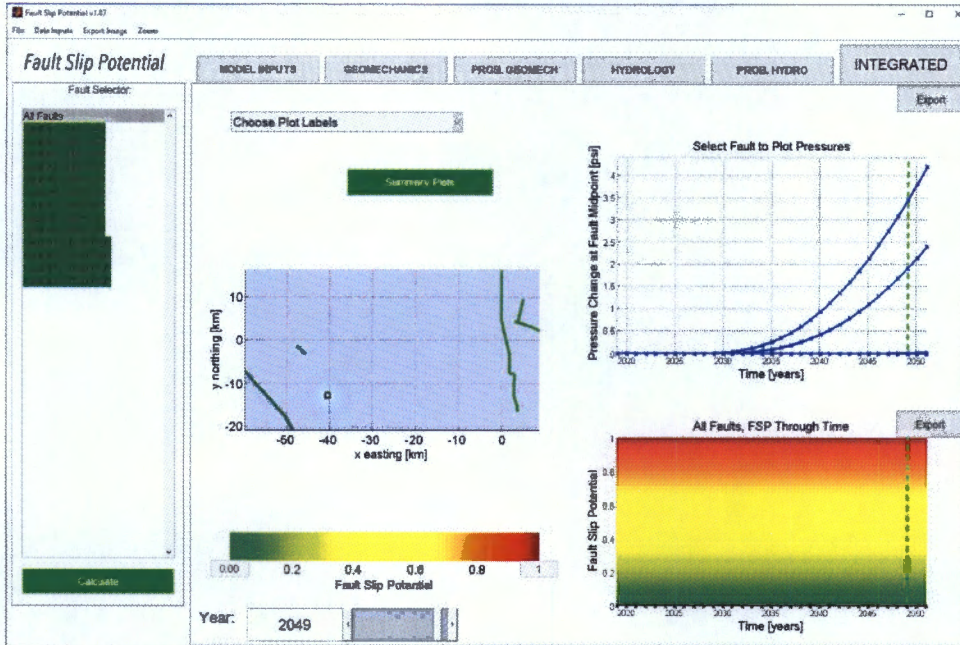
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area (< 30 miles) of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 26.76 miles away @ 63.07 deg heading
2. M3.1, 2012-03-18, 13.76 miles away @ 17.99 deg heading

Permian Oilfield Partners does not own any 2D or 3D seismic data in the area of this proposed SWD well. Our 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. Based on offset well log data, we have not interpreted any faults in the immediate area.
3. Basement PreCambrian 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.
4. Even though we do not propose to inject into the PreCambrian, Permian Oilfield Partners ran modeling to check for fault slip assuming the improbable occurrence of a total downhole well failure that would allow 100% of injected fluids to enter the PreCambrian. 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 PreCambrian fault being stressed so as to create an induced seismic event, with the following assumptions:
  - a. Full proposed capacity of 50,000 BBL/day for 30 years
  - b. 12.5 mD average permeability, 3% average porosity, .75 psi/ft frac gradient, .45 psi/ft hydrostatic gradient

- c.  $A\text{-}\phi=0.60$  & Max Horizontal Stress direction 75 deg NW, as per Snee, Zoback paper noted above.
5. The probability of an induced seismic event in the PreCambrian is calculated to be 0% in any of the documented faults after 30 years as per the FSP results screenshot below. The nearest distance from any of the faults to this well is approximately 11 km.
  6. The analysis below assumes an improbable well failure through the Montoya and Simpson zones, into the PreCambrian. When the injected fluids stay in the Devonian-Silurian zone as per design, there will be very low probability of fault slip, since there are no known nearby faults within the Devonian-Silurian.



As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 1.57 miles away from the nearest active or permitted Devonian disposal well.

*Greg E. Fisher*

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

(817) 606-7630



**McMillan, Michael, EMNRD**

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**From:** Rowell, Cheryl <Cheryl\_Rowell@xtoenergy.com>  
**Sent:** Thursday, May 16, 2019 8:47 AM  
**To:** McMillan, Michael, EMNRD  
**Cc:** Cherry, Tracie; Thompson, Michael; Holcomb, Christian  
**Subject:** [EXT] SWD Protest - Permian Oilfield Partners, LLC

Re: Permian Oilfield Partners, LLC  
Waterfall Federal SWD 1  
Sec 34 T25S-R29E  
Eddy County, New Mexico

Mr. McMillan,

XTO Permian Operating, LLC as an affected party, objects to the referenced application for disposal into the Devonian formation. We believe the location of this disposal well is too close (within 1 mile) of our area of operation and will impact development activity in the area.

XTO requests to be notified of any further activity in regard to the application, including being provided with notice of any hearing scheduled. Should you have any questions, please do not hesitate to contact me or Michael Thompson at (432) 221-7357.

Sent on behalf of Tracie Cherry.

Regards,  
Cheryl Rowell

**Cheryl Rowell**  
Regulatory Coordinator



An **ExxonMobil** Subsidiary  
6401 Holiday Hill Rd, Bldg 5  
Midland, TX 79701  
Phone: 432-571-8205

**McMillan, Michael, EMNRD**

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**From:** McMillan, Michael, EMNRD  
**Sent:** Thursday, May 23, 2019 9:49 AM  
**To:** 'spuryear@popmidstream.com'  
**Cc:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD  
**Subject:** Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1

Sean:

Your application for the Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1 has been suspended.

Your affidavit of publication was published in the Hobbs News-Sun (Lea County)  
It should have been published either in the Artesia or Carlsbad newspaper

As a result your application is suspended

Mike

Michael McMillan  
1220 South St. Francis  
Santa Fe, New Mexico  
505-476-3448  
Michael.mcmillan@state.nm.us

**McMillan, Michael, EMNRD**

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**From:** spuryear@popmidstream.com  
**Sent:** Friday, May 31, 2019 6:07 PM  
**To:** McMillan, Michael, EMNRD  
**Cc:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD  
**Subject:** [EXT] RE: Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1  
**Attachments:** Permian Oilfield Ptrs Waterfall Federal SWD #1 Affidavit of Publication-Eddy County.pdf

Mike,

Please see attached affidavit of publication for the below listed well in the Carlsbad newspaper. Permian Oilfield Partners request the below listed application be returned to the administrative process.

Thanks,  
Sean Puryear

**Chief Executive Officer**  
**Permian Oilfield Partners, LLC**  
**PO Box 3329**  
**Hobbs, NM 88241**  
**(817) 600-8772**  
[spuryear@popmidstream.com](mailto:spuryear@popmidstream.com)



**PERMIAN OILFIELD**  
**PARTNERS**

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**From:** McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>  
**Sent:** Thursday, May 23, 2019 9:49 AM  
**To:** spuryear@popmidstream.com  
**Cc:** Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>  
**Subject:** Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1

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1220 South St. Francis

Santa Fe, New Mexico  
505-476-3448  
[Michael.mcmillan@state.nm.us](mailto:Michael.mcmillan@state.nm.us)

CARLSBAD  
**CURRENT-ARGUS**

**AFFIDAVIT OF PUBLICATION**

Newspaper Publication Notice

Ad No.  
0001286969

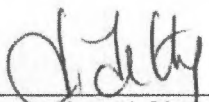
PERMIAN OILFIELD PARTNERS, LLC  
PO BOX 3329

HOBBS NM 88241

Permian Oilfield Partners, LLC, PO Box 1220, Stephenville, TX 76401, phone (817)606-7630, attention 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 Eddy County, New Mexico. The well name is the Waterfall Federal SWD #1, and is located 759' FNL & 288' FEL, Unit Letter A, Section 34, Township 25 South, Range 29 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 15,491 feet to 17,064 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,098 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.  
*May 25, 2019*

I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

05/25/19

  
\_\_\_\_\_  
Legal Clerk

Subscribed and sworn before me this  
28th of May 2019.

  
\_\_\_\_\_  
State of WI, County of Brown  
NOTARY PUBLIC

11/9/21  
\_\_\_\_\_  
My Commission Expires



**McMillan, Michael, EMNRD**

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**From:** McMillan, Michael, EMNRD  
**Sent:** Monday, June 3, 2019 10:55 AM  
**To:** 'spuryear@popmidstream.com'  
**Cc:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Brooks, David K, EMNRD  
**Subject:** RE: [EXT] RE: Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1

Sean:  
The OCD received your affidavit of publication after the close of business on May 31, 2019.

Therefore the 15-day clock will start on June 3, 2019

However, this is a protested application

Mike

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**From:** spuryear@popmidstream.com <spuryear@popmidstream.com>  
**Sent:** Friday, May 31, 2019 6:07 PM  
**To:** McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>  
**Cc:** Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>  
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**Permian Oilfield Partners, LLC**  
PO Box 3329  
Hobbs, NM 88241  
(817) 600-8772  
[spuryear@popmidstream.com](mailto:spuryear@popmidstream.com)



**PERMIAN OILFIELD**  
PARTNERS

---

**From:** McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>  
**Sent:** Thursday, May 23, 2019 9:49 AM

**To:** [spuryear@popmidstream.com](mailto:spuryear@popmidstream.com)

**Cc:** Goetze, Phillip, EMNRD <[Phillip.Goetze@state.nm.us](mailto:Phillip.Goetze@state.nm.us)>; Jones, William V, EMNRD <[WilliamV.Jones@state.nm.us](mailto:WilliamV.Jones@state.nm.us)>

**Subject:** Permian Oilfield Partners, LLC Waterfall Federal SWD Well No. 1

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