

Initial Application Part I

Received: 07/09/2019

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

RECEIVED: 07/09/2019	REVIEWER:	TYPE: SWD	APP NO: pMAM1919128532
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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: Cascade 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

SWD-2185

- 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

<u>FOR OCD ONLY</u>	
<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.

Gary Fisher

Print or Type Name

Gary E Fisher
 Signature

7-9-2019
 Date

(817) 606-7630
 Phone Number

gfisher@popmidstream.com
 e-mail Address



New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Amended C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Cascade Federal SWD #1
Sec. 34, Twp. 25S, Rge. 32E
1336' FNL, 272' FWL
Eddy County, NM

Mr. McMillan,

Permian Oilfield Partners LLC requests to amend our previously submitted C-108 for the Cascade Federal SWD #1, to move the location approximately 2 miles North, to avoid a 1.5 mile distance conflict with a recently approved nearby Devonian SWD permit. Included in this file is the Amended C-108, C-102, 1 & 2 mile area of review map, and list of wells and operators in the 1 mi radius, as well as proof of notice and the affidavit of publication for the Amended location. Also included are a revised fishing assessment and revised seismicity statement. A copy has been mailed to the NMOCD District 2 office in Artesia.

Please let me know if you have any questions or require any other information.

Thanks & regards,

Gary Fisher

Permian Oilfield Partners, LLC
PO Box 3329
Hobbs, NM 88241
Mobile (817)606-7630
gfisher@popmidstream.com

APPLICATION FOR AUTHORIZATION TO INJECT

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

NAME: **Sean Puryear**

TITLE: **Manager**

SIGNATURE: 

DATE: 6/27/2019

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. Previous submission 5-13-2019, relocation approx. 2 miles North to avoid conflict with offset SWD. Sections V-XIII updated for new location.

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

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.

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 14,222'

Underlying Potentially Productive Zones:
None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Cascade Federal SWD #1
1336' FNL, 272' FWL
Sec. 34, T25S, R30E, Eddy Co. NM
Lat 32.0901130° N, Lon 103.8767589° W
GL 3231', RKB 3261'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# H-40 & 106.5# J-55 STC Casing
Depth Top: Surface
Depth Btm: 1138'
Cement: 757 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: 3611'
Cement: 1267 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 & 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 10792' ECP/DV Tool: 3711'
Cement: 1830 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: 10592'
Depth Btm: 16454'
Cement: 270 sks - Lite Class C (60:40:0) + Additives
Cement Top: 10592' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 17922'
Inj. Interval: 16454' - 17922' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 16409' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80
X/O Depth: 10592' FJ Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 16419' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Cascade Federal SWD #1
1336' FNL, 272' FWL
Sec. 34, T25S, R30E, Eddy Co. NM
Lat 32.0901130° N, Lon 103.8767589° W
GL 3231', RKB 3261'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 & 106.5# J-55 STC Casing
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Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

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Depth Top: Surface
Depth Btm: 3611'
Cement: 1267 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 & 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 10792'
Cement: 1830 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 3711'

Intermediate #3 - (Liner)

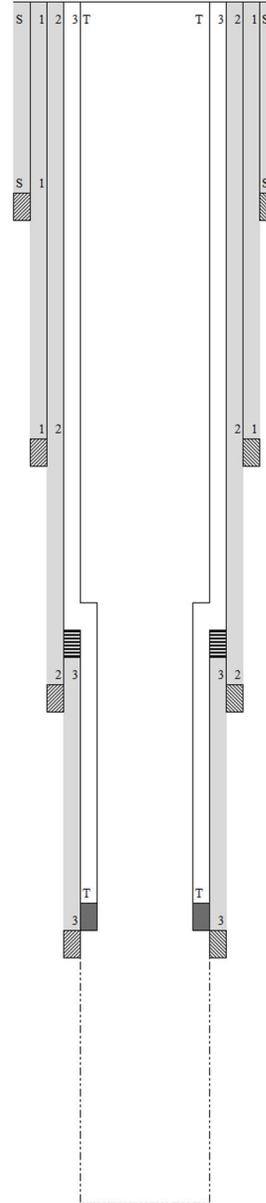
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 10592'
Depth Btm: 16454'
Cement: 270 sks - Lite Class C (60:40:0) + Additives
Cement Top: 10592' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 17922'
Inj. Interval: 16454' - 17922' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 16409'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 10592'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 16419'
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 3,291 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	USA #001	SNAPPING 2 STATE #014H
API	3001537876	3001542113	3001504776	3001542688
Latitude	32.123642	32.0654	32.0288582	32.06555986
Longitude	-103.9862061	-103.7498165	-103.9109955	-103.7413815
Section	16	2	20	2
Township	25S	26S	26S	26S
Range	29E	31E	30E	31E
Unit	O	N	E	P
Ftg NS	330S	200S	2310N	250S
Ftg EW	1650E	2375W	330W	330E
County	EDDY	EDDY	EDDY	EDDY
State	NM	NM	NM	NM
Formation	AVALON UPPER	BONE SPRING 3RD SAND	DELAWARE	WOLFCAMP
Sample Date	7/22/2011	12/14/2015		42284
PH	7	6.8		7.3
TDS mgL	193732.3	91289.1	176882	81366.4
Resistivity Ohm-cm		0.089		0.1004
Sodium_mgL	74027.8	28721.3		26319.4
Calcium_mgL	513	3441		2687.4
Iron_mgL	104	16.3		26.1
Magnesium_mgL	118	437.4		326.7
Manganese_mgL	1			
Chloride_mgL	113441	56957.4	108700	50281.2
Bicarbonate_mgL	1830		139	
Sulfate_mgL	2665	327.9	1332	399.7
CO2_mgL	700	150		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.
 Cascade Federal SWD #1
 1336' FNL, 272' FWL
 Sec. 34, T25S, R30E, Eddy Co. NM
 Lat 32.0901130° N, Lon 103.8767589° W
 GL 3231', RKB 3261'

GEOLOGY PROGNOSIS			
FORMATION	TOP KB TVD (ft)	BOTTOM KB TVD (ft)	THICKNESS (ft)
Salt	1,401	3,442	2,041
Delaware	3,586	7,440	3,854
Bone Spring	7,440	10,742	3,302
Wolfcamp	10,742	12,550	1,808
Lwr. Mississippian	15,917	16,204	287
Woodford	16,204	16,419	215
Devonian	16,419	17,278	859
Fusselman (Silurian)	17,278	17,947	669
Montoya (U. Ordovician)	17,947	18,496	549
Simpson (M. Ordovician)	18,496	19,266	770

2. According to the New Mexico Office of the State Engineer and field exploration, there is 1 fresh water well within the proposed well's one-mile area of review, indicating the presence of freshwater at depths less than 805'. An attempt was made to sample this well, but the wellbore was not located, and no surface equipment exists. Regionally, shallow fresh water is known to exist at depths less than 805'.

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 and field exploration, there is 1 fresh water well within the proposed well's one-mile area of review. An attempt was made to sample this well, but the wellbore was not located, and no surface equipment exists.

Well Name	Formation Name	Depth Top	Depth Bottom	Thickness	Status
C 03782 POD1	None Given	277'	805'	528'	Inactive-not found

XII: Hydrologic affirmative statement attached.

XIII: Proof of notice and proof of publication attached.

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code 97869		³ Pool Name SWD; DEVONIAN-SILURIAN	
⁴ Property Code		⁵ Property Name CASCADE FEDERAL SWD			⁶ Well Number 1
⁷ OGRID NO. 328259		⁸ Operator Name PERMIAN OILFIELD PARTNERS LLC			⁹ Elevation 3231'

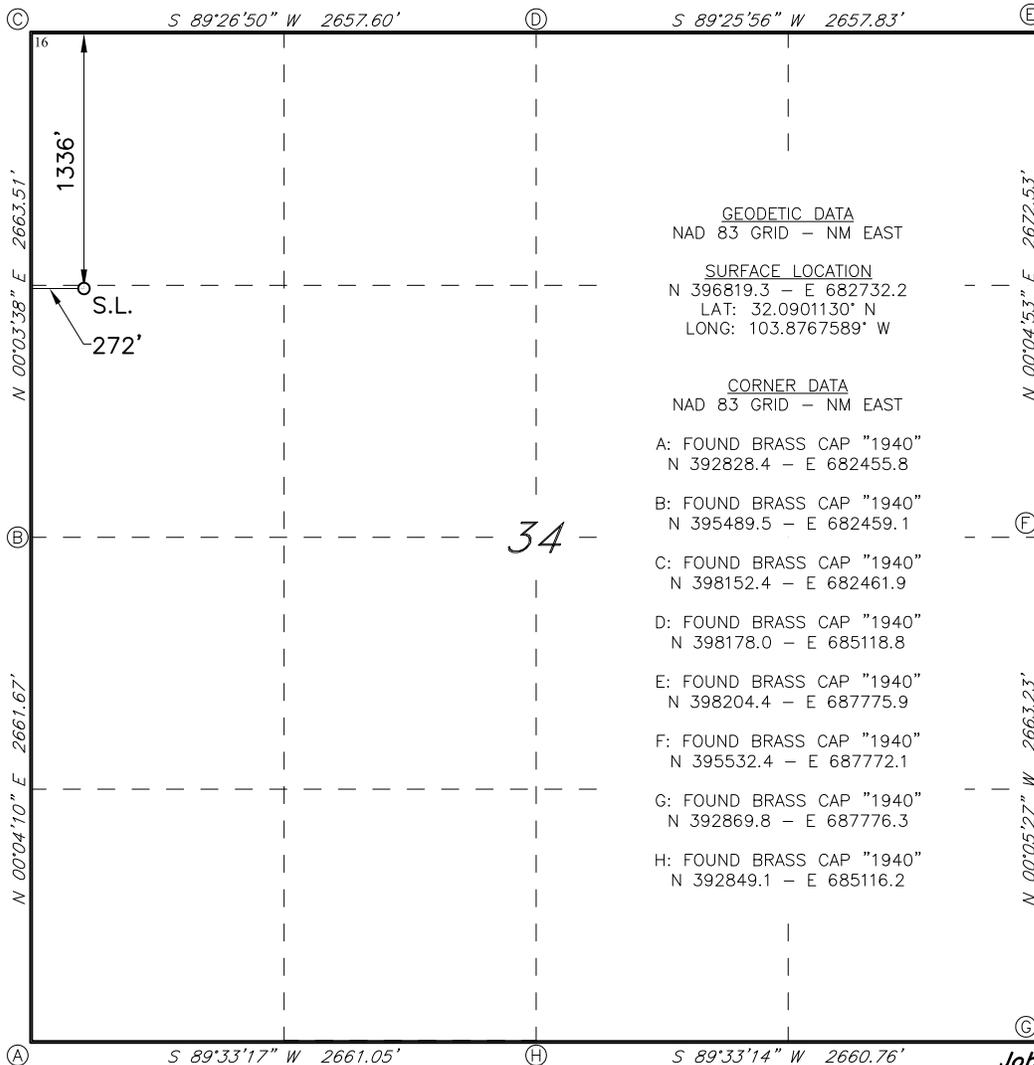
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
E	34	25S	30E		1336	NORTH	272	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

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

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



¹⁷ OPERATOR CERTIFICATION

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

Gary E Fisher 6-27-2019
Signature Date

Gary E Fisher
Printed Name

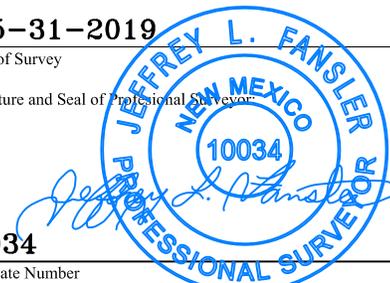
gfisher@popmidstream.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

05-31-2019
Date of Survey

Signature and Seal of Professional Surveyor

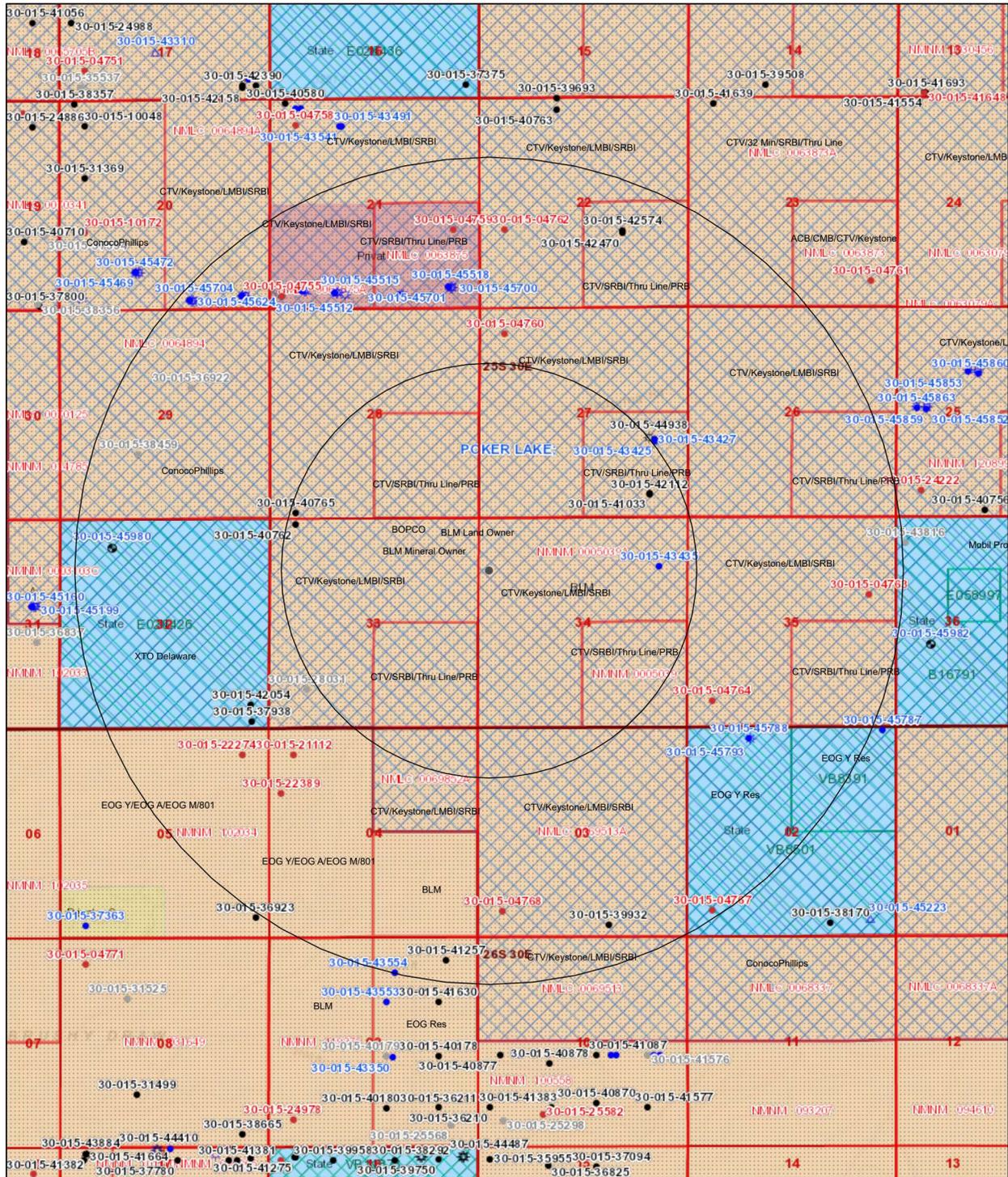


10034
Certificate Number

REV 6/21/19: COUNTY

Job No.: LS19050535R

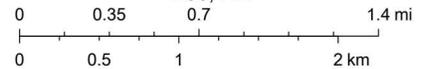
1 & 2 Mile AOR, Cascade Federal SWD #1-Amended



6/27/2019, 3:00:15 PM

- Override 1
- Well Locations - Small Scale**
- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned
- Well Locations - Large Scale**
- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2 Plugged
- CO2 Temporarily Abandoned
- ⊙ Gas Active
- ⊙ Gas, Cancelled, Never Drilled
- ⊙ Gas, New
- ⊙ Gas, Plugged
- ⊙ Gas, Temporarily Abandoned
- ⊙ Injection, Active
- ⊙ Injection, Cancelled
- ⊙ Injection, New
- ⊙ Injection, Plugged
- ⊙ Injection, Temporarily Abandoned
- Oil, Plugged
- Oil, Temporarily Abandoned
- ▲ Salt Water Injection, Active
- ▲ Salt Water Injection, Cancelled
- ▲ Salt Water Injection, New
- ▲ Salt Water Injection, Plugged
- ▲ Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged
- Water, Temporarily Abandoned
- PLS First Division

1:36,112



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)

Cascade 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
30-015-40762	XTO PERMIAN OPERATING LLC.	POKER LAKE CVX JV RR	#007H	Oil	Horizontal	Active	33	T25S	R30E	D	D-33-25S-30E 150 FNL 660 FWL	M-33-25S-30E 330 FSL 660 FWL	Bone Spring	13448	8862
30-015-40765	XTO PERMIAN OPERATING LLC.	POKER LAKE CVX JV RR	#008H	Oil	Horizontal	Active	28	T25S	R30E	M	M-28-25S-30E 150 FSL 660 FWL	D-28-25S-30E 130 FNL 627 FWL	Bone Spring	13792	8937
30-015-41033	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	#421H	Oil	Horizontal	Active	27	T25S	R30E	P	P-27-25S-30E 600 FSL 950 FEL	M-25-25S-30E 1000 FSL 1350 FEL	Delaware	14184	7772
30-015-42112	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	#457	Oil	Horizontal	Active	27	T25S	R30E	P	P-27-25S-30E 560 FSL 950 FEL	M-28-25S-30E 660 FSL 10 FWL	Delaware	17019	7367
30-015-43431	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT	#470H	Oil	Horizontal	New	34	T25S	R30E	A	A-34-25S-30E 900 FNL 900 FEL	D-33-25S-30E 900 FNL 50 FWL	Delaware	17003	7521
30-015-43435	XTO PERMIAN OPERATING LLC.	POKER LAKE UNIT CVX JV PB	#021H	Oil	Horizontal	New	34	T25S	R30E	A	A-34-25S-30E 900 FNL 860 FEL	B-36-25S-30E 900 FNL 1850 FEL	Bone Spring	19100	9829



Statement of Notifications

Re: Amended C-108 Application for SWD Well
 Permian Oilfield Partners, LLC
 Cascade Federal SWD #1
 Sec. 34, Twp. 25S, Rge. 30E
 1336' FNL, 272' FWL
 Eddy County, NM

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

Cascade 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	9414811899561457568562	7/9/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561457567299	7/9/2019
XTO Permian Operating, LLC	6401 Holiday Hill Road Building 5	Midland, TX 79707	USPS	9414811899561457582841	7/9/2019
EOG Y Resources Inc.	104 South 4th Street	Artesia, NM 88210-2123	USPS	9414811899561457582230	7/9/2019
EOG A Resources Inc.	104 South 4th Street	Artesia, NM 88210-2123	USPS	9414811899561457580304	7/9/2019
EOG M Resources Inc.	104 South 4th Street	Artesia, NM 88210-2123	USPS	9414811899561457580007	7/9/2019
801 LLC	P. O. Box 900	Artesia, NM 88211	USPS	9414811899561457719797	7/9/2019
OXY Y-1 Company	5 Greenway Plaza	Houston, TX 77046	USPS	9414811899561457719100	7/9/2019
CTV OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719957	7/9/2019
KEYSTONE OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719971	7/9/2019
LMBI OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719698	7/9/2019
SRBI OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719346	7/9/2019
THRU LINE OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719087	7/9/2019
PRB II 1993C OG NM LLC	201 Main Street	Fort Worth, TX 76102	USPS	9414811899561457719315	7/9/2019

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

Date: 7-9-2019

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1457 5685 62

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



Postmark
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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1457 5672 99

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



Postmark
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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1457 5828 41

ARTICLE ADDRESSED TO:

XTO Permian Operating, LLC
6401 Holiday Hill Rd, Bldg #5
Midland TX 79707-2157

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1457 5822 30

ARTICLE ADDRESSED TO:

EOG Y Resources, Inc.
104 South 4th Street
Artesia NM 88210-2123

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



Postmark
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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1457 5803 04

ARTICLE ADDRESSED TO:

EOG A Resources Inc.
104 South 4th Street
Artesia NM 88210-2123

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



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U.S. Postal Service Certified Mail Receipt

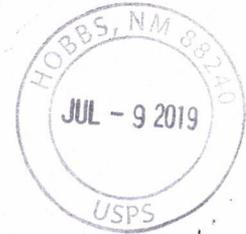
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ARTICLE ADDRESSED TO:

EOG M Resources Inc.
104 South 4th Street
Artesia NM 88210-2123

FEES

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Certified Fee	3.50
Total Postage & Fees:	6.55



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

ARTICLE NUMBER: 9414 8118 9956 1457 7197 97

ARTICLE ADDRESSED TO:

801 LLC
PO Box 900
Artesia NM 88211-0900



FEES	
Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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

ARTICLE NUMBER: 9414 8118 9956 1457 7191 00

ARTICLE ADDRESSED TO:

Oxy Y-1 Company
5 Greenway Plaza
Houston TX 77046-0526



FEES	
Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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

ARTICLE NUMBER: 9414 8118 9956 1457 7199 57

ARTICLE ADDRESSED TO:

CTV OG NM LLC
201 Main Street
Fort Worth TX 76102-3105



FEES	
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Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1457 7199 71

ARTICLE ADDRESSED TO:

Keystone OG NM LLC
201 Main Street
Fort Worth TX 76102-3105



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Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1457 7196 98

ARTICLE ADDRESSED TO:

LMBI OG NM LLC
201 Main Street
Fort Worth TX 76102-3105



FEES	
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Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1457 7193 46

ARTICLE ADDRESSED TO:

SRBI OG NM LLC
201 Main Street
Fort Worth TX 76102-3105



FEES	
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Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1457 7190 87

ARTICLE ADDRESSED TO:

Thru Line OG NM LLC
201 Main Street
Fort Worth TX 76102-3105

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



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

ARTICLE NUMBER: 9414 8118 9956 1457 7193 15

ARTICLE ADDRESSED TO:

PRB II 1993C OG NM LLC
201 Main Street
Fort Worth TX 76102-3105

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55



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CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

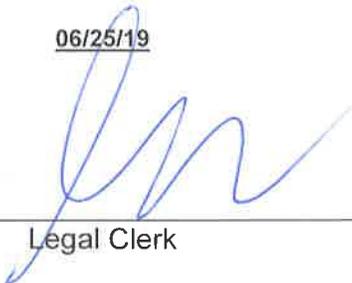
Ad No.
0001289304

PERMIAN OILFIELD PARTNERS, LLC
PO BOX 3329

HOBBS NM 88241

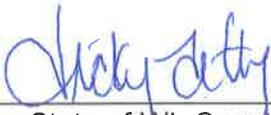
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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:

06/25/19



Legal Clerk

Subscribed and sworn before me this
27th of June 2019.



State of WI, County of Brown
NOTARY PUBLIC

9/19/21

My Commission Expires

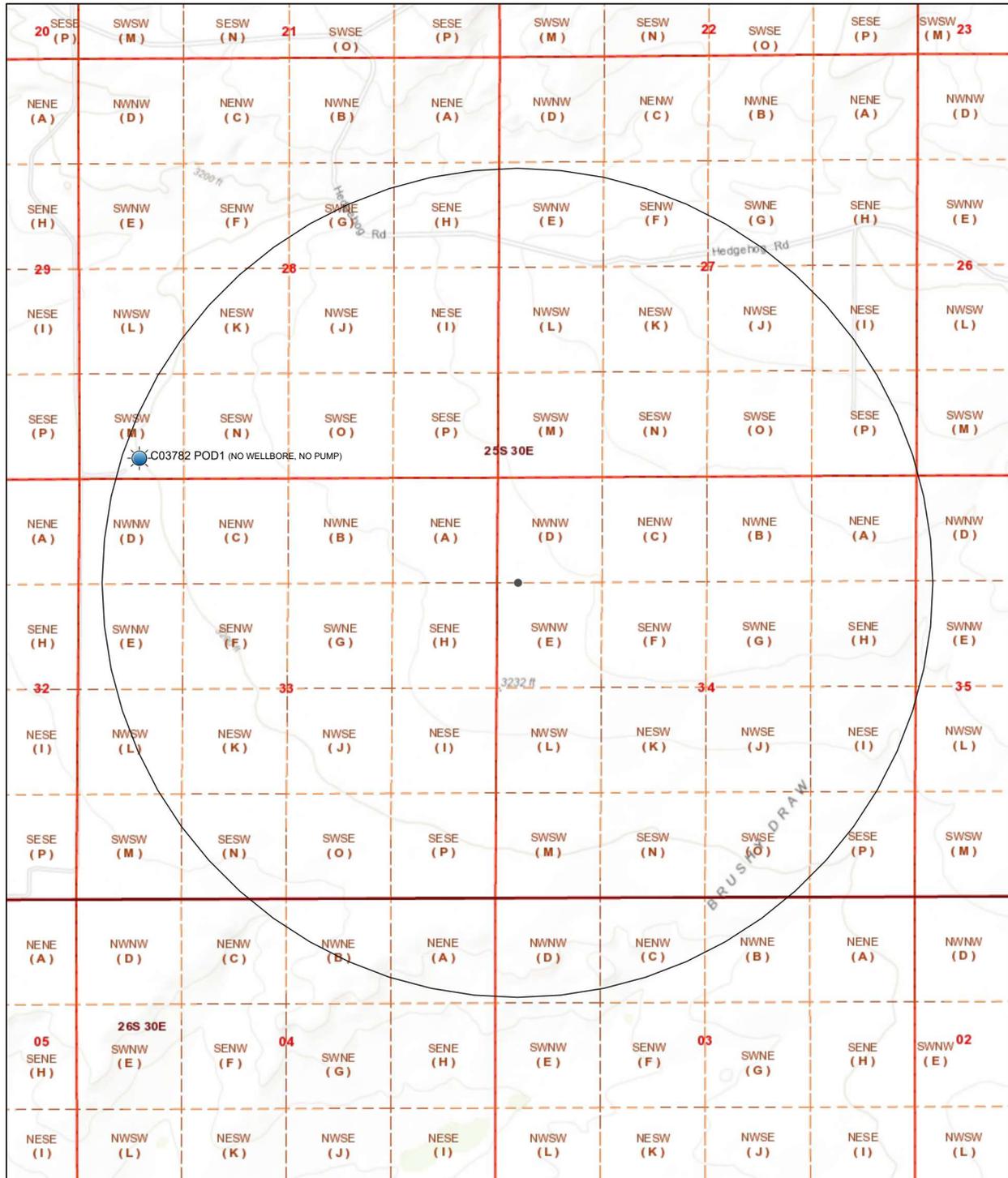
Newspaper Publication Notice
Permian Oilfield Partners, LLC, PO Box 1220, Stephenville, TX 76401, phone (817)606-7630, attention Gary Fisher, has filed an Amended Form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial salt water disposal well in Eddy County, New Mexico. The well name is the Cascade Federal SWD #1, and the amended application seeks to relocate the well to 1336' FNL & 272' FWL, Unit Letter E, Section 34, Township 25 South, Range 30 East, NMPM, approximately 14.8 miles southeast of Malaga, NM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 16,454 feet to 17,922 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,291 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.

Published: June 25, 2019

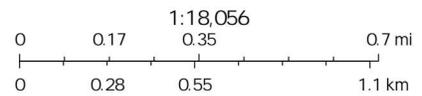


Water Wells in 1 Mile, Cascade Federal SWD #1-Amended



6/27/2019, 12:21:09 PM

-  Override 1
-  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

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03782 POD1	4	3	3	28	25S	30E	604526	3551444

Driller License: 331	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:		
Drill Start Date: 01/16/2015	Drill Finish Date: 01/17/2015	Plug Date:
Log File Date: 02/19/2015	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 8.63	Depth Well: 805 feet	Depth Water: 277 feet

Water Bearing Stratifications:

Top	Bottom	Description
260	320	Sandstone/Gravel/Conglomerate
320	380	Sandstone/Gravel/Conglomerate
380	410	Sandstone/Gravel/Conglomerate
410	530	Shale/Mudstone/Siltstone
530	590	Shale/Mudstone/Siltstone
590	600	Shale/Mudstone/Siltstone
600	630	Shale/Mudstone/Siltstone
630	650	Shale/Mudstone/Siltstone
650	700	Shale/Mudstone/Siltstone
700	710	Shale/Mudstone/Siltstone
710	760	Shale/Mudstone/Siltstone
760	770	Shale/Mudstone/Siltstone
770	780	Shale/Mudstone/Siltstone
780	790	Shale/Mudstone/Siltstone
790	805	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
270	805

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.

6/27/19 11:15 AM

POINT OF DIVERSION SUMMARY



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
C_01379	C	C	ED	4	4	3	10	25S	30E	606571	3556355*	400		
C_03716	POD1	CUB	ED	4	2	2	02	25S	30E	609069	3559211	600	425	175
C_03781	POD1	CUB	ED	3	3	3	13	25S	30E	609306	3554761	720	325	395
C_03782	POD1	CUB	ED	4	3	3	28	25S	30E	604526	3551444	805	277	528
C_03891	POD1	CUB	ED	4	4	2	01	25S	30E	610608	3558890	635	429	206

Average Depth to Water: **364 feet**
 Minimum Depth: **277 feet**
 Maximum Depth: **429 feet**

Record Count: 5

PLSS Search:

Township: 25S **Range:** 30E

*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.

6/27/19 2:23 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Cascade Federal SWD #1
Sec. 34, Twp. 25S, Rge. 30E
1336' FNL, 272' FWL
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". The signature is fluid and cursive, with the first name "Gary" and last name "Fisher" clearly distinguishable.

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 6/27/2019