

RECEIVED: <u>3/20/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAM19079 53737</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: Big Suck Federal SWD #1 **API:** 30-025-Pending
Pool: SWD; Devonian-Silurian **Pool Code:** 97869

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

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application
 Content
 Complete

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

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

Gary Fisher

Print or Type Name

Gary E. Fisher

Signature

3/18/2019

Date

817-606-7630

Phone Number

gfisher@permianoilfieldpartners.com

e-mail Address

Permian Oilfield Partners, LLC.

P.O. Box 1220, Stephenville, TX. 76401 | (817) 606-7630 | gfisher@permianoilfieldpartners.com

3/19/2019

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

Re: Addendum to previously submitted C-108 dated 2/22/2019

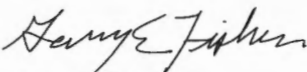
Permian Oilfield Partners, LLC.
C-108 Application for Authorization to inject
Big Suck Federal SWD #1
1397' FNL & 212' FEL
Section 30, T26S, R33E
Lea County, New Mexico

Mr. Goetze:

This letter is an addendum to the C108 application for the above listed SWD well, by Permian Oilfield Partners LLC.

Enclosed please find the additional information required for the administrative approval of this requested C108 application. Please contact me with any further questions.

Sincerely,



Gary Fisher
Operations Manager
Permian Oilfield Partners, LLC.

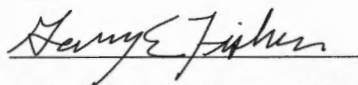
Enclosure

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: **Gary Fisher** **PHONE:** **(817) 606-7630**
- 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: **Gary Fisher**

TITLE: **Manager**

SIGNATURE: 

DATE: **03/18/2019**

E-MAIL ADDRESS: **gfisher@permianoilfieldpartners.com**

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: 2/23/2019, clarify dates of notification

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 15,435'

Underlying Potentially Productive Zones:
None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.

Big Suck Federal SWD #1

1397' FNL, 212' FEL

Sec. 30, T26S, R33E, Lea Co. NM

Lat 32.017923° N, Lon 103.603485° W

GL 3174', RKB 3204'

Surface - (Conventional)

Hole Size: 26"

Casing: 20" - 94# H-40 STC Casing

Depth Top: Surface

Depth Btm: 740'

Cement: 453 sks - Class C + Additives

Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"

Casing: 13.375" - 61# J-55 STC Casing

Depth Top: Surface

Depth Btm: 4727'

Cement: 1532 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: 12072'

ECP/DV Tool: 4827'

Cement: 2048 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: 11872'

Depth Btm: 17366'

Cement: 261 sks - Lite Class C (60:40:0) + Additives

Cement Top: 11872' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"

Depth: 18972'

Inj. Interval: 17366' - 18972' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17321'

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

X/O Depth: 11872'

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

Packer Depth: 17331'

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

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Big Suck Federal SWD #1
1397' FNL, 212' FEL
Sec. 30, T26S, R33E, Lea Co. NM
Lat 32.017923° N, Lon 103.603485° W
GL 3174', RKB 3204'

Surface - (Conventional)

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Depth Top: Surface
Depth Btm: 4727'
Cement: 1532 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: 12072'
Cement: 2048 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4827'

Intermediate #3 - (Liner)

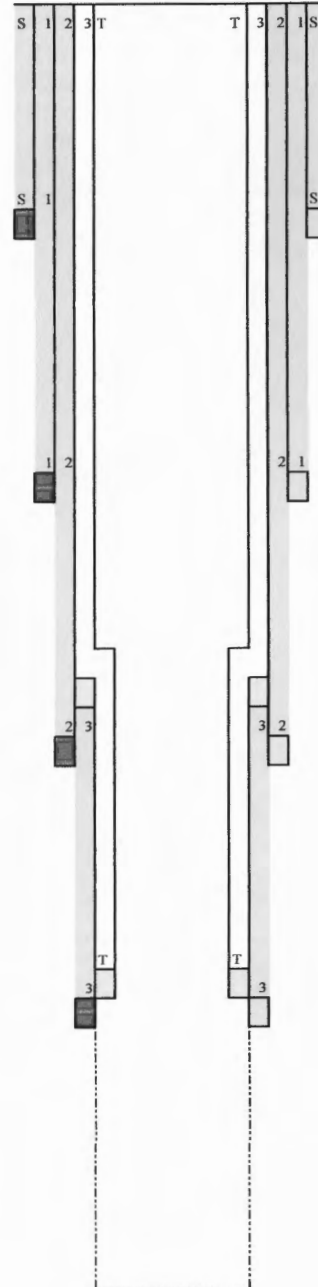
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11872'
Depth Btm: 17366'
Cement: 261 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11872' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18972'
Inj. Interval: 17366' - 18972' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17321'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11872'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17331'
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



VI: There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

VII:

1. The average injected volume anticipated is 49,875 BWPD
The maximum injected volume anticipated is 66,500 BWPD
2. Injection will be through a closed system
3. The average injection pressure anticipated is 1,696 psi
The proposed maximum injection pressure is 3,473 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	FIGHTING OKRA 18 FEDERAL COM #001H	SALADO DRAW 6 FEDERAL #001H	RATTLESNAKE 13 12 FEDERAL COM #001H	SNAPPING 2 STATE #014H
api	3002540382	3002541293	3002540912	3001542688
latitude	32.0435333	32.0657196	32.0369568	32.06555986
longitude	-103.5164566	-103.5146942	-103.416214	-103.7413815
section	18	6	13	2
township	26S	26S	26S	26S
range	34E	34E	34E	31E
unit	E	M	P	P
ftgns	2590N	200S	330S	250S
ftgew	330W	875W	330E	330E
county	Lea	Lea	Lea	EDDY
state	NM	NM	NM	NM
formation	AVALON UPPER	BONE SPRING 3RD SAND	DELAWARE-BRUSHY CANYON	WOLFCAMP
sampledate	42046	41850	41850	42284
ph	8	6.6	6.2	7.3
tds_mgL	201455.9	99401.9	243517.1	81366.4
resistivity_ohm_cm	0.032	0.064	0.026	0.1004
sodium_mgL	66908.6	34493.3	73409.8	26319.4
calcium_mgL	9313	3295	15800	2687.4
iron_mgL	10	0.4	18.8	26.1
magnesium_mgL	1603	396.8	2869	326.7
manganese_mgL	1.6	0.37	3.12	
chloride_mgL	121072.7	59986.5	149966.2	50281.2
bicarbonate_mgL	1024.8	109.8	48.8	
sulfate_mgL	940	710	560	399.7
co2_mgL	1950	70	200	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
ftgns	1980S	660S
ftgew	1650W	1980E
county	LEA	LEA
state	NM	NM
field	ANTELOPE RIDGE	BELL LAKE NORTH
formation	DEVONIAN	DEVONIAN
samplesource	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 what we are calling the Devonian-Silurian series of formations. This sequence is bounded on top by the Upper Devonian Woodford shale. Underneath the Woodford is the first injection formation, the Lower Devonian Thirtyone formation, consisting of dolomitic carbonates & chert, followed by the Upper Silurian Wristen Dolomite, and the Lower Silurian Fusselman Dolomite. The lower bound is the top of the Upper Ordovician Montoya Limestone. 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.

The injection formations are generally mixed as to rock types and deposition, with a preponderance of calcareous and siliceous sediments having been laid down, and then weathered to differing degrees due to rising and falling sea levels. This varied sequence of events led to large intervals of dolomitization mixed with intervals of limestones & cherts, relatively high primary porosities, high secondary porosities in the form of vugs and karsts, and intervals of mudstones, packstones and the like breaking up the relatively low porosity grainstones.

The Devonian-Silurian sequence is ideally suited for SWD purposes, with a low permeability shale barrier over the top to prevent upward fluid migrations to USDW's, sufficient permeability, primary & secondary porosities in zone, and multiple formations available over a large depth range. This large injection depth range allows an equivalently large injection surface area, keeping injection pressures low, even at higher rates.

GEOLOGY PROGNOSIS			
FORMATION	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>
	KB TVD (ft)	KB TVD (ft)	(ft)
Salt	1,071	4,565	3,493
Delaware	4,702	8,943	4,240
Bone Spring	8,943	12,022	3,080
Wolfcamp	12,022	13,171	1,149
Lwr. Mississippian	16,826	17,136	310
Woodford	17,136	17,331	195
Devonian	17,331	18,997	1,666
Montoya	18,997	19,549	552

2. According to the NM State Engineer's website, there are no underground sources of fresh water present within the proposed injection wells area of review. There are no underground sources of fresh water present below the injection interval.
- IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X:** A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI:** According to the New Mexico Office of the State Engineer, there are no water wells within the proposed well's one-mile area of review. There are no fresh water sources present below the proposed injection interval.
- 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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code		Pool Name	
Property Code		Property Name BIG SUCK FEDERAL SWD			Well Number 1
OGRID No.		Operator Name PERMIAN OILFIELD PARTNERS, LLC			Elevation 3174'

Surface Location

UL or lot No. H	Section 30	Township 26-S	Range 33-E	Lot Idn	Feet from the 1397	North/South line NORTH	Feet from the 212	East/West line EAST	County LEA
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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
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=370966.1 N X=726352.9 E LAT.=32.017797° N LONG.=103.603018° W		GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y=371023.1 N X=767540.6 E LAT.=32.017923° N LONG.=103.603485° W	
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S.L. 212'

1397'

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Gary Fisher 3-14-2019
Signature Date
Gary Fisher
Printed Name
gfisher@permianoilfieldpartners.com
E-mail Address

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.

FEBRUARY 20, 2019

Date of Survey
Signature & Seal of Professional Surveyor:

Ronald J. Eidson
3239
Certificate Number
Gary G. Eidson 12641
Ronald J. Eidson 3239
ACK JWSC W.O.: 19.11.0092

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name BIG SUCK FEDERAL SWD		Well Number 1
OGRID No.	Operator Name PERMIAN OILFIELD PARTNERS, LLC		Elevation 3174'

Surface Location

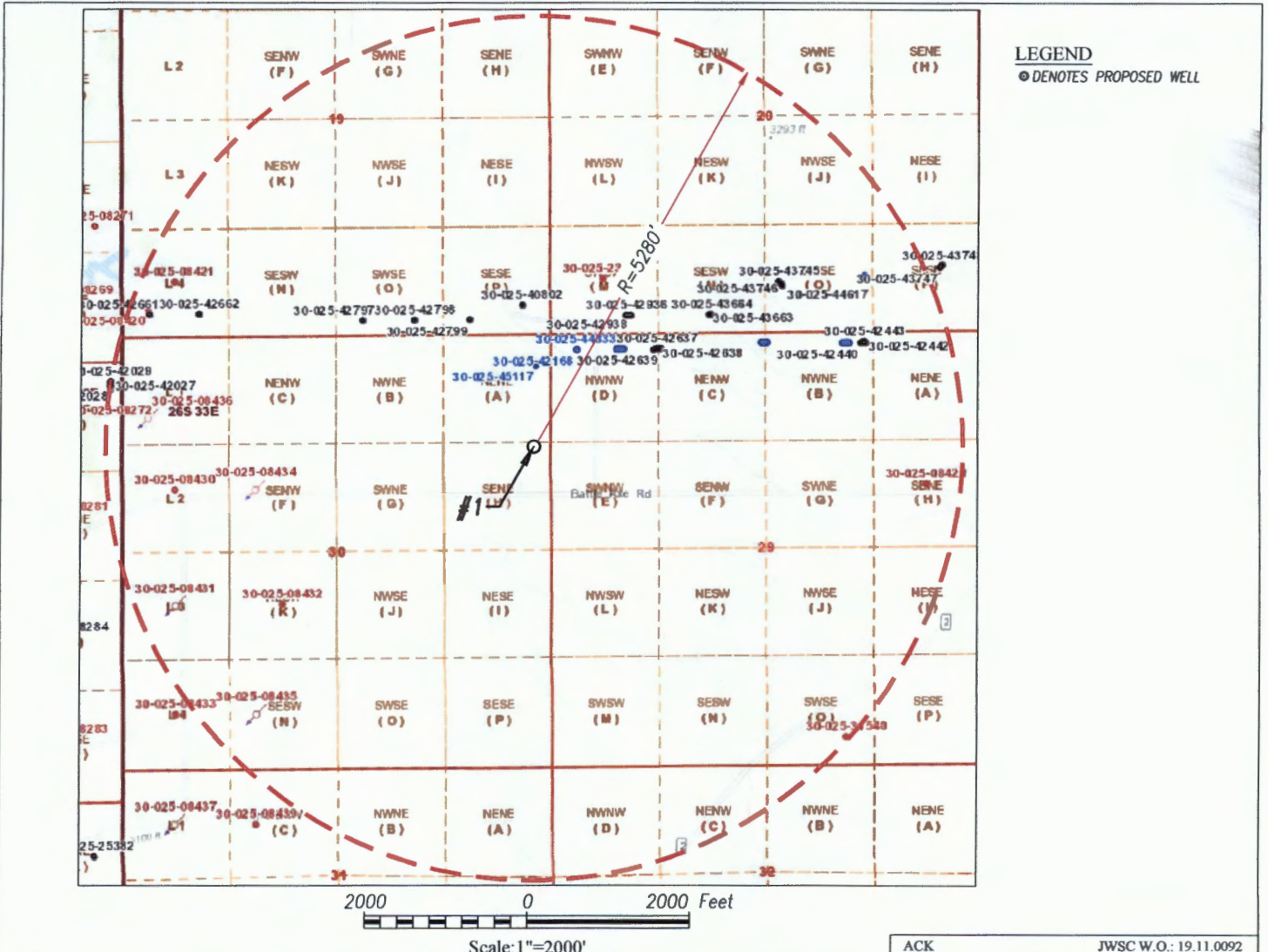
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	30	26-S	33-E		1397	NORTH	212	EAST	LEA

Bottom Hole Location If Different From Surface

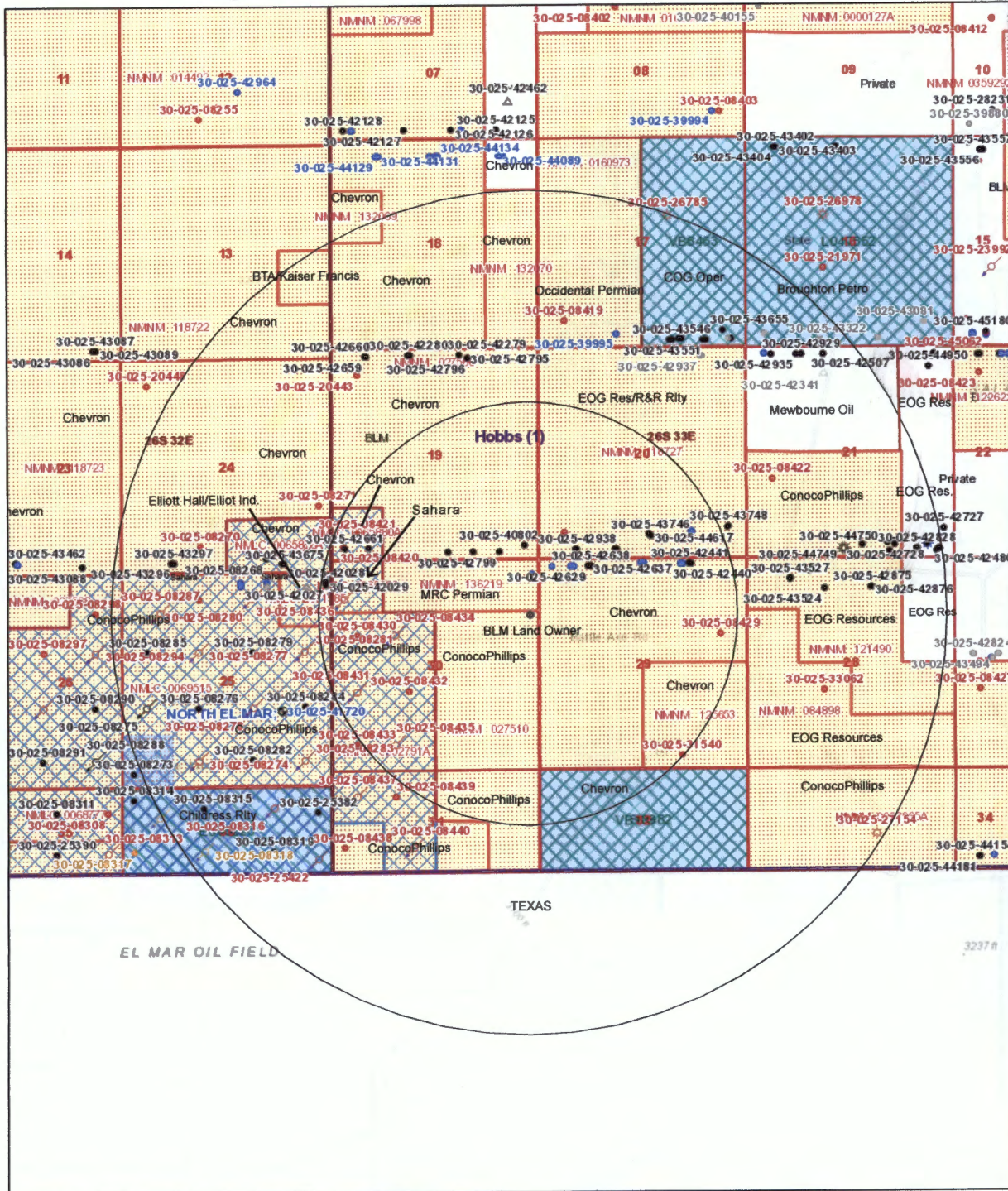
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

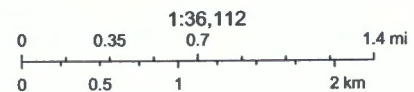


Big Suck Federal SWD #1, 1 & 2 Mile AOI



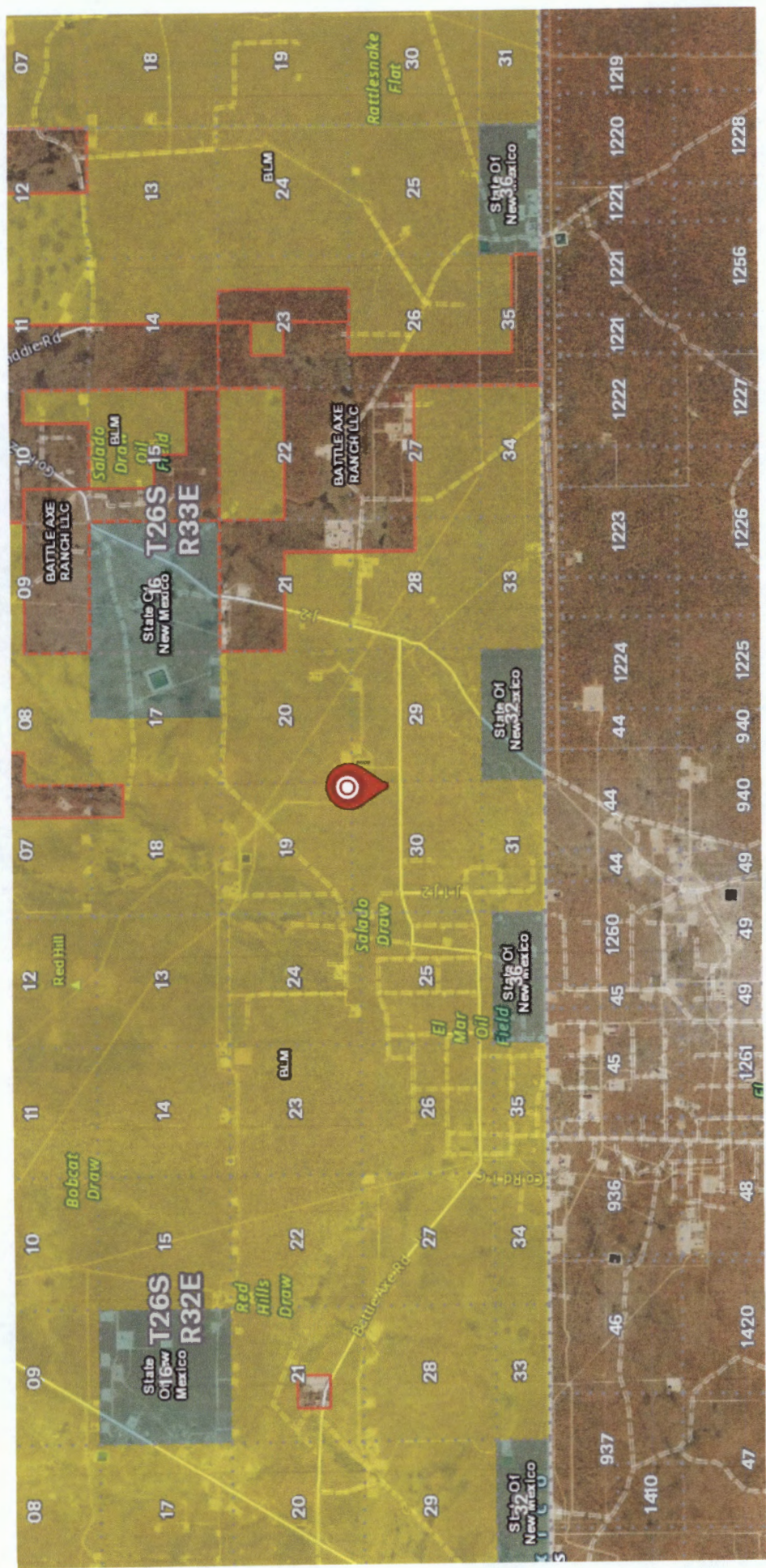
3/9/2019, 9:38:49 AM

- Lines
- Override 1
 - Override 2
 - 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, Active
 - Oil, Cancelled
 - Oil, New
 - 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



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).

New Mexico Oil Conservation Division



Permian Oilfield Partners, LLC.

P.O. Box 1220, Stephenville, TX. 76401 | (817) 606-7630 | gfisher@permianoilfieldpartners.com

Statement of Notifications

C-108 Application for Authorization to inject

Big Suck Federal SWD #1

1397' FNL & 212' FEL

Section 30, T26S, R33E

Lea County, New Mexico

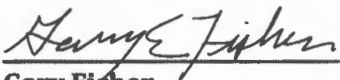
Permian Oilfield Partners, LLC. has mailed notifications to offset operators & leaseholders as per the following list.

Big Suck Federal SWD #1 - List of Operators Notified

Operator Name	Operator Address	Operator City, State, ZIP Code	Shipper	Tracking Number	Date Mailed
SAHARA OPERATING CO	P.O. Box 4130	Midland, TX 79704	USPS	70182290000160712914	3/11/2019
CURTIS HANKAMER	9039 Katy Freeway Ste 430	Houston, TX 77024	USPS	70182290000160713027	3/11/2019
QUAY VALLEY INC.	P.O. Box 10280	Midland, TX 79702	USPS	70182290000160713034	3/11/2019
LIME ROCK RESOURCES A, L.P.	1111 Bagby Street Suite 4600	Houston, TX 77002	USPS	70182290000160713010	3/11/2019
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX 79706	USPS	70182290000160712990	3/11/2019
CONOCOPHILLIPS COMPANY	P.O. Box 2197 Office EC3-10-W285	Houston, TX 77252	USPS	70182290000160713003	3/11/2019
EOG RESOURCES INC	P.O. Box 2267	Midland, TX 79702	USPS	70182290000160712969	3/11/2019
MATADOR PRODUCTION COMPANY	One Lincoln Centre 5400 LBJ Freeway, Ste 1500	Dallas, TX 75240	USPS	70182290000160712976	3/11/2019

Big Suck Federal SWD #1 - List of Leaseholders Notified

Leaseholder Name	Leaseholder Address	Leaseholder City, State, ZIP Code	Shipper	Tracking Number	Date Mailed
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX 79706	USPS	70182290000160712990	3/11/2019
CONOCOPHILLIPS COMPANY	P.O. Box 2197 Office EC3-10-W285	Houston, TX 77252	USPS	70182290000160713003	3/11/2019
EOG RESOURCES INC	P.O. Box 2267	Midland, TX 79702	USPS	70182290000160712969	3/11/2019
MRC Permian	5400 LBJ Freeway, Suite 1500	Dallas, TX 75240	USPS	70182290000160712983	3/11/2019
R&R Royalty, Ltd	500 N. Shoreline Boulevard, Suite 322	Corpus Christi, Texas 78401	USPS	70182290000160712938	3/11/2019
Elliott Industries, LP	500 North Kentucky Avenue	Roswell, NM 88201	USPS	70182290000160712952	3/11/2019
Elliott Hall Co UT, LP	2668 Grant Avenue, Suite 104	Ogden, UT 84401	USPS	70182290000160712945	3/11/2019
SAHARA OPERATING CO	P.O. Box 4130	Midland, TX 79704	USPS	70182290000160712914	3/11/2019
New Mexico State Land Office	2827 N Dal Paso St Suite 117	Hobbs, NM 88240	USPS	70182290000160713041	3/11/2019
Bureau of Land Management	620 E Greene St	Carlsbad, NM 88220	USPS	70182290000160713058	3/11/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899560604668964	3/19/2019



Gary Fisher
Manager
Permian Oilfield Partners, LLC.

03/19/2019
Date

7018 2290 0001 6071 2990

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Dallas, TX 75240 M

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ARTICLE NUMBER: 9414 8118 9956 0604 6689 64

ARTICLE ADDRESSED TO:

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

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Postage Per Piece	\$3.200
Certified Fee	3.500
Total Postage & Fees:	6.700

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3/19/19

BJS

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
March 12, 2019
and ending with the issue dated
March 12, 2019.


Publisher

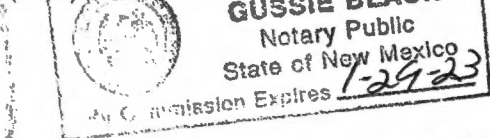
Sworn and subscribed to before me this
12th day of March 2019.


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

LEGALS

LEGAL NOTICE
MARCH 12, 2019

Permian Oilfield Partners, LLC, P.O. 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 Lea County, New Mexico. The well name is the Big Suck Federal SWD #1, and is located 1397' FNL & 212' FEL, Unit Letter H, Section 30, Township 26 South, Range 33 East, NMNM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 17,366-18,972. The maximum expected injection rate is 66,500 BWPD at a maximum surface injection pressure of 3,473 psi.

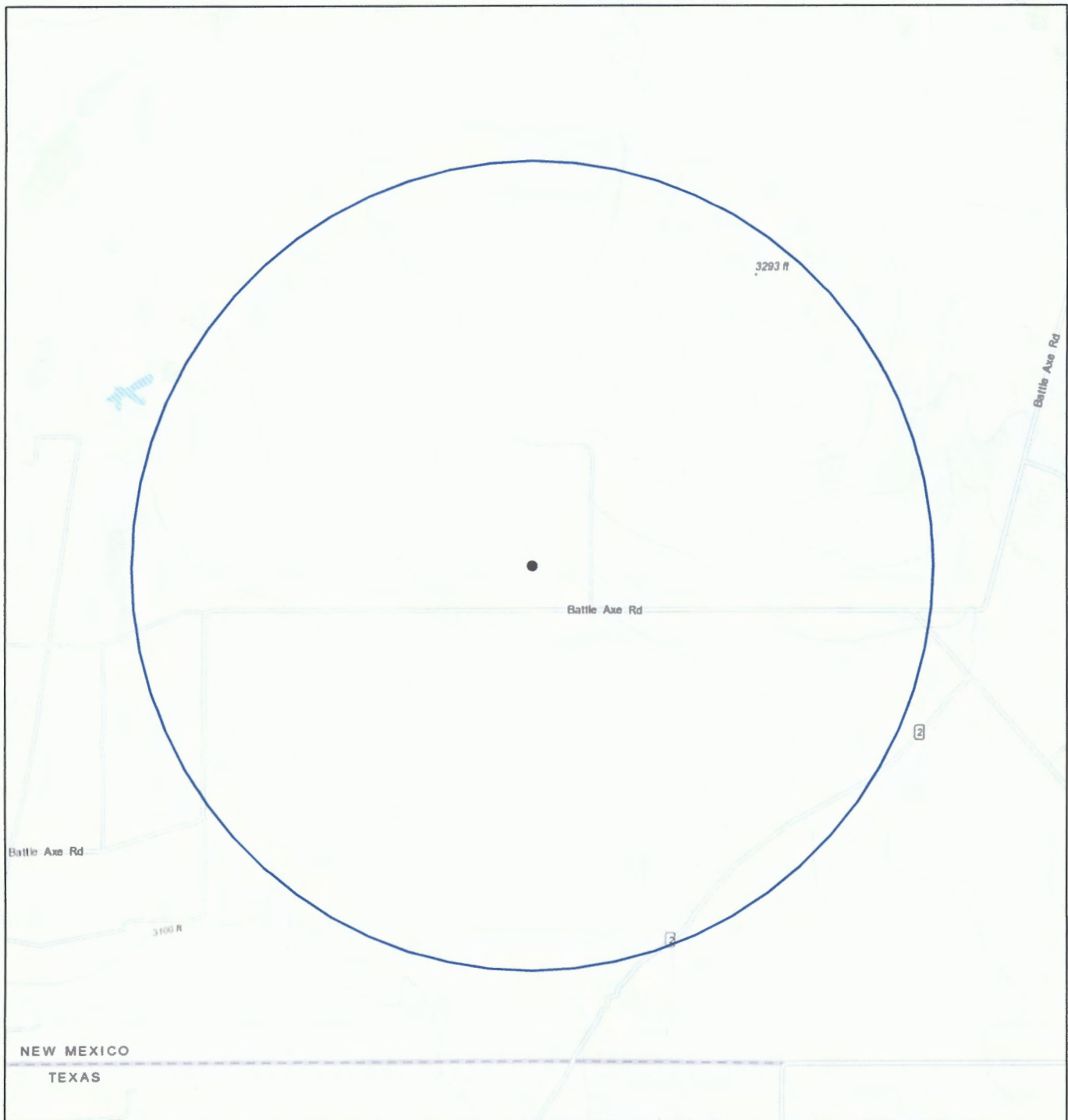
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#33875

67115647

00225778

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

Big Suck Federal SWD #1 - Water Wells within 1 Mile AOR

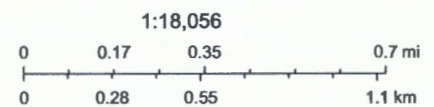


3/9/2019, 7:02:47 AM

Override 1

Points

Override 3



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), swisstopo, © OpenStreetMap contributors, and the GIS User



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 19

Township: 26S

Range: 33E

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.

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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PLSS Search:

Section(s): 20

Township: 26S

Range: 33E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

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PLSS Search:

Section(s): 24

Township: 26S

Range: 32E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 25

Township: 26S

Range: 32E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 29

Township: 26S

Range: 33E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 30

Township: 26S

Range: 33E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 31

Township: 26S

Range: 33E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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

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(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 32

Township: 26S

Range: 33E

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3/7/19 1:16 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Permian Oilfield Partners, LLC.

P.O. Box 1220, Stephenville, TX. 76401 | (817) 606-7630 | gfisher@permianoilfieldpartners.com

Item XII. Affirmative Statement

C-108 Application for Authorization to inject

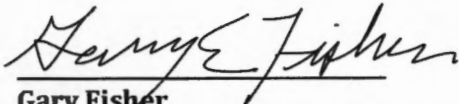
Big Suck Federal SWD #1

1397' FNL & 212' FEL

Section 30, T26S, R33E

Lea County, New Mexico

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.



Gary Fisher
Manager
Permian Oilfield Partners, LLC.

03/14/2019
Date

Plugging Risk Assessment
Permian Oilfield Partners, LLC.
Big Suck Federal SWD #1
SL: 1397' FNL & 212' FEL
Sec 30, T26S, R33E
Lea County, New Mexico

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Big Suck Federal SWD #1
1397' FNL, 212' FEL
Sec. 30, T26S, R33E, Lea Co. NM
Lat 32.017923° N, Lon 103.603485° W
GL 3174', RKB 3204'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 740'
Cement: 453 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
Casing: 13.375" - 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 4727'
Cement: 1532 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: 12072'
Cement: 2048 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4827'

Intermediate #3 - (Liner)

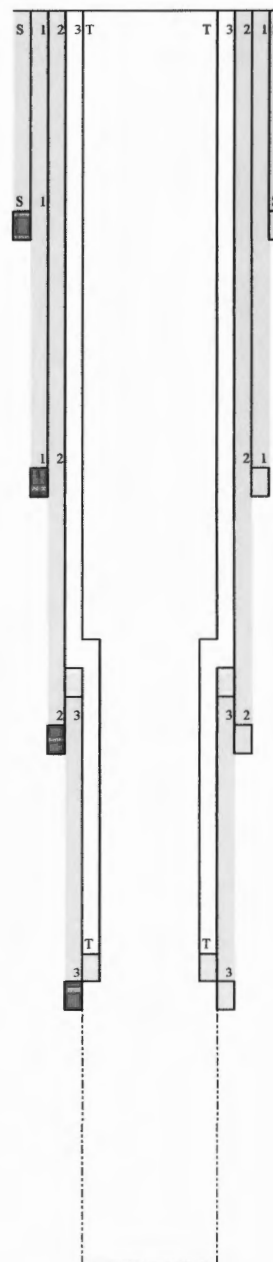
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11872'
Depth Btm: 17366'
Cement: 261 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11872' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18972'
Inj. Interval: 17366' - 18972' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17321'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11872'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17331'
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



Plugging Risk Assessment

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 1/4"
Maximum Catch Size (Basket)		5 7/8"	6 1/8"	6 3/4"	6 7/8"
Overshot O.D.		8 3/4"	7 7/8"	8 1/4"	8 3/8"
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	260

Replacement Parts

Top Sub	Part No.	A-3033	A-5223	Q218	A-5355
Bowl	Part No.	B-3034	B-5224	Q210	B-5356
Packer	Part No.	A-1814	B-5225	Q224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	Q222	B-5350
Spiral Grapple Control	Part No.	M-80	A-5228	Q223	B-5360
Standard Guide	Part No.	A-1818	A-5220	Q226	A-5361

Basket Parts

Basket Grapple	Part No.	N-84	B-5227	Q222	B-5350
Basket Grapple Control	Part No.	M-80	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 Dowhole 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 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"
Maximum Catch Size (Basket)		3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	5"
Overshot O.D.		5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.
Complete Assembly	Part No.	5800	5808	C-3108	8075	C-3171	C-4825
(Dressed Spiral Parts)	Weight	130	130	133	138	140	185
Replacement Parts							
Top Sub	Part No.	5897	5898	A-5100	8070	A-5172	B-4820
Bowl	Part No.	5898	5700	B-5170	8077	B-5173	B-4827
Packer	Part No.	100	1140	B-2100	0114	L-5050	L-4505
Spiral Grapple	Part No.	105	1135	B-2201	0112	B-4300	M-1071
Spiral Grapple Control	Part No.	180	1137	B-2202	0113	B-4370	M-1072
Standard Guide	Part No.	187	1143	B-2203	0121	B-4371	L-1074
Basket Parts							
Basket Grapple	Part No.	105	1135	B-2201	0112	B-4300	M-1071
Basket Grapple Control	Part No.	180	1137	B-2202	0113	B-4370	M-1072
Mill Control Packer	Part No.	100-R	1140-R	B-2100-R	0114-R	L-5050-R	M-4505

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
Big Suck Federal SWD #1
Sec. 30, Twp. 26S, Rge. 33E
1397' FNL & 212' FEL
Lea County, NM**

March 8, 2019

STATEMENT REGARDING SEISMICITY

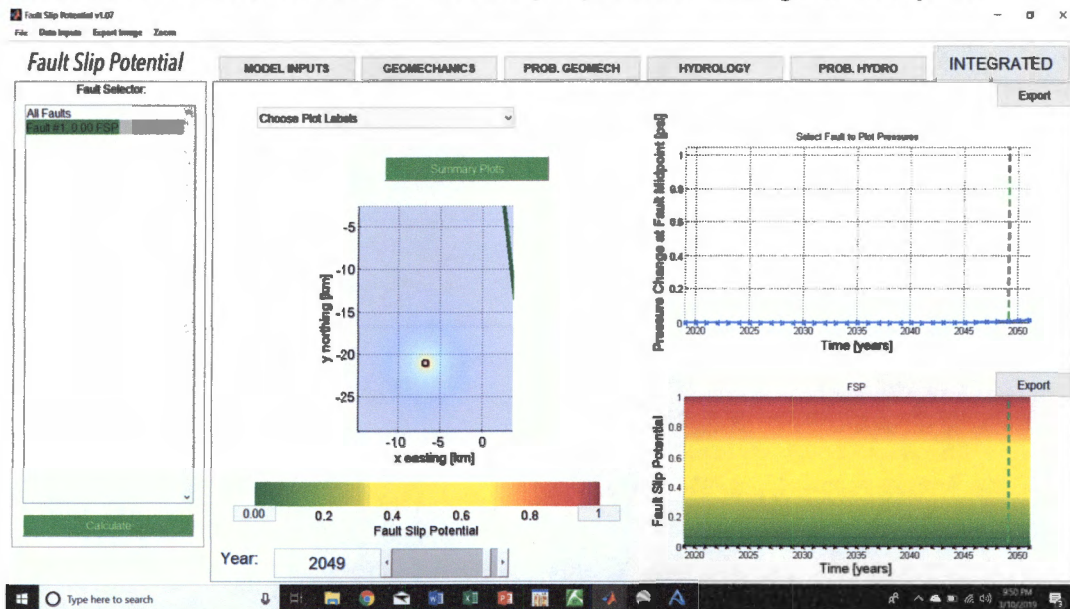
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 17.4 miles away @ 9 deg heading
2. M3.3, 2001-06-02, 34.9 miles away @ 51 deg heading
3. M4.6, 1992-01-02, 36.8 miles away @ 53 deg heading
4. M2.6, 2017-05-03, 34.3 miles away @ 82 deg heading
5. M3.1, 2012-03-18, 24.9 miles away @ 317 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 publically available data and software as follows:

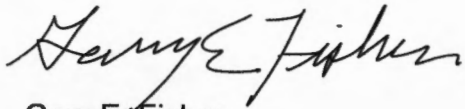
1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
2. Based on offset well log data, we have not interpreted any faults in the immediate area.
3. A basement PreCambrian fault is documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and 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 and this fault is relatively far away from the proposed injection site, 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 66,500 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% after 30 years at the midpoint of the fault as per the FSP results screenshot below, with a calculated 0 psi pressure change at that point:



6. The above analysis 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 nearby known 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 in approximately 1.9 miles away from the nearest active, permitted or pending disposal well.

A handwritten signature in black ink, appearing to read "Gary E. Fisher". The signature is fluid and cursive, with the first name "Gary" and last name "Fisher" clearly distinguishable.

Gary E. Fisher

gfisher@permianoilfieldpartners.com

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