

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>05/08/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAM1913550407</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: 328259Well Name: Black Hole Federal SWD #2API: 30-025-PendingPool: SWD; Devonian-SilurianPool 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☐ PPR2) **NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ 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.

Sean Puryear

Print or Type Name

Signature

05/07/2019

Date

(817) 600-8772

Phone Number

spuryear@popmidstream.com

e-mail Address



MAY 08 2019 PM02:45

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

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Black Hole Federal SWD #2
Sec. 31, Twp. 25S, Rge. 34E
1253' FSL, 250' FEL
Lea County, NM

Mr. Goetze,
Attached is a C-108 Application for administrative approval of Permian Oilfield Partners LLC's proposed Black Hole Federal SWD #2 located in Sec 31, Twp 25S, Rge 34E, Lea County, New Mexico. This well will be completed open hole in the Devonian-Silurian formation and will be operated as a commercial salt water disposal well.

Similar application exhibits were sent to all Affected Persons. The distribution list and proof of mailing, as well as affidavit of publication are enclosed. A copy of this application has also been sent to NM OCD District 1 in Hobbs.

If you have any questions, please contact us at (817)606-7630.

Sincerely,

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

Date:

05/07/2019

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: **5-7-2019**

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.
Please show the date and circumstances of the earlier submittal: _____

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 15,164'

Underlying Potentially Productive Zones:

None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Black Hole Federal SWD #2
1253' FSL, 250' FEL
Sec. 31, T25S, R34E, Lea Co. NM
Lat 32.0831744° N, Lon 103.5012797° W
GL 3322', RKB 3352'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 915'
Cement: 587 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 5112'
Cement: 1664 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: 12484' ECP/DV Tool: 5212'
Cement: 2149 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: 12284'
Depth Btm: 17450'
Cement: 252 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12284' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 19013'
Inj. Interval: 17450' - 19013' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17405' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80
X/O Depth: 12284' FJ Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17415' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Black Hole Federal SWD #2
1253' FSL, 250' FEL
Sec. 31, T25S, R34E, Lea Co. NM
Lat 32.0831744° N, Lon 103.5012797° W
GL 3322', RKB 3352'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 915'
Cement: 587 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 5112'
Cement: 1664 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: 12284'
Cement: 2149 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 5212'

Intermediate #3 - (Liner)

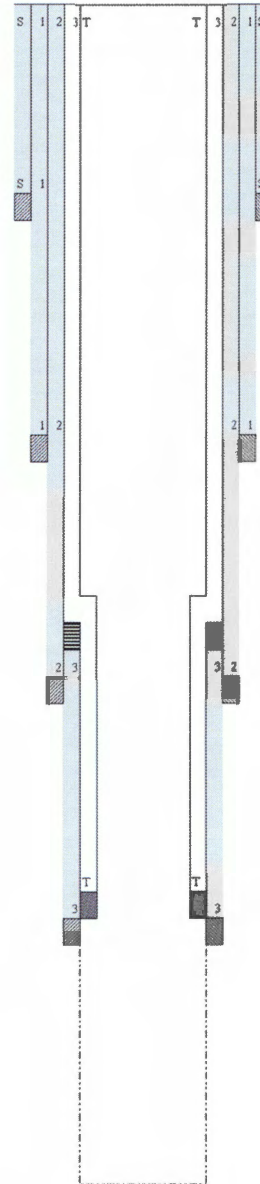
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 12284'
Depth Btm: 17450'
Cement: 252 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12284' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 19013'
Inj. Interval: 17450' - 19013' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17405'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 12284'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17415'
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 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 3,490 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 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.
 Black Hole Federal SWD #2
 1253' FSL, 250' FEL
 Sec. 31, T25S, R34E, Lea Co. NM
 Lat 32.0831744° N, Lon 103.5012797° W
 GL 3322', RKB 3352'

GEOLOGY PROGNOSIS			
FORMATION	TOP KB TVD (ft)	BOTTOM KB TVD (ft)	THICKNESS (ft)
Salt	1,233	4,883	3,650
Delaware	5,087	9,348	4,261
Bone Spring	9,348	12,434	3,086
Wolfcamp	12,434	13,534	1,100
Lwr. Mississippian	16,862	17,233	371
Woodford	17,233	17,415	182
Devonian	17,415	18,378	963
Fusselman (Silurian)	18,378	19,038	660
Montoya (U. Ordovician)	19,038	19,493	455
Simpson (M. Ordovician)	19,493	20,168	675

2. According to the New Mexico Office of the State Engineer, there are 4 fresh water wells within the proposed well's one-mile area of review indicating the presence of freshwater at depths less than 251'. Regionally, shallow fresh water is known to exist at depths less than 750'. One of the wells, the C02317 was unable to be located, and the other 3 were capped and not producing. 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 4 fresh water wells within the proposed well's one-mile area of review. Attempts were made to sample the below listed wells but the C02317 was unable to be located, and the remaining 3 wells were capped off and not producing.

Well Name	Formation Name	Depth Top	Depth Bottom	Thickness	Status
C 02317	None Given	50'	100'	50'	Not Loc'd
C 03441 POD1	None Given	Not Given	250'	N/A	Capped
C 02292 POD1	None Given	Not Given	251'	N/A	Capped
C 02292 POD1	None Given	140'	200'	60'	Capped

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 30-025-	² Pool Code 97869	³ Pool Name SWD; DEVONIAN-SILURIAN
⁴ Property Code	⁵ Property Name BLACK HOLE FEDERAL SWD	⁶ Well Number 2
⁷ GRID NO. 328259	⁸ Operator Name PERMIAN OILFIELD PARTNERS LLC	⁹ Elevation 3322'

¹⁰ Surface Location

UL or lot no. P	Section 31	Township 25S	Range 34E	Lot Idn	Feet from the 1253	North/South line SOUTH	Feet From the 250	East/West line EAST	County LEA
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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.

③ N 00°47'18" E 2637.52' ④ N 89°31'42" E 2642.74' ⑤		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. <i>Gary E Fisher</i> 4-17-2019 Signature Date Gary E Fisher Printed Name gfisher@popmidstream.com E-mail Address	
⑥ LOT 1 GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 394989.8 - E 799035.1 LAT: 32.0831744° N LONG: 103.5012797° W LOT 2 CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP N 393700.0 - E 794011.0 B: FOUND BRASS CAP N 396338.2 - E 793991.9 C: FOUND BRASS CAP N 398986.0 - E 793972.4 LOT 3 D: FOUND BRASS CAP "1913" N 398995.7 - E 796609.4 E: FOUND BRASS CAP "1913" N 399017.5 - E 799251.6 F: FOUND BRASS CAP "1913" N 396378.5 - E 799273.4 G: FOUND BRASS CAP N 393738.8 - E 799295.6 LOT 4 H: FOUND BRASS CAP N 393718.4 - E 796652.7 ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿		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. 03-30-2019 Date of Survey <i>Jeffrey L. Fansler</i> Signature and Seal of Professional Surveyor 10034 Certificate Number 10034 Job No.: LS19030263R	

[illegible]

1:36,112



- 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

Well Types

 - 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
 - Water, Plugged
 - Water, Temporarily Abandoned
 - PLTS First Division

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

Black Hole Federal SWD #2 - Wells within 1 Mile Area of Review															
API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCD Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TVD
30-025-8499	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	31	T2S5	R34E	A	A-31-25S-34E	660 FTL 660 FEL	DELAWARE	5393	5393
30-025-8385	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Site Released	06	T2S5	R34E	I	I-06-26S-34E	1980 FTL 660 FEL	DELAWARE	5396	1936
30-025-7836	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Cancelled Apd	31	T2S5	R34E	G	G-31-25S-34E	1650 FTL 2180 FEL	MORROW	15500	15500
30-025-98689	EOG RESOURCES INC	HORSE 30 STATE	#001H	Oil	Horizontal	Cancelled Apd	30	T2S5	R34E	P	D-30-25S-34E	330 FTL 660 FVL	BONE SPRING	19923	19923
30-025-90938	CONCORD 32 STATE	CONCORD 32 STATE	#001C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	D	D-32-25S-34E	161 FTL 280 FVL	BONE SPRING	14415	9786
30-025-90939	EOG RESOURCES INC	CONCORD 32 STATE	#002C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	C	C-32-25S-34E	161 FTL 310 PVL	BONE SPRING	14739	9785
30-025-90960	CONCORD 32 STATE	CONCORD 32 STATE	#003C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	C	C-32-25S-34E	161 FTL 210S FVL	BONE SPRING	14534	9785
30-025-90961	EOG RESOURCES INC	CONCORD 32 STATE	#004C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	C	C-32-25S-34E	161 FTL 2135 FVL	BONE SPRING	14626	9786
30-025-90962	CONCORD 32 STATE	CONCORD 32 STATE	#005C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	B	B-32-25S-34E	161 FTL 2310 FVL	BONE SPRING	14668	9786
30-025-90963	EOG RESOURCES INC	CONCORD 32 STATE	#006C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	B	B-32-25S-34E	161 FTL 1995 FVL	BONE SPRING	14668	9786
30-025-74866	CONCORD 32 STATE SWD	CONCORD 32 STATE SWD	#001C	Salt Water Disposal	Vertical	Cancelled Apd	32	T2S5	R34E	G	G-32-25S-34E	362 FTL 2200 FVL	DELAWARE	8200	8200
30-025-74261	EOG RESOURCES INC	CONCORD 32 STATE	#002C	Monitor	Vertical	Cancelled Apd	32	T2S5	R34E	H	H-32-25S-34E	362 FTL 1100 FVL	WOLFCAMP	15500	15500
30-025-44117	EOG RESOURCES INC	CONCORD 32 STATE	#780H	Oil	Horizontal	Active	32	T2S5	R34E	H	H-32-25S-34E	602 FTL 1715 FVL	WOLFCAMP	17614	12938
30-025-44120	EOG RESOURCES INC	CONCORD 32 STATE	#789H	Oil	Horizontal	Active	32	T2S5	R34E	B	B-32-25S-34E	602 FTL 1785 FVL	WOLFCAMP	17614	12938
30-025-44121	EOG RESOURCES INC	CONCORD 32 STATE	#790H	Oil	Horizontal	Active	32	T2S5	R34E	B	B-32-25S-34E	602 FTL 1785 FVL	WOLFCAMP	17614	12938
30-025-45373	EOG RESOURCES INC	CONCORD 32 STATE	#692A	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	C	C-32-25S-34E	844 FTL 252 FVL	BONE SPRING	17259	17259
30-025-45374	EOG RESOURCES INC	CONCORD 32 STATE	#702C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	B	B-32-25S-34E	746 FTL 220 FVL	WOLFCAMP	17715	N/A
30-025-45375	EOG RESOURCES INC	CONCORD 32 STATE	#711C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	B	B-32-25S-34E	746 FTL 220 FVL	WOLFCAMP	17430	N/A
30-025-45376	CONCORD 32 STATE COM	CONCORD 32 STATE COM	#712C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	C	C-32-25S-34E	844 FTL 260 FVL	WOLFCAMP	17717	N/A
30-025-45377	CONCORD 32 STATE COM	CONCORD 32 STATE COM	#713C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	N	N-32-25S-34E	844 FTL 207 FVL	WOLFCAMP	20050	15262
30-025-45378	EOG RESOURCES INC	CONCORD 32 STATE COM	#714C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	N	N-32-25S-34E	294 FTL 2027 FVL	WOLFCAMP	20018	N/A
30-025-45379	EOG RESOURCES INC	CONCORD 32 STATE COM	#715C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	N	N-32-25S-34E	294 FTL 2027 FVL	WOLFCAMP	20018	N/A
30-025-45380	EOG RESOURCES INC	CONCORD 32 STATE COM	#740H	Oil	Horizontal	Active	32	T2S5	R34E	N	N-32-25S-34E	259 FTL 2597 FVL	WOLFCAMP	20551	13076
30-025-45381	EOG RESOURCES INC	CONCORD 32 STATE COM	#712C	Oil	Horizontal	Cancelled Apd	32	T2S5	R34E	N	N-32-25S-34E	294 FTL 2597 FVL	WOLFCAMP	20571	N/A
30-025-46670	EOG RESOURCES INC	CONCORD 32 STATE	#693H	Oil	Horizontal	Active	32	T2S5	R34E	C	C-32-25S-34E	844 FTL 260 FVL	BONE SPRING	8885	8885
30-025-46671	EOG RESOURCES INC	CONCORD 32 STATE COM	#615	Oil	Directional	Plugged, Site Released	32	T2S5	R34E	N	N-32-25S-34E	293 FTL 2028 FVL	BONE SPRING	8886	8885
30-025-46672	EOG RESOURCES INC	CONCORD 32 STATE	#511H	Oil	Horizontal	Active	32	T2S5	R34E	C	C-32-25S-34E	844 FTL 2523 FVL	WOLFCAMP	15915	15042
30-025-46673	EOG RESOURCES INC	CONCORD 32 STATE COM	#712	Oil	Horizontal	Plugged, Site Released	32	T2S5	R34E	N	N-32-25S-34E	292 FTL 2597 FVL	BONE SPRING	12030	12030
30-025-46674	CONCORD 32 STATE COM	CONCORD 32 STATE COM	#624H	Oil	Horizontal	Active	32	T2S5	R34E	N	N-32-25S-34E	326 FTL 2027 FVL	WOLFCAMP	19849	12420
30-025-46675	EOG RESOURCES INC	CONCORD 32 STATE	#30H	Oil	Horizontal	Active	32	T2S5	R34E	C	C-32-25S-34E	844 FTL 260 FVL	BONE SPRING	15324	10481
30-025-48074	DEVON ENERGY PRODUCTION COMPANY, LP	CONCORD 32 STATE COM	#712Y	Oil	Horizontal	Active	32	T2S5	R34E	N	N-32-25S-34E	325 FTL 2597 FVL	WOLFCAMP	20294	12586
30-025-45173	JAYHAWK 6.7 FEDERAL FEE COM	JAYHAWK 6.7 FEDERAL FEE COM	#001H	Oil	Horizontal	Active	32	T2S5	R34E	A	A-06-26S-34E	385 FTL 230 FVL	WOLFCAMP	22750	12840
30-025-45174	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#002H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	385 FTL 331 FVL	WOLFCAMP	22587	12840
30-025-45175	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#003H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	385 FTL 290 FVL	WOLFCAMP	22570	12840
30-025-45176	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#004H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	385 FTL 330 FVL	WOLFCAMP	22570	12840
30-025-45177	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#005H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	515 FTL 530 FVL	BONE SPRING	20645	15880
30-025-45177	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#005H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	515 FTL 530 FVL	BONE SPRING	20645	15880
30-025-45364	EOG RESOURCES INC	CONCORD 32 STATE COM	#618H	Oil	Horizontal	New	32	T2S5	R34E	M	M-32-25S-34E	679 FTL 679 FVL	BONE SPRING	20002	12375
30-025-45365	CONCORD 32 STATE COM	CONCORD 32 STATE COM	#740H	Oil	Horizontal	New	32	T2S5	R34E	M	M-32-25S-34E	476 FTL 2523 FVL	WOLFCAMP	20395	12716
30-025-45366	EOG RESOURCES INC	CONCORD 32 STATE COM	#741H	Oil	Horizontal	New	32	T2S5	R34E	M	M-32-25S-34E	389 FTL 661 FVL	WOLFCAMP	20228	12575
30-025-45367	EOG RESOURCES INC	CONCORD 32 STATE COM	#742H	Oil	Horizontal	New	32	T2S5	R34E	M	M-32-25S-34E	448 FTL 2389 FVL	WOLFCAMP	20895	13219
30-025-45368	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#006H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	385 FTL 330 FVL	WOLFCAMP	22587	12840
30-025-45369	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#007H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	385 FTL 330 FVL	WOLFCAMP	22587	12840
30-025-45370	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#008H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45371	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#009H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45372	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#010H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45373	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#011H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45374	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#012H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45375	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#013H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45376	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#014H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45377	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#015H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45378	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#016H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45379	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#017H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45380	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#018H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45381	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#019H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45382	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#020H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45383	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#021H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45384	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#022H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45385	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#023H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45386	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#024H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45387	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#025H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45388	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#026H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45389	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#027H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45390	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#028H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45391	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#029H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45392	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#030H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45393	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#031H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45394	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#032H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45395	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#033H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45396	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#034H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45397	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#035H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45398	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#036H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45399	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#037H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45400	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#038H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	12840
30-025-45401	DEVON ENERGY PRODUCTION COMPANY, LP	JAYHAWK 6.7 FEDERAL FEE COM	#039H	Oil	Horizontal	New	06	T2S5	R34E	A	A-06-26S-34E	450 FTL 1910 FVL	WOLFCAMP	17725	1284



Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Black Hole Federal SWD #2
Sec. 31, Twp. 25S, Rge. 34E
1253' FSL, 250' FEL
Lea County, NM

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

Black Hole Federal SWD #2 - 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	9414811899561803100095	5/7/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561803100507	5/7/2019
EOG Resources Inc	P.O. Box 2267	Midland, TX 79702	USPS	9414811899561803100477	5/7/2019
ConocoPhillips Company	P.O. Box 2197 Office EC3-10-W285	Houston, TX 77252	USPS	9414811899561803100491	5/7/2019
COG Operating LLC	600 W. Illinois Ave.	Midland, TX 79701	USPS	9414811899561803100033	5/7/2019
Chevron U S A Inc	6301 Deauville Blvd.	Midland, TX 79706	USPS	9414811899561803100088	5/7/2019
Devon Energy Production Company, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899561803100446	5/7/2019
Marathon Oil Permian LLC	5555 San Felipe St.	Houston, TX 77056	USPS	9414811899561803100569	5/7/2019
Talon Oil & Gas LLC	3131 McKinney Ave., Suite 750	Dallas, TX 75204	USPS	9414811899561803100590	5/7/2019
MRC Permian Company	5400 LBJ Freeway, Suite 1500	Dallas, TX 75240	USPS	9414811899561803100521	5/7/2019
Duard Thomas, Personal Representative For The Estate Of Warren J Bates	P.O. Box 1357	Ada, OK 74820	USPS	9414811899561803100514	5/7/2019

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

Date: 5-7-2019

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

ARTICLE NUMBER: 9414 8118 9956 1803 1000 95

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

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ARTICLE NUMBER: 9414 8118 9956 1803 1005 07

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

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ARTICLE NUMBER: 9414 8118 9956 1803 1004 77

ARTICLE ADDRESSED TO:

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

FEES

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

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ARTICLE NUMBER: 9414 8118 9956 1803 1004 91

ARTICLE ADDRESSED TO:

ConocoPhillips Company
PO Box 2197
Houston TX 77252-2197

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 1803 1000 33

ARTICLE ADDRESSED TO:

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

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 1803 1000 88

ARTICLE ADDRESSED TO:

Chevron USA
6301 Deauville
Midland TX 79706-2964

FEES

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

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ARTICLE NUMBER: 9414 8118 9956 1803 1004 46

ARTICLE ADDRESSED TO:

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City OK 73102-5010

FEES

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

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ARTICLE NUMBER: 9414 8118 9956 1803 1005 69

ARTICLE ADDRESSED TO:

Marathon Oil Permian LLC
5555 San Felipe Street
Houston TX 77056-2701

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 1803 1005 90

ARTICLE ADDRESSED TO:

Talon Oil & Gas LLC
3131 McKinney Ave., Suite 750
Dallas TX 75204-2457

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 1803 1005 21

ARTICLE ADDRESSED TO:

MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas TX 75240-1017

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 1803 1005 14

ARTICLE ADDRESSED TO:

Mr. Duard Thomas
Personal Representative for
Estate of Warren J. Bates
PO Box 1357
Ada OK 74821-1357

FEES

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

Postmark
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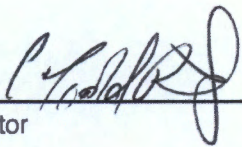


Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

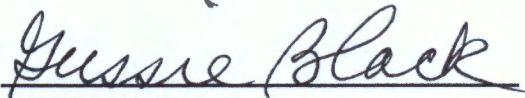
I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 25, 2019
and ending with the issue dated
April 25, 2019.



Editor

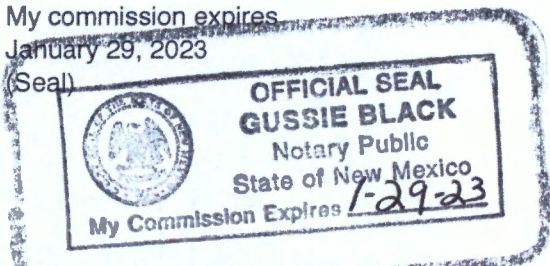
Sworn and subscribed to before me this
25th day of April 2019.



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 NOTICE APRIL 25, 2019

Newspaper Publication Notice

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 Lea County, New Mexico. The well name is the Black Hole Federal SWD #2, and is located 1253' FSL & 250' FEL, Unit Letter P, Section 31, Township 25 South, Range 34 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 17,450 feet to 19,013 feet. The maximum expected injection rate is 50,000 BWP/D at a maximum surface injection pressure of 3,490 psi.

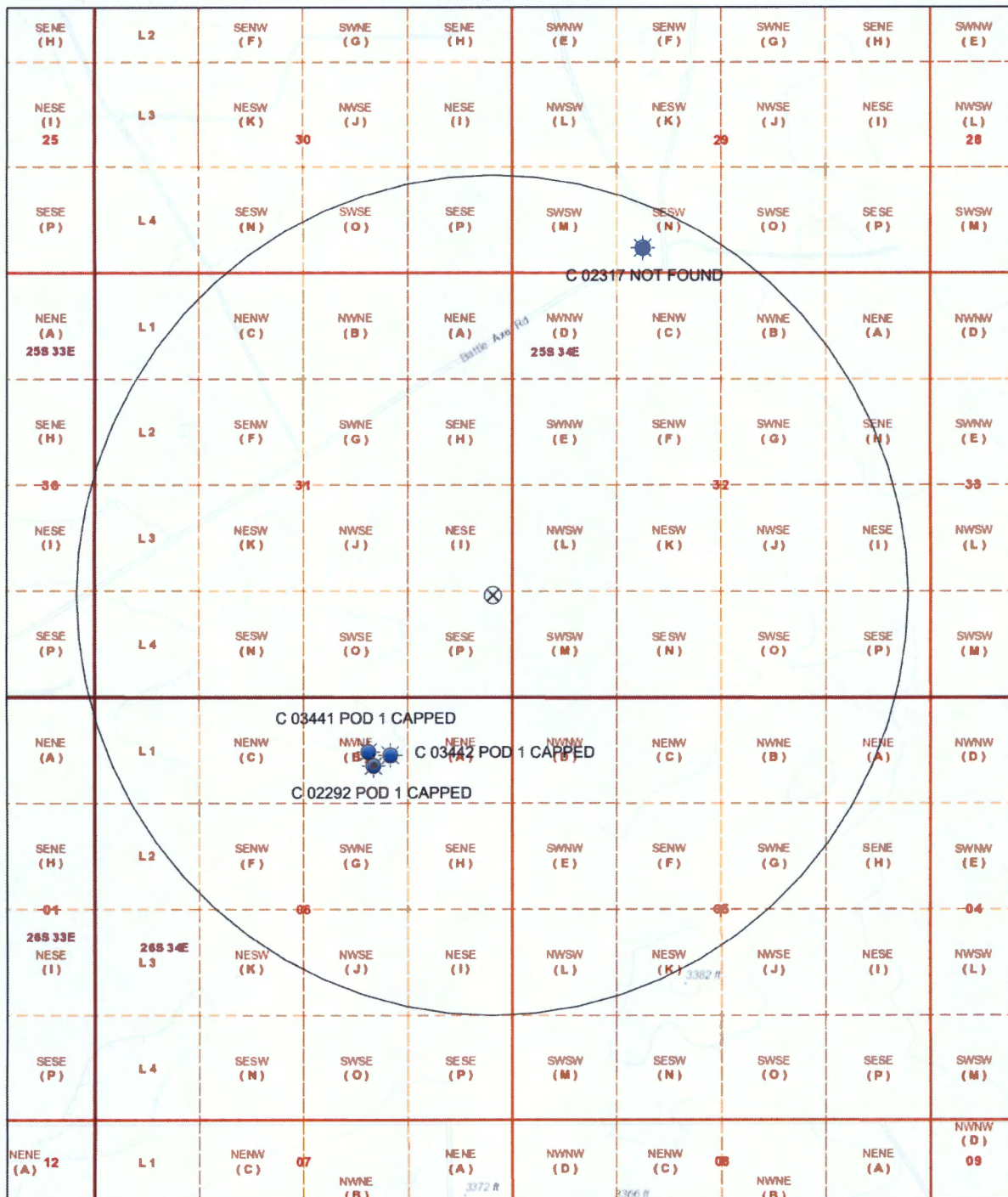
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#34074

67115647

00227377

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

1 Mile AOR Water Well Map, Black Hole Federal SWD #2



5/6/2019, 9:40:15 PM

Override 1

Points

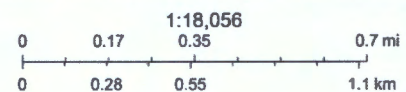
⊗ Override 1

★ Override 2

▭ 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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C_02312		CUB	LE	1	2	1	05	25S	33E	632241	3559687*	150	90	60
C_02313		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40
C_02373 CLW317846	O	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	625	185	440
C_02373 S		CUB	LE	1	2	1	13	25S	33E	638721	3556549*	625	185	440

Average Depth to Water: 142 feet

Minimum Depth: 90 feet

Maximum Depth: 185 feet

Record Count: 4

PLSS Search:

Township: 25S Range: 33E

*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.

5/6/19 8:00 PM

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 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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C_02299		CUB	LE	4	4	2	24	25S	34E	649417	3554478*	350	300	50
C_02314		CUB	LE	2	4	2	15	25S	34E	646170	3556243*	175	135	40
C_02315		CUB	LE	2	4	2	15	25S	34E	646170	3556243*	175	135	40
C_02316		CUB	LE	3	4	3	29	25S	34E	642003	3551967*	100	50	50
C_02317		CUB	LE	3	4	3	29	25S	34E	642003	3551967*	100	50	50
C_02401		CUB	LE	2	2	1	01	25S	34E	648534	3559896*	275	260	15

Average Depth to Water: **155 feet**

Minimum Depth: **50 feet**

Maximum Depth: **300 feet**

Record Count: 6

PLSS Search:

Township: 25S **Range:** 34E

*UTM location was derived from PLSS - see Help

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5/6/19 8:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(R=POD has been replaced,
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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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C_02270		CUB	LE	1	1	2	27	26S	33E	636063	3543722	150	125	25
C_02273		CUB	LE		1	2	21	26S	33E	634549	3545134*	160	120	40
C_02285 POD1		CUB	LE	1	4	4	03	26S	33E	636613	3548855	220	220	0
C_02286		CUB	LE	3	4	4	03	26S	33E	636470	3548714	220	175	45
C_02287		C	LE	3	4	4	03	26S	33E	636427	3548708	220		
C_02288		CUB	LE	4	4	4	03	26S	33E	636646	3548758	220	180	40
C_02289		CUB	LE	4	4	4	03	26S	33E	636612	3548675*	200	160	40
C_02290		CUB	LE	4	4	4	03	26S	33E	636538	3548770	200	160	40
C_02293		CUB	LE	2	2	1	14	26S	33E	637501	3546975	200	135	65
C_02294		CUB	LE	4	4	3	11	26S	33E	637465	3547003	200	145	55
C_02295		CUB	LE	2	2	4	12	26S	33E	639850	3547710*	250	200	50
C_03577 POD1		CUB	LE	3	3	3	22	26S	33E	636010	3543771	750	110	640
C_03596 POD1		C	LE	3	3	4	22	26S	33E	636017	3543756	225		

Average Depth to Water: **157 feet**

Minimum Depth: **110 feet**

Maximum Depth: **220 feet**

Record Count: 13

PLSS Search:

Township: 26S **Range:** 33E

*UTM location was derived from PLSS - see Help

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5/6/19 8:01 PM

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 02291		CUB	LE	1	1	2	06	26S	34E	640825	3550140*		220	160 60
C 02292 POD1		CUB	LE	4	1	2	06	26S	34E	640992	3549987		200	140 60
C 03441 POD1		C	LE	4	1	2	06	26S	34E	640971	3550039		250	
C 03442 POD1		C	LE	4	1	2	06	26S	34E	641056	3550028		251	

Average Depth to Water: 150 feet

Minimum Depth: 140 feet

Maximum Depth: 160 feet

Record Count: 4

PLSS Search:

Township: 26S Range: 34E

*UTM location was derived from PLSS - see Help

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

5/6/19 7:58 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Black Hole Federal SWD #2
Sec. 31, Twp. 25S, Rge. 34E
1253' FSL, 250' FEL
Lea 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 blue ink, appearing to read "Gary Fisher".

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 4/24/2019

**Plugging Risk Assessment
Permian Oilfield Partners, LLC.
Black Hole Federal SWD #2
SL: 1253' FSL & 250' FEL
Sec 31, T25S, R34E
Lea County, New Mexico**

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Black Hole Federal SWD #2
1253' FSL, 250' FEL
Sec. 31, T25S, R34E, Lea Co. NM
Lat 32.0831744° N, Lon 103.5012797° W
GL 3322', RKB 3352'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 915'
Cement: 587 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 5112'
Cement: 1664 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: 12484'
Cement: 2149 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 5212'

Intermediate #3 - (Liner)

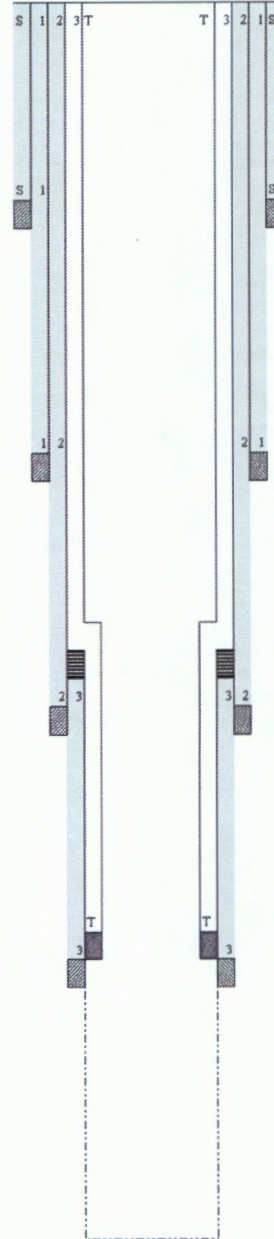
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 12284'
Depth Btm: 17450'
Cement: 252 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12284' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 19013'
Inj. Interval: 17450' - 19013' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17405'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 12284'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17415'
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 5/8" to 7 1/8" Inclusive

Maximum Catch Size (Spiral)		6 5/8"	6 7/8"	7"	7 1/8"
Maximum Catch Size (Basket)		5 7/8"	6 1/8"	6 5/8"	6 7/8"
Overshot O.D.		8 1/8"	7 7/8"	8 1/8"	8 3/8"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	280

Replacement Parts

Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-5356
Packer	Part No.	A-1814	B-5225	9224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Standard Guide	Part No.	A-1818	A-5229	9226	A-5361

Basket Parts

Basket Grapple	Part No.	N-84	B-5227	9222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	9224-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 1/4" Inclusive

Maximum Catch Size (Spiral)		4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"	5 1/4"	5 1/2"
Maximum Catch Size (Basket)		3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"
Overshot O.D.		5 3/4"	5 1/2"	5 1/4"	5 1/8"	5 1/4"	5 1/8"	5 1/4"
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	S.H.
Complete Assembly	Part No.	5898	5898	C-5188	8975	C-5171	C-4825	8825
(Dressed Spiral Parts)	Weight	130	130	133	138	140	182	185

Replacement Parts

Top Sub	Part No.	5897	5899	A-5169	8878	A-5172	B-4826	8826
Bowl	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8817
Packer	Part No.	189	1140	B-2199	8114	L-5850	L-4505	8818
Spiral Grapple	Part No.	185	1135	B-2201	8112	B-4389	M-1071	8819
Spiral Grapple Control	Part No.	188	1137	B-2202	8113	B-4370	M-1072	8820
Standard Guide	Part No.	187	1143	B-2203	8121	B-4371	L-1074	8821

Basket Parts

Basket Grapple	Part No.	185	1135	B-2201	8112	B-4389	M-1071	8819
Basket Grapple Control	Part No.	188	1137	B-2202	8113	B-4370	M-1072	8820
Mill Control Packer	Part No.	189-R	1140-R	B-2199-R	8114-R	L-5850-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.
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 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.



Attachment to C-108
Permian Oilfield Partners, LLC
Black Hole Federal SWD #2
Sec. 31, Twp. 25S, Rge. 34E
1253' FSL, 250' FEL
Lea County, NM

April 16, 2019

STATEMENT REGARDING SEISMICITY

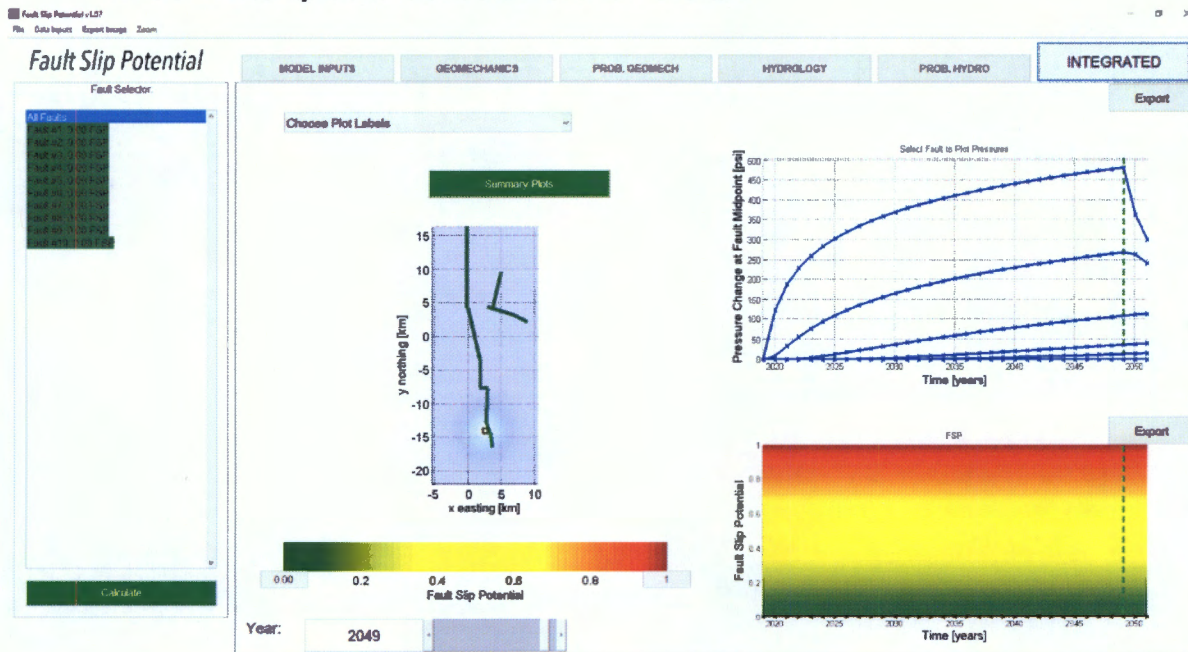
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area (< 30 miles) of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 13.03 miles away @ 345.83 deg heading
2. M3.3, 2001-06-02, 27.29 miles away @ 50.43 deg heading
3. M4.6, 1992-01-02, 29.26 miles away @ 53.10 deg heading
4. M2.6, 2017-05-03, 28.06 miles away @ 89.96 deg heading
5. M3.1, 2012-03-18, 26.68 miles away @ 301.08 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. 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, 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% after 30 years as per the FSP results screenshot below. At its closest point, the well is approximately 1km away from this fault, but due to the direction of maximum horizontal stress, the localized probability of an induced seismic event still remains low, even in the unlikely case of a catastrophic well failure that could see relatively high localized pressure on the fault.
 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 approximately 2.9 miles away from the nearest active or permitted Devonian disposal well.

Gary E. Fisher

gfisher@popmidstream.com

(817) 606-7630

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Friday, May 24, 2019 10:59 AM
To: spuryear@popmidstream.com
Cc: Gorman, Jessica (MRO); Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Jones, William V, EMNRD; Murphy, Kathleen A, EMNRD
Subject: Notification of Protest for Application to Inject: Black Hole Federal SWD #2 Marathon
Attachments: PermianOilField Black HoleFedSWD#2 SuperSiphonState SWD#2 MarathonProtest.pdf

RE: Black Hole Federal SWD #2 (API 30-025-Pending; Admin. Appl. No pMAM1913550407) Unit P; Sec 31, T25S, R34E, NMPPM, Lea County

Ms. Presley:

OCD was notified Marathon Oil Permian, LLC that it is protesting this application. This party is identified as an affected person for the location being considered for the application. You are being notified that if Permian Oilfield Partners, LLC wishes for this application to be considered, they must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained pending resolution of the protest. Please continue to provide OCD with information regarding the standing of this application. Please me call with any questions on this matter.

Contact for Marathon Oil Permian, LLC
Jessica Gorman
Land Specialist-Advanced
5555 San Felipe
Houston, TX. 77056
Phone: (432) 221-7379
E-mail: jgorman1@marathonoil.com

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

McMillan, Michael, EMNRD

From: Brown, Matthew D. (MRO) <mbrown3@marathonoil.com>
Sent: Friday, May 24, 2019 9:28 AM
To: Gorman, Jessica (MRO); McMillan, Michael, EMNRD
Cc: Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Jones, William V, EMNRD; Murphy, Kathleen A, EMNRD; Bradfute, Jennifer (MRO); Buening, Jon (MRO)
Subject: [EXT] RE: Notification of Protest for Application to Inject: Black Hole Federal SWD #2 and Super Siphon State SWD #2

Mr. McMillan,

Pursuant to our discussion I am resending the protest email below without the Applications. In the future Marathon will cease attaching the Applications when we send objection emails.

Regards,

Matt Brown, CPL
Marathon Oil Corporation
Land – Permian
Ph# 713.296.3408 / Cell# 281.468.8833
5555 San Felipe St. / Houston, TX 77056

From: Gorman, Jessica (MRO) <jgorman1@marathonoil.com>
Sent: Thursday, May 23, 2019 3:49 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Cc: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; KathleenA.Murphy@state.nm.us; Bradfute, Jennifer (MRO) <jbradfute@marathonoil.com>; Buening, Jon (MRO) <jbuening@marathonoil.com>; Brown, Matthew D. (MRO) <mbrown3@marathonoil.com>
Subject: Notification of Protest for Application to Inject: Black Hole Federal SWD #2 and Super Siphon State SWD #2

Mr. McMillan,

I am sending you this email in response to two (2) SWD's that Marathon Oil Permian LLC would like to notify and express our objections to the proposed locations for the injection zone for these wells, Marathon's records show that these wells will impact our correlative rights.

Please note that Marathon Oil Permian LLC is currently in negotiations with the Operator to resolve this matter in a reasonable time frame.

The SWD's are as follows:

- 1) **Black Hole Federal SWD #2**, Operated by Permian Oilfield Partners (SESE of Section 31, 25S-34E)
- 2) **Super Siphon State SWD #2**, Operated by Permian Oilfield Partners (SWSW of Section 36, 24S-34E) *Declarative Protest*

Respectfully,

Jessica Gorman



Advanced Land Specialist – Permian
Telephone: 713-296-3024
5555 San Felipe St.
Houston, Texas 77056

McMillan, Michael, EMNRD

From: Gorman, Jessica (MRO) <jgorman1@marathonoil.com>
Sent: Tuesday, May 28, 2019 2:03 PM
To: McMillan, Michael, EMNRD; spuryear@popmidstream.com
Cc: Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Jones, William V, EMNRD; Murphy, Kathleen A, EMNRD
Subject: [EXT] RE: Notification of Protest for Application to Inject: Black Hole Federal SWD #2 Marathon

Mr. McMillan,

Marathon has spoken to Permian Oilfield Partners, LLC and we have agreed to withdraw our protests to Black Hole SWD #2.

Thank you for your assistance in this matter.

Respectfully,

Jessica Gorman



Advanced Land Specialist – Permian
Telephone: 713-296-3024
5555 San Felipe St.
Houston, Texas 77056

From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Friday, May 24, 2019 11:59 AM
To: spuryear@popmidstream.com
Cc: Gorman, Jessica (MRO) <jgorman1@marathonoil.com>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Murphy, Kathleen A, EMNRD <KathleenA.Murphy@state.nm.us>
Subject: [External] Notification of Protest for Application to Inject: Black Hole Federal SWD #2 Marathon

Beware of links/attachments.

RE: Black Hole Federal SWD #2 (API 30-025-Pending; Admin. Appl. No pMAM1913550407) Unit P; Sec 31, T25S, R34E, NMPPM, Lea County

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