

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: 4/30/2019	REVIEWER:	TYPE: SWD	APP NO: PMAM 19127 38972
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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:** Chugger State 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 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

Date

04/26/2019

Print or Type Name

(817) 600-8772

Phone Number

spuryear@popmidstream.com

e-mail Address

Signature



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
Chugger State SWD #1
Sec. 36, Twp. 26S, Rge. 32E
980' FNL, 1679' FEL
Lea County, NM

Mr. Goetze,
Attached is a C-108 Application for administrative approval of Permian Oilfield Partners LLC's proposed Chugger State SWD #1 located in Sec 36, Twp 26S, Rge 32E, 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 offset operators, mineral owners, lessees and the surface owner. 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,

A handwritten signature in blue ink, appearing to read "Sean Puryear", is written over a light green rectangular background.

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

Date:

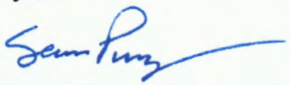
04/26/2019

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: **4-24-2019**

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 15,605'

Underlying Potentially Productive Zones:

None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Chugger State SWD #1
980' FNL, 1679' FEL
Sec. 36, T26S, R32E, Lea Co. NM
Lat 32.0035303° N, Lon 103.6252299° W
GL 3099', RKB 3129'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 671'
Cement: 401 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: 4731'
Cement: 1524 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: 11933' ECP/DV Tool: 4831'
Cement: 2047 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: 11733'
Depth Btm: 17371'
Cement: 264 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11733' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 18999'
Inj. Interval: 17371' - 18999' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17326' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80
X/O Depth: 11733' FJ Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17336' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Chugger State SWD #1
980' FNL, 1679' FEL
Sec. 36, T26S, R32E, Lea Co. NM
Lat 32.0035303° N, Lon 103.6252299° W
GL 3099', RKB 3129'

Surface - (Conventional)

Hole Size: 26"
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Depth Top: Surface
Depth Btm: 671'
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Cement Top: Surface - (Circulate)

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Cement: 1524 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: 11933'
Cement: 2047 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4831'

Intermediate #3 - (Liner)

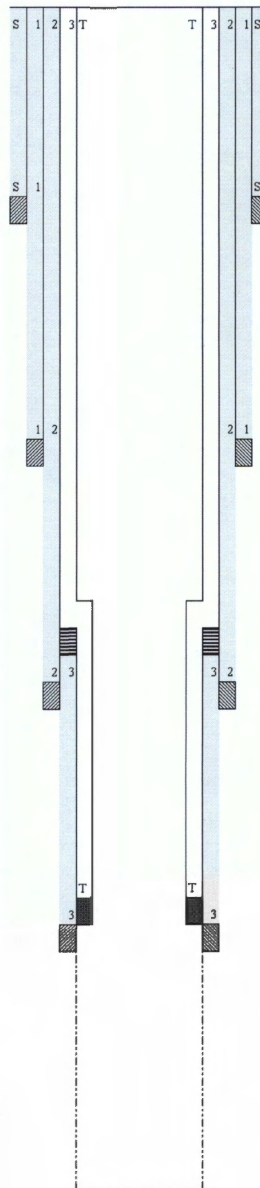
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11733'
Depth Btm: 17371'
Cement: 264 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11733' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18999'
Inj. Interval: 17371' - 18999' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17326'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11733'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17336'
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 3,474 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.
 Chugger State SWD #1
 980' FNL, 1679' FEL
 Sec. 36, T26S, R32E, Lea Co. NM
 Lat 32.0035303° N, Lon 103.6252299° W
 GL 3099', RKB 3129'

GEOLOGY PROGNOSIS			
FORMATION	TOP KB TVD (ft)	BOTTOM KB TVD (ft)	THICKNESS (ft)
Salt	999	4,483	3,484
Delaware	4,706	8,782	4,076
Bone Spring	8,782	11,883	3,101
Wolfcamp	11,883	13,318	1,435
Lwr. Mississippian	16,817	17,127	310
Woodford	17,127	17,336	209
Devonian	17,336	18,418	1,082
Fusselman (Silurian)	18,418	19,024	606
Montoya (U. Ordovician)	19,024	19,471	447
Simpson (M. Ordovician)	19,471	20,171	700

2. According to both the New Mexico Office of the State Engineer and the Texas Commission on Environmental Quality (TCEQ), there are NO fresh water wells within the proposed well's one-mile area of review. Regionally, shallow fresh water is known to exist at depths less than 646'. 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 fresh water wells within the proposed well's one-mile area of review. No sampling was obtained.
- 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 CHUGGER STATE SWD	⁶ Well Number 1
⁷ OGRID NO. 328259	⁸ Operator Name PERMIAN OILFIELD PARTNERS LLC	⁹ Elevation 3099'

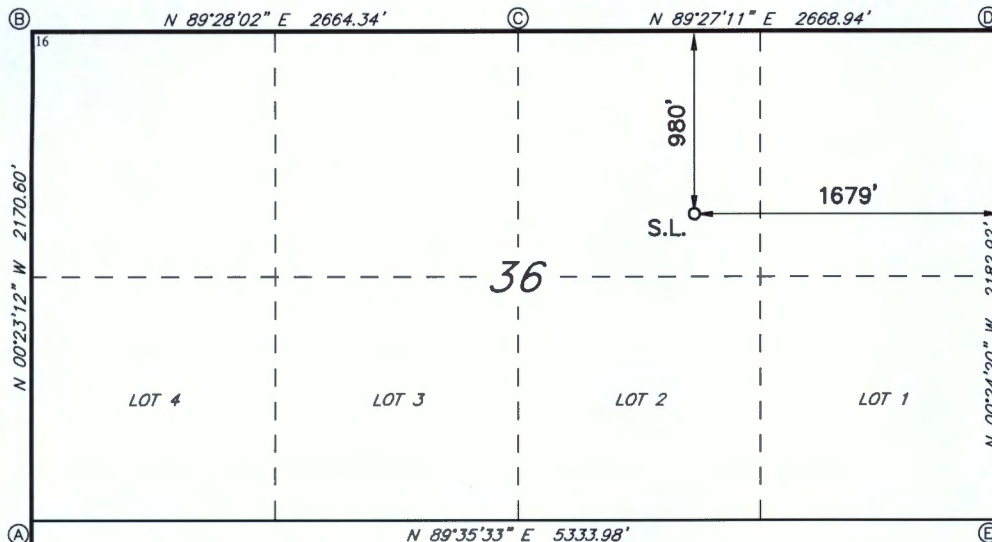
¹⁰ Surface Location

UL or lot no. B	Section 36	Township 26S	Range 32E	Lot Idn	Feet from the 980	North/South line NORTH	Feet From the 1679	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.



¹⁷ OPERATOR CERTIFICATION

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

Gary E Fisher 4-16-2019
Signature Date

Gary E Fisher
Printed Name

gfisher@popmidstream.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

03-16-2019

Date of Survey

Signature and Seal of Professional Surveyor

10034

Certificate Number

GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N 365742.6 - E 760835.2

LAT: 32.0035303° N
LONG: 103.6252299° W

CORNER DATA
NAD 83 GRID - NM EAST

A: CALCULATED CORNER
N 364517.9 - E 757189.0

B: FOUND BRASS CAP "1939"
N 366688.1 - E 757174.4

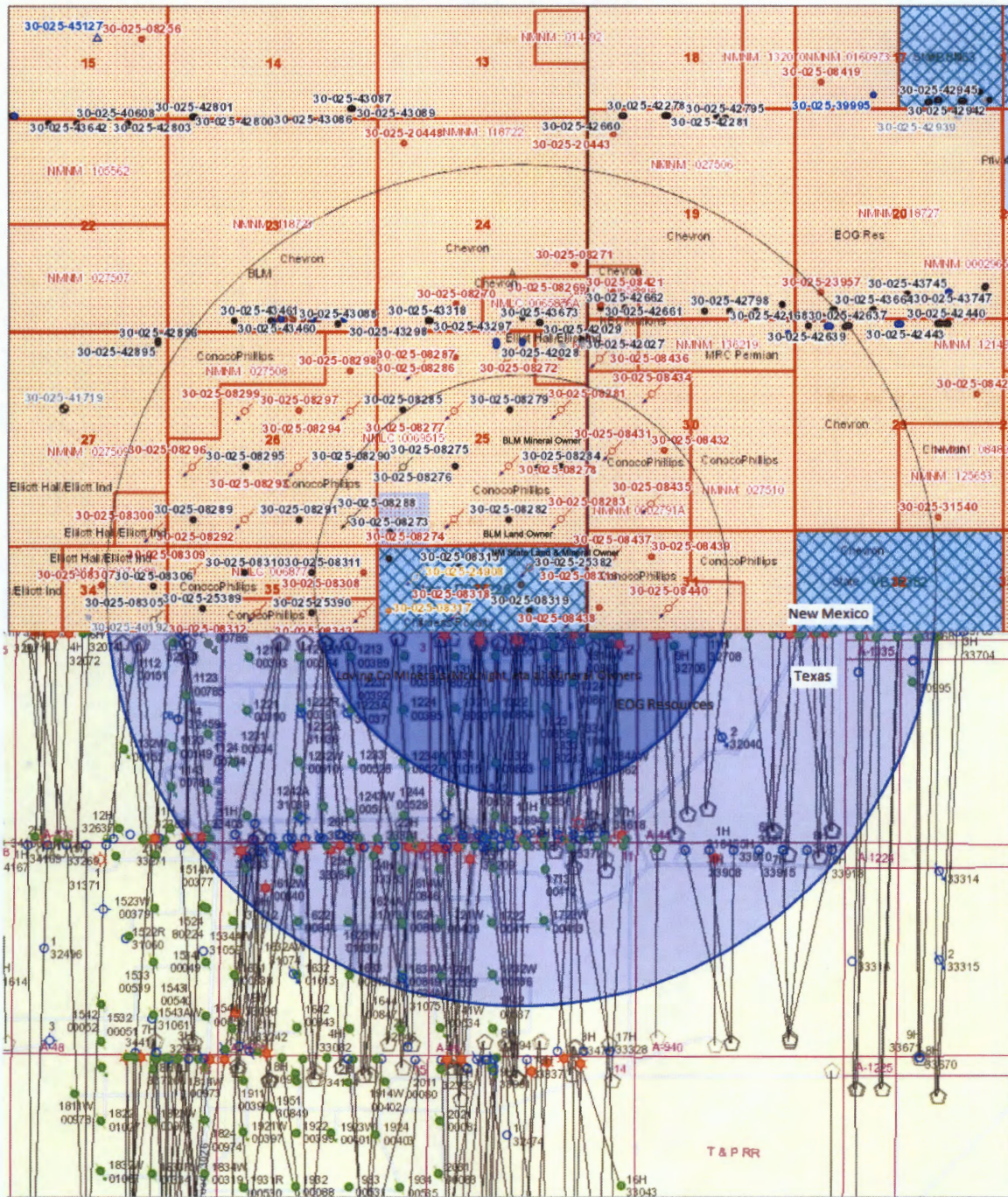
C: FOUND BRASS CAP "1939"
N 366712.9 - E 759838.1

D: FOUND BRASS CAP "1939"
N 366738.3 - E 762506.5

E: FOUND BRASS CAP "1939"
N 364555.9 - E 762521.9

Job No.: LS19030271R

1 & 2 Mile AOR, Chugger State SWD #1



4/22/2019, 3:05:09 PM

- Override 1
- Well Locations - Small Scale
 - Active
 - New
 - Plugged
 - Cancelled
 - Temporarily Abandoned
- Well Locations - Large Scale
 - Miscellaneous
 - CO2 Active
 - CO2 Cancelled
 - CO2 New
 - CO2 Plugged
 - CO2 Temporarily Abandoned
- Gas Active
- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, 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
- PLSS First Division



U.S. BLM
Sources: Esri, HERE, Garmin, Intermap, Increment P Corp.,
GEOCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,
Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),

New Mexico Oil Conservation Division

Chugger State SWD #1 - New Mexico 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
30-025-08273	SAHARA OPERATING CO	NORTH EL MAR UNIT	#034	Oil	Vertical	Active	25	T26S	R32E	M	M-25-26S-32E 330 FSL 330 FWL	M-25-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-08274	QUAY VALLEY INC.	NORTH EL MAR UNIT	#035	Injection	Vertical	Plugged, Site Released	25	T26S	R32E	N	N-25-26S-32E 330 FSL 1980 FWL	N-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08275	SAHARA OPERATING CO	NORTH EL MAR UNIT	#024	Injection	Vertical	Active	25	T26S	R32E	L	L-25-26S-32E 330 FSL 660 FWL	L-25-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08276	SAHARA OPERATING CO	NORTH EL MAR UNIT	#023	Oil	Vertical	Active	25	T26S	R32E	K	K-25-26S-32E 330 FSL 1980 FWL	K-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08277	QUAY VALLEY INC.	NORTH EL MAR UNIT	#014	Injection	Vertical	Plugged, Site Released	25	T26S	R32E	F	F-25-26S-32E 330 FSL 1980 FWL	F-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08278	QUAY VALLEY INC.	NORTH EL MAR UNIT	#022	Injection	Vertical	Plugged, Site Released	25	T26S	R32E	J	J-25-26S-32E 330 FSL 1980 FWL	J-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08279	SAHARA OPERATING CO	NORTH EL MAR UNIT	#015	Oil	Vertical	Active	25	T26S	R32E	G	G-25-26S-32E 330 FSL 1980 FWL	G-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08281	SAHARA OPERATING CO	NORTH EL MAR UNIT	#016	Injection	Vertical	Plugged, Site Released	25	T26S	R32E	H	H-25-26S-32E 330 FSL 1980 FWL	H-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08282	SAHARA OPERATING CO	NORTH EL MAR UNIT	#036	Oil	Vertical	Active	25	T26S	R32E	O	O-25-26S-32E 330 FSL 1980 FWL	O-25-26S-32E 330 FSL 1980 FWL	DELAWARE
30-025-08283	QUAY VALLEY INC.	NORTH EL MAR UNIT	#037	Injection	Vertical	Plugged, Site Released	25	T26S	R32E	P	P-25-26S-32E 330 FSL 660 FWL	P-25-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08284	SAHARA OPERATING CO	NORTH EL MAR UNIT	#033	Injection	Vertical	Active	26	T26S	R32E	P	P-26-26S-32E 330 FSL 660 FWL	P-26-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08290	SAHARA OPERATING CO	NORTH EL MAR UNIT	#025	Oil	Vertical	Active	35	T26S	R32E	I	I-26-26S-32E 330 FSL 660 FWL	I-26-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08298	SAHARA OPERATING CO	NORTH EL MAR UNIT	#045	Injection	Vertical	Plugged, Site Released	35	T26S	R32E	A	A-35-26S-32E 330 FSL 330 FWL	A-35-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-08308	SAHARA OPERATING CO	NORTH EL MAR UNIT	#052	Injection	Vertical	Plugged, Site Released	35	T26S	R32E	H	H-35-26S-32E 330 FSL 330 FWL	H-35-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-08313	SAHARA OPERATING CO	NORTH EL MAR UNIT	#044	Oil	Vertical	Active	36	T26S	R32E	D	D-36-26S-32E 330 FSL 330 FWL	D-36-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-08314	SAHARA OPERATING CO	NORTH EL MAR UNIT	#043	Oil	Vertical	Active	36	T26S	R32E	C	C-36-26S-32E 330 FSL 2108 FWL	C-36-26S-32E 330 FSL 2108 FWL	DELAWARE
30-025-08315	QUAY VALLEY INC.	NORTH EL MAR UNIT	#042	Injection	Vertical	Plugged, Site Released	36	T26S	R32E	B	B-36-26S-32E 330 FSL 1448 FWL	B-36-26S-32E 330 FSL 1448 FWL	DELAWARE
30-025-08316	SAHARA OPERATING CO	NORTH EL MAR UNIT	#053	Oil	Vertical	Expired Temporary Abandonment	36	T26S	R32E	E	E-36-26S-32E 330 FSL 330 FWL	E-36-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-08317	SAHARA OPERATING CO	NORTH EL MAR UNIT	#054	Injection	Vertical	Plugged, Not Released	36	T26S	R32E	F	F-36-26S-32E 330 FSL 2108 FWL	F-36-26S-32E 330 FSL 2108 FWL	DELAWARE
30-025-08318	SAHARA OPERATING CO	NORTH EL MAR UNIT	#055	Oil	Vertical	Active	36	T26S	R32E	G	G-36-26S-32E 330 FSL 1448 FWL	G-36-26S-32E 330 FSL 1448 FWL	DELAWARE
30-025-08431	SAHARA OPERATING CO	NORTH EL MAR UNIT	#020	Injection	Vertical	Plugged, Site Released	30	T26S	R32E	L	L-30-26S-32E 330 FSL 660 FWL	L-30-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08432	SAHARA OPERATING CO	NORTH EL MAR UNIT	#019	Oil	Vertical	Plugged, Site Released	30	T26S	R32E	K	K-30-26S-32E 330 FSL 660 FWL	K-30-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08433	SAHARA OPERATING CO	NORTH EL MAR UNIT	#038	Oil	Vertical	Plugged, Site Released	30	T26S	R32E	M	M-30-26S-32E 330 FSL 1650 FWL	M-30-26S-32E 330 FSL 1650 FWL	DELAWARE
30-025-08437	SAHARA OPERATING CO	NORTH EL MAR UNIT	#039	Injection	Vertical	Plugged, Site Released	30	T26S	R32E	N	N-30-26S-32E 330 FSL 660 FWL	N-30-26S-32E 330 FSL 660 FWL	DELAWARE
30-025-08438	SAHARA OPERATING CO	NORTH EL MAR UNIT	#041	Injection	Vertical	Plugged, Site Released	31	T26S	R32E	D	D-31-26S-32E 330 FSL 1935 FWL	D-31-26S-32E 330 FSL 1935 FWL	DELAWARE
30-025-08439	SAHARA OPERATING CO	NORTH EL MAR UNIT	#056	Oil	Vertical	Plugged, Site Released	31	T26S	R32E	C	C-31-26S-32E 330 FSL 1650 FWL	C-31-26S-32E 330 FSL 1650 FWL	DELAWARE
30-025-08440	SAHARA OPERATING CO	NORTH EL MAR UNIT	#057	Injection	Vertical	Plugged, Site Released	31	T26S	R32E	F	F-31-26S-32E 330 FSL 1935 FWL	F-31-26S-32E 330 FSL 1935 FWL	DELAWARE
30-025-24808	SAHARA OPERATING CO	NORTH EL MAR UNIT	#058	Injection	Vertical	Expired Temporary Abandonment	36	T26S	R32E	D	D-36-26S-32E 330 FSL 990 FWL	D-36-26S-32E 330 FSL 990 FWL	DELAWARE
30-025-25382	SAHARA OPERATING CO	NORTH EL MAR UNIT	#061	Oil	Vertical	Plugged, Not Released	36	T26S	R32E	A	A-36-26S-32E 330 FSL 330 FWL	A-36-26S-32E 330 FSL 330 FWL	DELAWARE
30-025-25422	SAHARA OPERATING CO	NORTH EL MAR UNIT	#062	Injection	Vertical	Plugged, Not Released	36	T26S	R32E	H	H-36-26S-32E 330 FSL 1829 FWL	H-36-26S-32E 330 FSL 1829 FWL	DELAWARE
30-025-41720	CONOCOPHILLIPS COMPANY	WAR HAMMER 25 M	#001	Miscellaneous	Vertical	New	25	T26S	R32E	I	I-25-26S-32E 1890 FSL 1240 FWL	I-25-26S-32E 1890 FSL 1240 FWL	WOLF CAMP 14880

Chugger State SWD #1 - Texas Wells within 1 Mile Area of Review

API Number	Operator	Well Name	Well Number	Type/Status	Well Direction	Abstract	Survey	Block	Section	Distance1	Direction1	Distance2	Direction2	Formation	TVD
4230100388	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1214W	Plugged Oil Well	Vertical	45	T&P RR CO	54 T1	3	655	NORTH	645	EAST	DELAWARE	4705
4230100389	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1213	Plugged Oil Well	Vertical	45	T&P RR CO	54 T1	3	629	NORTH	2009	EAST	DELAWARE	4689
4230100395	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1224	Plugged Oil Well	Vertical	45	T&P RR CO	54 T1	3	1946	NORTH	665	EAST	DELAWARE	4695
4230100853	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1332	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1967	SOUTH	1664	WEST	DELAWARE	4705
4230100854	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1322	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1946	NORTH	1663	WEST	DELAWARE	4712
4230100855	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1312W	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	636	NORTH	1643	WEST	DELAWARE	4710
4230100858	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1323	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1940	NORTH	2934	WEST	DELAWARE	4745
4230100859	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1314W	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	616	NORTH	2967	WEST	DELAWARE	4747
4230100860	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1313W	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	298	NORTH	1417	EAST	DELAWARE	4664
4230100861	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1324	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1298	NORTH	1650	EAST	DELAWARE	4650
4230100862	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1334W	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1967	SOUTH	965	EAST	DELAWARE	4765
4230101015	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1331	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1996	SOUTH	336	WEST	DELAWARE	4680
4230101064	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1334	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	2605	NORTH	1647	EAST	DELAWARE	4765
4230131843	EOG RESOURCES INC.	EXCELSIOR 12	1H	Oil/Gas Well	Horizontal	940	T&P RR CO/HAGEN W	54 T1	12	500	WEST	250	NORTH	BONE SPRING	9082
4230132171	EOG RESOURCES INC.	STATE PATHFINDER	1H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	700	NORTH	800	EAST	BONE SPRING	9010
4230132172	EOG RESOURCES INC.	STATE PATHFINDER	2H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	400	NORTH	830	EAST	BONE SPRING	9856
4230132192	EOG RESOURCES INC.	STATE PATHFINDER	3H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	700	NORTH	830	EAST	BONE SPRING	9031
4230132193	EOG RESOURCES INC.	STATE PATHFINDER	4H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	620	NORTH	1630	EAST	BONE SPRING	10688
4230132283	XTO ENERGY INC.	SUN 54-2	1H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	214	NORTH	468	WEST	WOLF CAMP	11815
4230132330	EOG RESOURCES INC.	STATE PATHFINDER	5H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	620	NORTH	1660	EAST	BONE SPRING	10359
4230132358	EOG RESOURCES INC.	STATE PATHFINDER	6H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	221	NORTH	2096	EAST	BONE SPRING	9850
4230132359	EOG RESOURCES INC.	STATE PATHFINDER	7H	Oil Well	Horizontal	49	T&P RR CO	54 T1	11	222	NORTH	2127	EAST	BONE SPRING	10649
4230132476	EOG RESOURCES INC.	APOLLO	1H	Horizontal Drainhole	Horizontal	45	T&P RR CO	54 T1	3	200	NORTH	865	EAST	WOLF CAMP	12075
4230132477	EOG RESOURCES INC.	APOLLO	2H	Horizontal Drainhole	Horizontal	45	T&P RR CO	54 T1	3	200	NORTH	895	EAST	WOLF CAMP	12089
4230132513	EOG RESOURCES INC.	EXCELSIOR	8H	Oil/Gas Well	Horizontal	44	T&P RR CO	54 T1	1	200	SOUTH	968	WEST	WOLF CAMP	12556
4230132519	EOG RESOURCES INC.	EXCELSIOR	7H	Oil Well	Horizontal	44	T&P RR CO	54 T1	1	200	SOUTH	938	WEST	WOLF CAMP	12177
4230132601	EOG RESOURCES INC.	STATE PATHFINDER	12H	Oil/Gas Well	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	300	SOUTH	1093	EAST	BONE SPRING	10661
4230132602	EOG RESOURCES INC.	STATE PATHFINDER	13H	Oil/Gas Well	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	300	SOUTH	1123	EAST	BONE SPRING	10656
4230132691	XTO ENERGY INC.	SUN 54-2	16H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	231	NORTH	628	EAST	WOLF CAMP	12558
4230132706	EOG RESOURCES INC.	EXCELSIOR 7	9H	Oil Well	Horizontal	44	T&P RR CO	54 T1	1	720	SOUTH	1251	WEST	WOLF CAMP	12090
4230132707	EOG RESOURCES INC.	EXCELSIOR 7	10H	Oil Well	Horizontal	44	T&P RR CO	54 T1	1	720	SOUTH	1281	WEST	WOLF CAMP	12198
4230132708	EOG RESOURCES INC.	EXCELSIOR 7	11H	Oil Well	Horizontal	44	T&P RR CO	54 T1	1	850	SOUTH	1737	WEST	WOLF CAMP	12115
4230132811	EOG RESOURCES INC.	STATE PATHFINDER	14H	Oil/Gas Well	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	230	SOUTH	1916	WEST	BONE SPRING	9842
4230132812	EOG RESOURCES INC.	STATE PATHFINDER	15H	Oil/Gas Well	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	230	SOUTH	1951	WEST	BONE SPRING	9830
4230132813	EOG RESOURCES INC.	STATE PATHFINDER	16H	Oil/Gas Well	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	300	SOUTH	810	WEST	BONE SPRING	9791
4230132814	EOG RESOURCES INC.	STATE PATHFINDER	17H	Oil/Gas Well	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	300	SOUTH	770	WEST	BONE SPRING	10711
4230133026	EOG RESOURCES INC.	STATE PATHFINDER 7	19H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	232	NORTH	680	EAST	WOLF CAMP	12170
4230133028	EOG RESOURCES INC.	STATE PATHFINDER 7	20H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	233	NORTH	729	EAST	WOLF CAMP	12095
4230133029	EOG RESOURCES INC.	STATE PATHFINDER 7	21H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	233	NORTH	779	EAST	WOLF CAMP	12080
4230133138	EOG RESOURCES INC.	STATE PATHFINDER	8H	Oil/Gas Well	Horizontal	49	T&P RR CO	54 T1	11	250	NORTH	1425	WEST	BONE SPRING	10580
4230133139	EOG RESOURCES INC.	STATE PATHFINDER	9H	Oil/Gas Well	Horizontal	49	T&P RR CO	54 T1	11	250	NORTH	1460	WEST	BONE SPRING	10600
4230133187	EOG RESOURCES INC.	STATE PATHFINDER 7	24H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	2181	WEST	WOLF CAMP	12068
4230133197	EOG RESOURCES INC.	STATE PATHFINDER 7	22H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	2088	EAST	WOLF CAMP	12082
4230133198	EOG RESOURCES INC.	STATE PATHFINDER 7	23H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	2123	EAST	WOLF CAMP	12076
4230133199	EOG RESOURCES INC.	STATE PATHFINDER 7	25H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	2145	WEST	WOLF CAMP	12071
4230133210	EOG RESOURCES INC.	STATE PATHFINDER 7	27H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	1187	WEST	WOLF CAMP	12287
4230133211	EOG RESOURCES INC.	STATE PATHFINDER 7	28H	Horizontal Drainhole	Horizontal	1260	T&P RR CO/CAMERON E F	54 T1	2	330	NORTH	1153	WEST	WOLF CAMP	12044
4230133371	EOG RESOURCES INC.	STATE PATHFINDER	31H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	415	NORTH	1168	EAST	BONE SPRING	9066
4230133372	EOG RESOURCES INC.	STATE PATHFINDER	32H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	415	NORTH	1203	EAST	BONE SPRING	9077
4230133394	EOG RESOURCES INC.	APOLLO 7	3H	Horizontal Drainhole	Horizontal	45	T&P RR CO	54 T1	3	295	NORTH	2100	EAST	WOLF CAMP	843
4230133395	EOG RESOURCES INC.	APOLLO 7	4H	Horizontal Drainhole	Horizontal	45	T&P RR CO	54 T1	3	295	NORTH	2135	EAST	WOLF CAMP	11885
4230133456	EOG RESOURCES INC.	STATE PATHFINDER	33H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	301	NORTH	2592	EAST	BONE SPRING	9072
4230133457	EOG RESOURCES INC.	STATE PATHFINDER	34H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	301	NORTH	2627	EAST	BONE SPRING	9059
4230133618	EOG RESOURCES INC.	STATE PATHFINDER 7	37H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	1196	NORTH	600	EAST	WOLF CAMP	12947
4230133755	EOG RESOURCES INC.	STATE PATHFINDER 7	38H	Horizontal Drainhole	Horizontal	1260	T&P RR CO / CAMERON E F	54 T1	2	330	NORTH	1138	WEST	WOLF CAMP	11912
4230180203	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1311	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	655	NORTH	645	WEST	DELAWARE	4725
4230180207	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1321	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1967	NORTH	659	WEST	DELAWARE	4728
4230180213	OXY USA WTP LP	EL MAR /DELAWARE/ UNIT	1333	Plugged Oil Well	Vertical	1260	T&P RR CO	54 T1	2	1960	SOUTH	2309	EAST	DELAWARE	4720



Statement of Notifications

Re: C-108 Application for SWD Well
 Permian Oilfield Partners, LLC
 Chugger State SWD #1
 Sec. 36, Twp. 26S, Rge. 32E
 980' FNL, 1679' FEL
 Lea County, NM

Permian Oilfield Partners, LLC has mailed notifications to offset operators, mineral owners, lessees and the surface owner as per the following list:

Chugger State SWD #1 - Affected Persons within 1 Mile Area of Review					
Notified Name	Notified Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date
Sahara Operating Co	P.O. Box 4130	Midland, TX 79704	USPS	9414811899561824263137	4/26/2019
Quay Valley Inc.	P.O. Box 10280	Midland, TX 79702	USPS	9414811899561824263199	4/26/2019
ConocoPhillips Company	P.O.Box 2197 Office EC3-10-W285	Houston, TX 77252	USPS	9414811899561824263601	4/26/2019
EOG Resources Inc	P.O. Box 2267	Midland, TX 79702	USPS	9414811899561824263687	4/26/2019
XTO Energy Inc.	22777 Springwoods Village Pkwy.	Spring, TX 77389	USPS	9414811899561824263311	4/26/2019
Meridian Oil Inc	P.O. BOX 4239	Houston, TX 77210	USPS	9414811899561824263113	4/26/2019
Oxy USA WTP LP	5 Greenway Plaza Suite 110	Houston, TX 77046-0521	USPS	9414811899561824263106	4/26/2019
Bureau Of Land Management	620 E Greene St	Carlsbad, NM 88220	USPS	9414811899561824263656	4/26/2019
New Mexico State Land Office	2827 N Dal Paso St Suite 117	Hobbs, NM 88240	USPS	9414811899561824263168	4/26/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561824263151	4/26/2019
BLM Roswell FO	2909 W 2nd St	Roswell, NM 88201	USPS	9414811899561824263977	4/26/2019
Elliott Industries, LP	500 North Kentucky Avenue	Roswell, NM 88201	USPS	9414811899561824263649	4/26/2019
Elliott Hall Co Ut, LP	2668 Grant Avenue, Suite 104	Ogden, UT 84401	USPS	9414811899561824263694	4/26/2019
Childress Royalty Company	411 W 5th Street	Joplin, MO 64801	USPS	9414811899561824263663	4/26/2019
RRC of Texas Injection-Storage Permits (UIC Dept.)	1701 N. Congress Ave.	Austin, TX 78701	USPS	9414811899561824263182	4/26/2019

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

Date:

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

ARTICLE NUMBER: 9414 8118 9956 1824 2631 37

ARTICLE ADDRESSED TO:

Sahara Operating Co.
PO Box 4130
Midland TX 79704-4130

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3.50
6.70

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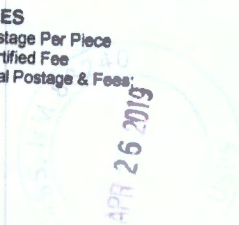
Quay Valley Inc.
PO Box 10280
Midland TX 79702-7280

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\$3.20
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ConocoPhillips Company
PO Box 2197
Houston TX 77252-2197

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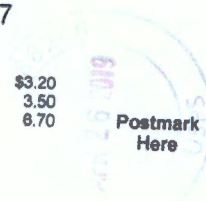
EOG Resources, Inc.
PO Box 2267
Midland TX 79702-2267

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Total Postage & Fees:

\$3.20
3.50
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ARTICLE ADDRESSED TO:

XTO Energy Inc.
22777 Springwoods Village Pkwy.
Spring TX 77389-1425

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Postage Per Piece
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Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE ADDRESSED TO:

Meridian Oil Inc.
PO Box 4239
Houston TX 77210-4239

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE ADDRESSED TO:

Oxy USA WTP LP
5 Greenway Plaza Suite 110
Houston TX 77046-0521

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2631 51

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
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Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2639 77

ARTICLE ADDRESSED TO:

BLM Roswell FO
2909 W. 2nd Street
Roswell NM 88201-1287

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Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2636 49

ARTICLE ADDRESSED TO:

Elliott Industries, LP
500 North Kentucky Ave
Roswell NM 88201-4721

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.20
3.50
6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2636 94

ARTICLE ADDRESSED TO:

Elliott Hall Co UT, LP
2668 Grant Ave. Suite 104
Ogden UT 84401-3656

FEES

Postage Per Piece	\$3.20
Certified Fee	3.50
Total Postage & Fees:	6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2636 63

ARTICLE ADDRESSED TO:

Childress Royalty Company
411 W. 5th Street
Joplin MO 64801-2527

FEES

Postage Per Piece	\$3.20
Certified Fee	3.50
Total Postage & Fees:	6.70

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ARTICLE NUMBER: 9414 8118 9956 1824 2631 82

ARTICLE ADDRESSED TO:

RRC of Texas-Storage Permits (UIC)
1701 N. Congress Ave.
Austin TX 78701-1494

FEES

Postage Per Piece	\$3.20
Certified Fee	3.50
Total Postage & Fees:	6.70

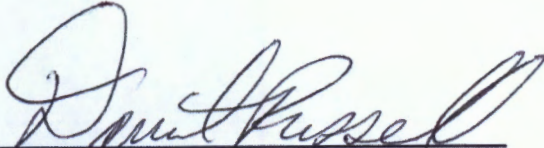
Postmark
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Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

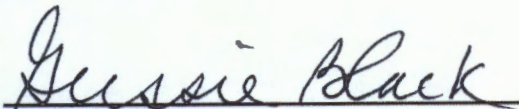
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 24, 2019
and ending with the issue dated
April 24, 2019.



Publisher

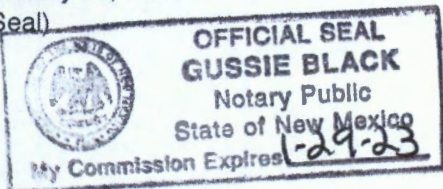
Sworn and subscribed to before me this
24th day of April 2019.



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

LEGALS

LEGAL NOTICE
APRIL 24, 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 Chugger State SWD #1, and is located 980' FNL & 1679' FEL, Unit Letter B, Section 36, Township 26 South, Range 32 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 17,371 feet to 18,999 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,474 psi.

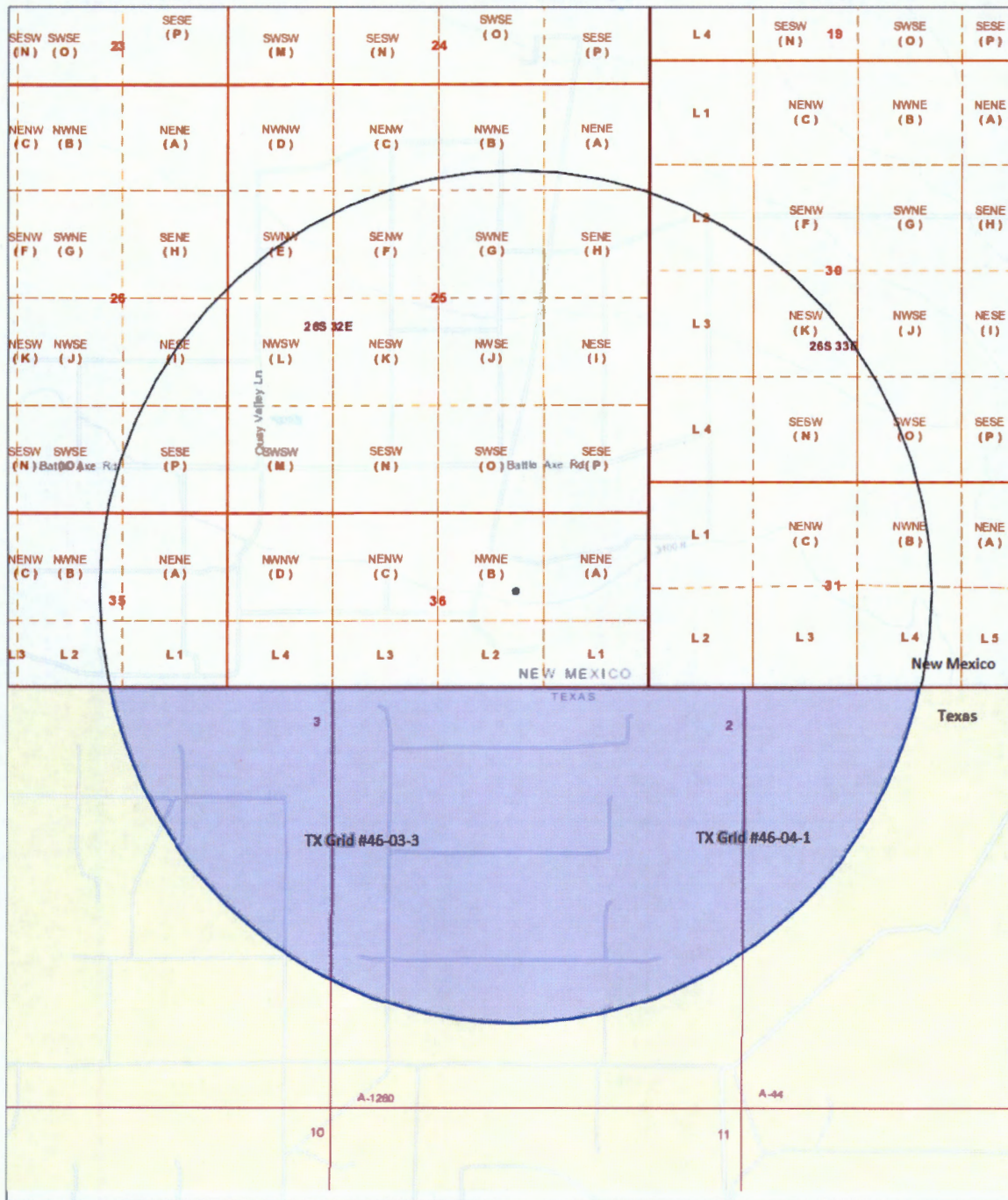
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#34069

67115647

00227365

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

Chugger State SWD #1 - Water Wells within 1 Mile AOR



4/24/2019, 2:22:04 PM

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

1:18,056

0 0.17 0.36 0.7 mi

0 0.28 0.55 1.1 km

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 Oil Conservation Division

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 02271	R	CUB	LE	2	3	21	26S	32E		624449	3544111*	150	125	25
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	270	250	20
C 02274		CUB	LE	2	1	2	31	26S	32E	621742	3541730*	300	295	5
C 02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	405	405	0
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	850		
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	280	180	100
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E	620628	3549186	646	350	296
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619	360	155	205
C 04209 POD2		C	LE	2	3	3	06	26S	32E	620818	3548657	340	155	185

Average Depth to Water: **239 feet**

Minimum Depth: **125 feet**

Maximum Depth: **405 feet**

Record Count: 9

PLSS Search:

Township: 26S **Range:** 32E

*UTM location was derived from PLSS - see Help

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

4/20/19 1:22 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Chugger State SWD #1
Sec. 36, Twp. 26S, Rge. 32E
980' FNL, 1679' 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 black ink, appearing to read "Gary Fisher", is written over a light blue circular background.

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 4/24/2019

Plugging Risk Assessment
Permian Oilfield Partners, LLC.
Chugger State SWD #1
SL: 980' FNL & 1679' FEL
Sec 36, T26S, R32E
Lea County, New Mexico

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Cruiger State SWD #1
980' FNL, 1679' FEL
Sec. 36, T26S, R32E, Lea Co. NM
Lat 32.0035303° N, Lon 103.6252299° W
GL 3099', RKB 3129'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 671'
Cement: 401 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: 4731'
Cement: 1524 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: 11933'
Cement: 2047 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4831'

Intermediate #3 - (Liner)

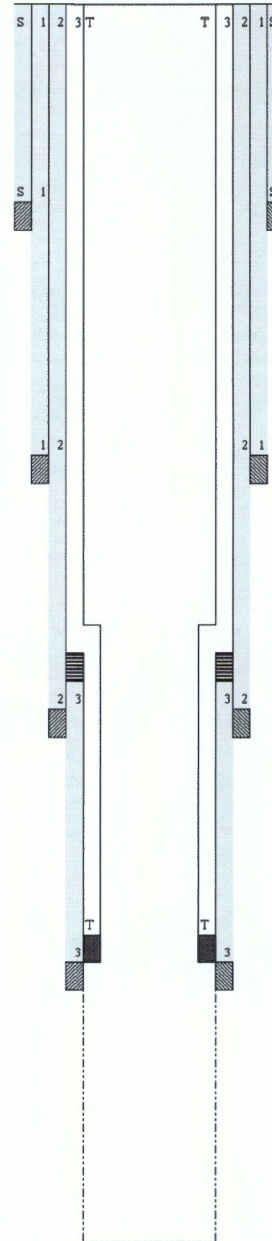
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11733'
Depth Btm: 17371'
Cement: 264 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11733' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18999'
Inj. Interval: 17371' - 18999' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17326'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11733'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17336'
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 3/4"	7 1/2"	8 1/4"	8 1/8"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	0217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	260

Replacement Parts

Top Sub	Part No.	A-3033	A-5223	0218	A-5355
Bowl	Part No.	B-3034	B-5224	0219	B-5356
Packer	Part No.	A-1814	B-5225	0224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	0222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	0223	B-5360
Standard Guide	Part No.	A-1818	A-5229	0226	A-5361

Basket Parts

Basket Grapple	Part No.	N-84	B-5227	0222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	0223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	0224-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"	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	8075	C-5171	C-4825	8025
(Dressed Spiral Parts)	Weight	130	130	133	138	140	182	185

Replacement Parts

Top Sub	Part No.	5897	5899	A-5169	8078	A-5172	B-4826	8026
Bowl	Part No.	5898	5700	B-5170	8077	B-5173	B-4827	8017
Packer	Part No.	109	1140	B-2190	0114	L-5950	L-4505	8018
Spiral Grapple	Part No.	105	1135	B-2201	0112	B-4369	M-1071	8019
Spiral Grapple Control	Part No.	188	1137	B-2202	0113	B-4370	M-1072	8020
Standard Guide	Part No.	187	1143	B-2203	0121	B-4371	L-1074	8021

Basket Parts

Basket Grapple	Part No.	105	1135	B-2201	0112	B-4369	M-1071	8019
Basket Grapple Control	Part No.	188	1137	B-2202	0113	B-4370	M-1072	8020
Mill Control Packer	Part No.	109-R	1140-R	B-2190-R	0114-R	L-5950-R	M-4505	L-8018-R

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

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

*Red Indicates Tubing

Fishing Procedure

Overshot Fishing Procedure

In the Event of a Connection Break

- If fishing neck is clean

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

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

- If dressing fishing neck is required

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

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

In the Event of a Body Break

- If fishing neck is clean

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

- If dressing fishing neck is required

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

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

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

Spear Fishing Procedure

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

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

Inside Diameter Cutting Tool Fishing Procedure

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

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

Abandonment Procedure

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

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



**Attachment to C-108
Permian Oilfield Partners, LLC
Chugger State SWD #1
Sec. 36, Twp. 26S, Rge. 32E
980' FNL, 1679' FEL
Lea County, NM**

April 16, 2019

STATEMENT REGARDING SEISMICITY

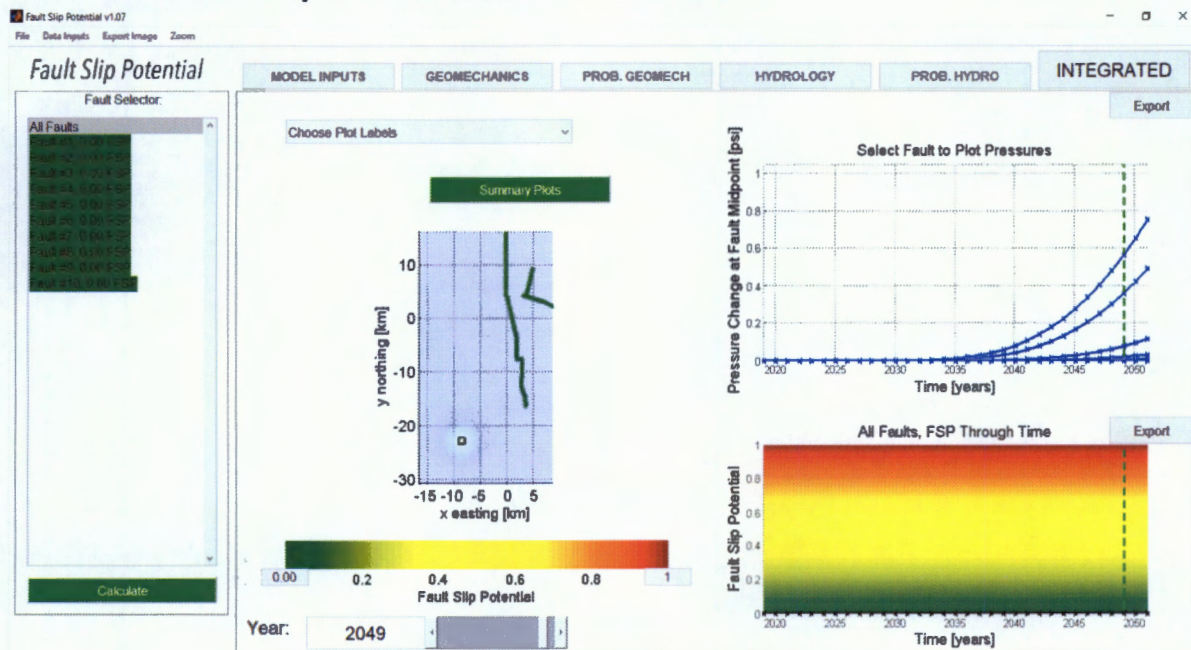
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity of M2.5 or greater in the area (< 30 miles) of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 18.56 miles away @ 12.55 deg heading
2. M3.1, 2012-03-18, 24.73 miles away @ 320.97 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-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.
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 2.37 miles away from the nearest active or permitted Devonian disposal well.

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