

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: DMAm1912859309
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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: Gulper 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 holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☒ Application requires published notice

D. ☒ Notification and/or concurrent approval by SLO

E. ☐ Notification and/or concurrent approval by BLM

F. ☒ Surface owner

G. ☒ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete

☐ Application
Content
Complete

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

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

Sean Puryear

Print or Type Name

Signature

04/27/2019

Date

(817) 600-8772

Phone Number

spuryear@popmidstream.com

e-mail Address

APR 30 2019 PM03:07



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
Gulper State SWD #1
Sec. 8, Twp. 24S, Rge. 33E
1258' FNL, 330' FEL
Lea County, NM

Mr. Goetze,
Attached is a C-108 Application for administrative approval of Permian Oilfield Partners LLC's proposed Gulper State SWD #1 located in Sec 8, Twp 24S, Rge 33E, 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,

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

Date:

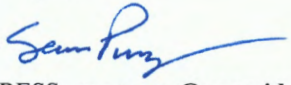
04/27/2019

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: **4-26-2019**

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.

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Additional Data

1. **Is this a new well drilled for injection?**
Yes
2. **Name of the Injection Formation:**
Devonian: Open Hole Completion
3. **Name of Field or Pool (if applicable):**
SWD; Devonian-Silurian
4. **Has the well ever been perforated in any other zone(s)?**
No: New Drill for Injection of Produced Water
5. **Give the name and depths of any oil or gas zones underlying or overlying the proposed Injection zone in this area:**

Overlying Potentially Productive Zones:

Delaware, Bone Spring, Wolfcamp, Strawn, Atoka & Morrow Tops all above 14,760'

Underlying Potentially Productive Zones:

None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.

Gulper State SWD #1

1258' FNL, 330' FEL

Sec. 8, T24S, R33E, Lea Co. NM

Lat 32.2359733° N, Lon 103.5868618° W

GL 3624', RKB 3654'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# H-40 & 106.5# J-55 STC Casing
Depth Top: Surface
Depth Btm: 1600'
Cement: 1110 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: 5174'
Cement: 1718 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: 12272' ECP/DV Tool: 5274'
Cement: 2129 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: 12072'
Depth Btm: 16557'
Cement: 234 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12072' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 18283'
Inj. Interval: 16557' - 18283' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 16512' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80
X/O Depth: 12072' FJ Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 16522' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Gulper State SWD #1
1258' FNL, 330' FEL
Sec. 8, T24S, R33E, Lea Co. NM
Lat 32.2359733° N, Lon 103.5868618° W
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Cement: 1718 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: 12272'
Cement: 2129 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 5274'

Intermediate #3 - (Liner)

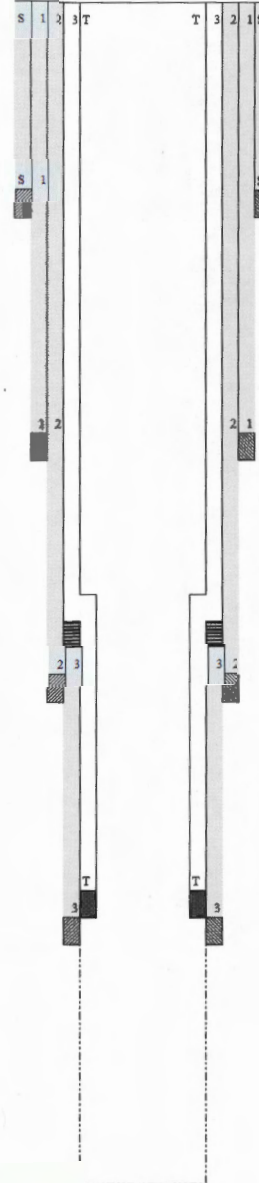
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 12072'
Depth Btm: 16557'
Cement: 234 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12072' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18283'
Inj. Interval: 16557' - 18283' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 16512'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 12072'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 16522'
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 3,311 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.
 Gulper State SWD #1
 1258' FNL, 330' FEL
 Sec. 8, T24S, R33E, Lea Co. NM
 Lat 32.2359733° N, Lon 103.5868618° W
 GL 3624', RKB 3654'

GEOLOGY PROGNOSIS			
FORMATION	TOP KB TVD (ft)	BOTTOM KB TVD (ft)	THICKNESS (ft)
Salt	1,672	4,961	3,289
Delaware	5,149	9,097	3,948
Bone Spring	9,097	12,222	3,125
Wolfcamp	12,222	13,209	987
Lwr. Mississippian	15,864	16,334	470
Woodford	16,334	16,522	188
Devonian	16,522	17,540	1,018
Fuselman (Silurian)	17,540	18,308	768
Montoya (U. Ordovician)	18,308	18,664	356
Simpson (M. Ordovician)	18,664	19,499	835

2. According to the New Mexico Office of the State Engineer and field exploration, there are 2 fresh water wells drilled within the proposed well's one-mile area of review but there was NO FRESH WATER FOUND. Regionally, shallow fresh water is known to exist at depths less than 643'. There is one well in the region that shows fresh water to 1533', but does not show TD, leading us to suspect that there may be a recording error in the well data, where well TD and depth of water were recorded incorrectly. Casing design on this well includes surface casing to a depth of 1600', which may be excessive, but will ensure ground water protection. 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 and field exploration, there are 2 fresh water wells drilled within the proposed well's one-mile area of review but there was NO FRESH WATER FOUND. No water samples were obtained.

Well Name	Formation Name	Depth Top	Depth Bottom	Thickness	Status
C 03565 POD3	None Given	None Given	None Given	N/A	Out of Service
C 03591 POD1	None Given	None Given	None Given	N/A	Out of Service

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 GULPER STATE SWD		⁶ Well Number 1
⁷ OGRID NO. 328259	⁸ Operator Name PERMIAN OILFIELD PARTNERS LLC		⁹ Elevation 3624'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
A	8	24S	33E		1258	NORTH	330	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

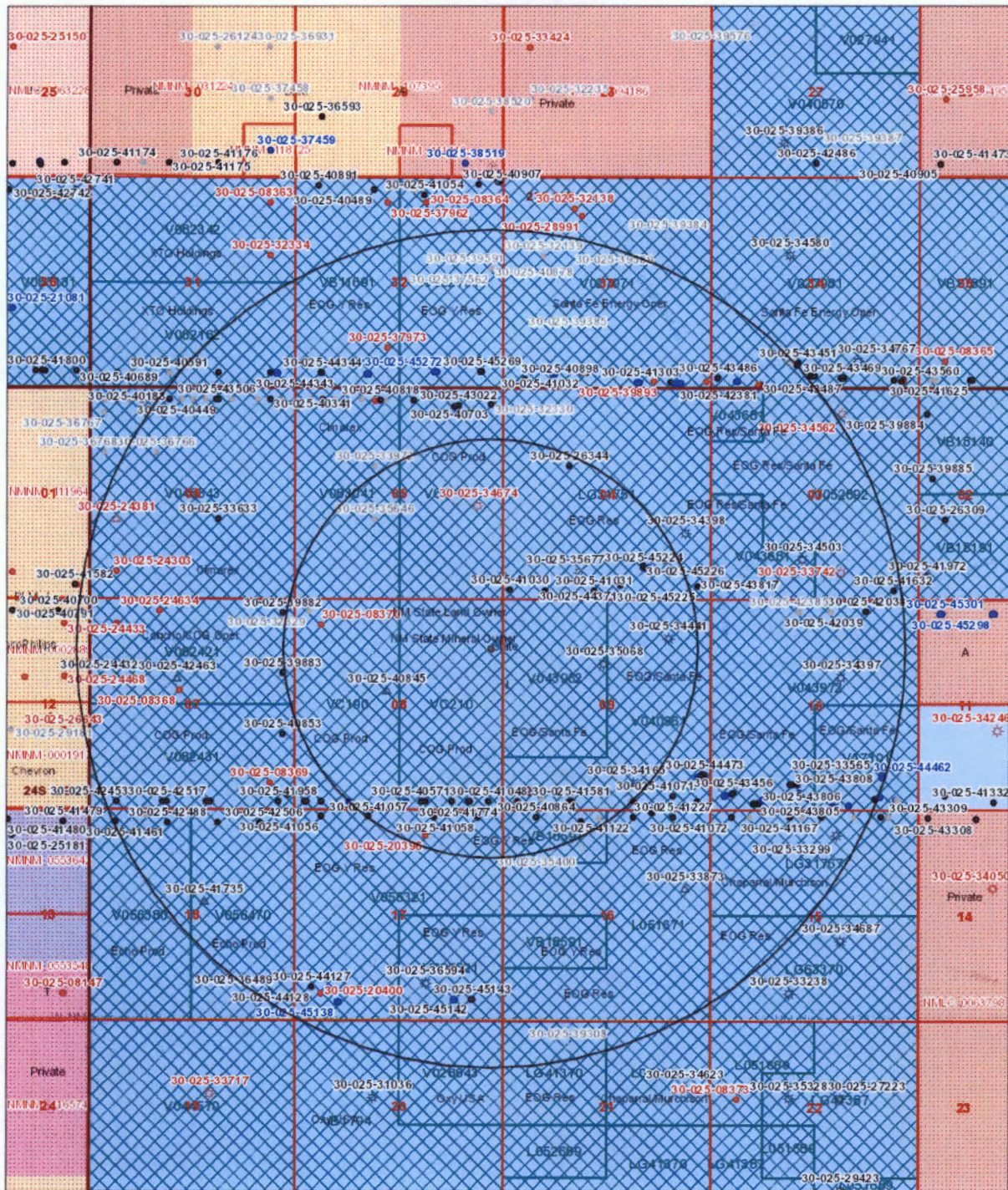
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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.

① N 89°41'44" E 2647.48' ② S 89°42'04" W 2640.12' ③ S 00°24'29" E 2641.24' ④ S 00°25'40" E 2640.17' ⑤ N 89°42'10" E 2643.90' ⑥ N 89°40'32" E 2643.90'		⑦ 1258' ⑧ 330' ⑨ 5280.58' ⑩ N 00°25'12" W	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. Signature: <i>Gary E Fisher</i> Date: 4-17-2019 Printed Name: Gary E Fisher E-mail Address: gfisher@popmidstream.com 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. 04-03-2019 Date of Survey Signature and Seal of Professional Surveyor: <i>Jeffrey L. Fansler</i> 10034 Certificate Number Job No.: LS19030269
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1 & 2 Mile AOR, Gulper State SWD #1



4/21/2019, 4:24:39 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
- Well Status**
 - 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.,
GBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,
Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),

Gulper State SWD #1 - Wells within 1 Mile Area of Review

API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OD Unit Letter	Surface Location	Bottomhole Location	TVC	MD	Formation
30-025-08370	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Stopped	08	T2AS	R33E	D	D-08-24S-33E	660 FNL, 660 FNL	DELAWARE	5210	321A
30-025-03396	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Vertical	Plugged, Stopped	17	T2AS	R33E	B	B-17-24S-33E	660 FNL, 1980 FNL	DELAWARE	5242	321A
30-025-26344	FLUHER OIL & CATTLE LLC	HNG #6 STATE	#001	Oil	Vertical	Active	04	T2AS	R33E	F	F-04-24S-33E	1580 FNL, 1650 FNL	MOREAU	16200	1520A
30-025-23219	ENRON 9 STATE COM	ENRON 9 STATE COM	#001	Gas	Vertical	Cancelled Apd	08	T2AS	R33E	D	D-08-24S-33E	333 FNL, 333 FNL	WOLF CAMP	9000	1400
30-025-34165	TAP ROCK OPERATING, LLC	ENRON 9 STATE COM	#002	Gas	Vertical	Active	09	T2AS	R33E	O	O-09-24S-33E	333 FNL, 1980 FNL	WOLF CAMP	13891	1891
30-025-34471	TAP ROCK OPERATING, LLC	ENRON 9 STATE COM	#002	Gas	Vertical	Active	09	T2AS	R33E	A	A-09-24S-33E	660 FNL, 1100 FNL	WOLF CAMP	13950	13950
30-025-34451	EGG RESOURCES INC	BRINNINSTEEL 4 STATE COM	#002	Gas	Vertical	Cancelled Apd	04	T2AS	R33E	I	I-04-24S-33E	210 FNL, 660 FNL	WOLF CAMP	14200	14200
30-025-34674	DEVON ENERGY PRODUCTION COMPANY, LP	CONCHO 5 STATE COM	#001	Gas	Vertical	Plugged, Stopped	05	T2AS	R33E	F	F-05-24S-33E	1050 FNL, 1890 FNL	WOLF CAMP	13900	13900
30-025-35068	TAP ROCK OPERATING, LLC	ENRON 9 STATE COM	#003	Gas	Vertical	Active	09	T2AS	R33E	K	K-09-24S-33E	1650 FNL, 2550 FNL	WOLF CAMP	13850	1850
30-025-35677	TAP ROCK OPERATING, LLC	BRINNINSTEEL 5 STATE COM	#002	Gas	Vertical	Cancelled Apd	04	T2AS	R33E	C	C-04-24S-33E	330 FNL, 1980 FNL	WOLF CAMP	13960	1360
30-025-40570	TAP ROCK OPERATING, LLC	EATA FAULTA STATE	#002	Gas	Vertical	Active	04	T2AS	R33E	N	N-04-24S-33E	660 FNL, 1980 FNL	WOLF CAMP	13800	1800
30-025-40571	COG PRODUCTION, LLC	BRINNINSTEEL 4 STATE	#002	Oil	Horizontal	Active	08	T2AS	R33E	O	O-08-24S-33E	337 FNL, 2076 FNL	BONE SPRING	15560	11127
30-025-40845	COG OPERATING LLC	EATA FAULTA STATE	#001	Oil	Vertical	Active	16	T2AS	R33E	F	F-16-24S-33E	210 FNL, 2210 FNL	DELAWARE	7690	
30-025-40864	EGG RESOURCES INC	EATA FAULTA 8 STATE SWD	#001	Oil	Horizontal	Active	16	T2AS	R33E	D	D-16-24S-33E	200 FNL, 825 FNL	BONE SPRING	15760	11189
30-025-40975	TAP ROCK OPERATING, LLC	EATA FT 8 STATE COM	#001H	Oil	Horizontal	Active	09	T2AS	R33E	M	M-09-24S-33E	200 FNL, 350 FNL	BONE SPRING	15570	11163
30-025-40976	TAP ROCK OPERATING, LLC	MCGI 9 STATE COM	#001H	Oil	Horizontal	Active	09	T2AS	R33E	C	C-09-24S-33E	200 FNL, 1980 FNL	BONE SPRING	15570	11203
30-025-41030	TAP ROCK OPERATING, LLC	BRINNINSTEEL 4 STATE	#003H	Oil	Horizontal	Active	04	T2AS	R33E	M	M-04-24S-33E	200 FNL, 150 FNL	BONE SPRING	15570	11210
30-025-41031	TAP ROCK OPERATING, LLC	BRINNINSTEEL 4 STATE	#003H	Oil	Horizontal	Active	04	T2AS	R33E	N	N-04-24S-33E	200 FNL, 2290 FNL	BONE SPRING	15570	11223
30-025-41048	COG PRODUCTION, LLC	EATA FAULTA STATE	#004H	Oil	Horizontal	Active	17	T2AS	R33E	P	P-08-24S-33E	190 FNL, 380 FNL	BONE SPRING	15580	11174
30-025-41055	EGG RESOURCES INC	ATOKA BANK RDJ STATE COM	#004H	Oil	Horizontal	Active	17	T2AS	R33E	C	C-17-24S-33E	118 FNL, 1759 FNL	BONE SPRING	15242	11159
30-025-41057	EGG RESOURCES INC	HEARTHURD BDX STATE COM	#004H	Oil	Horizontal	Active	17	T2AS	R33E	A	A-17-24S-33E	200 FNL, 1860 FNL	BONE SPRING	15824	10862
30-025-41058	EGG RESOURCES INC	ATOKA BANK RDJ STATE COM	#003H	Oil	Horizontal	Active	17	T2AS	R33E	C	C-17-24S-33E	200 FNL, 660 FNL	BONE SPRING	15276	11147
30-025-41070	TAP ROCK OPERATING, LLC	MCGI 9 STATE COM	#003H	Oil	Horizontal	Active	09	T2AS	R33E	N	N-09-24S-33E	200 FNL, 1880 FNL	BONE SPRING	15810	11192
30-025-41581	TAP ROCK OPERATING, LLC	MCGI 9 STATE COM	#005H	Oil	Horizontal	Active	09	T2AS	R33E	N	N-09-24S-33E	200 FNL, 1725 FNL	BONE SPRING	15152	10397
30-025-41631	EGG RESOURCES INC	EATA FT 8 STATE COM	#006H	Oil	Horizontal	Active	16	T2AS	R33E	C	C-16-24S-33E	320 FNL, 1980 FNL	BONE SPRING	15977	11142
30-025-41774	COG PRODUCTION, LLC	EATA FAULTA STATE	#006H	Oil	Horizontal	Active	16	T2AS	R33E	O	O-16-24S-33E	200 FNL, 2278 FNL	BONE SPRING	15977	11142
30-025-41784	Murchison Oil and Gas, LLC	MCGI 9 STATE COM	#006C	Oil	Horizontal	Cancelled Apd	09	T2AS	R33E	M	M-09-24S-33E	201 FNL, 305 FNL	BONE SPRING	15300	N/A
30-025-41785	Murchison Oil and Gas, LLC	MCGI 9 STATE COM	#007C	Oil	Horizontal	Cancelled Apd	09	T2AS	R33E	M	M-09-24S-33E	201 FNL, 2024 FNL	BONE SPRING	15300	N/A
30-025-41786	Murchison Oil and Gas, LLC	MCGI 9 STATE COM	#008C	Oil	Horizontal	Cancelled Apd	09	T2AS	R33E	M	M-09-24S-33E	251 FNL, 970 FNL	BONE SPRING	15700	N/A
30-025-41788	Murchison Oil and Gas, LLC	JACKSON UNIT	#323H	Oil	Horizontal	Cancelled Apd	16	T2AS	R33E	C	C-16-24S-33E	230 FNL, 2410 FNL	BONE SPRING	15200	N/A
30-025-41957	TAP ROCK OPERATING, LLC	BRINNINSTEEL 4 STATE	#001H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 900 FNL	BONE SPRING	15200	N/A
30-025-41959	COG PRODUCTION, LLC	EATA FAULTA STATE	#005H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15248	10907
30-025-41998	COG PRODUCTION, LLC	EATA FAULTA STATE	#007H	Oil	Horizontal	New	08	T2AS	R33E	N	N-08-24S-33E	190 FNL, 1380 FNL	BONE SPRING	15480	N/A
30-025-41999	COG PRODUCTION, LLC	EATA FAULTA STATE	#008H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 900 FNL	BONE SPRING	15480	N/A
30-025-42274	COG PRODUCTION, LLC	EATA FAULTA STATE	#001H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 900 FNL	BONE SPRING	15200	N/A
30-025-42275	COG PRODUCTION, LLC	EATA FAULTA STATE	#002H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42756	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42755	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42757	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42758	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42759	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42760	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42761	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42762	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42763	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42764	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42765	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42766	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42767	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42768	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42769	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42770	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42771	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42772	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42773	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42774	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42775	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42776	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42777	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42778	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42779	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42780	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42781	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42782	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42783	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42784	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42785	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42786	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42787	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42788	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42789	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42790	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42791	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42792	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42793	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42794	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42795	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42796	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42797	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P-08-24S-33E	200 FNL, 850 FNL	BONE SPRING	15200	N/A
30-025-42798	EGG RESOURCES INC	ARES 4 STATE	#620H	Oil	Horizontal	Active	08	T2AS	R33E	P	P				



Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Gulper State SWD #1
Sec. 8, Twp. 24S, Rge. 33E
1258' FNL, 330' FEL
Lea County, NM

Permian Oilfield Partners, LLC has mailed notifications to affected persons as per the following list:

Gulper 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
Fulfer Oil & Cattle LLC	P.O. Box 1224	Jal, NM 88252	USPS	9414811899561828992620	4/27/2019
EOG Y Resources, Inc.	104 S 4th St	Artesia, NM 88210	USPS	9414811899561828992651	4/27/2019
Tap Rock Operating, LLC	602 Park Point Drive Suite 200	Golden, CO 80401	USPS	9414811899561828992156	4/27/2019
EOG Resources Inc	P.O. Box 2267	Midland, TX 79702	USPS	9414811899561828992972	4/27/2019
Devon Energy Production Company, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899561828992941	4/27/2019
Concho Resources, Inc.	550 W Texas Ave, Suite 1300	Midland, TX 79701	USPS	9414811899561828992996	4/27/2019
COG Production, LLC	P.O. Box 2064	Midland, TX 79702	USPS	9414811899561828992736	4/27/2019
COG Operating LLC	600 W Illinois Ave	Midland, TX 79701	USPS	9414811899561828992781	4/27/2019
Murchison Oil And Gas, LLC	7250 Dallas Parkway Suite 1400	Plano, TX 75024	USPS	9414811899561828992699	4/27/2019
Bureau Of Land Management	620 E Greene St	Carlsbad, NM 88220	USPS	9414811899561828992767	4/27/2019
New Mexico State Land Office	2827 N Dal Paso St Suite 117	Hobbs, NM 88240	USPS	9414811899561828992637	4/27/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561828992682	4/27/2019
Cimarex Energy Co.	600 N. Marienfeld Street	Midland, TX 79701	USPS	9414811899561828992798	4/27/2019
Santa Fe Energy Resources	1616 South Voss Road	Houston, Texas 77057	USPS	9414811899561828992675	4/27/2019
Concho Oil & Gas LLC	550 W Texas Ave, Suite 100	Midland, TX 79701	USPS	9414811899561828992958	4/27/2019

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

Date: 4-27-2019

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1828 9926 20

ARTICLE ADDRESSED TO:

Fulfer Oil & Cattle LLC
PO Box 1224
Jal NM 88252-1224

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9921 56

ARTICLE ADDRESSED TO:

Tap Rock Operating, LLC
602 Park Point Drive, Suite 200
Golden CO 80401-9359

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Total Postage & Fees:

\$3.65
3.50
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ARTICLE NUMBER: 9414 8118 9956 1828 9929 41

ARTICLE ADDRESSED TO:

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

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Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9926 51

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
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Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9929 72

ARTICLE ADDRESSED TO:

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

FEES

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Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9929 06

ARTICLE ADDRESSED TO:

Concho Resources, Inc.
550 W. Texas Ave, Suite 1300
Midland TX 79701-4257

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9927 36

ARTICLE ADDRESSED TO:

COG Production, LLC
PO Box 2064
Midland TX 79702-2064

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9926 99

ARTICLE ADDRESSED TO:

Murchison Oil & Gas, LLC
7250 Dallas Parkway, Suite 1400
Plano TX 75024-5002

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9926 82

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9927 81

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9927 67

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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ARTICLE NUMBER: 9414 8118 9956 1828 9926 37

ARTICLE ADDRESSED TO:

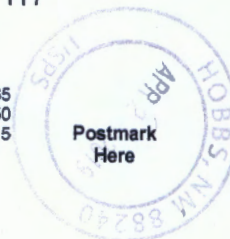
New Mexico State Land Office
2827 N Dal Paso St. Suite 117
Hobbs NM 88240-2062

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.65
3.50
7.15

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

ARTICLE NUMBER: 9414 8118 9956 1828 9927 98

ARTICLE ADDRESSED TO:

Cimarex Energy Co.
600 N. Marienfeld St., Suite 600
Midland TX 79701-4405

FEES

Postage Per Piece	\$3.65
Certified Fee	3.50
Total Postage & Fees:	7.15

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1616 South Voss Road
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ARTICLE NUMBER: 9414 8118 9956 1828 9929 58

ARTICLE ADDRESSED TO:

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

FEES

Postage Per Piece	\$3.65
Certified Fee	3.50
Total Postage & Fees:	7.15

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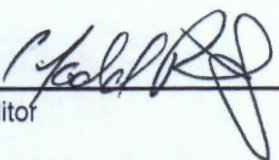


Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

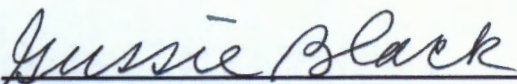
I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 26, 2019
and ending with the issue dated
April 26, 2019.



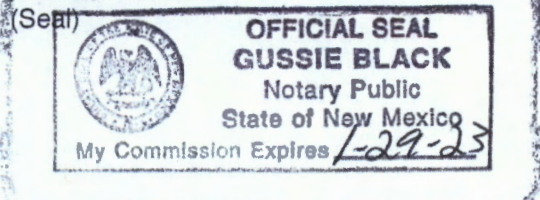
Editor

Sworn and subscribed to before me this
26th day of April 2019.



Business Manager

My commission expires
January 29, 2023



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 26, 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 Gulper State SWD #1, and is located 1258' FNL & 330' FEL, Unit Letter A, Section 8, Township 24 South, Range 33 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 16,557 feet to 18,283 feet. The maximum expected injection rate is 50,000 BWPD at a maximum surface injection pressure of 3,311 psi.

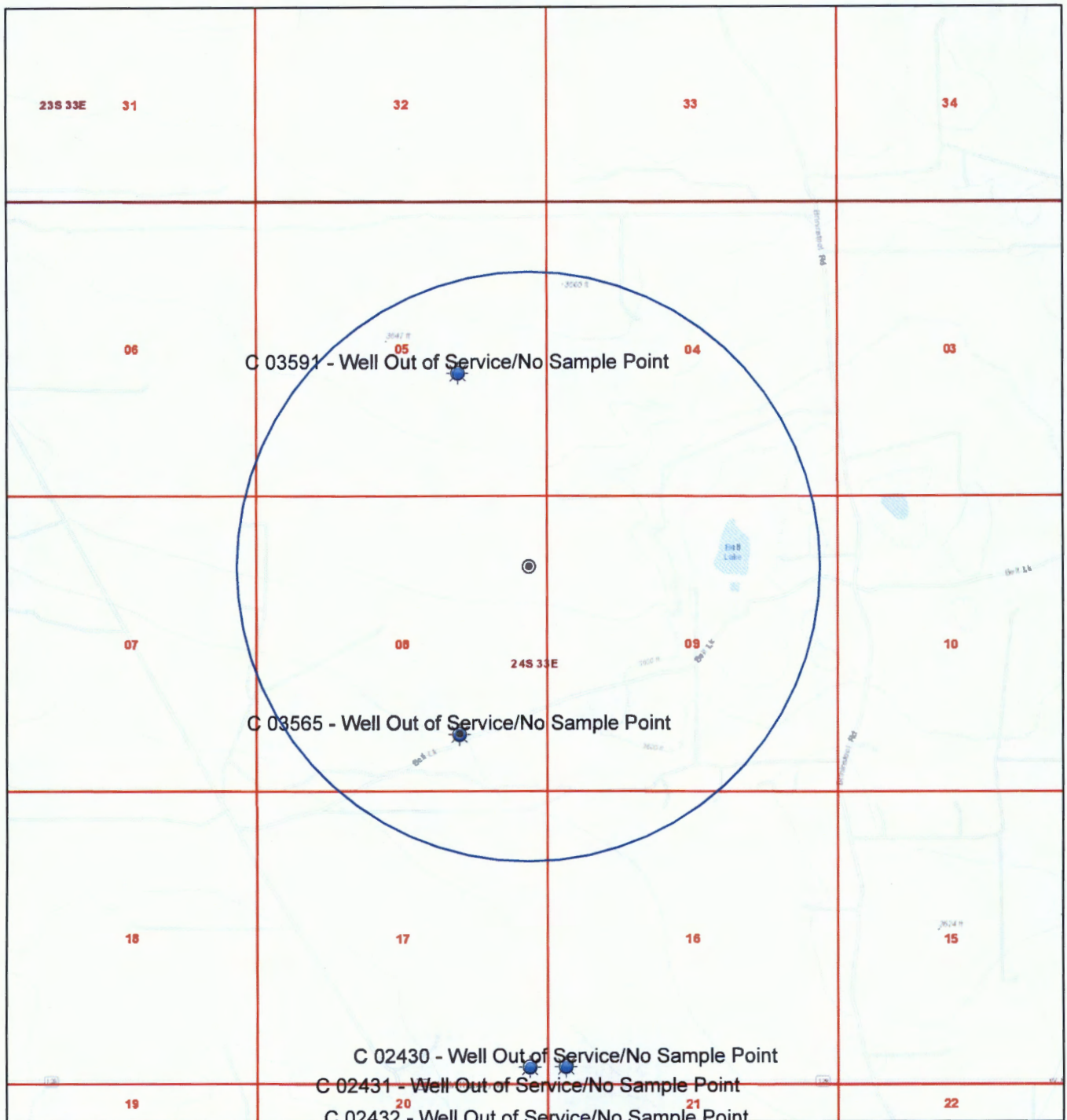
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#34065

67115647

00227433

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

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



4/22/2019, 5:07:00 PM

Override 1

Points

Override 1

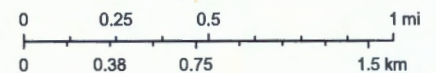
Override 2

PLSS First Division

PLSS Second Division

PLSS Townships

1:25,000



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



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 03565

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status:

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: INTERCONTINENTAL POTASH CORP

Contact: TOM COPE

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
 get images	509298	EXPL 2012-08-07	PMT	APR	C 03565	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)		Other Location Desc
			64	16	4	X	Y	
C 03565 POD1			1	4	06 24S 33E	630871	3568316	 ICP-083
C 03565 POD2			3	4	07 24S 33E	631156	3566515	 ICP-084
C 03565 POD3			3	4	08 24S 33E	632763	3566546	 ICP-085
C 03565 POD4			4	1	09 24S 33E	633672	3567057	 ICP-086
C 03565 POD5			3	4	09 24S 33E	634135	3566496	 ICP-87
C 03565 POD6			3	3	10 24S 33E	635022	3566373	 ICP-089
C 03565 POD7			2	2	06 24S 33E	631361	3569250	 ICP-090
C 03565 POD8			4	1	15 24S 33E	635485	3565610	 ICP-092
C 03565 POD9			4	4	15 24S 33E	636430	3565005	 ICP-093

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C	03565 POD3	3	4	08	24S 33E	632763	3566546

Driller License:	331	Driller Company:	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.
Driller Name:	STEWART, PHILLIP D. (LD)		

Drill Start Date:	09/27/2012	Drill Finish Date:	10/21/2012	Plug Date:	
Log File Date:	12/11/2012	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	8.90	Depth Well:		Depth Water:	1533 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	20	Other/Unknown
	20	55	Sandstone/Gravel/Conglomerate
	55	1227	Shale/Mudstone/Siltstone
	1227	1262	Other/Unknown
	1262	1295	Other/Unknown
	1295	1310	Other/Unknown
	1310	1330	Other/Unknown
	1330	1375	Other/Unknown
	1479	1489	Other/Unknown
	1489	1533	Other/Unknown

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.



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 03591

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status:

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: INTERCONTINENTAL POTASH CORP

Contact: TOM COPE

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
517368	EXPL	2012-11-21	PMT	LOG	C-3591 BOREHOLES	T		0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)		Other Location Desc
			64	16	4	X	Y	
C 03591 POD1	Artesian	2	1	4	05	24S	33E 632731 3568518	ICP-088



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Gulper State SWD #1
Sec. 8, Twp. 24S, Rge. 33E
1258' FNL, 330' 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 stamp.

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 4/24/2019

Plugging Risk Assessment
Permian Oilfield Partners, LLC.
Gulper State SWD #1
SL: 1258' FNL & 330' FEL
Sec 8, T24S, R33E
Lea County, New Mexico

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.

Gulper State SWD #1

1258' FNL, 330' FEL

Sec. 8, T24S, R33E, Lea Co. NM

Lat 32.2359733° N, Lon 103.5868618° W

GL 3624', RKB 3654'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 & 106.5# J-55 STC Casing
Depth Top: Surface
Depth Btm: 1600'
Cement: 1110 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: 5174'
Cement: 1718 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: 12272'
Cement: 2129 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 5274'

Intermediate #3 - (Liner)

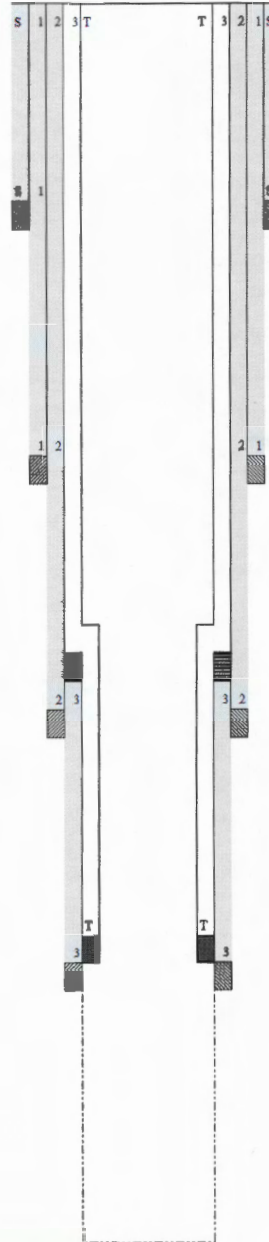
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 12072'
Depth Btm: 16557'
Cement: 234 sks - Lite Class C (60:40:0) + Additives
Cement Top: 12072' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18283'
Inj. Interval: 16557' - 18283' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 16512'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 12072'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 16522'
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 9/16" to 7 1/4" Inclusive

Maximum Catch Size (Spiral)		6 9/16"	6 3/4"	7"	7 1/4"
Maximum Catch Size (Basket)		5 7/8"	6"	6 9/16"	6 3/4"
Overshot O.D.		8 3/4"	7 7/8"	8 3/4"	8 9/16"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	0217	C-5354
(Dressed Spiral Parts)	Weight	290	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

		4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"	5 1/8"	5 1/2"
Maximum Catch Size (Spiral)		4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"	5 1/8"	5 1/2"
Maximum Catch Size (Basket)		3 3/4"	4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"	4 3/4"
Overshot O.D.		5 5/8"	5 7/8"	5 7/8"	5 7/8"	5 7/8"	5 7/8"	5 7/8"
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	S.H.
Complete Assembly	Part No.	5898	5898	C-5168	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	8976	A-5172	B-4826	8826
Body	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8817
Packer	Part No.	109	1140	B-2199	8114	L-5850	L-4505	8818
Spiral Grapple	Part No.	105	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.	105	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.	109-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.
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
Gulper State SWD #1
Sec. 8, Twp. 24S, Rge. 33E
1258' FNL, 330' FEL
Lea County, NM

April 16, 2019

STATEMENT REGARDING SEISMICITY

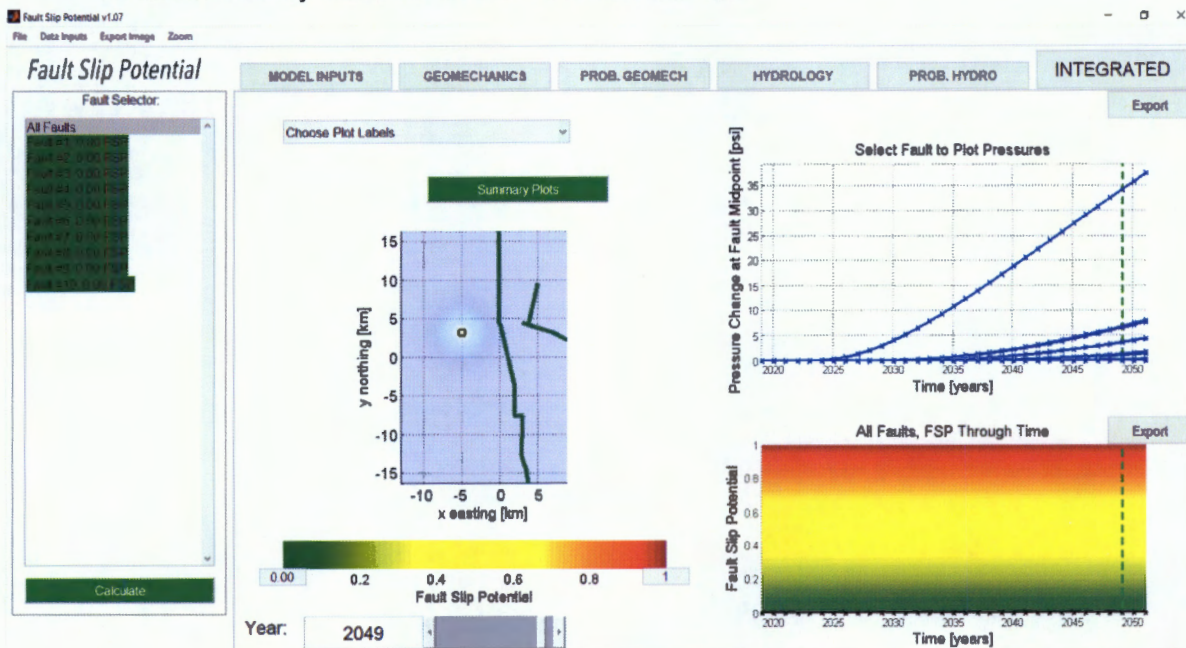
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area (< 30 miles) of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 2.78 miles away @ 40.74 deg heading
2. M3.3, 2001-06-02, 26.98 miles away @ 75.20 deg heading
3. M4.6, 1992-01-02, 29.26 miles away @ 76.13 deg heading
4. M3.1, 2012-03-18, 18.16 miles away @ 280.08 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. Basement PreCambrian faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
4. Even though we do not propose to inject into the PreCambrian, Permian Oilfield Partners ran modeling to check for fault slip assuming the improbable occurrence of a total downhole well failure that would allow 100% of injected fluids to enter the PreCambrian. Software as discussed in #3 from the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for probabilistic estimation of fault slip potential resulting from fluid injection", was used to calculate the probability of the PreCambrian fault being stressed so as to create an induced seismic event, with the following assumptions:
 - a. Full proposed capacity of 50,000 BBL/day for 30 years

- b. 12.5 mD average permeability, 3% average porosity, .75 psi/ft frac gradient, .45 psi/ft hydrostatic gradient
 - c. $A\text{-}\phi=0.60$ & Max Horizontal Stress direction 75 deg NW, as per Snee, Zoback paper noted above.
5. The probability of an induced seismic event in the PreCambrian is calculated to be 0% after 30 years as per the FSP results screenshot below, with a calculated 34 psi pressure change at the section of the fault nearest the wellbore.
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 3.47 miles away from the nearest active or permitted Devonian disposal well.

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