## Protested SWD Application

By Apache; received 9/7/2023

From: Gebremichael, Million, EMNRD

To: Nate Alleman

Cc: Goetze, Phillip, EMNRD; Harris, Anthony, EMNRD; Tremaine, Jesse, EMNRD; Gaines, Dean

Subject: Notification of Protest for application to Inject: O"Brien SWD State #1, Jameis SWD State #1, Cannon SWD State

#1, Juice SWD State #1, Toretta SWD State #1, Burrrow State SWD #1

**Date:** Wednesday, September 27, 2023 9:44:00 AM

Attachments: <u>image001.png</u>

Mr. Alleman,

The OCD was notified by Apache Corporation that it is protesting the following administrative applications of Pilot Water Solutions SWD LLC (Pilot Water Solutions) for produced water disposal in Lea County, NM:

- 1. O'Brien SWD State #1, Located in 384' FSL & 407' FWL in Section 5 T19S R37E
- 2. Jameis SWD State #1, Located in 1,429' FSL & 458' FEL in Section 7 T19S R37E
- 3. Cannon SWD State #1, Located in 2,363' FNL & 1,271' FEL in Section 9 T19S R37E
- 4. Juice SWD State #1, Located in 497' FNL & 771' FWL in Section 7 T19S R37E
- 5. Toretta SWD State #1, Located 545' FNL & 2,510' FEL in Section 17 T19S R37E
- 6. Burrrow State SWD #1, Located in 458' FNL & 1,612' FWL in Section 5 T19S R37E

Apache is identified as an affected person for the referenced applications. For these applications to proceed, Pilot Water Solutions has two options; either resolve the matter with the protesting party or to go to a hearing before the Division. If the protest is withdrawn, then the applications could be processed administratively. Meanwhile, OCD will retain your applications until a resolution is reached on the status of the submittals. If you have any questions, please don't hesitate to reach out to UIC group.

Thanks,

### Million Gebremichael

Petroleum Specialist- A
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Cell: 505-4791137





September 7, 2023

Energy, Minerals & Natural Resources Department Oil Conservation Division Attention: Phillip Goetze, P.G. 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: C108-Application for Authorization to Inject:

Pilot Water Solutions SWD LLC
O'Brien SWD State #1
384' FSL & 407' FWL in Section 5 T19S R37E

Pilot Water Solutions SWD LLC
Jameis SWD State #1
1,429' FSL & 458' FEL in Section 7 T19S R37E
Pilot Water Solutions SWD LLC
Cannon SWD State #1
2,363' FNL & 1,271' FEL in Section 9 T19S R37E

All applications are in Lea County New Mexico.

Engineering Unit,

Apache Corporation hereby gives notice of its intent to protest the referenced 6 applications. Should a formal hearing be called Apache Corporation will appear and present any relevant evidence and testimony in support of our position. By copy of this letter the applicant is being notified of our intent.

Thank you for your assistance, and if you need additional information, please contact me via email at: <a href="mailto:dean.gaines@apachecorp.com">dean.gaines@apachecorp.com</a> or direct at: (432) 818-1803.

Pilot Water Solutions SWD LLC Juice SWD State #1

497' FNL & 771' FWL in Section 7 T19S R37E

Pilot Water Solutions SWD LLC Toretta SWD State #1 545' FNL & 2,510' FEL in Section 17 T19S R37E

Pilot Water Solutions SWD LLC Burrrow State SWD #1 458' FNL & 1,612' FWL in Section 5 T19S R37E

Sincerely,

Dean Gaines

EH&S Sr. Advisor-Regulatory

CC: nate.alleman@aceadvisors.com



August 30, 2023

Subject: Pilot Water Solutions SWD LLC

Notice of Application for Authorization to Inject

O'Brien SWD State #1

Dear Sir or Madam,

Pilot Water Solutions SWD LLC (Pilot) is applying for administrative approval of an Application for Authorization to Inject (Form C-108) for their proposed O'Brien SWD State #1. Per New Mexico Oil Conservation Division (NMOCD) requirements, you are being notified of the application as an Affected Person and are being provided with a copy of the application for review.

Applicant Name:

Pilot Water Solutions SWD LLC

Operator Address:

20 Greenway Plaza, Suite 200, Houston, TX 77046

Well Name:

O'Brien SWD State #1

Location:

384' FSL & 407' FWL in Section 5 T19S R37E in Lea County, NM

Injection Formation: San Andres

Injection Type:

Commercial Disposal

Objections or requests for hearing must be filed with NMOCD within fifteen (15) days of receipt. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Questions regarding this application or the included materials can be directed to Nate Alleman (Pilot Regulatory Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

Nate Alleman

Chief Regulatory Advisor

Ace Energy Advisors

### Well Data

Operator - Pilot Water Solutions SWD LLC Lease/Well Name & Number - O'Brien SWD State #1 Legal Location - 384' FSL & 407' FWL - Unit M - Section 5 T19S R37E - Lea County

### Casing Data

Casing String	Hole Size (in)	Casing Size	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
	RCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	13-3/8	1.458	2.285.3	0	Circulation
Surface	17-1/2			1.658.2	n	Circulation
Production	12-1/4	9-5/8	5,555	1,050.2	L	

Tubing: 5-1/2" fiberglass-coated tubing set at 4,312'

Packer: Weatherford AS1X Stainless 9-5/8" X 5-1/2" set at 4,312'

### Geology Data

Injection Formation Name - San Andres	2023
Pool Name - SWD; San Andres	
Pool Code - 96121	SEP
Injection Interval - Cased-hole injection between 4,312' - 5,555'	ړن ان
Drilling Purpose - New drill for injection	
Other Perforated Intervals: No other perforated intervals exist.	ب
Overlying Oil and Gas Zones:	<u>ක</u>

- Yates (2,707')
- 7 Rivers (2,969')
- Queen (3,495')
- Grayburg (3,774')

### Underlying Oil and Gas Zones - None

Geologic Description of Injection Interval - The proposed injection interval is located in the San Andres formation between the depths of 4,312 and 5,555 feet. The San Andres formation consists of an interbedded carbonate sequence composed of limestone and dolomite. These cycles tend to be mappable within the San Andres and are differentiated by sections of either very high or very low porosity and permeability development. Upper and lower confinement will be provided by tight carbonate facies present within San Andres that occur above and below the porous injection interval. The upper confining interval occurs at the top of the San Andres formation, directly underlying the Grayburg formation, and ranges from 125' - 150' net thickness based on a review of nearby open-hole geophysical logs. The lower confining interval occurs at the bottom of the San Andres formation, directly overlying the Glorieta formation, and ranges from 150' - 200' net thickness based on a review of nearby open-hole geophysical

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,433'. Water wells in the area are drilled to a depth of approximately 100' - 200'.

### Operational Data

Proposed Maximum Injection Rate: 25,000 BWPD Proposed Average Injection Rate: 15,000 BWPD

Proposed Maximum injection Pressure: 862 psi (surface) Proposed Average Injection Pressure: 500-600 psi (surface T. Rustler (base of lowermost USDW)

1,4331

### **Pilot Water Solutions SWD LLC**

O'Brien SWD State #1 Wellbore Diagram

### Surface Casing

13-3/8 Casing Size (in): Casing Weight (lb/ft): 68

L-80 BTC Casing Grade: 1,458 Casing Depth (ft): 1,468 Hole Depth (ft): 17-1/2 Hole Size (in):

0 (circulation) Top of Cement (ft): 2,285.3

Sks Cement:

### **Production Casing**

9-5/8 Casing Size (in): Casing Weight (lb/ft): 53.5 L-80 BTC Casing Grade: 5.555 Casing Depth (ft): 5,565 Hole Depth (ft): 12-1/4 Hole Size (in): Top of Cement (ft): 0 (circulation)

**Sks Cement:** 

1,658.2

### <u>Tubing</u>

Tubing Size (in): 5-1/2 Tubing Weight (lb/ft): 14 Tubing Grade: J-55 BTC Tubing Depth (ft): 4,312

Packer Type: Weatherford AS1X Stainless

Packer Depth (ft): 4,312

### Injection Interval

Formation: San Andres

Top (ft): 4,312 Bottom (ft): 5,555

Cased or Open-Hole: Cased

### 4,312

T. San Andres

T. Grayburg

3,774'

### Injection Interval:

- San Andres Formation
- 4,312' 5,555'

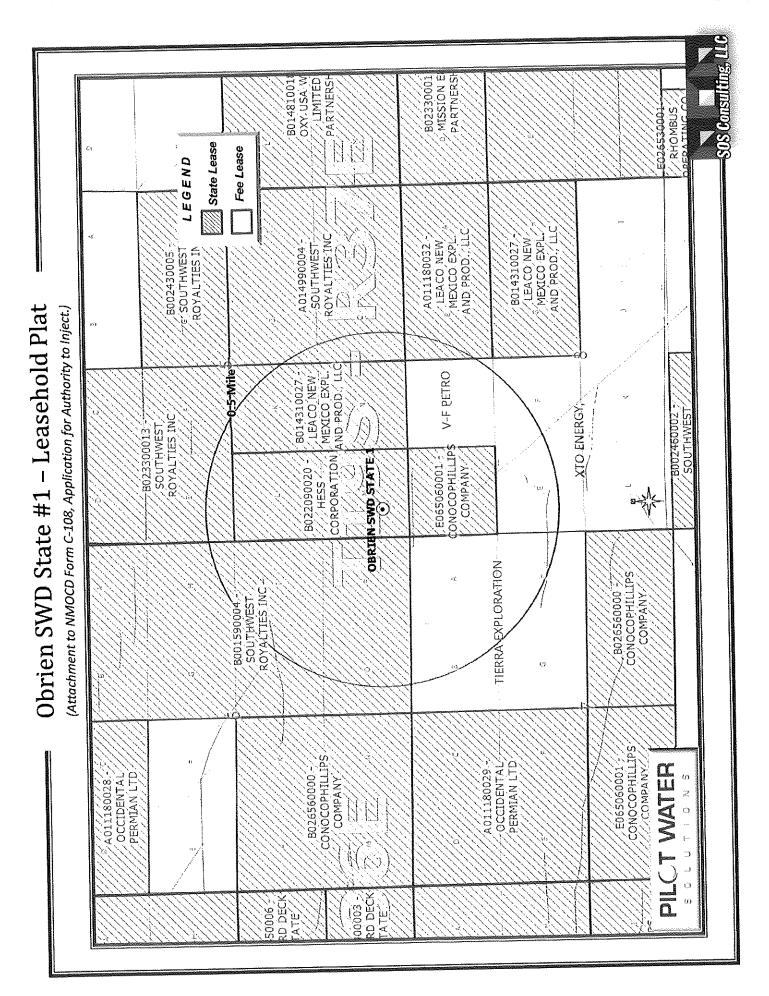
B. San Andres

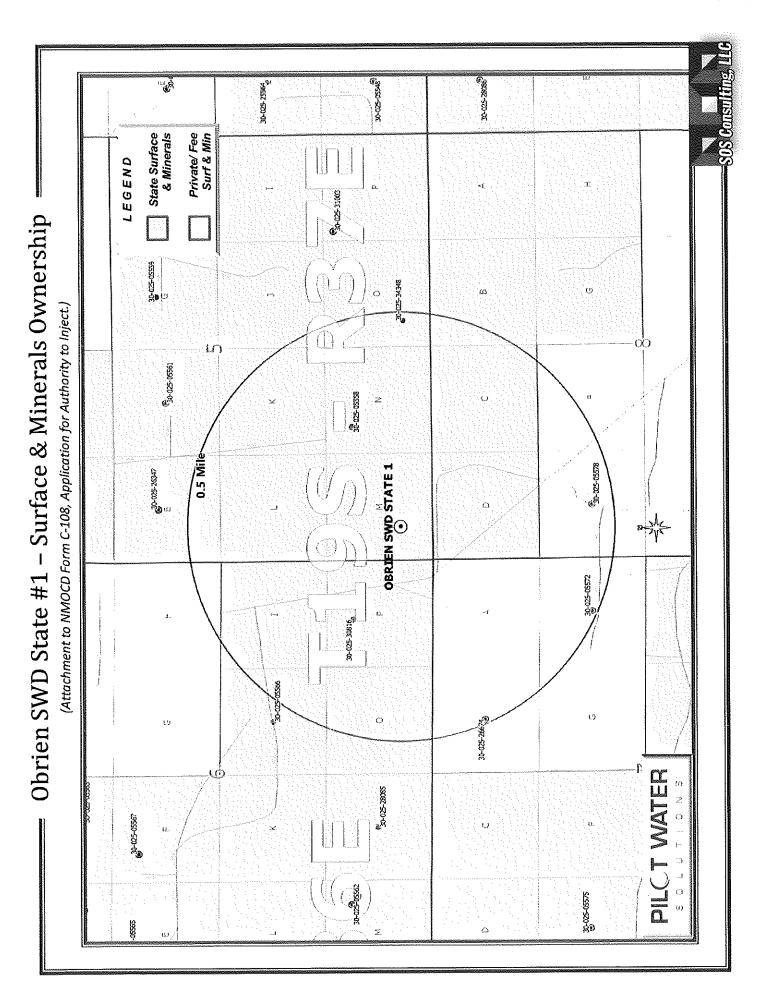
5,555'

Total Depth: 5,565' PBTD: 5,555'

Note: Listed depths and cement volumes are approximates based on available information.

NOT TO SCALE







September 1, 2023

Subject: Pilot Water Solutions SWD LLC

Notice of Application for Authorization to Inject

Juice SWD State #1

Dear Sir or Madam.

Pilot Water Solutions SWD LLC (Pilot) is applying for administrative approval of an Application for Authorization to Inject (Form C-108) for their proposed Juice SWD State #1. Per New Mexico Oil Conservation Division (NMOCD) requirements, you are being notified of the application as an Affected Person and are being provided with a copy of the application for review.

**Applicant Name:** 

Pilot Water Solutions SWD LLC

Operator Address:

20 Greenway Plaza, Suite 200, Houston, TX 77046

Well Name:

Juice SWD State #1

Legal Location:

497' FNL & 771' FWL in Section 7 T19S R37E, in Lea County, NM

Injection Formation: San Andres

Injection Type:

Commercial Disposal

Objections or requests for hearing must be filed with NMOCD within fifteen (15) days of receipt. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Questions regarding this application or the included materials can be directed to Nate Alleman (Pilot Regulatory Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

Nate Alleman

Chief Regulatory Advisor

Ace Energy Advisors

### Well Data

Operator - Pilot Water Solutions SWD LLC Lease/Well Name & Number - Juice SWD State #1 Legal Location - 497' FNL & 771' FWL - Unit D - Section 7 T19S R37E - Lea County

### Casing Data

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	50 V 65 P 50 C 21 C 25 P 50 P 60 C 20 V 60 C 20 C	Method Determined
Surface	17-1/2	13-3/8	1,448	2,269.6	0	Circulation
Production	12-1/4	9-5/8	5,510	1,644.7	0	Circulation

Tubing: 5-1/2" fiberglass-coated tubing set at 4,408'

Packer: Weatherford AS1X Stainless 9-5/8" X 5-1/2" set 4,408'

### **Geology Data**

Injection Formation Name - San Andres

Pool Name - SWD; San Andres

Pool Code - 96121 Injection Interval - Cased-hole injection between 4,408' - 5,510' **Drilling Purpose - New drill for injection** Other Perforated Intervals: No other perforated intervals exist.

Overlying Oil and Gas Zones:

- Yates (2,729')
- 7 Rivers (3,006')
- Queen (3,586')
- Grayburg (3,969')

### Underlying Oil and Gas Zones - None

Geologic Description of Injection Interval - The proposed injection interval is located in the San Andres formation between the depths of 4,408 and 5,510 feet. The San Andres formation consists of an interbedded carbonate sequence composed of limestone and dolomite. These cycles tend to be mappable within the San Andres and are differentiated by sections of either very high or very low porosity and permeability development. Upper and lower confinement will be provided by tight carbonate facies present within San Andres that occur above and below the porous injection interval. The upper confining interval occurs at the top of the San Andres formation, directly underlying the Grayburg formation, and ranges from 125' - 150' net thickness based on a review of nearby open-hole geophysical logs. The lower confining interval occurs at the bottom of the San Andres formation, directly overlying the Glorieta formation, and ranges from 150' - 200' net thickness based on a review of nearby open-hole geophysical logs.

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,423'. Water wells in the area are drilled to a depth of approximately 95' - 143'.

### Operational Data

Proposed Maximum Injection Rate: 25,000 BWPD Proposed Average Injection Rate: 15,000 BWPD

Proposed Maximum Injection Pressure: 882 psi (surface) Proposed Average Injection Pressure: 500-600 psi (surface

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T. Rustler (base of lowermost USDW)

### **Pilot Water Solutions SWD LLC**

Juice SWD State #1 **Wellbore Diagram** 

### Surface Casing

13-3/8 Casing Size (in):

Casing Weight (lb/ft): 68 L-80 BTC

Casing Grade: Casing Depth (ft):

1,448 Hole Depth (ft): 1,458 Hole Size (in): 17-1/2

Top of Cement (ft):

0 (circulation)

**Sks Cement:** 

2,269.6

### **Production Casing**

Casing Size (in): Casing Weight (lb/ft): 53.5

9-5/8

Casing Grade: Casing Depth (ft):

L-80 BTC 5,510

Hole Depth (ft): Hole Size (in):

5,520 12-1/4

Top of Cement (ft):

0 (circulation)

**Sks Cement:** 

1,644.7

### **Tubing**

Tubing Size (in): 5-1/2 Tubing Weight (lb/ft): 14 Tubing Grade: J-55 BTC Tubing Depth (ft): 4,408

Packer Type: Weatherford AS1X Stainless

Packer Depth (ft): 4,408

### Injection Interval

Formation: San Andres

Top (ft): 4,408 Bottom (ft): 5,510

Cased or Open-Hole: Cased

### 3.969'

T. Grayburg

1,423'

### T. San Andres

4,408'

### Injection Interval:

San Andres Formation

· 4,408' - 5,510'

B. San Andres

5,510'

Total Depth: 5,520' PBTD: 5,510'

Note: Listed depths and cement volumes are approximates based on available information.

NOT TO SCALE

### Juice SWD State #1 – Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)

ROYALTIES INCOM MEXICO /LEACO AND PRO 801431 ROYALTIES MI SOUTHWEST B002460002 SOUTHWEST B023300013 PHOUSTON RANCH # SUPPOSSET AL 30-025-05577 CORPORATION ONOCOPHILIT XTO ENERGY, OTHERS State Lease Fee Lease COMPANY 8022090020 E06506000 EGEND VEESS AMERADAS-0550 CONOCOPHILIPS ROYALTIES INC SOUTHWEST B001590004 -\$\$¢\$≠\$₹ ∭IERRA EXPL COMPANY Sport (1573) B026560000 0.5 Mile CONOCOPHILLIPS 30-025-65567 CONOCOPHILLIPS CONOCOPHILLIPS EVF PETROLEUMF OCCIDENTAL PERMIAN L'TD PERMIANLID OCCIDENTAL 8026560000 A011180029 E065060001 COMPANY COMPANY DICE SWD STATE ENDURO 39-05-28175 32-025-05565 MILLARD DECK MILLA RD DEC B010400003 8015850006 **以** BY TE CONOCOPHILLIPS ERGY B102330000 COMPANY 30-025-25006 COCCIDENTAL JOUGS 305 VIERSEN OIL & ROYALTIES IN SOUTHWEST B101640002 B002430005 GAS CO PERMIAN LTD AND PROD., LLC 30-025-34482 530-025-25039 MEXICO EXPL 8015850008 n VIERSEN OIL & 2 B102330001 C ROYALTIES INC VIERSEN OIL & SOUTHWEST 8002430005 BI01640003 O

Juice SWD State Well No.1 - Area of Review - 2 Miles

(Attachment to NMOCD Form C-108 - Item V)

20-025\_05554 30-025\_0552 30-025\_0552 30-52-456 30-025-05-607 30-025-05551 30-025-05557 \$20-022-02<sup>2</sup> 30-025-05603 30-025-05383 30-025-05546 30-025-0554 30-025-05555 30-02-0536 80-025-0535 30-02-0533 (M) 30-025-05532 30-025-05508 20-220-02 30-025-0560A 28086 ||@ ADDE-230-K 30-025-05525 30 CC CS 80 (0)2 Mile Radius 8 30-025-31847<sub>6</sub> 30-02\$25075 30-02\$2673 30-025-25A70 510 2. 30-025-05611 30-025-05618 30-025-32201 30-025-05616 30-025-056:55 30-025-05560 30-02 33139 20-025-0523 30-005-0559 30-025 34348 100 30-025-26-09 30-025-0551 20-025-30915 30-02-0578 30-025-05577 30-025-055-45 (30-025-3)002 -10-075-41774 30-025-05632 30-025-05633 30-025-05633 30-025-30816 30-025-05568) 30-025-05516 30-025-0557 30-05-0550 \$0.05,050 \$0.05,050 \$0.05,000 \$0.05 30-025-26674 30-025-21882 30-025-35134 30-025-0556 30-025-0537 30-025-05963 30-025-05567 50-025-280 30-02-05622 30-025 Z1183 30-02 G2515 30 cas-0562 SWD STATE 30-025-28176 - CO 025-0575 0.5 Mile 20-025-2002 30-025-2667, 30-025-05567, 815 80 30-025-3005<sub>6</sub> 30-025<sub>6</sub>0400 30-025-039869 57-74-75 J 30,025-0356F 30-025-26005 30-025-36148 33-025-24614 31-025-03958 30-025-13998 © 0-025-3920 @0-025-25619 30-025-04003 30-025-03980 30-025-03999 30-025-34561 **8**0-625.0 30-025-34477/ 30-025-035 ₩ 30-û25-33957<sup>9</sup> €30-025-26296 30-025-343555 20 ms 30 ms 105-20175 30-005-3000 30-025-33441 2005. 30-025.20039 © © 630-125-3239 30-025-34167 30-025-3-470 -550±€-520-0x (30-CD-2217) 35-025-33799 30-025-33635 \$ 025.00 St. 05.00 St. 05. 5-23% 30-025-34400 20-02-05-06 30-02**9**0393 30-02/30729 30-025-04008 30-025-34047 025-04014 30-025-04012 5-33313 30-025-28999 30-025,04013 (30-025,04013) (30-025-04) 30-025-305 0 30-czs-04039. 30-025-03986 30-025-3377S Lat. 32.6809512 Long. -103.2966836 FILL 30-025-04010-g 30-02<del>5</del>04011 luice SWD State Well No. Sec.7, Twp 195, Rng 37 E 00-025-04037 803 497' FNL & 771' FWL API No. 30-025-xxxx (i) 30-025-2962 30-025-401.13 0 30-025-42735 39-CX 20075 34-025-20374 []20-11-31-35 Cancelled Oil - Hat F Injection Monitor OWS ♣ Water 8 ् New Gas S-025-230-50



RECEIVED Apache Corp

AUG 29 2023

August 23, 2023

Permian-Midland Regulatory

Subject:

Pilot Water Solutions SWD LLC

Notice of Application for Authorization to Inject

Jameis SWD State #1

Dear Sir or Madam,

Pilot Water Solutions SWD LLC (Pilot) is applying for administrative approval of an Application for Authorization to Inject (Form C-108) for their proposed Jameis SWD State #1. Per New Mexico Oil Conservation Division (NMOCD) requirements, you are being notified of the application as an Affected Person and are being provided with a copy of the application for review.

**Applicant Name:** 

Pilot Water Solutions SWD LLC

**Operator Address:** 

20 Greenway Plaza, Suite 200, Houston, TX 77046

Well Name:

Jameis SWD State #1

Location:

1,429' FSL & 458' FEL in Section 7 T19S R37E, in Lea County, NM

**Injection Formation:** San Andres

**Injection Type:** 

Commercial Disposal

Objections or requests for hearing must be filed with NMOCD within fifteen (15) days of receipt. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Questions regarding this application or the included materials can be directed to Nate Alleman (Pilot Regulatory Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

Nate Alleman

Chief Regulatory Advisor

Ace Energy Advisors

### Received by OCD: 9/29/2023 10:49:04 AM

### **Well Data**

Operator - Pilot Water Solutions SWD LLC Lease/Well Name & Number - Jameis SWD State #1 Legal Location - 1,429' FSL & 458' FEL - Unit I - Section 7 T19S R37E - Lea County

### **Casing Data**

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	17-1/2	13-3/8	1,418	2,222.6	0	Circulation
Production	12-1/4	9-5/8	5,496	1,640.6	0	Circulation

Tubing: 5-1/2" fiberglass-coated tubing set at 4,257'

Packer: Weatherford AS1X Stainless 9-5/8" X 5-1/2" set 4,257'

### **Geology Data**

Injection Formation Name - San Andres

Pool Name - SWD; San Andres

Pool Code - 96121

Injection Interval - Cased-hole injection between 4,257' - 5,496'

**Drilling Purpose - New drill for injection** 

Other Perforated Intervals: No other perforated intervals exist.

Overlying Oil and Gas Zones:

- Yates (2,668')
- 7 Rivers (2,928')
- Queen (3,441')
- Grayburg (3,776')

### Underlying Oil and Gas Zones - None

Geologic Description of Injection Interval - The proposed injection interval is located in the San Andres formation between the depths of 4,257 and 5,496 feet. The San Andres formation consists of an interbedded carbonate sequence composed of limestone and dolomite. These cycles tend to be mappable within the San Andres and are differentiated by sections of either very high or very low porosity and permeability development. Upper and lower confinement will be provided by tight carbonate facies present within San Andres that occur above and below the porous injection interval. The upper confining interval occurs at the top of the San Andres formation, directly underlying the Grayburg formation, and ranges from 125' - 150' net thickness based on a review of nearby open-hole geophysical logs. The lower confining interval occurs at the bottom of the San Andres formation, directly overlying the Glorieta formation, and ranges from 150' - 200' net thickness based on a review of nearby open-hole geophysical logs.

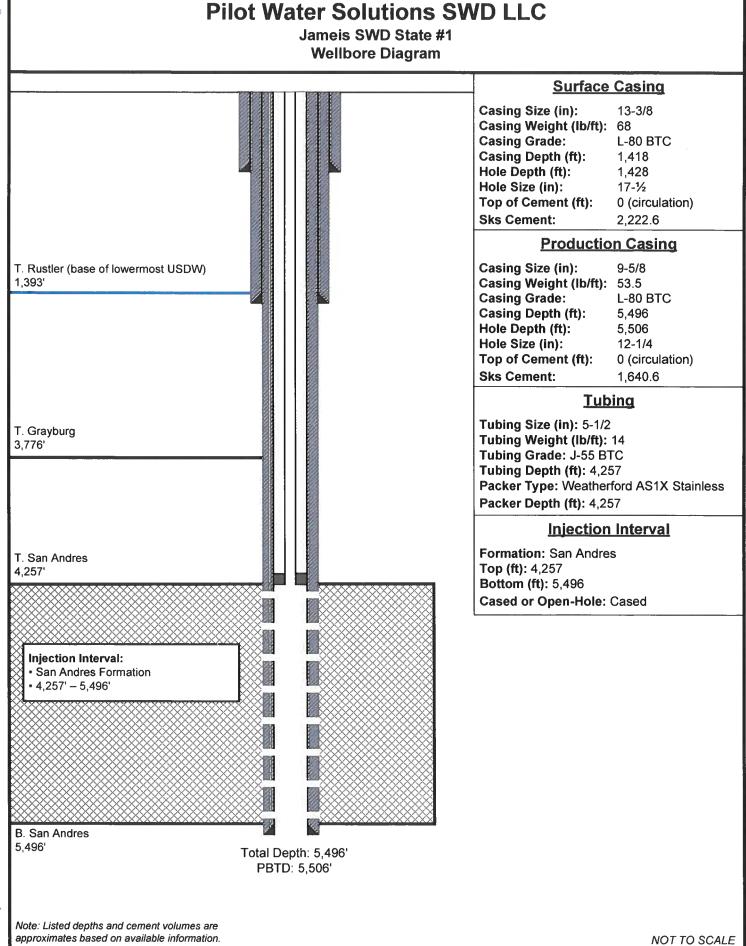
The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,393'. Water wells in the area are drilled to a depth of approximately 95' - 143'.

### **Operational Data**

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**Proposed Maximum Injection Rate: 25,000 BWPD** Proposed Average Injection Rate: 15,000 BWPD

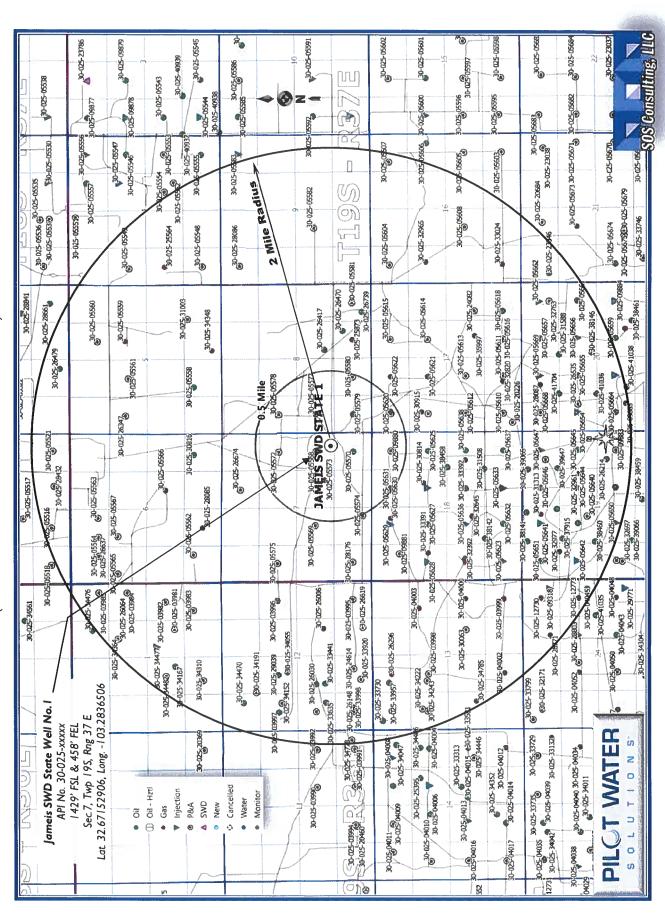
Proposed Maximum Injection Pressure: 851 psi (surface) Proposed Average Injection Pressure: 500-600 psi (surface



Released to Imaging: 9/29/2023 10:51:06 AM

## Jameis SWD State Well No.1 - Area of Review - 2 Miles

(Attachment to NMOCD Form C-108 - Item V)







AUG Z 9 ZUZS

Permian-Midland Regulatory : ...

August 23, 2023

Pilot Water Solutions SWD LLC Subject:

Notice of Application for Authorization to Inject

Toretta SWD State #1

Dear Sir or Madam,

Pilot Water Solutions SWD LLC (Pilot) is applying for administrative approval of an Application for Authorization to Inject (Form C-108) for their proposed Toretta SWD State #1. Per New Mexico Oil Conservation Division (NMOCD) requirements, you are being notified of the application as an Affected Person and are being provided with a copy of the application for review.

Applicant Name:

Pilot Water Solutions SWD LLC

Operator Address:

20 Greenway Plaza, Suite 200, Houston, TX 77046

Well Name:

Toretta SWD State #1

Legal Location:

545' FNL & 2,510' FEL, Section 17 T19S R37E, in Lea County, NM

Injection Formation: San Andres

**Injection Type:** 

Commercial Disposal

Objections or requests for hearing must be filed with NMOCD within fifteen (15) days of receipt. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Questions regarding this application or the included materials can be directed to Nate Alleman (Pilot Regulatory Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

Chief Regulatory Advisor Ace Energy Advisors

### **Well Data**

Operator - Pilot Water Solutions SWD LLC Lease/Well Name & Number - Toretta SWD State #1 Legal Location - 545' FNL & 2,510' FEL - Unit B - Section 17 T19S R37E - Lea County

### Casing Data

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	17-1/2	13-3/8	1,420	2,225.7	0	Circulation
Production	12-1/4	9-5/8	5,484	1,637	0	Circulation

Tubing: 5-1/2" fiberglass-coated tubing set at 4,183'

Packer: Weatherford AS1X Stainless 9-5/8" X 5-1/2" set at 4,183'

### **Geology Data**

Injection Formation Name - San Andres

Pool Name - SWD; San Andres

**Pool Code** - 96121

Injection Interval - Cased-hole injection between 4,183' - 5'484'

**Drilling Purpose - New drill for injection** 

Other Perforated Intervals: No other perforated intervals exist.

Overlying Oil and Gas Zones:

- Yates (2,682')
- 7 Rivers (2,956')
- Queen (3,393')
- **Grayburg (3,708)**

### **Underlying Oil and Gas Zones - None**

Geologic Description of Injection Interval - The proposed injection interval is located in the San Andres formation between the depths of 4,183 and 5,484 feet. The San Andres formation consists of an interbedded carbonate sequence composed of limestone and dolomite. These cycles tend to be mappable within the San Andres and are differentiated by sections of either very high or very low porosity and permeability development. Upper and lower confinement will be provided by tight carbonate facies present within San Andres that occur above and below the porous injection interval. The upper confining interval occurs at the top of the San Andres formation, directly underlying the Grayburg formation, and ranges from 125' – 150' net thickness based on a review of nearby open-hole geophysical logs. The lower confining interval occurs at the bottom of the San Andres formation, directly overlying the Glorieta formation, and ranges from 150' - 200' net thickness based on a review of nearby open-hole geophysical

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,395'. Water wells in the area are drilled to a depth of approximately 90' - 150'.

### **Operational Data**

Released to Imaging: 9/29/2023 10:51:06 AM

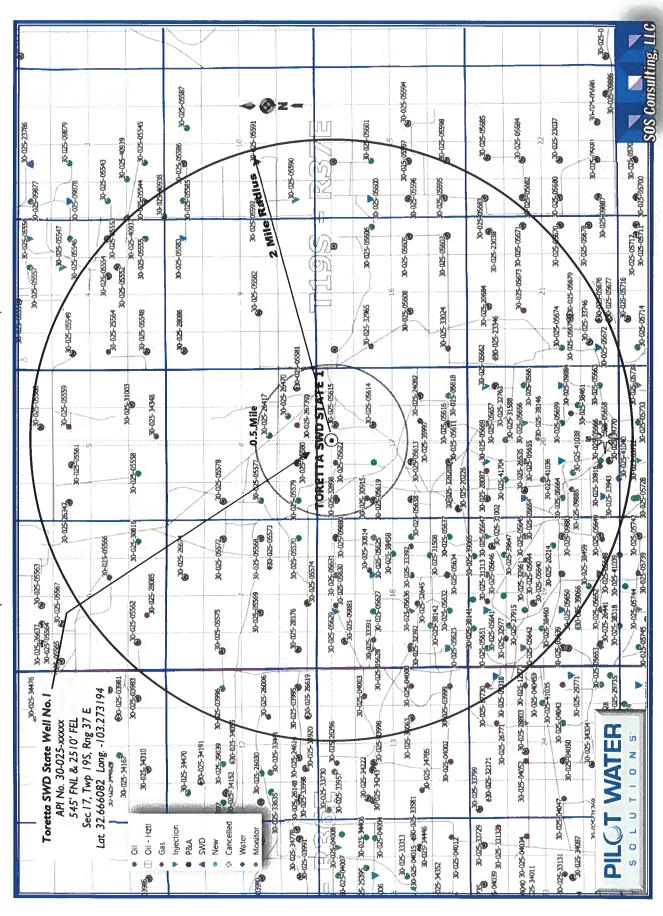
**Proposed Maximum Injection Rate: 25,000 BWPD Proposed Average Injection Rate: 15,000 BWPD** 

**Proposed Maximum Injection Pressure:** 837 psi (surface) Proposed Average Injection Pressure: 500-600 psi (surface

Released to Imaging: 9/29/2023 10:51:06 AM

# Toretta SWD State Well No.1 - Area of Review - 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



THURSDAY, AUGUST 24, 2023

### LEGAL

LEGAL

### LEGAL NOTICE August 24, 2023

Pilot Water Solutions SWD LLC, 20 Greenway Plaza, Suite 200, Houston, TX 77046, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for commercial saltwater injection into its Cannon SWD State #1. This will be a new well located 2,363' FNL & 1,271' FEL in Section 9 Township 19S Range 37E in Lea County, New Mexico. The purpose of the well is to inject produced water from permitted oil and gas wells in the area for commercial disposal into the San Andres formation at depths of 4,237' – 5,568' at a maximum surface injection pressure of 847 psi and a maximum injection rate of 25,000 barrels of water per day.

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. Additional information may be obtained by contacting the operator contact, David Grounds, at 713-307-8752.

#00281927

### LEGAL

LEGAL

### LEGAL NOTICE August 24, 2023

Pilot Water Solutions SWD LLC, 20 Greenway Plaza, Suite 200, Houston, TX 77046, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for commercial saltwater injection into its Burrow SWD State #1. This will be a new well located 458' FNL & 1,612' FWL Section 5 Township 19S Range 37E in Lea County, New Mexico. The purpose of the well is to inject produced water from permitted oil and gas wells in the area for commercial disposal into the San Andres formation at depths of 4,330' – 5,629' at a maximum surface injection pressure of 866 psi and a maximum injection rate of 25,000 barrels of water per day.

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. Additional information may be obtained by contacting the operator contact, David Grounds, at 713-307-8752.

#00281925

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 270647

### **CONDITIONS**

Operator:	OGRID:
Pilot Water Solutions SWD LLC	331374
	Action Number:
Houston, TX 77046	270647
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

### CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	9/29/2023