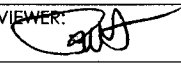


RECEIVED: 11/19/18	REVIEWER: 	TYPE: SLWD	APP NO: PLEL 1832553557
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**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:** ~~BOPCO, LP~~ XTO Permian Operating LLC **OGRID Number:** ~~260737~~ 373075  
**Well Name:** Poker Lake Unit 36 DTD State SWD **API:** 30-015-45237  
**Pool:** Devonian: SWD **Pool Code:** \_\_\_\_\_

**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**

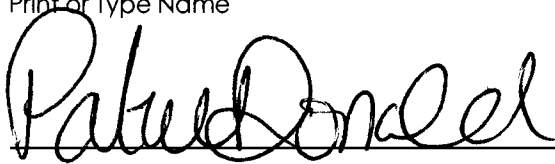
- ☐ Notice Complete  
☐ Application  
 Content  
 Complete

- 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.**

Patricia Donald

Print or Type Name



Signature

11/12/18  
 Date

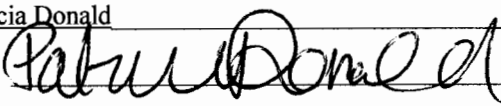
432-571-8220

Phone Number

Patricia\_Donald@xtoenergy.com

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance XXX Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: **BOPCO, LP**  
ADDRESS: **6401 Holiday Hill Rd, BLDG 5, Midland TX 79707**  
CONTACT PARTY: **Patricia Donald** PHONE: **432-571-8220**
- 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? \_\_\_\_\_ Yes XXXXX No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half 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: Patricia Donald TITLE: Regulatory Analyst  
SIGNATURE:  DATE: 11/12/12  
E-MAIL ADDRESS: patricia.donald@xtoenergy.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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

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

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

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

---

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

## INJECTION WELL DATA SHEET

OPERATOR: BOPCO, LPWELL NAME & NUMBER: Poker Lake Unit 36 DTD State SWD #1WELL LOCATION: 660' FNL & 660' FEL A 36 24S 30E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 24 Casing Size: 18 5/8Cemented with: 1570 sx. or  ft<sup>3</sup>Top of Cement: 0 Method Determined: Intermediate CasingHole Size: 17 1/2 Casing Size: 13 3/8Cemented with: 3505 sxs Top of Cement: 0 Method Determined: Production CasingHole Size: 12 1/4 Casing Size: 9 5/8Cemented with: 2300 SX Top of Cement: 0 Method Determined: Total Depth: 17900Injection Interval16800 feet to 17900(Perforated or Open Hole; indicate which)Production LinerHole Size: 8 1/2" Liner Size: 7"Cemented with: 745 sxs Poz/HTop of Cement: 0'Open Hole from 16800-17900

**INJECTION WELL DATA SHEET**

Tubing Size: 5.5 to 4.5 at 11800' Lining Material: IPC

Type of Packer: Lock Set Packer

Packer Setting Depth: 16800

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? XXX Yes      No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

\_\_\_\_\_

2. Name of the Injection Formation: Devonian, Silurian, Fusselman

3. Name of Field or Pool (if applicable): Devonian; SWD

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

\_\_\_\_\_

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: N/A

# **PLU Dog Town Draw 36 SWD #1**

Proposed SWD Schematic (Sept 10, 2018)

County: Eddy  
SHL: 660' FNL, 660' FEL  
Sec 36, T 24S, R 30E

BHL: 660' FNL, 660' FEL  
Sec 36, T 24S, R 30E



AFE # 1802747  
XTO ID # N/A  
API # N/A  
Elevation GL 3438', KB 3468' (30' AGL)  
Rlg: TBD (RKB 30')

Geology	Casing & Cement	Wellhead	Hole Size	General Notes
<b>(Tech Data Sheet)</b>				
TVD Formation				
672' Rustler	<u>Lead (100% OH excess)</u> 890 sx 12.8ppg Poz/C Top of Lead @ 0  <u>Tail (100% OH excess)</u> 680 sx 14.8ppg Class C Top of Tail @ 660'  <b>18-5/8" 87.5# J-55 BTC</b>	960' MD	24"	
1,255' Top Salt	<u>Lead (150% OH excess)</u> 2820 sx 12.8ppg Poz/C Top of Lead @ 0  <u>Tail (100% OH excess)</u> 685 sx 14.8ppg Class C Top of Tail @ 3500'  <b>13-3/8" 68# HCL-80 BTC</b>	4100' MD	17-1/2"	
4,204' Delaware	<u>Lead (100% OH excess)</u> 1900 sx 11.5ppg Poz/H Top of Lead @ 3500'  <u>Tail (100% OH excess)</u> 400 sx 14.8ppg Poz/H Top of Tail @ 11400'  <b>9-5/8" 53.5# P-110 BTC</b>	12100' MD	12-1/4"	
8,090' Bone Spring		11800' MD		
11,393' Wolfcamp				
11,946' Wolfcamp B				
13,996' Strawn 14,129' Atoka 14,583' Morrow	<u>Tail (40% OH excess)</u> 745 sx 14.5ppg Poz/H Top of Tail @ 11800'  <b>7" 32# P-110 BTC</b>	16800' MD	8-1/2"	
16,243' Mississippian Lm 16,618' Woodford 16,778' Devonian				
17,900' TVD at BHL	Open hole completion	17,900' MD 17,900' TVD	6"	
17,921' Montoya				

## **Approvals**

Prepared by: \_\_\_\_\_

Peer Reviewed by: \_\_\_\_\_ Date

Reviewed by: \_\_\_\_\_

Approved by: \_\_\_\_\_

August 22, 2018

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

**Re: Geology Statement per Question XII on the Application for Authorization to Inject Form C-108 for**

XTO Energy Inc., an ExxonMobil subsidiary

PLU Dog Town Draw 36 SWD #1,

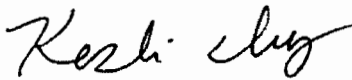
Section 36, Township 24S, Range 30E,

Eddy County, New Mexico

To whom it may concern:

XTO, Energy, Inc., an ExxonMobil subsidiary, has examined available geological data at the above-mentioned well located at 660 FNL & 660 FEL, Unit A, Section 36, T24S, R30E, Eddy County, New Mexico; and finds no evidence of open faults or other hydrologic connection between the disposal zone and the underground sources of drinking water.

Respectively Submitted,



Kesli Ivy

Geologist

XTO Energy Inc., an ExxonMobil subsidiary  
22777 Springwoods Village Parkway  
Spring, Texas 77389

RECEIVED

**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 and Natural Resources

SEP 12 2018

Form C-101  
Revised July 18, 2013

## Oil Conservation Division

DISTRICT II-ARTESIA ☒ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

## APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address <b>BOPCO, LP</b> <b>6401 Holiday Hill Rd, Bldg 5, Midland, TX 79707</b>		<sup>2</sup> OGRID Number <b>260737</b>
<sup>4</sup> Property Code <b>322436</b>		<sup>3</sup> API Number <b>30-015-45237</b>
<sup>5</sup> Property Name <b>POKER LAKE UNIT 36 DTD STATE SWD</b>		<sup>6</sup> Well No. <b>1</b>

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	36	24S	30E		660	NORTH	660	EAST	Eddy

<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

<sup>9</sup> Pool Information

<b>SWD; Devonian</b>	Pool Name	Pool Code <b>96101</b>
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## Additional Well Information

<sup>11</sup> Work Type <b>NW</b>	<sup>12</sup> Well Type <b>S</b>	<sup>13</sup> Cable/Rotary <b>R</b>	<sup>14</sup> Lease Type <b>STATE</b>	<sup>15</sup> Ground Level Elevation <b>3,438'</b>
<sup>16</sup> Multiple	<sup>17</sup> Proposed Depth <b>17,900'</b>	<sup>18</sup> Formation <b>DEVONIAN</b>	<sup>19</sup> Contractor	<sup>20</sup> Spud Date <b>ASAP</b>
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits<sup>21</sup> Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	24	18.625	J-55 87.5# BTC	960'	1570	0'
Inter	17.5	13.375	HCL-80 68# BTC	4,100'	3505	0'
Prod	12.25	9.625	P-110 53.5# BTC	12,100'	2300	3,500'

## Casing/Cement Program: Additional Comments

Prod Liner: 8.5" hole, 7" P-110 32# BTC csg @ 11,800'-16,800' w/745sx cmt. TOC @ 11,800'. Prod hole: 6" 16,800'-17,900'

<sup>22</sup> Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Cameron Double Ram	10,000psi	5,000psi	

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature: *Kelly Kardos*

Printed name: Kelly Kardos

Title: Regulatory Coordinator

E-mail Address: kelly\_kardos@xtoenergy.com

Date: 09-11-18

Phone: 432-620-4374

## OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date: 9-14-18

Expiration Date: 9-14-20

Conditions of Approval Attached

Approved C-108.



RECEIVED

SEP 12 2018

Form C-102

Revised August 1, 2011

**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

DISTRICT II-ARTESIA OGD  
Copy to appropriate  
District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-45237</b>	<sup>2</sup> Pool Code <b>96101</b>	<sup>3</sup> Pool Name <b>SWD; DEVONIAN</b>
<sup>4</sup> Property Code <b>322436</b>	<sup>5</sup> Property Name <b>POKER LAKE UNIT 36 DTD STATE SWD</b>	
<sup>7</sup> OGRID No. <b>260737</b>	<sup>8</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	<sup>6</sup> Well Number <b>1</b>
		<sup>9</sup> Elevation <b>3,438'</b>

<sup>10</sup> 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	36	24 S	30 E		660	NORTH	660	EAST	EDDY

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
0			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

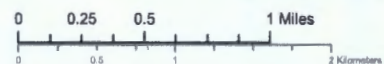
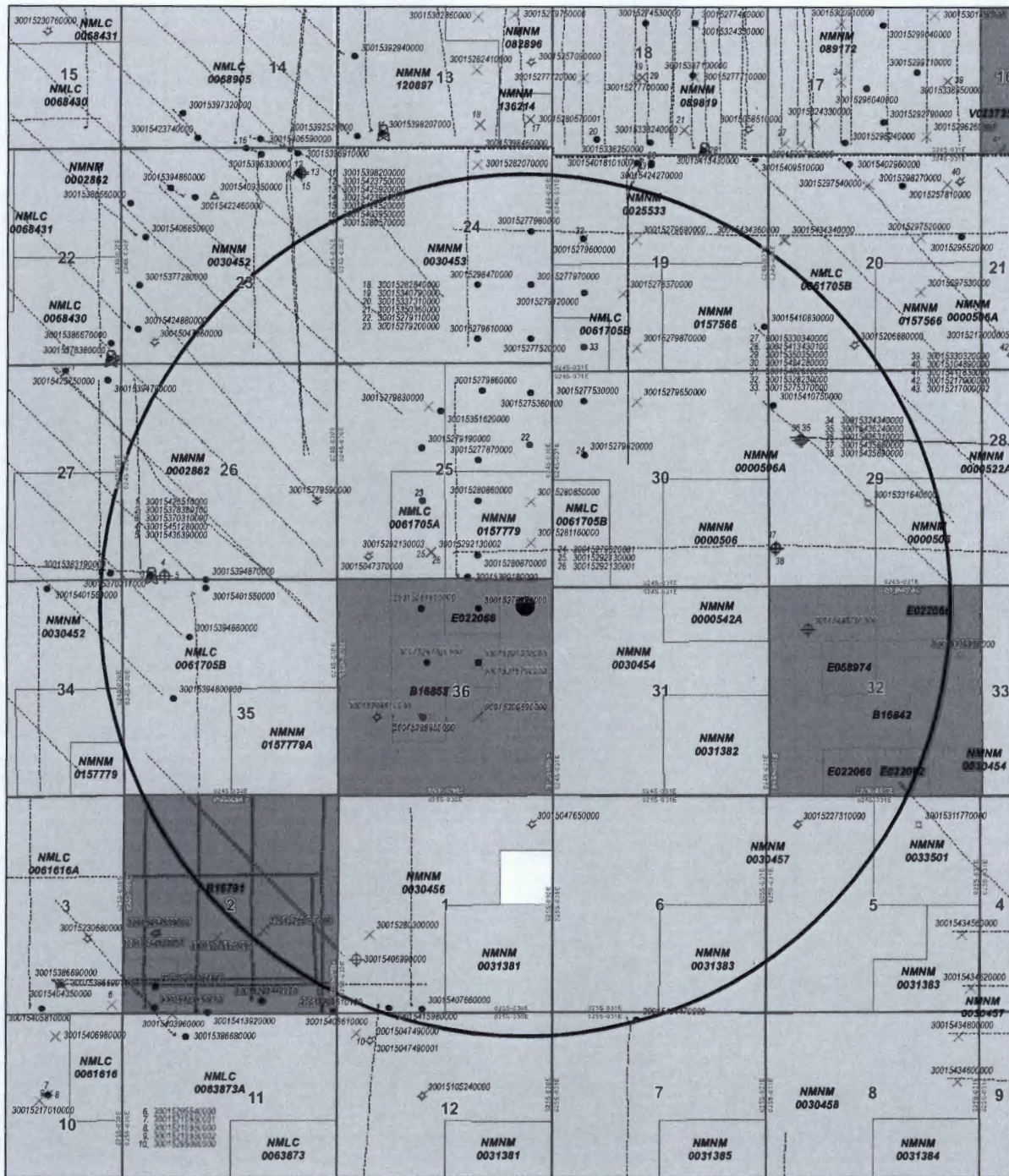
<p><sup>16</sup></p> <p><b>SEC. 36</b> <b>T-24-S</b> <b>R-30-E</b></p> <p><b>GEODETIC COORDINATES</b> NAD 27 NME SURFACE LOCATION Y= 429,441.7 X= 656,545.5 LAT.= 32.179640°N LONG.= 103.827353°W</p> <p><b>CORNER COORDINATES TABLE</b> NAD 27 NME</p> <table border="1"> <tr><td>A - Y= 430,098.9 N, X= 654,530.1 E</td></tr> <tr><td>B - Y= 430,102.6 N, X= 657,202.2 E</td></tr> <tr><td>C - Y= 427,484.6 N, X= 657,215.1 E</td></tr> <tr><td>D - Y= 427,461.2 N, X= 654,549.6 E</td></tr> </table> <p><b>GEODETIC COORDINATES</b> NAD 83 NME SURFACE LOCATION Y= 429,500.2 X= 697,729.9 LAT.= 32.179764°N LONG.= 103.827836°W</p> <p><b>CORNER COORDINATES TABLE</b> NAD 83 NME</p> <table border="1"> <tr><td>A - Y= 430,157.5 N, X= 695,714.4 E</td></tr> <tr><td>B - Y= 430,161.2 N, X= 698,386.6 E</td></tr> <tr><td>C - Y= 427,523.1 N, X= 698,399.6 E</td></tr> <tr><td>D - Y= 427,519.7 N, X= 695,734.0 E</td></tr> </table>	A - Y= 430,098.9 N, X= 654,530.1 E	B - Y= 430,102.6 N, X= 657,202.2 E	C - Y= 427,484.6 N, X= 657,215.1 E	D - Y= 427,461.2 N, X= 654,549.6 E	A - Y= 430,157.5 N, X= 695,714.4 E	B - Y= 430,161.2 N, X= 698,386.6 E	C - Y= 427,523.1 N, X= 698,399.6 E	D - Y= 427,519.7 N, X= 695,734.0 E	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> 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.</p> <p><i>Kelly Kardos</i>      09/11/18 Signature      Date</p> <p>Kelly Kardos Printed Name</p> <p>kelly_kardos@xtoenergy.com E-mail Address</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> 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.</p> <p>06-15-2018 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: </p> <p>MARK DILLON HARP 23786 Certificate Number</p> <p><b>MARK DILLON HARP</b> NEW MEXICO 23786 PROFESSIONAL SURVEYOR</p> <p>RR      2018051185</p>
A - Y= 430,098.9 N, X= 654,530.1 E									
B - Y= 430,102.6 N, X= 657,202.2 E									
C - Y= 427,484.6 N, X= 657,215.1 E									
D - Y= 427,461.2 N, X= 654,549.6 E									
A - Y= 430,157.5 N, X= 695,714.4 E									
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C - Y= 427,523.1 N, X= 698,399.6 E									
D - Y= 427,519.7 N, X= 695,734.0 E									

RWP 9-14-18





# Poker Lake Unit 36 DTD SWD



--- wellbore	<b>Well Status Name</b>	☒ NON-PRODUCING OTHER
■ State Lease	☆ GAS	○ CO2
■ Federal Lease	⚡ INJECTION	✕ DRY
□ two mile buffer	⊕ MULTI OIL AND GAS PRODUCER	○ STORAGE
⊞ BLM Active Unit	● OIL	☆ CBM
	⚡ OIL AND GAS PRODUCER	△ OTHER PRODUCING
	⊕ MULTIPLE GAS PRODUCER	⚡ WATER SUPPLY WELL
	⊕ MULTIPLE OIL PRODUCER	⊕ WELL PERMIT
	✕ ABANDONED	⊕ WELL START
	⊕ DRILLING	

CERTIFIED MAILING LIST  
BOPCO, LP  
Poker Lake Unit 36 DTD State SWD

**Certified #7016 2070 0000 9005 6140**

Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220-6292

**Certified #7016 1970 0000 4404 2285**

DK Farms, Inc.  
David Kirk  
2727 Raquet Club Drive  
Midland, TX 79705

**Certified #7013 1710 0001 1160 6139**

The New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe, NM 87501

CARLSBAD  
**CURRENT-ARGUS**

**AFFIDAVIT OF PUBLICATION**

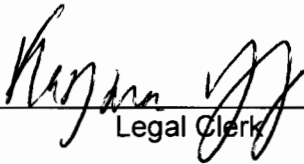
**Ad No.**  
**0001262554**

XTO ENERGY, INC.  
6401 HOLIDAY HILL RD, BLDG #5  
MIDLAND TX 79701

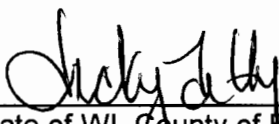
REC'D MIDLAND  
SEP 28 2018

I, a legal clerk of the **Carlsbad Current-Argus**,  
a newspaper published daily at the City of  
Carlsbad, in said county of Eddy, state of New  
Mexico and of general paid circulation in said  
county; that the same is a duly qualified  
newspaper under the laws of the State wherein  
legal notices and advertisements may be  
published; that the printed notice attached  
hereto was published in the regular and entire  
edition of said newspaper and not in supplement  
thereof on the date as follows, to wit:

09/25/18

  
Legal Clerk

Subscribed and sworn before me this  
25th of September 2018.

  
State of WI, County of Brown  
NOTARY PUBLIC

9-19-21  
My Commission Expires



**NOTICE OF  
APPLICATION FOR  
WATER DISPOSAL  
WELL PERMIT**

BOPCO, L.P. has  
applied to the New  
Mexico Oil  
Conservation Division  
for a permit to  
dispose of produced  
water into a porous  
formation not  
productive of oil or  
gas.

The applicant  
proposes to dispose  
of produced water  
into the Poker Lake  
Unit 36 DTD State  
SWD #1 (Devonian,  
Silurian, & Fusselman  
Formations). The  
maximum injection  
pressure will be 3360  
psi and the maximum  
rate will be 40,000  
bbls. produced water  
per day. The  
proposed disposal  
well is located in  
Section 36, T24S -  
R30E, 660' FNL &  
660' FEL, Eddy  
County, New Mexico.  
The produced water  
will be disposed at a  
subsurface depth of  
16,800' -17,900'.

Any questions  
concerning this  
application should be  
directed to Patricia  
Donald, Regulatory  
Analyst, BOPCO, L.P.,  
6401 Holiday Hill Rd,  
Bldg 5, Midland, Texas  
79707, (432) 571-  
8220.

Interested parties  
must file objections or  
requests for hearing  
with the Oil  
Conservation Division,  
1220 S. St. Francis Dr.,  
Santa Fe, New Mexico  
87505 within 15 days.  
*September 25th, 2018*



### **Statements Regarding Seismicity**

XTO has performed a seismicity risk assessment associated with the proposed Poker Lake Unit Dog Town Draw 36 SWD Well by investigating historic seismicity, the presence of deep faulting, orientation of faults relative to the current stress regime and the potential for pore pressure build up that might cause a fault to slip. The analysis was done utilizing Stanford's Fault Slip Potential Tool (FSP; Walsh et al. 2017). To accommodate the tool's analytics, a simplified spatial relationship between the proposed well and possible fault was established.

As part of our risk assessment we also consider mitigation options to address inherent uncertainties associated with evaluation of the possibility as seismicity. XTO has developed and will implement, as a precautionary measure, a seismicity monitoring plan to address the inherent uncertainty in the subsurface characterization, the future rates of disposal and reservoir response.

A summary of our evaluation and seismicity monitoring plan follows:

### **Historic Seismicity**

There are no seismic events reported on the USGS earthquake website within 15+ miles of the proposed well. Additionally, the Texas Bureau of Economic Geology's TexNet website shows no recent earthquakes in Texas within ~25 miles of the New Mexico border in the Delaware Basin (Figure 1).

### **Deep Faulting**

Utilizing licensed 3D seismic data in the area of the proposed SWD well, XTO has interpreted a fault and/or linear feature with an azimuth of approximately 136 degrees and another that strikes due north. Both features have a dip of approximately 85 degrees. Additionally, there are several seismic discontinuities that are interpreted as karst features in the Devonian section that do not appear to have significant lateral continuity.

### **Stress Regime**

Utilizing data and analysis from Snee and Zoback, 'State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity' (Feb 2018, The Leading Edge) the region of the well is primarily a normal faulting regime with the maximum horizontal stress oriented at ~65 degrees from north.

### **Geomechanical Modeling**

A simple screening level geometric / geomechanical assessment of the possible fault was performed utilizing the FSP tool. The model was run using the Aphi option which makes a simplifying and conservative assumption that the faults are critically stressed and thus close to failure. Additionally, given the uncertainties in the geophysical interpretation and stress information, a probabilistic scenario was run varying fault and stress characteristics. The results of the model runs are shown in Figure 2.

### **Pore Pressure Modeling**

A screening level investigation of possible pore pressure increases due to the proposed SWD well was performed utilizing the FSP tool and a range of reservoir parameters. For this screening level analysis a 'high-side' model was run assuming disposal of 40,000 BWPD beginning in 2019 and

continuing at that rate until 2040. Sensitivities were performed by varying several reservoir parameters. Results of the model and the screening level inputs are shown in Figure 3.

#### **Integration of Geomechanical and Pore Pressure Modeling**


Integrating the geomechanical and hydrological elements of the assessment was performed using the FSP Integrated module and are shown in Figure 4. Note the y-axis in the lower right hand colored graph in Figure 4 is labeled 'Fault Slip Potential'. This a labeling convention within the tool but overstates the efficacy of the analysis. The FSP output should not be taken as calculating a reliable probability of a fault slipping but rather a screening method for assessing the relative potential of faults to slip.

#### **Uncertainty**

The analysis presented is a screening level approach that encompasses a range of uncertainties in several components that are difficult to individually constrain due to the limited static and dynamic data available from deep disposal wells. Accordingly, the analysis was done by varying key inputs to understand the relative importance of each and guide the focus of future data collection efforts.

#### **Monitoring Plan**

To manage the inherent uncertainty, XTO has contracted with a third party to provide seismicity monitoring using public seismometers augmented by a private array in the area of the proposed well. This will allow for a better determination of baseline seismicity as well as early detection should there be anomalous events. Additionally, XTO will determine the original pore pressure of the disposal interval prior to initiating operations. Upon request, XTO will share the results of this work with the EMNRD's UIC staff.



Tim Tyrrell  
XTO Geoscience Technical Manager



# Poker Lake Unit Dog Town Draw 36 SWD Well Historic Seismicity

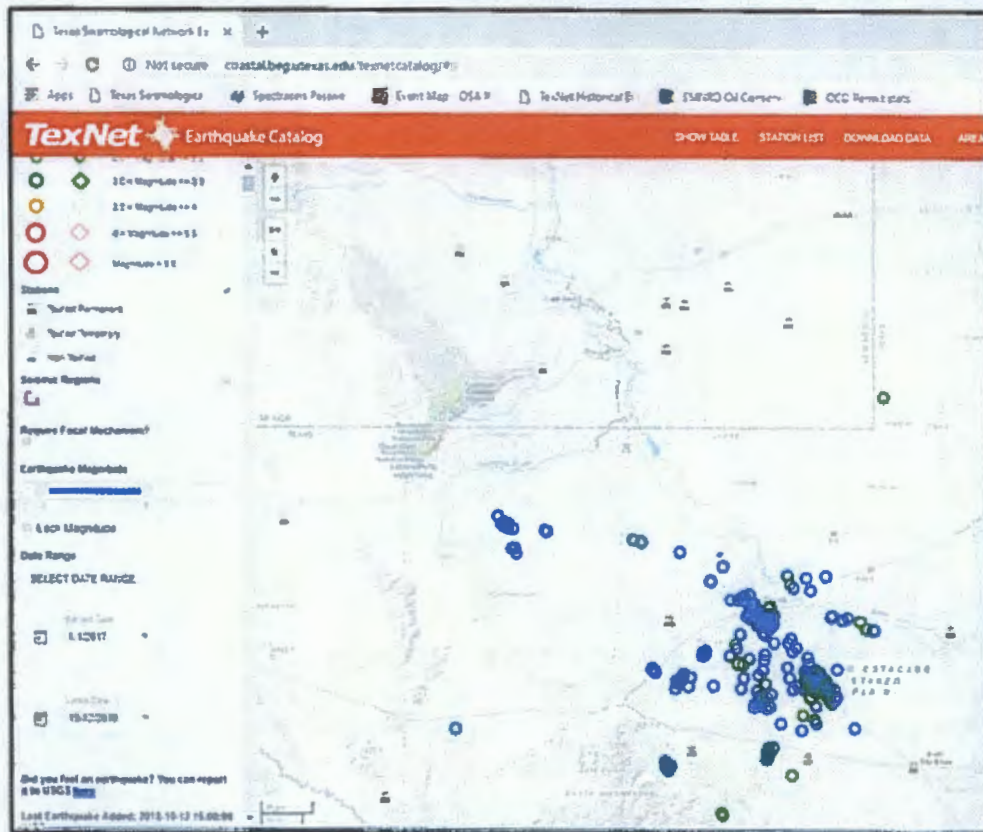
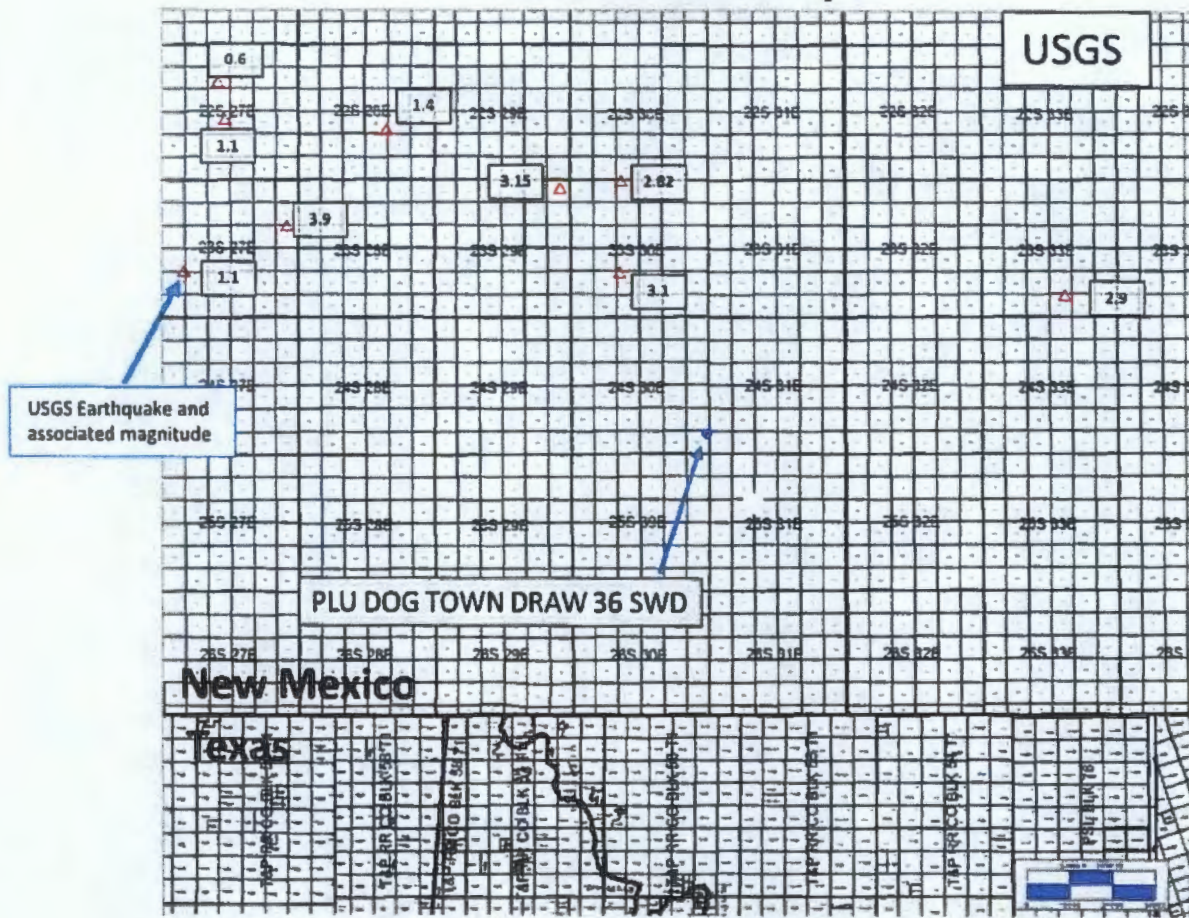
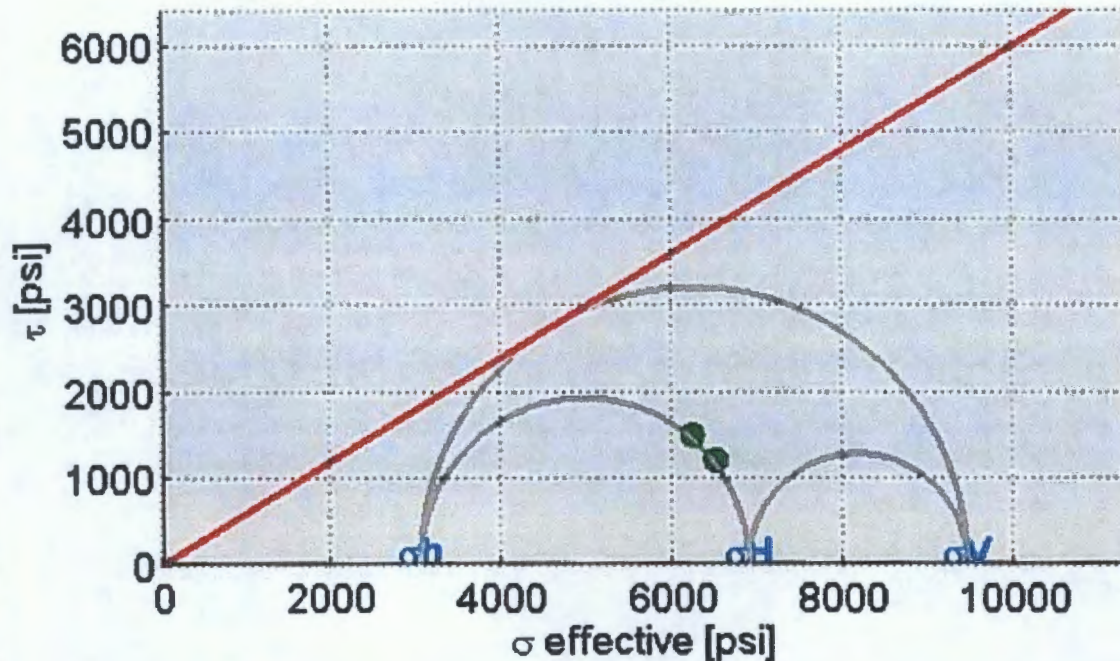


Figure 1

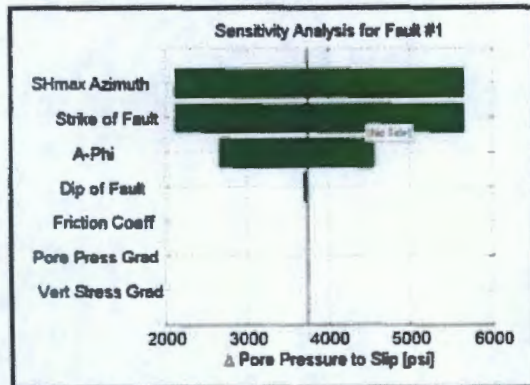


# Poker Lake Unit Dog Town Draw 36 SWD Well Geomechanical Analysis

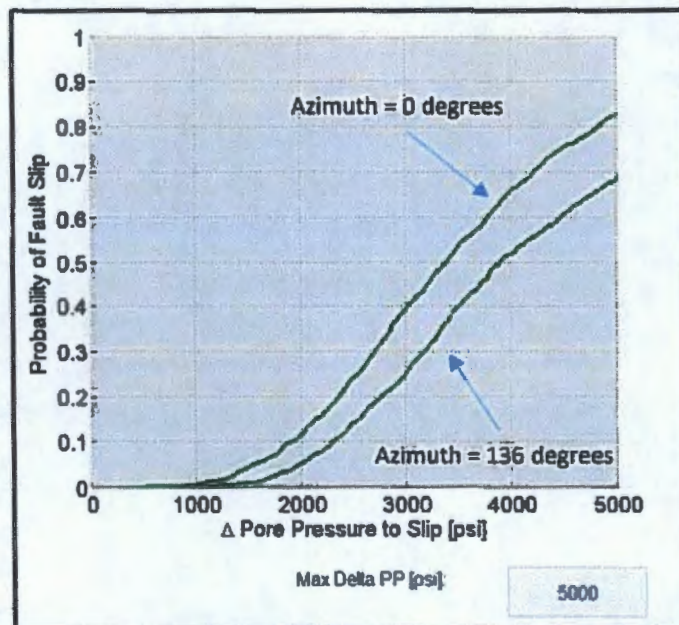
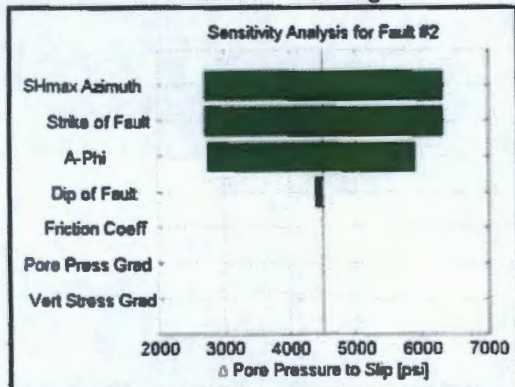
Stress Regime: Normal Faulting



Azimuth = 0 degrees



Azimuth = -136 degrees



Strike Angles (0-90 degrees)	10
Dip Angles (75 degrees)	10
Max Horiz. Stress (0-15 degrees)	10
Friction Coeff (0-10)	8
A Phi Penetration (0-10)	0.5

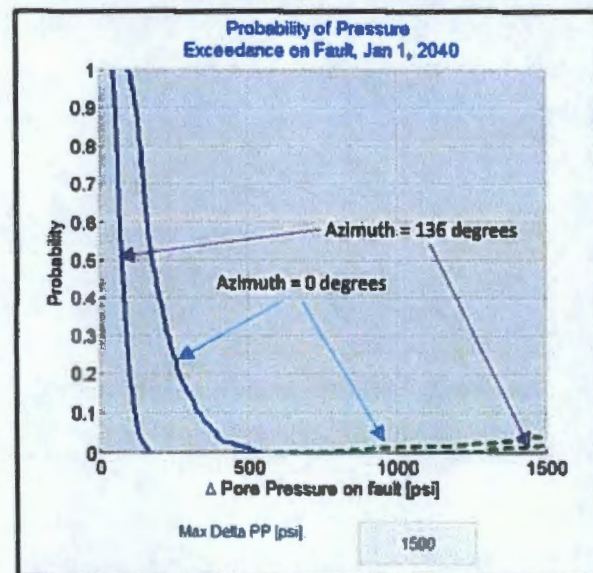
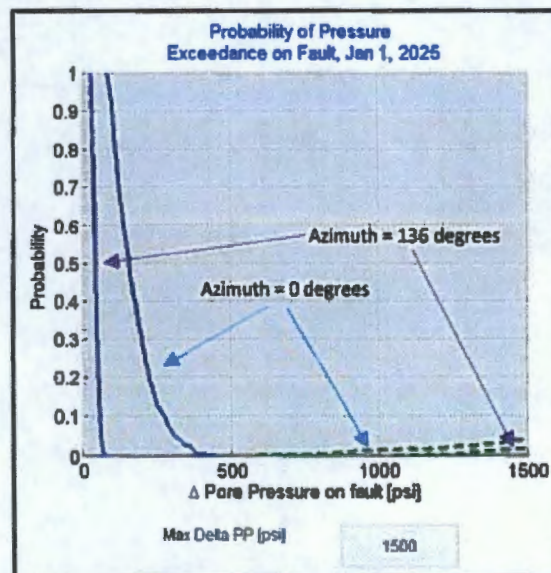
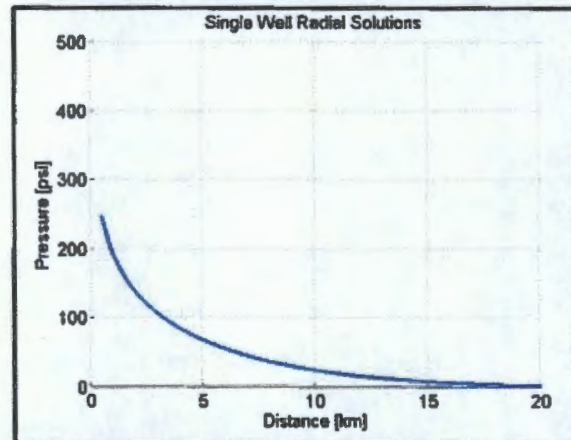
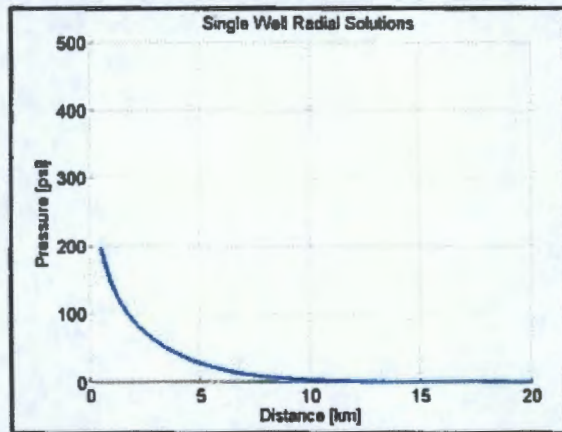
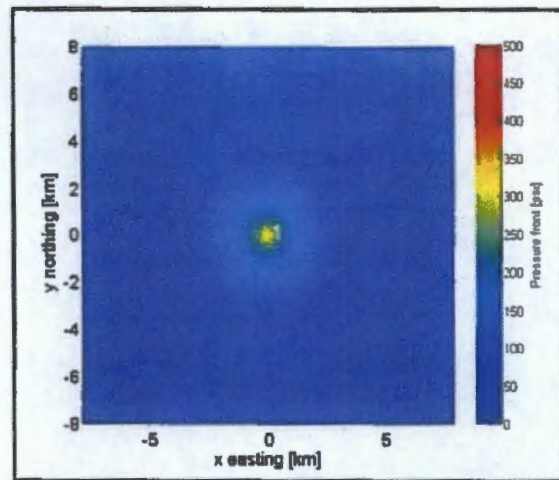
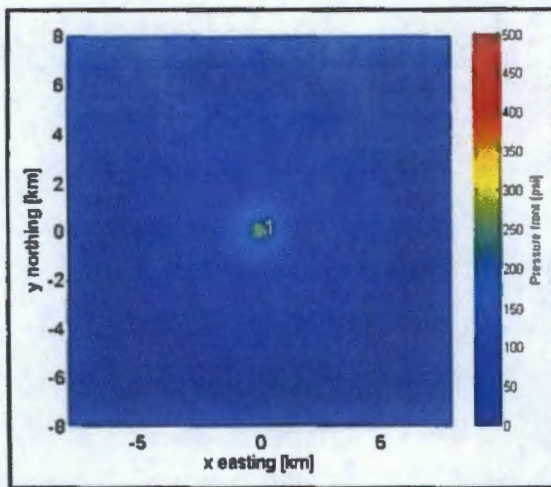
Figure 2



# Poker Lake Unit Dog Town Draw 36 SWD Well Pore Pressure Analysis

2025 Snapshot

2040 Snapshot



Agar Thickness [750 ft]	750
Porosity [%]	2
Permeability [mD]	50

Agar Thickness [ft]	750
Porosity [%]	6
Permeability [mD]	15

Figure 3

## Poker Lake Unit Dog Town Draw 36 SWD Well Geomechanical / Pore Pressure Integration

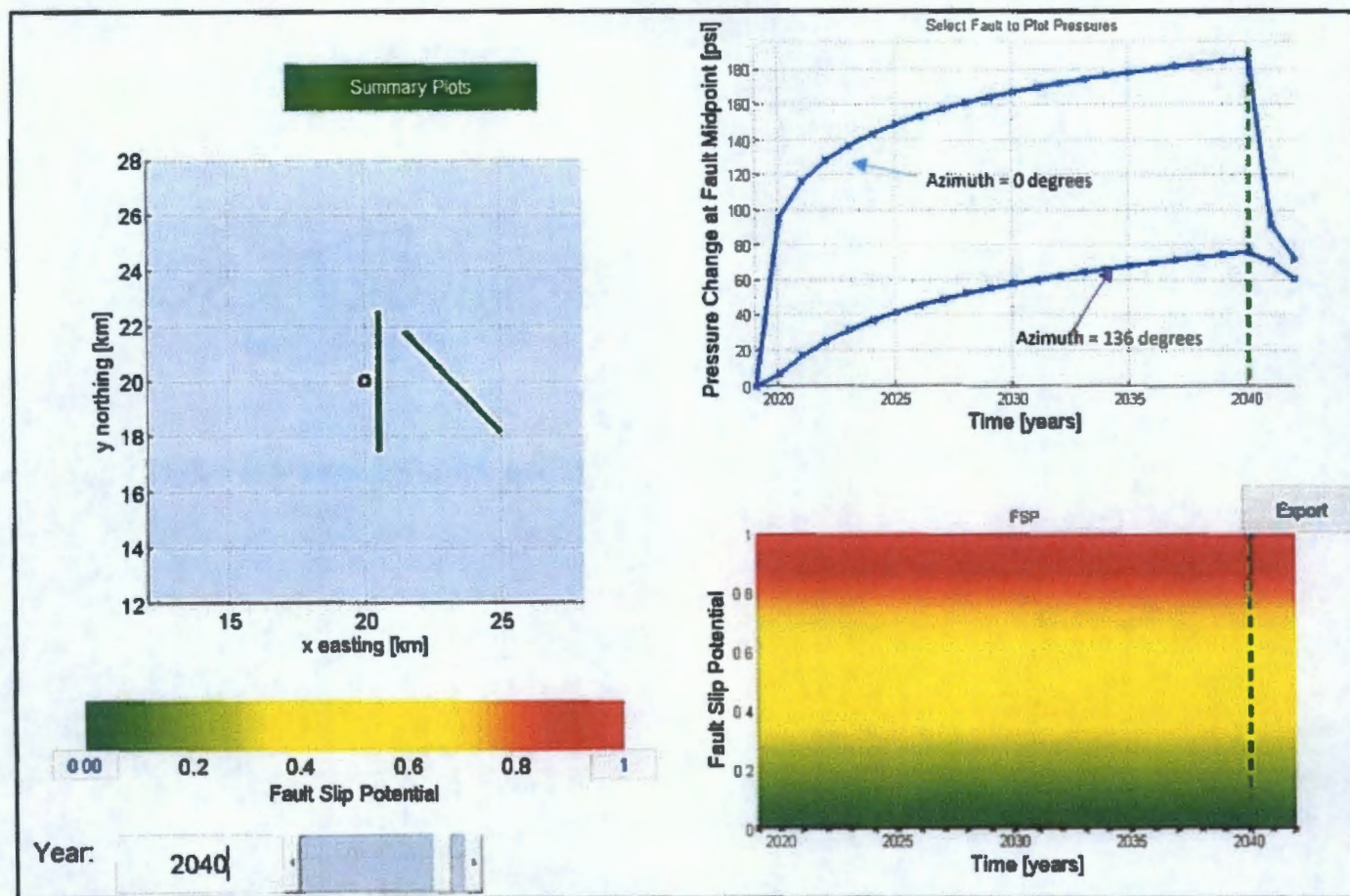


Figure 4





# FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V17]

DATE RECORD: First Rec: 11/19/18 Admin Complete: 11/19/18 or Suspended: 11/19/18 Add. Request/Reply: FSP/  
 ORDER TYPE: WFX / PMX / SWD Number: 1854 Order Date: 06/17/19 Legacy Permits/Orders: None Solaris well

Well No. 1 Well Name(s): Poker Lake Unit 36 DTD State SWD  
 API: 30-0 15-45237 Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)  
 Footages: 660 FUL / 660 FEL Lot: — or Unit A Sec 36 Tsp 24S Rge 30E County Eddy  
 General Location: West of Big Sinks, 14.6m east of Mahaga Pool: SWD; Silurian-Devonian Pool No.: —  
 BLM 100K Map: Jel Operator: XTO Permian Operating LLC OGRID: 373075 Contact: Tracie Cherry / XTO  
 COMPLIANCE RULE 5.9: Total Wells: 762 Inactive: 7 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 06/17/19  
 WELL FILE REVIEWED ☒ Current Status: APD approved; rig waiting  
 WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: —  
 Planned Rehab Work to Well: None-new well; \* operator transferred during

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Surface	24 / 18 5/8	0 to 960	Stage Tool	1570
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	17 1/2 / 17 1/2	0 to 4100	—	3505
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	12 1/4 / 9 5/8	0 to 12,100	Yes (?)	2300
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	Prod/Liner	8 1/2 / 7	11,800 to 16,800	—	745
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Liner	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	OH/ PERF	6	16,800 to 17,900	Inj Length 1100	—

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			Mississippian	16243
Confining Unit: Litho. Struc. Por.		160' + top	Woodford sh	16619
Proposed Inj Interval TOP:		16800	Devonian	16778
Proposed Inj Interval BOTTOM:		17900	Silurian	
Confining Unit: Litho. Struc. Por.		± 20'	Montoya sand	17921
Adjacent Unit: Litho. Struc. Por.				

Completion/Operation Details:	
Drilled TD	— PBDT —
NEW TD	17900 NEW PBDT —
NEW Open Hole	<input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Tubing Size	4.5 x 3.5 in. Inter Coated? <u>Yes</u>
Proposed Packer Depth	16800 ft
Min. Packer Depth	16700 (100-ft limit)
Proposed Max. Surface Press.	3360 psi
Admin. Inj. Press.	3360 (0.2 psi per ft)

### AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? — BLM Sec Ord No WIPP No Noticed? — Salt/Salado T: 1253B: 4018 NW: Cliff House fm  
 USDW: Aquifer(s) Alluvial / Rustler / Dargatz Max Depth < 500 HYDRO AFFIRM STATEMENT By Qualified Person ☒  
 NMOSE Basin: Carlsbad CAPITAN REEF: thru — adj — NA ☒ No. GW Wells in 1-Mile Radius? 0 FW Analysis? NA  
 Disposal Fluid: Formation Source(s) Permian (WC/BS/PMG) Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐  
 Disposal Interval: Inject Rate (Avg/Max BWPD): 30000/40000 Protectable Waters? No Source: Historical System Closed or Open  
 HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Mudlog required 2-Mi Radius Pool Map No  
 AOR Wells: 1/2-M ☒ or ONE-M ☐ RADIUS MAP/WELL LIST: Total Penetrating Wells: 0 [AOR Hor: — AOR SWDs: —]  
 Penetrating Wells: No. Active Wells 0 No. Corrective? — on which well(s)? — Diagrams? —  
 Penetrating Wells: No. P&A Wells 0 No. Corrective? — on which well(s)? — Diagrams? —  
 Induced-Seismicity Risk Assess: analysis submitted ☒ historical/catalog review ☒ fault-slip model ☒ probability low  
 NOTICE: 1/2-M ☒ or ONE-M ☐ : Newspaper Date 09/25/18 Mineral Owner\* SLO Surface Owner SLO N. Date 09/25/18  
 RULE 26.7(A): Identified Tracts? Yes Affected Persons\*: [BOPCO]; BLM; SLO \*DK Forms noticed 09/25/18  
 \* new definition as of 12/28/2018 [any the mineral estate of United States or state of New Mexico; SWD operators within the notice radius]

Order Conditions: Issues: Solaris / Yellow Jacket Fed SWD#1 - withdrawn; cement on intermediate 95/8  
 Additional COAs: Circulate cement on 95/8; mudlog with picks; cmt not circulate - CBL & district notice  
RH Pressure: CRI for liner

## Goetze, Phillip, EMNRD

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**From:** Goetze, Phillip, EMNRD  
**Sent:** Monday, February 11, 2019 10:06 AM  
**To:** Cherry, Tracie  
**Cc:** McMillan, Michael, EMNRD; 'Tyrrell, Timothy'; Jones, William V, EMNRD  
**Subject:** Overlap of Radius of Influence: Poker Laker Unit 36 DTD State SWD No. 1  
**Attachments:** XTO Devonians\_PLU\_36 DTD State SWD #1.pdf

Poker Laker Unit 36 DTD State SWD No. 1; 30-015-45237; Appl. No. pLEL1832553557

Tracie:

While doing the AOR review for this application, I identified an earlier pending application by Solaris that significantly overlaps the PLU 36 DTD State No. 1. The application description is as follows:

9/20/2018	pMAM1826357368	30-015-Pending	Yellowjacket Fed SWD #1	Solaris
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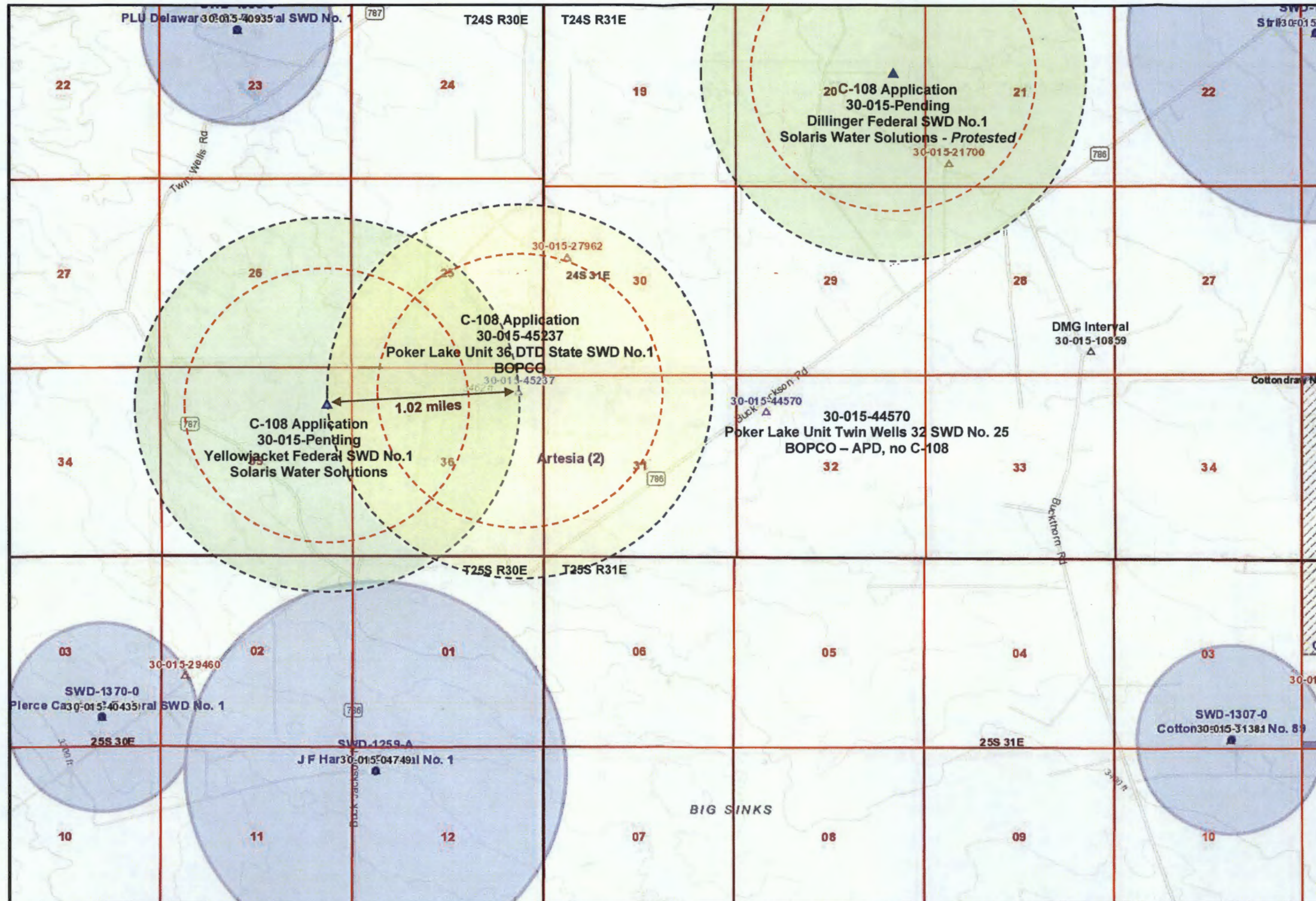
The location of the two proposed wells is approximately 1.02 miles apart (see attachment). Solaris' application is dated September 20, 2018, which predates BOPCO's application which was received November 19, 2018. Following the protocols established for selecting competing applications, Solaris' application would be processed while BOPCO's would be denied for being too close. Please discuss this situation with your management, but the Division will not be able to administratively issue a SWD order for the Poker Laker Unit 36 DTD State SWD No. 1. Please contact me with any questions regarding this application or the content of this e-mail. PRG

Phillip Goetze, PG  
Engineering Bureau, Oil Conservation Division  
New Mexico Energy, Minerals and Natural Resources Department  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Direct: 505.476.3466  
E-mail: [phillip.goetze@state.nm.us](mailto:phillip.goetze@state.nm.us)





**Pending Application for High-Volume Devonian Disposal Well**  
**C-108 Applications for Poker Lake Unit Area (T24/25S, R30/31E) – BOPCO LP [XTO Energy, Inc.]**



**Poker Lake Unit 36 DTD State SWD No. 1; BOPCO LP ["PLU Dog Town Draw 36 SWD"]**

API 30-015-45237; APD identifies well as disposal well; C-108 application pending

**Yellowjacket Federal SWD No. 1; Solaris Water Midstream LLC**

API 30-015-Pending; A-Sec 35-24S-30E / 1069 FNL & 660 FEL Application No. pMAM1826357368; p C-108 application pending

**Dillinger Federal SWD No. 1; Solaris Water Midstream LLC**

API 30-015-Pending; Application No. pMAM1826355651; protested by XTO Energy and NGL Water Solutions

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

**District IV**

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

**Change of Operator**

Form C-145  
Revised May 19, 2017

Permit 265951

**HOBBS OCD****MAY 02 2019****RECEIVED****Previous Operator Information**

OGRID: 260737  
Name: BOPCO, L.P.  
Address: 6401 Holiday Hill Rd  
Bldg 5  
City, State, Zip: Midland, TX 79707

**New Operator Information**

Effective Date: Effective on the date of approval by the OCD  
OGRID: 373075  
Name: XTO PERMIAN OPERATING LLC.  
Address: 6401 HOLIDAY HILL ROAD  
BUILDING 5  
City, State, Zip: MIDLAND, TX 79707

I hereby certify that the rules of the Oil Conservation Division ("OCD") have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Additionally, by signing below, XTO PERMIAN OPERATING LLC. certifies that it has read and understands the following synopsis of applicable rules.

PREVIOUS OPERATOR certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells being transferred are either (1) in compliance with 19.15.17 NMAC, (2) have been closed pursuant to 19.15.17.13 NMAC or (3) have been retrofitted to comply with Paragraphs 1 through 4 of 19.15.17 11(I) NMAC.

**XTO PERMIAN OPERATING LLC. understands that the OCD's approval of this operator change:**

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.



**Goetze, Phillip, EMNRD**

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**From:** McMillan, Michael, EMNRD  
**Sent:** Monday, February 25, 2019 3:07 PM  
**To:** Goetze, Phillip, EMNRD  
**Subject:** FW: Yellow Jacket Fed SWD #1\_C-108 Withdraw  
**Attachments:** Yellow Jacket Fed SWD #1\_C-108 withdraw letter.pdf

**From:** Whitney McKee <whitney.mckee@solarismidstream.com>  
**Sent:** Thursday, February 21, 2019 1:30 PM  
**To:** McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>  
**Cc:** Drew Dixon <drew.dixon@solarismidstream.com>; Matt Garlington <matt.garlington@solarismidstream.com>  
**Subject:** [EXT] Yellow Jacket Fed SWD #1\_C-108 Withdraw

Mr. McMillan,

Attached is a letter stating that Solaris Water Midstream, LLC wishes to formally withdraw the C-108 application for Yellow Jacket Fed SWD #1. If anything else is needed to withdraw this application please let me know.

Thank you,

Whitney McKee  
Solaris Water Midstream  
432-203-9020 ext. 9005



February 21, 2019

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

Attention: Michael McMillian

Re: Yellow Jacket Fed SWD #1

Mr. McMillian

Solaris Water Midstream, LLC would like to officially withdraw the C-108 application for Yellow Jacket Fed SWD #1 dated August 29, 2018.

Thank you,  
Whitney McKee

A handwritten signature in black ink, appearing to read "Whitney B. McKee", is written over the printed name.

Solaris Water Midstream, LLC  
432-203-9020 ext. 9005



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)			
	1				C-3960			
	WELL OWNER NAME(S)				PHONE (OPTIONAL)			
	BUREAU OF LAND MANAGEMENT							
WELL OWNER MAILING ADDRESS				CITY		STATE		ZIP
620 E. GREENE STREET				CARLSBAD		NM		88220
WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
	LATITUDE		32	12				
WELL LOCATION (FROM GPS)	LONGITUDE		103	53	511 30.14 W			
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SECTION 21 TOWNSHIP 24 S. RANGE 30 S.							
2. DRILLING & CASING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	WD-1753		JACOBO FRIESSEN			VANGUARD WATER WELLS		
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)	
	11-12-16		11-12-16		475		475	
	COMPLETED WELL IS:		<input type="checkbox"/> ARTESIAN		<input type="checkbox"/> DRY HOLE		<input checked="" type="checkbox"/> SHALLOW (UNCONFINED)	
	DRILLING FLUID:		<input type="checkbox"/> AIR		<input checked="" type="checkbox"/> MUD		ADDITIVES - SPECIFY:	
	DRILLING METHOD:		<input checked="" type="checkbox"/> ROTARY		<input type="checkbox"/> HAMMER		<input type="checkbox"/> CABLE TOOL	
							<input type="checkbox"/> OTHER - SPECIFY:	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASINO MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0	250	11	STEEL BLANK	THREAD	6	.322		
250	290	11	STEEL SCREEN	THREAD	6	.25	.030	
290	395	11	STEEL BLANK	THREAD	6	.322		
395	435	11	STEEL SCREEN	THREAD	6	.25	.030	
435	475	11	STEEL BLANK	THREAD	6	.322		
3. ANNULAR MATERIAL		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT			
DEPTH (feet bgl)	FROM					TO		
	0	20	11	CONCRETE	9	POURED		
	20	220	11	3/8 GRAVEL	93	POURED		
	220	310	11	SILCA SAND	41	POURED		
	310	370	11	3/8 GRAVEL	28	POURED		
	370	475	11	SILCA SAND	48	POURED		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3960	POD NUMBER	1	TRN NUMBER	588952
LOCATION	24.30.21.231				PAGE 1 OF 2

STATE OF NEW JERSEY  
ROSELLE, NEW JERSEY  
2016 NOV 17 PM 3:53

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	C-3960	POD NUMBER	4
LOCATION	2A.30.21.23	TRN NUMBER	588952
			PAGE 2 OF 2

## WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

## Section 1


(Plat of 640 acres)

(A) Owner of well Buck Jackson  
Street and Number Box 671  
City Pecos State Texas  
Well was drilled under Permit No. C-1379 and is located in the  
SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  of Section 10 Twp. 25 Rge. 30E  
(B) Drilling Contractor Emmett Barron License No. WD 30  
Street and Number 307 South 10th St.  
City Carlsbad State N. Mex.  
Drilling was commenced January 22 19 68  
Drilling was completed March 20 19 68

Elevation at top of casing in feet above sea level \_\_\_\_\_ Total depth of well 400  
State whether well is shallow or artesian shallow Depth to water upon completion none

## Section 2

## PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1				
2				None Dry sand
3				
4				
5				

## Section 3

## RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7" OD	26	10	1	265	265	None	None	None
			All 7" Casing pulled from well					
			Dry Hole					

## Section 4

## RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				
		None			

## Section 5

## PLUGGING RECORD

Name of Plugging Contractor \_\_\_\_\_ License No. \_\_\_\_\_  
Street and Number \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

## LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

*Emmett Barrow*  
Well Driller