

**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**      **NM OIL CONSERVATION**      Form C-101  
**Energy Minerals and Natural Resources**      **ARTESIA DISTRICT**      Revised July 18, 2013

**Oil Conservation Division**      **AUG 30 2018**      **AMENDED REPORT**

**1220 South St. Francis Dr.**      **RECEIVED**

**Santa Fe, NM 87505**

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

Operator Name and Address <b>BOPCO, L.P.</b> 6401 Holiday Hill Road, Bldg 5 Midland, Texas 79707		OGRID Number 260737
Property Code <b>322316</b>		API Number 30-015- <b>45222</b>
Property Name <b>James Ranch Unit 4 State SWD</b>		Well No. <b>1</b>

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
3	4	22S	30E		200	North	1760	West	Eddy

**8. Proposed Bottom Hole Location**

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

**9. Pool Information**

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

Work Type <b>N</b>	Well Type <b>S</b>	Cable/Rotary <b>R</b>	Lease Type <b>S</b>	Ground Level Elevation <b>3155</b>
Multiple <b>16</b>	Proposed Depth <b>15780</b>	Formation <b>Montoya</b>	Contractor <b>19</b>	Spud Date <b>20</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

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	24	18-5/8"	87.5	300	580sx	0'
Inter 1	17-1/2"	13-3/8"	68	3300	2415sx	0'
Production	12-1/4"	9-5/8"	53.5	10885	3710sx	0'

**Casing/Cement Program: Additional Comments**

Liner: 8-1/2" Hole, 7" 32# csg set fr/10585-14,750' w/880sx cmt. TOC: 10585'

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
5M Double Ram	5000	5000	Cameron

**23.** 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: *Stephanie Rabadue*

Printed name: **Stephanie Rabadue**

Title: **Regulatory Coordinator**

E-mail Address: **stephanie\_rabadue@xtoenergy.com**

Date: **08/06/2018**

Phone: **432-620-6714**

**OIL CONSERVATION DIVISION**

Approved By:

*Raymond W. Podany*

Title: **Geologist**

Approved Date: **8-31-18**

Expiration Date: **8-31-20**

Conditions of Approval Attached

**Approved C-108**

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**NM OIL CONSERVATION**  
ARTESIA DISTRICT

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

APR 30 2018

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

RECEIVED

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-015-45222</b>	<sup>2</sup> Pool Code 96101	<sup>3</sup> Pool Name Devonian; SWD
<sup>4</sup> Property Code <b>322316</b>	<sup>5</sup> Property Name JAMES RANCH UNIT 4 STATE SWD	
<sup>7</sup> OGRID No. 260737	<sup>8</sup> Operator Name BOPCO, L.P.	<sup>6</sup> Well Number 1
		<sup>9</sup> Elevation 3153'

<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
<b>C</b> 3	4	22 S	30 E		200	NORTH	1,760	WEST	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 0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.					

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.

<sup>16</sup> SEC. 32	SEC. 33 T-21-S R-30E 200 S.M.L. 1760' A B SEC. 4 D C T-22-S R-30E	SEC. 34          SEC. 3
SEC. 5		
SEC. 8  GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 519,846.2 X= 637,189.2 LAT.= 32.427836°N LONG.= 103.888705°W  CORNER COORDINATES TABLE NAD 27 NME A - Y= 519,842.8 N, X= 635,428.7 E B - Y= 519,847.7 N, X= 638,102.2 E C - Y= 517,189.9 N, X= 638,109.8 E D - Y= 517,198.0 N, X= 635,435.1 E	SEC. 9  GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 519,708.9 X= 678,370.4 LAT.= 32.427957°N LONG.= 103.889201°W  CORNER COORDINATES TABLE NAD 83 NME A - Y= 519,903.5 N, X= 676,609.9 E B - Y= 519,908.4 N, X= 679,283.4 E C - Y= 517,260.5 N, X= 679,291.1 E D - Y= 517,258.8 N, X= 676,618.4 E	SEC. 10
<sup>17</sup> 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. <u>Stephanie Rabadue</u> 08/23/2018 Signature Date <b>Stephanie Rabadue</b> Printed Name <u>stephanie_rabadue@xtoenergy.com</u> E-mail Address		
<sup>18</sup> 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.  8-23-2018 Date of Survey Signature and Seal of Professional Surveyor:   MARK DILLON HARP 23786 Certificate Number AI 2017091486		

Rev 8-31-18

## JRU 4 State SWD #1

*Proposed SWD Schematic (Aug 2, 2018)*

County: Eddy

SHL: 1760' FNL, 200' FWL  
Sec 4, T 22S, R 30E

BHL: 1760' FNL, 200' FWL  
Sec 4, T 22S, R 30E



AFE #  
XTO ID #

API #      TBD  
Elevation      3155'  
Rig:      TBD (RKB ~30')

TVD	Geology	Casing & Cement	Wellhead	Hole Size	General Notes
		<i>Tail (100% OH excess)</i> 580 sx 14.8ppg class C Top of Tail @ 0'		24"	
		<b>18-5/8" 87.5# J-55 BTC</b>		<b>300' MD</b>	
384'	Top Salt	<i>Lead (75% OH excess)</i> 1900 sx 12.8ppg Poz/Class C Top of Lead @ 0'		17-1/2"	
		<i>Tail (75% OH excess)</i> 515 sx 14.8ppg Class C Top of Tail @ 2800'			
3,229'	Base Salt	<b>13-3/8" 68# J-55 BTC</b>		<b>3300' MD</b>	
3,499'	Delaware Mountain	<i>Stg 2 Lead (100% OH excess)</i> 715 sx 11.5ppg Poz/H Top of Lead @ 0'		12-1/4"	
3,569'	Bell Canyon	<i>Stg 2 Tail (100% OH excess)</i> 425 sx 14.8ppg Poz/H Top of Tail @ 2800'			ECP/DV Tool @ 3700' MD
7,289'	Bone Spring	<i>Stg 1 Lead (100% OH excess)</i> 2000 sx 12.9ppg Poz/H Top of Lead @ 3700'			
10,394'	Wolfcamp	<i>Stg 1 Tail (100% OH excess)</i> 570 sx 14.4ppg Poz/H Top of Tail @ 9800'			TOL @ 10585' MD
10,785'	Wolfcamp B	<b>9-5/8" 53.5# P-110 BTC</b>		<b>10885' MD</b>	
11,370'	Cisco			8-1/2"	
11,889'	Strawn				
12,097'	Atoka	<i>Tail (100% OH excess)</i> 880 sx 14.5ppg Poz/H Top of Tail @ 10585'			
12,677'	Morrow				
13,427'	Barnett				
14,009'	Mississippian				
14,559'	Woodford				
14,735'	Devonian	<b>7" 32# P-110 BTC</b>		<b>14750' MD</b>	
15,266'	Fusselman			6"	
15,839'	Montoya	Open Hole to TD	15780' MD		

**Approvals (not required for planning schematics)**

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

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

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

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



XTO Energy Inc.  
EMHC.W4.4A.375  
22777 Springwoods Village Pkwy  
Spring TX 77389-1425  
832-625-4032 - Direct Phone

July 12, 2018

Intrepid Potash-New Mexico, LLC  
707 17<sup>th</sup> Street, Suite 4200  
Denver, Colorado 80202

Re: James Ranch Unit 4 State SWD #1  
1760' FWL, 200' FNL  
Section 4: NE/4NW/4; T22S-R30E  
Eddy County, NM

Gentlemen:

XTO Permian Operating, LLC (XTO), successor in interest to BOPCO, L.P., proposes to drill the captioned well (the Well) at a location being 200' FNL and 1760' FWL in Section 4: NE/4NW/4 of T22S-R30E Eddy Co, New Mexico, and as further described in its New Mexico Oil Conservation Division application for permit to drill (APD) dated January 3, 2018. The Well will serve produced water disposal needs of its James Ranch Unit area operations.

This letter will confirm that Intrepid Potash-New Mexico, LLC (Intrepid) does not object, under State of New Mexico, Energy, Minerals and Natural Resources Department Oil Conservation Commission (OCD) Order R-111-P or otherwise, to the drilling of the Well at the location specified, and in the manner described in the APD for the Well.

Intrepid's non-objection, shall not be construed as an assumption of any risks of any release of oil or gas or other substance from the Well into the environment, including into underground mine workings, arising out of or attributable to XTO's drilling, operation, plugging and abandoning of the Well, or of the effect on the Well of any condition created by existing or future potash mining.

If you are in agreement with the foregoing please sign in the space provided below and return two (2) executed originals of this letter to the undersigned at the letterhead address. XTO will then provide the OCD with one of the originals as part of the final permitting of the Well.

An ExxonMobil Subsidiary

If you have any questions you wish to discuss please give me a call at (832) 625-4032, or alternatively I can be reached at kenneth\_hilger@xtoenergy.com.

Sincerely,



Kenneth Hilger, CPL  
Division Landman  
XTO Energy Inc

Accepted this 13<sup>th</sup> day of July, 2018;

BY: **Intrepid Potash-New Mexico, LLC**

Name: 

Printed Name: Kevin Ryan

Title: Director of Technical Services