

# NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-101  
Revised July 18, 2013

## 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

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

OCT 09 2018

RECEIVED ☐ AMENDED REPORT

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

Operator Name and Address		OGRID Number
BOPCO, L.P.		260737
6401 HOLIDAY HILL ROAD, MIDLAND, TX 79707		API Number 30-015-45315
Property Code	Property Name	Well No.
312176	LOS MEDANOS 36-23-30 STATE	801H

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	36	23 S	30 E		321'	SOUTH	1,214'	WEST	EDDY

#### \* Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	36	23 S	30 E		150'	NORTH	330'	WEST	EDDY

#### 9. Pool Information

WILDCAT; BONE SPRING	Pool Name WC-015-60652330360	Pool Code 979441
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#### Additional Well Information

Work Type NW	Well Type OIL	Cable/Rotary R	Lease Type STATE	Ground Level Elevation 3,412'
Multiple 15898'	Proposed Depth 15898'	Formation 3rd BONE SPRING SHALE	Contractor	Spud Date 12/01/18
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

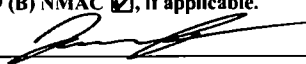
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	550	512	0'
Int1	12.25	9.625	40	3825	1336	650'
Prod	8.75	5.5	17	15898	2239	0'

#### Casing/Cement Program: Additional Comments

Prod: 8 3/4" hole fr/0-10913'. 8 1/2" hole 10913'-15898'. 5 1/2" P-110 csg will be run fr/0-15898'

#### 22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
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: 

Printed name: Joseph Parker

Title: Regulatory Coordinator

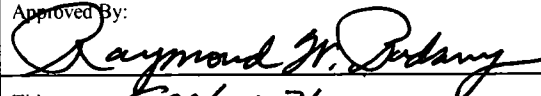
E-mail Address: joseph\_parker@xtoenergy.com

Date: 10/8/18

Phone: 432-571-8233

#### OIL CONSERVATION DIVISION

Approved By:



Title: Geologist

Approved Date: 10-10-18

Expiration Date: 10-10-20.

Conditions of Approval Attached

This well is located on the Black Jack DI.

DDA: Submitted and approved with the BLM.

OCT 09 2018

Form C-102

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

RECEIVED

Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT *WL-0156-063233036D*

<sup>1</sup> API Number 30-015-45315	<sup>2</sup> Pool Code 97944	<sup>3</sup> Pool Name WILDCAT; BONE SPRING
<sup>4</sup> Property Code 312176	<sup>5</sup> Property Name LOS MEDANOS 36-23-30	<sup>6</sup> Well Number 801H
<sup>7</sup> OGRID No. 260737	<sup>8</sup> Operator Name BOPCO, L.P.	<sup>9</sup> Elevation 3,412'

<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
M	36	23 S	30 E		321	SOUTH	1,214	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
D	36	23 S	30 E		150	NORTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. 151
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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><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>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>Signature: <i>[Signature]</i> Date: 9/14/18</p> <p>JOSEPH PARKER</p> <p>Printed Name</p> <p>JOSEPH_PARKER@XTOENERGY.COM</p> <p>E-mail Address</p>	
<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>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>09-05-2018</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <i>[Signature]</i></p> <p>MARK DILLON HARP 23786</p> <p>Certificate Number</p>				<p><b>MARK DILLON HARP</b></p> <p>NEW MEXICO</p> <p>23786</p> <p>PROFESSIONAL SURVEYOR</p> <p>JC/AW 2018081968</p>	

*RWP 10-10-18*

Intent ☒ As Drilled ☐

OCT 09 2018

API # <b>30-01545315</b>		<b>RECEIVED</b>	
Operator Name: <b>BOPCO, L.P.</b>		Property Name: <b>LOS MEDANOS 36-23-30 STATE</b>	Well Number <b>801H</b>

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	36	23 S	30 E		321	SOUTH	1,214	WEST	EDDY
Latitude <b>32.255046</b>					Longitude <b>-103.839018</b>			NAD <b>83</b>	

**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	36	23 S	30 E		150	SOUTH	330	WEST	EDDY
Latitude <b>32.254568</b>					Longitude <b>-103.841878</b>			NAD <b>83</b>	

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	36	23 S	30 E		150	NORTH	330	WEST	EDDY
Latitude <b>32.268269</b>					Longitude <b>-103.841934</b>			NAD <b>83</b>	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name: <b>BOPCO, L.P.</b>		Property Name: <b>LOS MEDANOS 36-23-30</b>	Well Number <b>401H</b>

KZ 06/29/2018

**NM STATE DRILLING PERMITTING**

**Los Medanos 36-23-30 801H**

KB 3432		Deepest TVD		10499		KOP		9955		End of Curve		10913		Measured depth		15898	
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Skcs Cement	TOC					
Surface	FW/Native	8.5 - 10.0	17.5	13.375	J-55 LTC	54.5	0	550	223	289	512	0					
Intermediate	Brine	9.0-10.3	12.25	9.625	J-55 LTC	40	0	3825	803	377	1180	650					1st Stage
DV Tool								650	139	17	156	0					2nd Stage
Production	FW/Cut Brine	9.0-10.5	8-3/4" to EOC	5.5	P110 BTC	17	0	15898	1131	1108	2239	650					
	Cut Brine	9.3	8-1/2" to TD														

**Max Expected Surface Pressure**  
2768

**BOP**  
Cameron SM Double Ram BOP  
Test Pressure 5000

**Total Vertical Section** 4985

**Contingencies**

1. Once 9-5/8" casing is set, should wellbore stability become an issue before reaching the end of curve, 7" csg will be set, and the wellbore will resemble the 4-string design attached.
2. In either design, OBM may be used in production hole if production hole becomes unstable while drilling with WBM
3. DV Tool may be set in 9-5/8" fr/ 600' - 2000'
4. If cmt is not circulated to surface on 5.5" casing, it will be brought at least 500' into Intermediate shoe

## 4 STRING CONTINGENCY

### NM STATE DRILLING PERMITTING

Los Medanos 36-23-30 801H

KB 3432		Deepest TVD		10499	KOP		9955	End of Curve		10913	Measured depth		15898
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Sks Cement	TOC	
Surface	FW/Native	8.5 - 10.0	17.5	13.375	J-55 LTC	54.5	0	550	238	237	475	0	
1st Intermediate	Brine	9.0-10.3	12.25	9.625	J-55 LTC	40	0	3825	967	120	1088	0	
2nd Intermediate (Contingency*)	FW/Native	9.0-10.3	10.875	7	P110 BTC	32	0	10913	2417	125	2542	0	
Production	FW/Cut Brine	9.5-10.5	6	4.5	P110 BTC	13.5	9955	15898	0	710	710	10413	
	OBM	9.3	6										

Max Expected Surface Pressure  
2768

BOP  
Cameron 5M Double Ram BOP  
Test Pressure 5000

Total Vertical Section 4985

#### Contingencies

1. Requesting Exception to not get cmt to surface if 7" production string is set. Cement will be brought 500' in intermediate Shoe if not circulated to surface
2. 7" csg may be set between KOP and Landing Point
3. DV Tool may be set in 9-5/8" fr/ 600' - 2000'
4. 4.5" liner will be brought kick-off point or 300' above end of 7" (Whichever is higher)