

**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**

**NM OIL CONSERVATION**  
**ARTESIA DISTRICT**

Form C-101  
Revised July 18, 2013

OCT 09 2018

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

AMENDED REPORT  
**RECEIVED**

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

1. Operator Name and Address <b>BOPCO, L.P.</b> <b>6401 HOLIDAY HILL ROAD, MIDLAND, TX 79707</b>		2. OGRID Number <b>260737</b>
3. Property Code <b>312176</b>		4. API Number <b>30-015-45311</b>
5. Property Name <b>LOS MEDANOS 36-23-30 STATE</b>		6. Well No. <b>401H</b>

**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		382'	SOUTH	1,215'	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
D	36	23 S	30 E		150'	NORTH	330'	WEST	EDDY

**9. Pool Information**

Pool Name <b>WILDCAT; BONE SPRING NC-015-G-06 5233036D</b>	Pool Code <b>97944</b>
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**Additional Well Information**

11. Work Type <b>NW</b>	12. Well Type <b>OIL</b>	13. Cable/Rotary <b>R</b>	14. Lease Type <b>STATE</b>	15. Ground Level Elevation <b>3,411'</b>
16. Multiple	17. Proposed Depth <b>14006'</b>	18. Formation <b>LOWER AVALON SHALE</b>	19. Contractor	20. Spud Date <b>12/01/18</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
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	14006	2009	0'

**Casing/Cement Program: Additional Comments**

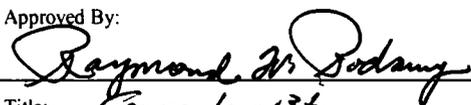
Prod: 8 3/4" hole fr/0-9022'. 8 1/2" hole 9022'-14006'. 5 1/2" P-110 csg will be run fr/0-14006'

**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: <b>Exec / 09135</b>	
Approved Date: <b>10/10/18</b>	Expiration Date: <b>10/10/20.</b>
Conditions of Approval Attached	

This well is located on the Black Jack DI.

DDA: Submitted and approved with the BLM.

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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

OCT 09 2018

Revised August 1, 2011

Submit one copy to appropriate

RECEIVED

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015- 45311		<sup>2</sup> Pool Code 97944		<sup>3</sup> Pool Name WC-015-G065 2330 36D Bonespring	
<sup>4</sup> Property Code 312176		<sup>5</sup> Property Name LOS MEDANOS 36-23-30 STATE		<sup>6</sup> Well Number 401H	
<sup>7</sup> OGRID No. 260737		<sup>8</sup> Operator Name BOPCO, L.P.		<sup>9</sup> Elevation 3,411'	

<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		382	SOUTH	1,215	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.
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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.

<sup>16</sup>

L.T.P./B.H.L.

T29S R30E SEC.36

GRID AZ.=359°32'15"  
HORIZ. DIST.=4,984.36'

H2SU AREA

S.H.L.

T24S R30E SEC.1

GRID AZ.=254°54'42"  
HORIZ. DIST.=915.09'

F.T.P.

**<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.

9/14/18

Signature \_\_\_\_\_ Date

JOSEPH PARKER

Printed Name

JOSEPH\_PARKER@XTOENERGY.COM

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.

09-05-2018

Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number JC/AW 2018081967

RWP. 10-10-18.

OCT 09 2018

Intent  As Drilled

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API # <b>30-015-45311</b>		
Operator Name: BOPCO, L.P.	Property Name: LOS MEDANOS 36-23-30 STATE	Well Number 401H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	36	23 S	30 E		382	SOUTH	1,215	WEST	EDDY
Latitude <b>32.255212</b>					Longitude <b>-103.839016</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:	Property Name:	Well Number

KZ 06/29/2018

NM STATE DRILLING PERMITTING

Los Madanos 36-23-30 401H

KB 3432	Field Type FW/Naive Brine	Deepest TVD	Mud Weight 8.5-10.0 9.0-10.3	Hole Size 17.5 12.25	Casing Size 12.75 9.875	Casing Grade J-55 LTC J-55 LTC	KOP	8034			9072			Measured depth	
								Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Size Cement	TDC	
Surface								54.5	0	550	223	289	512	0	
Intermediate							40	0	3825	803	377	1180	650	0	
DIV Tool									650	139	17	156	0	0	
Production									14006	896	1113	2009	650	0	

Max Expected Surface Pressure  
2259

BOP  
Cameron SM Double Ram BOP  
Test Pressure 5000

Total Vertical Section

4984

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. DIV 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

**NM STATE DRILLING PERMITTING**

Los Medanos 36-23-30 401H  
K8 3432

Casing Type	Fluid Type	Deepest TVD		Hole Size	Casing Size	Casing Grade	KOP	8034		9022		Measured depth	
		Mud Weight	8568					Casing Weight	Top MD	End of Curve	Lead Cement	Tail Cement	Total Skc Cement
Surface	FW/Native Brine	8.5-10.0	12.5	13.375	J-55 LTC	J-55 LTC	54.5	0	550	238	237	475	0
1st Intermediate	FW/Native Brine	9.0-10.3	12.25	9.625	J-55 LTC	J-55 LTC	40	0	3825	967	120	1088	0
2nd Intermediate (Contingency*)	FW/Native	9.0-10.3	10.875	7	P110 BTC	P110 BTC	32	0	9022	1850	125	1975	0
Production	FW/Cut Brine OBM	9.5-10.5	6	4.5	P110 BTC	P110 BTC	13.5	8034	14006	0	713	713	8522

Max Expected Surface Pressure  
2259

BOP  
Cameron 5M Double Ram BOP  
Test Pressure 5000

Total Vertical Section 4984

**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)