

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

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

ARTESIA DISTRICT
OCT 09 2018
RECEIVED

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

Operator Name and Address BOPCO, L.P. 6401 HOLIDAY HILL ROAD, MIDLAND, TX 79707		OGRID Number 260737
Property Code 312176	Property Name LOS MEDANOS 36-23-30 STATE	Well No. 703H
API Number 30-015-45314		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	36	23 S	30 E		388'	SOUTH	2008'	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
C	36	23 S	30 E		150'	NORTH	2090'	WEST	EDDY

9. Pool Information

Pool Name WILDCAT; BONE SPRING WC-015; G-06; 32330360	Pool Code 97944
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Additional Well Information

11. Work Type NW	12. Well Type OIL	13. Cable/Rotary R	14. Lease Type STATE	15. Ground Level Elevation 3,411'
16. Multiple	17. Proposed Depth 15398'	18. Formation 2nd BONE SPRING SAND	19. Contractor	20. 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

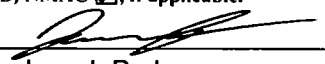
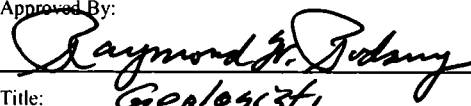
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	550	512	0'
Int1	12.25	9.625	40	3825	1336	650
Prod	8.75	5.5	17	15398	2178	0'

Casing/Cement Program: Additional Comments

Prod: 8 3/4" hole fr/0-10413'. 8 1/2" hole 10413'-15398'. 5 1/2" P-110 csg will be run fr/0-15398'
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	5000	5000	CAMERON

<p>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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/>, if applicable. Signature: </p> <p>Printed name: Joseph Parker</p> <p>Title: Regulatory Coordinator</p> <p>E-mail Address: joseph_parker@xtoenergy.com</p> <p>Date: 10/8/18</p> <p>Phone: 432-571-8233</p>	<p style="text-align: center;">OIL CONSERVATION DIVISION</p> <p>Approved By: </p> <p>Title: Geologist</p> <p>Approved Date: 10-10-18</p> <p>Expiration Date: 10-10-20</p> <p>Conditions of Approval Attached</p>
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This well is located on the Black Jack DI.

DDA: Submitted and approved with the BLM.

NM OIL CONSERVATION

ARTESIA DISTRICT

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

OCT 09 2018

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 45314	² Pool Code 97944	AC-015-406523230586D WILDCAT; BONE SPRING
⁴ Property Code 312176	⁵ Property Name LOS MEDANOS 36-23-30	
⁷ OGRID No. 260737	⁸ Operator Name BOPCO, L.P.	⁶ Well Number 703H
		⁹ Elevation 3,411'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	23 S	30 E		388	SOUTH	2,008	WEST	EDDY

¹¹ 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
C	36	23 S	30 E		150	NORTH	2,090	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

<p>¹⁶</p> <p>CORNER COORDINATES TABLE NAD 83 NME A - Y= 481,834.5 N, X= 694,232.8 E B - Y= 481,844.3 N, X= 695,578.0 E C - Y= 459,192.9 N, X= 694,253.8 E D - Y= 459,202.9 N, X= 695,592.3 E E - Y= 458,550.3 N, X= 694,270.5 E F - Y= 458,560.3 N, X= 695,608.7 E</p> <p>CORNER COORDINATES TABLE NAD 27 NME A - Y= 481,775.2 N, X= 653,049.6 E B - Y= 481,785.0 N, X= 654,392.8 E C - Y= 459,133.7 N, X= 653,070.3 E D - Y= 459,143.7 N, X= 654,409.0 E E - Y= 458,491.2 N, X= 653,087.1 E F - Y= 458,501.2 N, X= 654,425.3 E</p> <p>GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 458,942.8 X= 694,937.3 LAT.= 32.255234°N LONG.= 103.836452°W</p> <p>LAST TAKE POINT AND BOTTOM HOLE LOCATION NAD 83 NME Y= 481,690.0 X= 694,981.0 LAT.= 32.268282°N LONG.= 103.838240°W</p> <p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 458,883.8 X= 653,753.9 LAT.= 32.255111°N LONG.= 103.835965°W</p> <p>FIRST TAKE POINT NAD 27 NME Y= 458,648.7 X= 653,837.9 LAT.= 32.254459°N LONG.= 103.835897°W</p>		<p>¹⁷ OPERATOR CERTIFICATION</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>Printed Name: JOSEPH PARKER</p> <p>E-mail Address: JOSEPH_PARKER@XTOENERGY.COM</p> <p>¹⁸ SURVEYOR CERTIFICATION</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>Date of Survey: 09-05-2018</p> <p>Signature and Seal of Professional Surveyor: <i>[Signature]</i></p> <p>MARK DILLON HARP 23786 Certificate Number JC/AW 2018081971</p>
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RUP10-10-18

Intent ☒ As Drilled ☐

OCT 09 2018

API # 30-015-45314			RECEIVED		
Operator Name: BOPCO, L.P.			Property Name: LOS MEDANOS 36-23-30 STATE		
			Well Number 703H		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	36	23 S	30 E		388	SOUTH	2008	WEST	EDDY
Latitude 32.255234					Longitude -103.836452				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	36	23 S	30 E		150	SOUTH	2090	WEST	EDDY
Latitude 32.254582					Longitude -103.836184				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	36	23 S	30 E		150	NORTH	2090	WEST	EDDY
Latitude 32.268282					Longitude -103.836240				NAD 83

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: BOPCO, L.P.		Property Name: LOS MEDANOS 36-23-30
		Well Number 401H

KZ 06/29/2018

NM STATE DRILLING PERMITTING

Los Medanos 36-23-30 703H

KB 3428		Deepest TVD	10038	KOP			9445	End of Curve	10413	Measured depth			15398
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	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	15398	1069	1109	2178	650	
	Cut Brine	9.3	8-1/2" to TD										

Max Expected Surface Pressure
2646

BOP
Cameron 5M 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 703H

KB 3428

		Deepest TVD	10038	KOP		9445	End of Curve		10413	Measured depth		15398
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	10413	2267	125	2392	0
Production	FW/Cut Brine	9.5-10.5	6	4.5	P110 BTC	13.5	9445	15398	0	711	711	9913
	OBM	9.3	6									

Max Expected Surface Pressure
2646

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)