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District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

FEB 07 2019 Submit Original
to Appropriate
District Office

DISTRICT II-ARTESIA O.C.D.

GAS CAPTURE PLAN

Date: 07/19/18

☒ Original

Operator & OGRID No.: BOPCO, LP [260737]

☐ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility: Poker Lake Unit 21 BD East CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Poker Lake Unit 21 BD 108H 30-015-45700		P-21-25S-30E	530' FSL & 674' FEL	3100	Flared/Sold	
Poker Lake Unit 21 BD 128H		P-21-25S-30E	530' FSL & 704' FEL	5000	Flared/Sold	
Poker Lake Unit 21 BD 127H		P-21-25S-30E	530' FSL & 734' FEL	5000	Flared/Sold	
Poker Lake Unit 21 BD 907H		P-21-25S-30E	530' FSL & 764' FEL	2900	Flared/Sold	
Poker Lake Unit 21 BD 707H		P-21-25S-30E	530' FSL & 794' FEL	3200	Flared/Sold	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Enlink and will be connected to Enlink low/high pressure gathering system located in Loving County, Texas. It will require 658' of pipeline to connect the facility to low/high pressure gathering system. BOPCO provides (periodically) to Enlink a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BOPCO and Enlink have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enlink Processing Plant located in Block 27, Sec. 4, Loving County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enlink system at that time. Based on current information, it is BOPCO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: PLU 21 Brushy Draw
Well: 108H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well 108H
TVD Reference: RKB = 27' @ 3295.00usft
MD Reference: RKB = 27' @ 3295.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
108H: SHL (530' FSL) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,941.80	640,602.70	32.109738	-103.879229
108H: PBHL (2440' FI) - plan hits target center - Point	0.00	0.00	10,968.00	-13,613.90	348.40	390,327.90	640,951.10	32.072310	-103.878289
108H: LTP. - plan misses target center by 0.59usft at 24022.02usft MD (10968.79 TVD, -13483.90 N, 348.39 E) - Point	0.00	0.00	10,968.79	-13,483.90	347.80	390,457.90	640,950.50	32.072667	-103.878290
108H: FTP/ LP. - plan hits target center - Point	0.00	0.00	11,046.00	-858.00	347.20	403,083.80	640,949.90	32.107376	-103.878120

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
946.00	946.00	Rustler			
1,646.00	1,646.00	Top Salt			
3,638.00	3,638.00	Base Salt			
3,852.00	3,852.00	Delaware			
7,621.17	7,614.00	Bone Spring			
8,614.95	8,604.00	1st Bone Spring Ss			
9,428.04	9,414.00	2nd Bone Spring Ss			
9,761.31	9,746.00	3rd Bone Spring Lm			
10,557.40	10,539.00	3rd Bone Spring Ss			
11,048.35	10,946.00	Wolfcamp			