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

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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                 |     | 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<br>30-015-45701 |     | 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 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



**Database:** EDM 5000.1 Single User Db  
**Company:** XTO Energy  
**Project:** Eddy County, NM (NAD-27)  
**Site:** PLU 21 Brushy Draw  
**Well:** 907H  
**Wellbore:** OH  
**Design:** PERMIT

**Local Co-ordinate Reference:** Well 907H  
**TVD Reference:** RKB = 27' @ 3293.00usft  
**MD Reference:** RKB = 27' @ 3293.00usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

#### Design Targets

| Target Name<br>- hit/miss target<br>- Shape  | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| 907H: SHL (480' FSL)<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 0.00          | 0.00            | 0.00            | 403,891.20         | 640,512.60        | 32.109600 | -103.879521 |
| 907H: LTP.<br>- plan misses target center by 1.06usft at 23876.15usft MD (10818.88 TVD, -13438.51 N, -221.51 E)<br>- Point | 0.00             | 0.00            | 10,818.00     | -13,438.50      | -222.10         | 390,452.70         | 640,290.50        | 32.072661 | -103.880420 |
| 907H: PBHL (2440' FI)<br>- plan hits target center<br>- Point  | 0.00             | 0.00            | 10,818.00     | -13,568.50      | -221.50         | 390,322.70         | 640,291.10        | 32.072303 | -103.880420 |
| 907H: FTP/ LP.<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 10,904.00     | -811.50         | -222.70         | 403,079.70         | 640,289.90        | 32.107372 | -103.880251 |

#### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name               | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|--------------------|-----------|------------|-------------------------|
| 944.00                      | 944.00                      | Rustler            |           |            |                         |
| 1,644.00                    | 1,644.00                    | Top Salt           |           |            |                         |
| 3,636.00                    | 3,636.00                    | Base Salt          |           |            |                         |
| 3,850.00                    | 3,850.00                    | Delaware           |           |            |                         |
| 7,614.62                    | 7,612.00                    | Bone Spring        |           |            |                         |
| 8,608.40                    | 8,602.00                    | 1st Bone Spring Ss |           |            |                         |
| 9,421.49                    | 9,412.00                    | 2nd Bone Spring Ss |           |            |                         |
| 9,754.76                    | 9,744.00                    | 3rd Bone Spring Lm |           |            |                         |
| 10,555.05                   | 10,537.00                   | 3rd Bone Spring Ss |           |            |                         |
| 10,555.05                   | 10,537.00                   | 3rd Bone Spring Ss |           |            |                         |