

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
811 S. First St., Artesia, NM 88210

District III  
1000 Rio Brazos Road, Roswell, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Original  
to Appropriate  
District Office

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

**GAS CAPTURE PLAN**

Date: 9/28/17

☒ 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: Brushy Draw 30 & 31 Federal 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 |
|-------------------------|-----------------|-----------------------|----------------------|----------------|------------------|----------|
| Brushy Draw 30 Fed 102H |                 | M-30-25S-30E          | 330' FSL & 1175' FWL | 2530           | Flared/Sold      |          |
| Brushy Draw 30 Fed 122H |                 | M-30-25S-30E          | 330' FSL & 1205' FWL | 3960           | Flared/Sold      |          |
| Brushy Draw 30 Fed 703H |                 | M-30-25S-30E          | 330' FSL & 1145' FWL | 2530           | Flared/Sold      |          |
| Brushy Draw 30 Fed 701H |                 | M-30-25S-30E          | 330' FSL & 340' FWL  | 2530           | Flared/Sold      |          |
| Brushy Draw 30 Fed 121H |                 | M-30-25S-30E          | 330' FSL & 400' FWL  | 3960           | Flared/Sold      |          |
| Brushy Draw 30 Fed 901H | 30-015<br>45157 | M-30-25S-30E          | 330' FSL & 370' FWL  | 2300           | Flared/Sold      |          |
| Brushy Draw 30 Fed 104H |                 | N-30-25S-30E          | 330' FSL & 2010' FWL | 2530           | Flared/Sold      |          |
| Brushy Draw 30 Fed 123H |                 | N-30-25S-30E          | 330' FSL & 1980' FWL | 3960           | Flared/Sold      |          |
| Brushy Draw 30 Fed 903H |                 | N-30-25S-30E          | 330' FSL & 1950' FWL | 2300           | Flared/Sold      |          |
| Brushy Draw 30 Fed 106H |                 | O-30-25S-30E          | 330' FSL & 1615' FWL | 2530           | Flared/Sold      |          |
| Brushy Draw 30 Fed 125H |                 | O-30-25S-30E          | 330' FSL & 1585' FWL | 3960           | Flared/Sold      |          |
| Brushy Draw 30 Fed 126H |                 | O-30-25S-30E          | 330' FSL & 1555' FWL | 3960           | Flared/Sold      |          |
| Brushy Draw 31 Fed 124H |                 | B-31-25S-30E          | 223' FNL & 2344' FEL | 3960           | Flared/Sold      |          |
| Brushy Draw 31 Fed 905H |                 | B-31-25S-30E          | 223' FNL & 2284' FEL | 2300           | Flared/Sold      |          |
| Brushy Draw 31 Fed 705H |                 | B-31-25S-30E          | 2200' FNL & 600' FEL | 2530           | Flared/Sold      |          |
| Brushy Draw 31 Fed 108H |                 | H-31-25S-30E          | 2200' FNL & 600' FEL | 3960           | Flared/Sold      |          |
| Brushy Draw 31 Fed 127H |                 | H-31-25S-30E          | 2200' FNL & 660' FEL | 3960           | Flared/Sold      |          |
| Brushy Draw 31 Fed 128H |                 | H-31-25S-30E          | 2200' FNL & 631' FEL | 3960           | Flared/Sold      |          |
| Brushy Draw 31 Fed 707H |                 | H-31-25S-30E          | 2200' FNL & 720' FEL | 2530           | Flared/Sold      |          |
| Brushy Draw 31 Fed 907H |                 | H-31-25S-30E          | 2200' FNL & 690' FEL | 2300           | Flared/Sold      |          |



**Database:** EDM 5000.1 Single User Db  
**Company:** XTO Energy  
**Project:** Eddy County, NM (NAD-27)  
**Site:** Brushy Draw 30 Federal  
**Well:** #901H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #901H  
**TVD Reference:** RKB= 27' @ 3111.00usft (Unknown)  
**MD Reference:** RKB= 27' @ 3111.00usft (Unknown)  
**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   |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Brushy Dw 30 Fed. #5<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 0.00          | 0.00            | 0.00            | 398,295.40         | 625,641.10        | 32.094380 | -103.927618 |
| Brushy Dw 30 Fed. #5<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 10,456.00     | -560.00         | -36.11          | 397,735.40         | 625,604.99        | 32.092841 | -103.927742 |
| Brushy Dw 30 Fed. #5<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 10,456.35     | -660.00         | -35.60          | 397,635.40         | 625,605.50        | 32.092566 | -103.927741 |
| Brushy Dw 30 Fed. #5<br>- plan misses target center by 0.07usft at 23489.40usft MD (10499.55 TVD, -13267.90 N, 29.33 E)<br>- Point | 0.00             | 0.00            | 10,499.55     | -13,267.90      | 29.40           | 385,027.50         | 625,670.50        | 32.057907 | -103.927684 |
| Brushy Dw 30 Fed. #5<br>- plan hits target center<br>- Point                                                                       | 0.00             | 0.00            | 10,500.00     | -13,397.90      | 30.00           | 384,897.50         | 625,671.10        | 32.057549 | -103.927684 |

#### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name               | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|--------------------|-----------|------------|-------------------------|
| 743.00                      | 743.00                      | Rustler            |           |            |                         |
| 986.00                      | 986.00                      | Top Salt           |           |            |                         |
| 3,268.05                    | 3,268.00                    | Base Salt          |           |            |                         |
| 3,458.05                    | 3,458.00                    | Delaware           |           |            |                         |
| 7,220.18                    | 7,220.00                    | Bone Spring        |           |            |                         |
| 8,191.18                    | 8,191.00                    | 1st Bone Spring Ss |           |            |                         |
| 8,998.18                    | 8,998.00                    | 2nd Bone Spring Ss |           |            |                         |
| 9,305.18                    | 9,305.00                    | 3rd Bone Spring Lm |           |            |                         |
| 10,104.65                   | 10,099.00                   | 3rd Bone Spring Ss |           |            |                         |
| 10,573.36                   | 10,418.00                   | 3rd Bone Spring RH |           |            |                         |
| 21,576.87                   | 10,493.00                   | Wolfcamp           |           |            |                         |