

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

Submit Original  
to Appropriate  
District Office

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

OCD - HOBBS  
11/27/2018  
RECEIVED

**GAS CAPTURE PLAN**

Date: 10/26/18

☒ Original

Operator & OGRID No.: Centennial Resource Production, LLC #372165

☐ 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 – Sheba Pad CTB #1**

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 |
|--|---------|-----------------------|--------------------|----------------|------------------|----------|
| Solomon Federal Com 709H <b>30-025-45375</b> | Pending | O-22-24S-34E          | 300 FSL & 1505 FEL | 2930 MCF/D     | Neither          | New Well |
| Solomon Federal Com 710H                     | Pending | O-22-24S-34E          | 300 FSL & 1475 FEL | 2930 MCF/D     | Neither          | New Well |

**Well(s)/Production Facility – Sheba Pad CTB #2**

| Well Name              | API     | Well Location (ULSTR) | Footages           | Expected MCF/D | Flared or Vented | Comments |
|------------------------|---------|-----------------------|--------------------|----------------|------------------|----------|
| Sheba Federal Com 506H | Pending | O-22-24S-34E          | 300 FSL & 1785 FEL | 2220 MCF/D     | Neither          | New Well |
| Sheba Federal Com 507H | Pending | O-22-24S-34E          | 300 FSL & 1755 FEL | 2220 MCF/D     | Neither          | New Well |
| Sheba Federal Com 711H | Pending | O-22-24S-34E          | 300 FSL & 1445 FEL | 2930 MCF/D     | Neither          | New Well |

**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 Lucid Energy and will be connected to Lucid's low/high pressure gathering system located in Lea County, New Mexico. It will require 840' of pipeline to connect the facility to low/high pressure gathering system. Centennial Resource Production, LLC provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Centennial Resource Production, LLC and Lucid Energy have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Lucid's Red Hills Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. 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 Lucid's system at that time. Based on current information, it is Centennial'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
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines