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State of New Mexico  
Energy, Minerals and Natural Resources Department

MAR 20 2019  
Submit Original  
to Appropriate  
District Office

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
DISTRICT II-ARTESIA O.C.D.

GAS CAPTURE PLAN

Original Operator: Apache Corporation OGRID No: 873

Date: 8/27/2018

Amended

Date: \_\_\_\_\_

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, recomplete to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

**Well(s)/Production Facility – Name of facility**

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
Ghost Rider 22-15 Fed Com 201H		Sec 22 T24S R32E	400' FSL & 676' FEL	1,200		Flared only in emergency
Ghost Rider 22-15 Fed Com 202H		Sec 22 T24S R32E	400' FSL & 736' FEL	1,200		Flared only in emergency
Ghost Rider 22-15 Fed Com 203H		Sec 22 T24S R32E	431' FSL & 2151' FEL	1,200		Flared only in emergency
Ghost Rider 22-15 Fed Com 204H	30-025-4577	Sec 22 T24S R32E	431' FSL & 2210' FEL	1,200		Flared only in emergency

**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 GROUP** and will be connected to **LUCID'S LOW** pressure gathering system located in **LEA** County, New Mexico. It will require **5,000** ft of pipeline to connect the facility to **LOW** pressure gathering system. Apache Corporation provides (periodically) to **LUCID ENERGY GROUP** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Apache Corporation and **LUCID ENERGY GROUP** 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. 17, Twp 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 ENERGY GROUP'S** system at that time. Based on current information, it is Apache Corporation'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