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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

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GAS CAPTURE PLAN

Date: 11/12/2018

☒ Original Operator & OGRID No.: 6317
☐ 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 – North Thistle 15-10 CTB 2

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

Well Name	API	Well Location	Footages	Expected MCF/D	Flared or Vented	Comments
North Thistle 15-10 State Com1H		15-23S-33E	415 FSL & 760 FWL			Will go to N. Thistle 15-10 CTB 2
North Thistle 15-10 State Com 2H		15-23S-33E	415 FSL & 810 FWL			Will go to N. Thistle 15-10 CTB 2
North Thistle 15-10 State Com 3H	70-025-45394	15-23S-33E	475 FSL & 2615 FWL			Will go to N. Thistle 15-10 CTB 2
North Thistle 15-10 State Com4H		15-23S-33E	475 FSL & 2645 FWL			Will go to N. Thistle 15-10 CTB 2
North Thistle 15-10 State Com 5H		15-23S-33E	475 FSL & 855 FEL			Will go to N. Thistle 15-10 CTB 2
North Thistle 15-10 State Com 6H		15-23S-33E	475 FSL & 825 FEL			Will go to N. Thistle 15-10 CTB 2

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 and will be connected to Lucid low/high pressure gathering system located in Lea County, New Mexico. It will require 2600' of pipeline to connect the facility to low/high pressure gathering system. Devon Energy 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, Devon Energy and Lucid 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.34E, 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 system at that time. Based on current information, it is Devon Energy'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