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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Original to Appropriate District Office

## **GAS CAPTURE PLAN**

Date: May 30, 2018	
<ul><li>☑ Original</li><li>☐ Amended - Reason for Amendment:</li></ul>	Operator & OGRID No.: 372098 Marathon Oil Permian LLC.
This Gas Capture Plan outlines actions to be tak (new drill, recomplete to new zone, re-frac) acti	en by the Operator to reduce well/production facility flaring/venting for new completior vity.

## Well(s)/Production Facility - Name of facility

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

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 Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Cave Lion Federal 26 35 5 WA 9H		N-5-T26S-R35E	287' FSL 1841' FWL	2600	Flared	
Cave Lion Federal 26 35 5 TB 8H		N-5-T26S-R35E	287' FSL 1871' FWL	1300	Flared	
Cave Lion Federal 26 35 5 WD 10H		N-5-T26S-R35E	287' FSL 1811' FWL	1100	Flared	
Cave Lion Federal 26 35 5 WXY 6H	-025-4	N-5-T26S-R35E	287' FSL 1781' FWL	1100	Flared	

## **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 <u>Lucid Energy</u> and will be connected to <u>Lucid Energy</u>'s low/high pressure gathering system located in <u>Lea</u> County, New Mexico. It will require <u>1 mile</u> of pipeline to connect the facility to low/high pressure gathering system. <u>Marathon provides</u> (periodically) to <u>Lucid Energy</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Marathon</u> and <u>Lucid Energy</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Red Hills</u> Processing Plant located in Sec. <u>13</u>, Twn. <u>24S</u>, Rng. <u>33E</u>, <u>Lea</u> 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 Flowback system at that time. Based on current information, it is Marathon'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