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District III  
1000 Rio Brazos Road, Aztec, NM 87410  
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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

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District Office

DISTRICT II-ARTESIA O.C.D.

**GAS CAPTURE PLAN**

Date: November 7, 2018

☒ Original Operator & OGRID No.: MARATHON OIL PERMIAN, LLC  
☐ Amended - Reason for Amendment: OGRID: 372098

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**

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
Blue Steel 21 SB Fed Com 19H		A-28-T23S-R29E	1220' FNL 907' FEL	2200	Flared	
Blue Steel 21 WA Fed Com 15H		A-28-T23S-R29E	1220' FNL 937' FEL	3200	Flared	
Blue Steel 21 WA Fed Com 14H		A-28-T23S-R29E	1219' FNL 1027' FEL	3200	Flared	
Blue Steel 21 WXY Fed Com 18H		A-28-T23S-R29E	1219' FNL 967' FEL	3200	Flared	
Blue Steel 21 WXY Fed Com 12H		A-28-T23S-R29E	270' FNL 1195' FWL	3200	Flared	
Blue Steel 21 SB Fed Com 13H		A-28-T23S-R29E	1219' FNL 997' FEL	2200	Flared	
Blue Steel 21 WD Fed Com 17H		H-28-T23S-R29E	1420' FNL 878' FEL	3200	Flared	
Blue Steel 21 WD Fed Com 16H		H-28-T23S-R29E	1420' FNL 908' FEL	3200	Flared	
Blue Steel 21 WD Fed Com 11H		H-28-T23S-R29E	1420' FNL 938' FEL	3200	Flared	
Blue Steel 21 WD Fed Com 24H		H-28-T23S-R29E	1419' FNL 968' FEL	3200	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 Lucid and will be connected to Lucid's low pressure gathering system located in Lea County, New Mexico. It will require about 1 mile of pipeline to connect the facility to low pressure gathering system. Marathon 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, Marathon and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at 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 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