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 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico

Energy, Minerals and Natural Resources Department NM OIL CONSERVATION District Office

ARTESIA DISTRICT

FEB 1 3 2017

Submit Or.

to Appropri

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

GAS	CAP	TURE	PLAN
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RECEIVED

Date: February 8, 2017	
☑ Original	Operator & OGRID No.: Murchison Oil & Gas, Inc. (15363)
☐ Amended - Reason for Amendment:	
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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: 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 - Jawbone

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
Jawbone State 1H	30-015-43987	B-02-25S-26E	200 FNL 1675 FEL	2500	0	
Jawbone State 2H	30-015-43984	B-02-25S-26E	200 FNL 1695 FEL	2500	0	
Jawbone State Com 3H	30-015-43985	C-02-25S-26E	200 FNL 1895 FWL	2500	0	
Jawbone State Com 4H	30-015-43986	C-02-25S-26E	200 FNL 1875 FWL	2500	0	

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 Delaware, LLC ("Lucid") and will be connected to Lucid's low/high pressure gathering system located in Lea County, New Mexico. It will require 18,150' of pipeline to connect the facility to low/high pressure gathering system. Murchison Oil & Gas, Inc. ("Murchison") 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, Murchison 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.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 Murchison'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
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease

- o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines