NM OIL CONSERVATION

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
811 S. First St., Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
District IV

Date: 11/5/2018

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

# State of New Mexico

Energy, Minerals and Natural Resources Department 0 1 2019

Submit Original to Appropriate District Office

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

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#### GAS CAPTURE PLAN

		<b>:</b>
□ Original     □	Operator & OGRID No.:	COG Operating LLC, OGRID 229137
☐ Amended - Reason for Amendment	:	
	••	
This Gas Capture Plan outlines actions	to be taken by the Operator to re	educe 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 - 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
Howitzer Federal Con 603H	n 30-015-	A-12-24S-28E	1044' FNL & 620' FEL	2,823 MCF		Subject to Crestwood AMI.

#### **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 <a href="Crestwood Midstream">Crestwood Midstream</a>. and will be connected to <a href="Willow Lake low/high">Willow Lake low/high</a> pressure gathering system located in <a href="Reeve">Reeve</a>. County, Texas. It will require <a href="O">0</a> to an <a href="undetermined amount of feet">undetermined amount of feet</a> of pipeline to connect the facility to <a href="low/high">low/high</a> pressure gathering system. <a href="COG Operating LLC">COG Operating LLC</a> provides (periodically) to <a href="Crestwood Midstream">Crestwood Midstream</a>. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <a href="COG Operating LLC">COG Operating LLC</a> and <a href="Crestwood Midstream">Crestwood Midstream</a>. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <a href="Orla">Orla</a> Processing Plant located in <a href="Sec 19-Blk">Sec 19-Blk</a> 56, <a href="T2 Reeves">T2 Reeves</a>, <a href="County">County</a>, <a href="Texas: The actual flow of the gas will be based on compression operating parameters and gathering system pressures.">Willow</a> 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 <u>Gas Transporter</u> system at that time. Based on current information, it is <u>Operator's</u> 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
  - 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

# COG Operating, LLC - Howitzer Federal Com 603H

# 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6340 psi at 9747' TVD
Abnormal Temperature	NO 155 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present	 	
Y	H2S Plan attached		

### 8. Other Facets of Operation

Y	ls it a walking operation?
Z	Is casing pre-set?

×	H2S Plan.
×	BOP & Choke Schematics.
×	Directional Plan
X	5M Annular Variance