

# Carlsbad Field Office OCD Artesia

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM115411

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit or CA/Agreement, Name and/or No.  
NMNM126700

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.  
Multiple--See Attached

2. Name of Operator  
COG OPERATING LLC

Contact: AMANDA AVERY  
E-Mail: aavery@concho.com

9. API Well No.  
Multiple--See Attached

3a. Address  
600 W ILLINOIS AVENUE  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 575.748.6940

10. Field and Pool or Exploratory Area  
BONE SPRINGS  
WILLOW LAKE-BONE SPRING, SE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Multiple--See Attached

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Onshore Order Vari: cc
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating LLC requests permission to install a Vapor Combustor Unit (VCU) at the Really Scary Fed Com #3H tank battery. This request is due to the fact that the cost of installing and operating equipment necessary to capture the gas exceeds the value of the gas over the life of the facility. COG Operating LLC understands that the following conditions apply:

RECEIVED

JUN 06 2018

DISTRICT II-ARTESIA O.C.D.

1. COG Operating LLC may be required to provide economic justification and provide volume verification to the Authorized Officer upon request.
2. COG Operating LLC will comply with NTL-4A requirements.
3. If volume being combusted is less than 50 MCF of gas per day, it is considered unavoidably lost, therefore, no royalty obligation shall be accrued and will not be required to be reported.
  - a. Unavoidably Lost production shall mean (1) those gas vapors which are released (in this case combusted) from low-pressure storage tanks.
4. Essentially all measured combusted volumes over 50 MCF will require payment of royalties and

GC 6-6-18  
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #389794 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/13/2017 (18PP0144SE)

Name (Printed/Typed) AMANDA AVERY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 09/26/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By *J. D. W. Richard*

Title *TLPET*

Date *6/4/18*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office *CFO*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

## Additional data for EC transaction #389794 that would not fit on the form

### Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM126700	NMNM115411	REALLY SCARY FEDERAL COM	30-015-36372-00-S1	Sec 33 T24S R28E SESW 430FSL 2310FWL 32.167730 N Lat, 104.093480 W Lon
NMNM115411	NMNM115411	REALLY SCARY FEDERAL 5H	30-015-40241-00-S1	Sec 33 T24S R28E SESE 380FSL 990FEL
NMNM115411	NMNM115411	REALLY SCARY FEDERAL 6H	30-015-42863-00-S1	Sec 33 T24S R28E NWNW 360FNL 380FWL
NMNM126700	NMNM115411	REALLY SCARY FEDERAL COM	30-015-41411-00-S1	Sec 33 T24S R28E SESW 190FSL 1683FWL 22.166906 N Lat, 104.095090 W Lon
NMNM115411	NMNM115411	REALLY SCARY FEDERAL 4H	30-015-41670-00-S1	Sec 33 T24S R28E SWSE 250FSL 2293FEL 32.167068 N Lat, 104.090734 W Lon
NMNM126700	NMNM115411	FAC RLYSC3 REALLY SCARY FAC RLYSC3 REALLY SCARY		Sec 33 T24S R28E Mer NMP SESW Sec 33 T24S R28E Mer NMP SESW

### 32. Additional remarks, continued

volumes need to be reported on OGOR B reports as disposition code 08.

5. Per 43 CFR 3162.7-5(d)/Onshore Order No.3.III.I.1, site facility diagram must be submitted within 60 days of equipment installation.

6. This approval does not authorize any additional surface disturbance.

7. Subject to like approval from NMOCD.

Attached are the following:

Site Security Diagram of the current tank battery, as well as the location of the VCU and the manifold line connecting the tanks to the VCU.

Contact name and number to retrieve information on volumes being combusted.

Specification sheet(s) for the VCU.

**REALLY SCARY FEDERAL COM 3H BATTERY**  
SESW SECTION 33, T24S, R28E, UNIT N  
EDDY COUNTY, NM

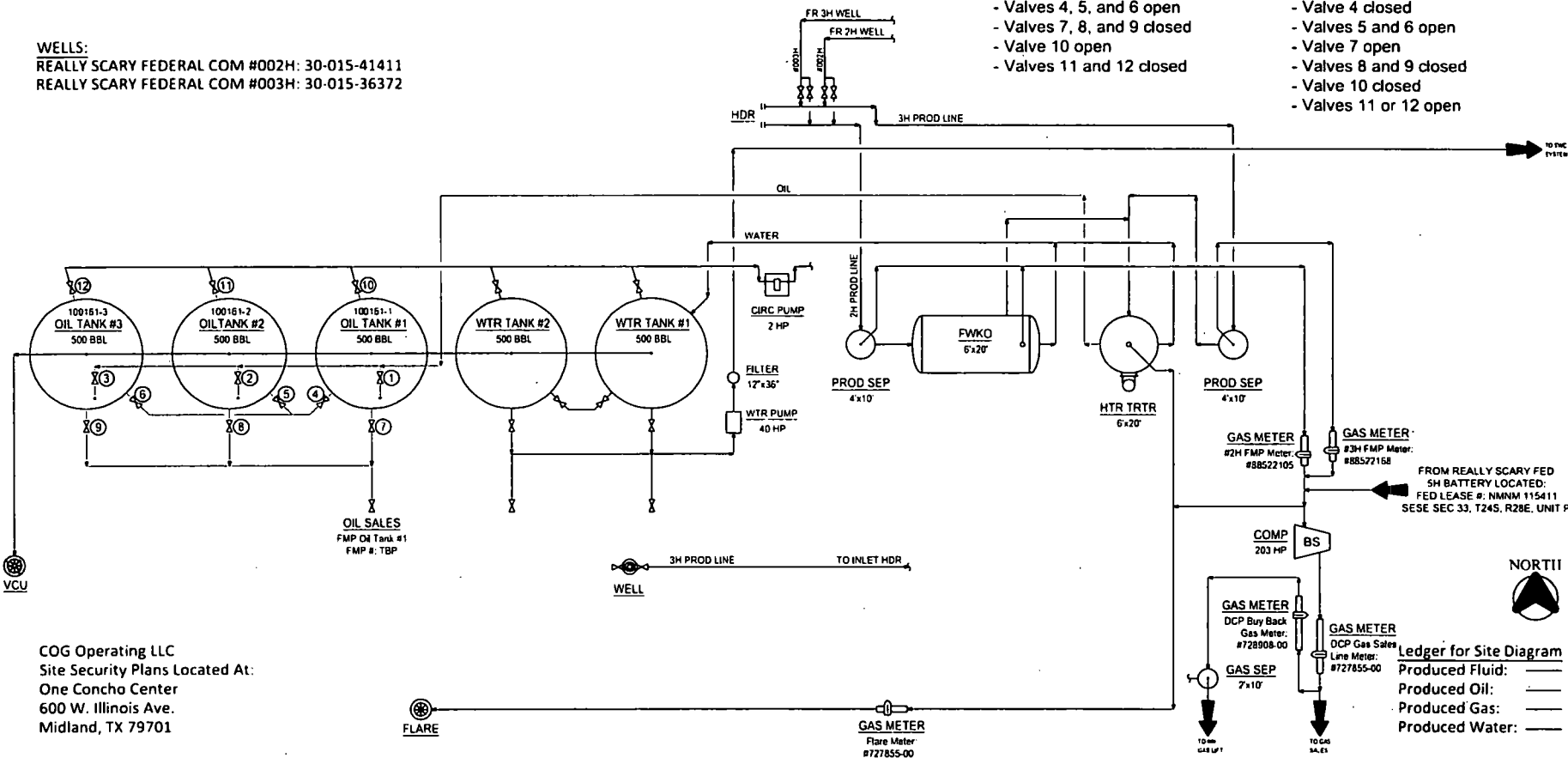
**WELLS:**  
REALLY SCARY FEDERAL COM #002H: 30-015-41411  
REALLY SCARY FEDERAL COM #003H: 30-015-36372

**Production Phase - Oil Tank #1**

- Valve 1 open
- Valves 2 and 3 closed
- Valves 4, 5, and 6 open
- Valves 7, 8, and 9 closed
- Valve 10 open
- Valves 11 and 12 closed

**Sales Phase - Oil Tank #1**

- Valve 1 closed
- Valves 2 or 3 open
- Valve 4 closed
- Valves 5 and 6 open
- Valve 7 open
- Valves 8 and 9 closed
- Valve 10 closed
- Valves 11 or 12 open



COG Operating LLC  
Site Security Plans Located At:  
One Concho Center  
600 W. Illinois Ave.  
Midland, TX 79701

FROM REALLY SCARY FED  
5H BATTERY LOCATED:  
FED LEASE #: NMNM 115411  
SESE SEC 33, T24S, R28E, UNIT P

**Ledger for Site Diagram**  
Produced Fluid: \_\_\_\_\_  
Produced Oil: \_\_\_\_\_  
Produced Gas: \_\_\_\_\_  
Produced Water: \_\_\_\_\_

**NOTES:**  
Type of Lease: Federal  
Federal Lease #: NMNM 115411  
CA/Agreement #: NMNM 126700  
Property Code: 38759  
OGRID #: 229137

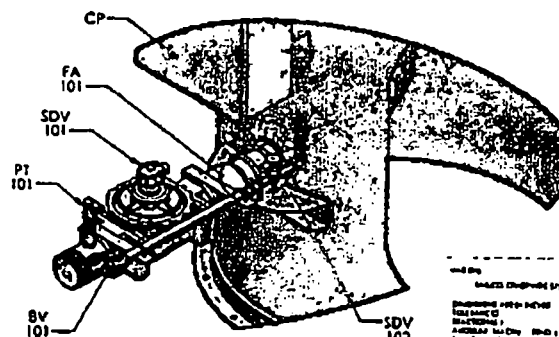
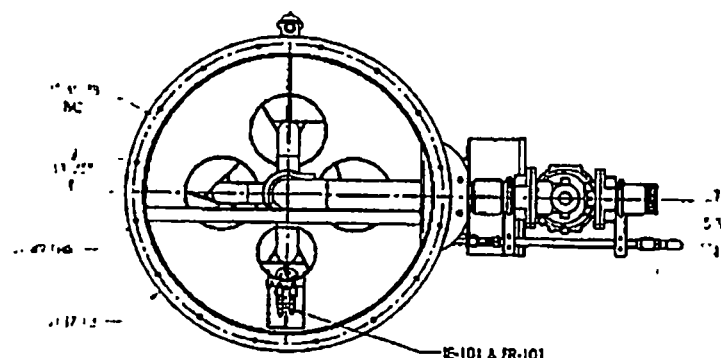
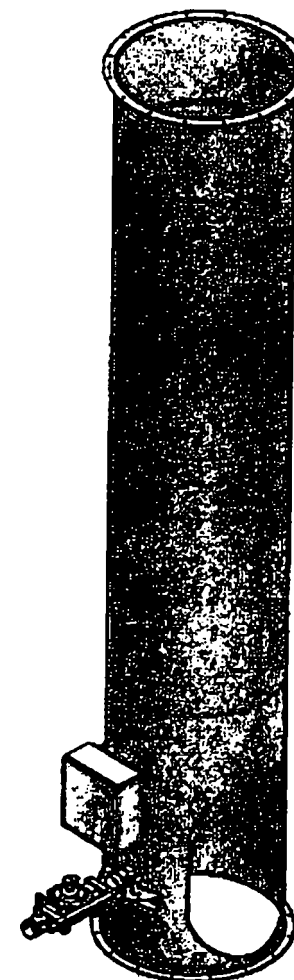
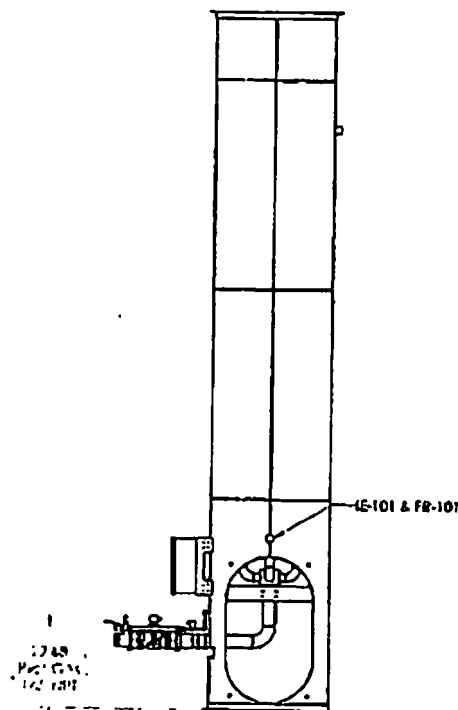
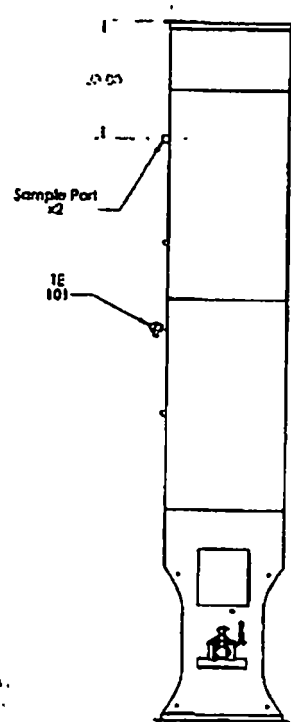
**CONFIDENTIALITY NOTICE**  
THIS DRAWING IS PROPERTY  
OF COG OPERATING LLC AND  
IS LOANED TO THE BORROWER  
FOR CONFIDENTIAL USE ONLY  
AND IS SUBJECT TO RETURN  
UPON REQUEST AND SHALL  
NOT BE REPRODUCED.  
CONCEALMENT OR OTHERWISE  
DISSEMINATION OF THIS  
DRAWING TO ANY OTHER  
PARTY WITHOUT THE  
WRITTEN PERMISSION OF  
COG OPERATING LLC IS  
STRICTLY PROHIBITED.

REFERENCE DRAWINGS		REVISIONS		ENGINEERING RECORD	
NO.	TITLE	NO.	DATE	BY	DATE
A	COG FOR SITE PRINTING	1	06/20/12	COG	06/20/12
B	UPDATED FOR REALLY SCARY FC 3H BTRY	2	06/27/16	COG	06/27/16
C	UPDATED GAS MTR	3	03/28/17	COG	03/28/17
D	UPDATE DRAW NUMBERS	4	06/21/17	COG	06/21/17
COG OPERATING LLC 600 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701					

REFERENCE DRAWINGS		REVISIONS		ENGINEERING RECORD	
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COG OPERATING LLC 600 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701					

**CONCHO**  
NORTHERN DELAWARE BASIN ASSET  
PRODUCTION FACILITIES  
SITE FACILITY DIAGRAM  
REALLY SCARY FEDERAL COM 3H BATTERY  
EDDY COUNTY  
THIRDP/ANNO  
SCALE: NONE  
Dwg No. 0-1700-81-005  
REV D

NOTE: This drawing is intended for your review and approval of the general arrangement for an ABUTEC 100. Some dimensions are subject to change during the final engineering phase of this project. "As Built" drawings will be provided at engineering completion.



பெரிய அளவுக்குள்ளேயே இருக்கின்றன. இவற்றைப் பற்றித் தகவல் கொடுக்கவேண்டியிருக்கிறது. இவற்றைப் பற்றித் தகவல் கொடுக்கவேண்டியிருக்கிறது. இவற்றைப் பற்றித் தகவல் கொடுக்கவேண்டியிருக்கிறது.

**JPHILIP**

**ABUTEC™** Advanced  
Burster  
Technology

TITLE: **ABUTEC100 (SCUF)**

REV: **001**

DATE: **01/01/00**

SCALE: **1:20** WEIGHT: **100.00** SHEET: **1 OF 1**

## Sequence of Operation

### **ABUTEC 100 Combustion Flare**

1. The system is put in "Auto" mode by switching from "OFF" to "ON" on the control panel.
2. Once in "Auto" there is a 15-45 second delay while the PLC boots up, the pilot solenoid valve SDV-102 will open, at the same time the ignition transformer TX-101 will be energized, and the ignition electrode IE-101 will start sparking for a period of 10 seconds.
3. The pilot gas will be ignited, and proof of pilot lit will be detected by the flame rod (FR-101). Once the PLC has received confirmation that the pilot is lit the ignition transformer is disabled and energy is no longer supplied to the ignition electrode. The pilot will remain lit continuously while the power switch is in the "ON" position. If pilot flame is lost or undetected the PLC will make an infinite number of attempts to relight.
4. Once a "Start-up" pressure of 7" H<sub>2</sub>O is detected by the pressure transmitter (PT-101) on the main gas line for a period of 10 seconds, the process controller will initiate the start sequence.
  - o The solenoid valve (SDV-101) will open and release gas to the main burner.
  - o The main burner is lit.
  - o The stack temperature is monitored by the thermocouple (TE-101).

#### **Shutdown Parameters:**

- High Stack Temperature –Temp greater than 2200°F > 10 seconds
- Low Pressure – Pressure less than 2" H<sub>2</sub>O > 5 seconds
- Loss of pilot flame

**NOTE:** Any shutdown will cause valve SDV-101 to close.

- o The system will wait for 10 seconds upon any shutdown for purging process and reinitiate the start sequence.

## ABUTEC MTF Inspection and Maintenance Procedures

### Thermocouple

- The thermocouple head should be opened for a visual inspection of all wire connections. A simple pull test can be performed to ensure secure connections of the wires on the thermocouple terminal block.
- The thermocouple should be removed from the enclosed flare stack for a visual inspection of its component probe. The probe should be checked for signs of excessive heating and material fatigue. Visual indicators include:
  - cracks or gaps in the continuous probe material
  - exposure of thermocouple's fully enclosed bi-metal wire
  - droop of the probe tip at an angle greater than 60° from horizontal
- Discoloration of the thermocouple probe is a normal occurrence and does not necessarily indicate excessive heating or material fatigue.  
*If excessive wear is detected, the thermocouple must be replaced.*
- Once a thermocouple has been replaced, its wired connections should be checked to ensure of proper signal transmissions and temperature detection.

### Ignition Electrode/ Flame Detector / Boot / Cable

**Caution: Electric shocks can be fatal! Before working on live components, confirm that power to the flare has been disconnected and all stored energy has dissipated.**

- The Ignition electrode, flame detector, and boot are one complete assembly. Each component can be removed, inspected and if found to be faulty, replaced.
- Once removed from ignition assembly, the electrode should be inspected for cracks in the ceramic insulation which would be a potential location for spark to escape.
- The metallic portion (electrode tip and rod of the flame detector) should be inspected for excessive corrosion or overheating.

Visual indication of compromise includes:

- Ignition Electrode
  - scaly build up on electrode tip
  - excessive loss of material at electrode tip
  - fragile state of the metallic tip, this can also be a sign of excessive corrosion
- Flame Detector
  - scaly build up on flame rod
  - excessive loss of material
  - fragile state of the metallic rod, this can also be a sign of excessive corrosion
- The electrode tip and flame rod can be scrubbed clean with an abrasive material. This process can expose virgin metal and possibly restore the component's original performance.  
*If cracks in the ceramic portion or excessive corrosion on the metallic portion are detected, the compromised component must be replaced.*