

**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.  
NMNM114965

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
HORNED OWL FEDERAL 3H

2. Name of Operator  
COG OPERATING LLC

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

9. API Well No.  
30-015-42502-00-S1

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  
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
  
Sec 25 T26S R26E NWNE 190FNL 1810FEL  
32.019883 N Lat, 104.243039 W Lon

11. County or Parish, and State  
  
EDDY COUNTY, NM

**12. CHECK 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"/> Fracture Treat	<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 Variance
	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Horned Owl Federal #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:

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

**Accepted For Record**  
**NMOCD**

**NM OIL CONSERVATION**  
**ARTESIA DISTRICT**

**JUL 11 2016**

**RECEIVED**

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

**Electronic Submission #334078 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by LACHELLE NAJERA on 03/18/2016 (16LN0037SE)**

Name (Printed/Typed) AMANDA AVERY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 03/17/2016

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

Approved By <u>DUNCAN WHITLOCK</u>	Title <u>TECHNICAL LPET</u>	Date <u>06/30/2016</u>
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 <u>Carlsbad</u>

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.



**MANUFACTURING & TECHNOLOGY**

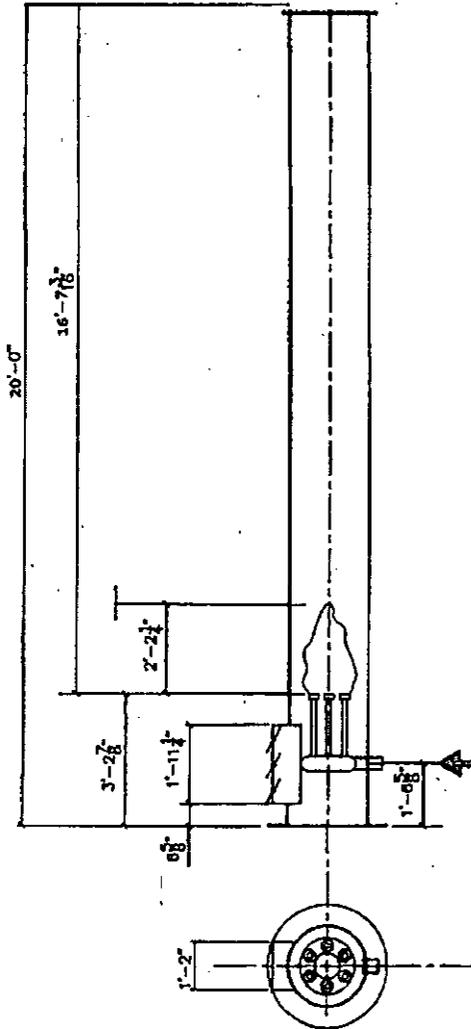
2606 W CR 130, Midland TX 79705  
432-687-7060

THERMAL OXIDATION CALCULATIONS

Flow Rate 1.157 SCFS  
 Temperature (vapor) 585 deg. R  
 P<sub>av</sub> 10 in.W.C.  
 Temperature (air) 545 deg. R  
 Hgt:D Ratio 8.5  
 Diameter 24 in.  
 Ambient air density 0.0716 lb./cf

	C	H	
Formula	36	6	
MW avg	42.00		
H:C Ratio	0.1667		
Mass flow	0.1283	Lbs/sec	
Air required	2.1810	Lbs/sec	29.0694 SCFS
CO <sub>2</sub>	0.4030	Lbs/sec	3.47 SCFS
H <sub>2</sub> O	0.1649	Lbs/sec	6.94 SCFS
N <sub>2</sub>	1.72	Lbs/sec	23.59 SCFS
Exit Mass	2.2909	Lbs/sec	34.0052 SCFS
MW	28.72		
Heat Input	2576	BTU/sec.	
Temperature rise	1049.10	deg. F/sec	
Total Volume	92.11	ACFS	
Stack Area	3.14	SF	
Velocity	29.32	fps	
Stack height	21.66	ft.	
Residence	0.78	sec.	

Pdraft 0.1935 in.WC  
 Area req'd (air intake) 273 in.<sup>2</sup>  
 Grill size 14x23 in.



**BURNER**

V <sub>s</sub>	= 892 fps
Mach exit	= .202 x V <sub>s</sub> = 180.18 fps
AREA	= .996 in. <sup>2</sup>
Δ P	= 10.4 in.WC
L <sub>f</sub>	= 2.19 ft.

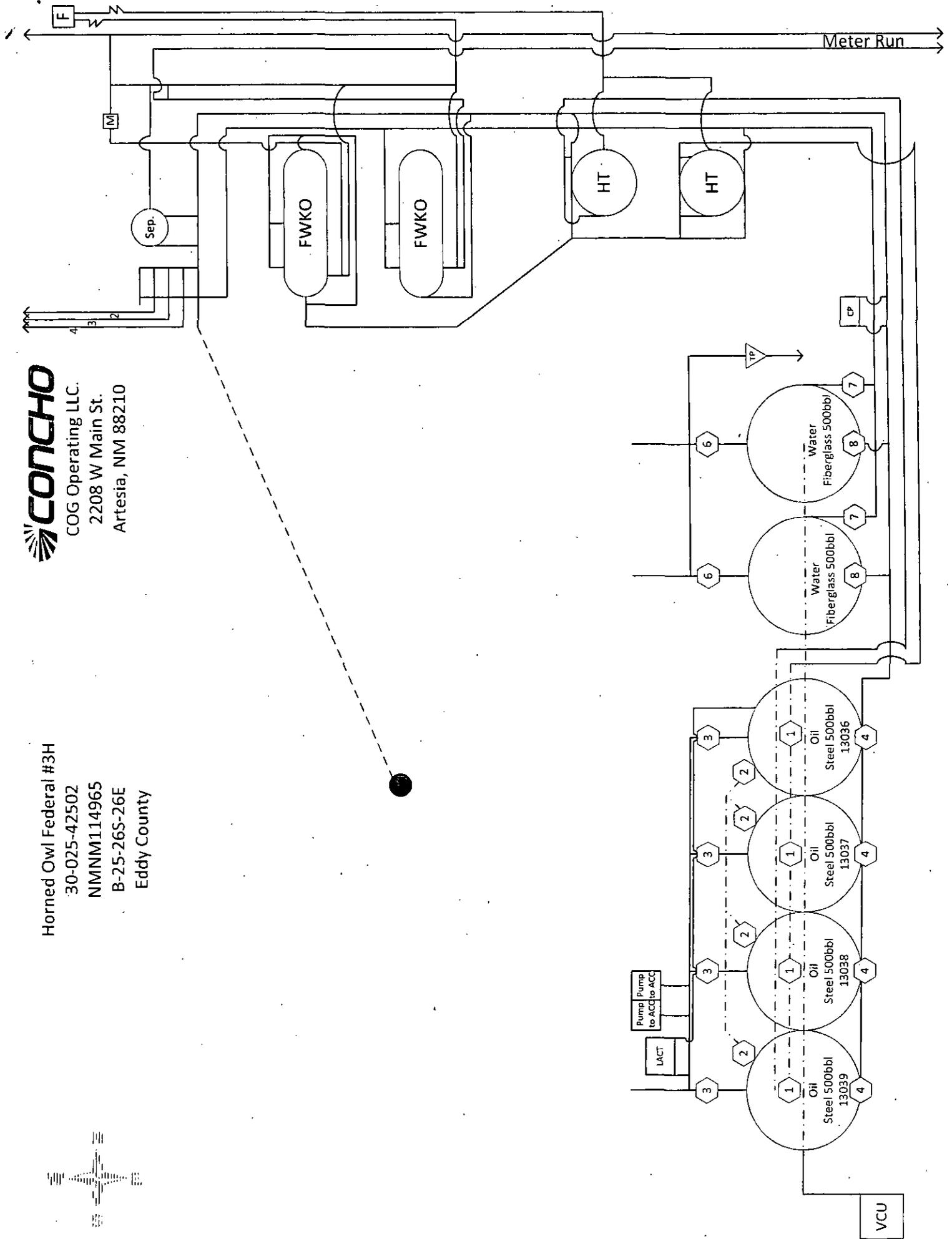
← HEADER INLET

1	REVISED PER FINAL DATA	8/14/14
REV.	DESCRIPTION	DATE

**Edge CXV 24" Combustor Data Sheet**

**CONCHO**  
 COG Operating LLC.  
 2208 W Main St.  
 Artesia, NM 88210

Horned Owl Federal #3H  
 30-025-42502  
 NMNM114965  
 B-25-26S-26E  
 Eddy County



Horned Owl Federal #3H  
30-025-42502  
NMNM114965  
B-25-26S-26E  
Eddy County

**Production Phase (OT#1)**

- A. Valves #1,#2,#4,#7, and #8 Open
- B. Valve #3 Closed and Sealed
- C. Valve #6 Closed
- D. Valves on OT #2, and #3 Positioned:
  - 1. Valves #1, #3, & #4 Closed and sealed

**II. Sales Phase (OT#1)**

- A. Valves #1, #2 and #4 Closed and Sealed
- B. Valve #3 on OT #1 Open
- C. Valves on OT #2, and #3 Positioned:
  - 1. Valve #1, and #2, Open
  - 2. Valve #3 Closed and Sealed

**Production Phase (OT #2)**

- A. Valves #1, #2, #4, #7, and #8 Open
- B. Valve #3 Closed and Sealed
- C. Valve #6 Closed
- D. Valves on OT #1, and #3 Positioned:
  - 1. Valves #1, #3 & #4 Closed and Sealed

**Sales Phase (OT#2)**

- A. Valves #1, #2 and #4 Closed and Sealed
- B. Valve #3 on OT #2 Open
- C. Valves on OT #1, and #3 Positioned:
  - 1. Valve #1, and #2 Open
  - 2. Valve #3 Closed and Sealed

**Production Phase (OT #3)**

- A. Valves #1,#2,#4,#7, & #8 Open
- B. Valve #3 Closed and Sealed
- C. Valve #6 Closed
- D. Valves on OT #1, and #2, Positioned:
  - 1. Valves #1, #3 & #4 Closed and Sealed

**Sales Phase (OT#3)**

- A. Valves #1, #2 and #4 Closed and Sealed
- B. Valve #3 on OT #3 Open
- C. Valves on OT #1, and #2 Positioned:
  - 1 Valve #1, and #2 Open
  - 2. Valve #3 Closed and Sealed

**Production Phase (OT #4)**

- A. Valves #1,#2,#4,#7, & #8 Open
- B. Valve #3 Closed and Sealed
- C. Valve #6 Closed.
- D. Valves on OT #1, #2, and #3 Positioned:
  - 1. Valves #1, #3 & #4 Closed and Sealed

**Sales Phase (OT#4)**

- A. Valves #1, #2 and #4 Closed and Sealed
- B. Valve #3 on OT #4 Open
- C. Valves on OT #1, #2, and #3 Positioned:
  - 1 Valve #1, and #2 Open
  - 2. Valve #3 Closed and Sealed