

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**Carlsbad Field Office**
OCD ArtesiaFORM 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.
NMNM121474

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Multiple--See Attached9. API Well No.
Multiple--See Attached10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG PRODUCTION LLC
Contact: AMANDA AVERY
E-Mail: aavery@concho.com3a. Address
2208 W MAIN STREET
ARTESIA, NM 882103b. Phone No. (include area code)
Ph: 575.748.69404. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Multiple--See Attached**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 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 recomple 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 recompletion 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 Copperhead 31 Federal 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:

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. *SEE COAS*
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

BC 2-15-18
Accepted for record - NMOCDNM OIL CONSERVATION
ARTESIA DISTRICT

FEB 15 2018

RECEIVED

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

Electronic Submission #403447 verified by the BLM Well Information System

For COG PRODUCTION LLC, sent to the Carlsbad

Committed to AFMSS for processing by DUNCAN WHITLOCK on 02/06/2018 (18DW0064SE)

Name (Printed/Typed) AMANDA AVERY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 02/06/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>J.D. Whitlock</i>	Title <i>TLPE7</i>	Date <i>2/6/18</i>
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 <i>CF0</i>

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 #403447 that would not fit on the form

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

NMNM136878
NMNM137596

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM136878	NMNM121474	COPPERHEAD 31 FEDERAL COMB	31-015-43924-00-S1	Sec 30 T26S R29E NENE 349FNL 773FEL 32.019787 N Lat, 104.017212 W Lon
NMNM137596	NMNM121474	COPPERHEAD 31 FEDERAL COMB	31-015-44118-00-S1	Sec 30 T26S R29E NWNE 210FNL 1650FEL 32.020309 N Lat, 104.020523 W Lon
NMNM136878		FAC COP313 COPPERHEAD 31-3 FED FACILITY		Sec 30 T26S R29E Mer NMP NENE
NMNM137596		FAC COP313 COPPERHEAD 31-3 FED FACILITY		Sec 30 T26S R29E Mer NMP NENE

32. Additional remarks, continued

33
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

COPPERHEAD 31 FEDERAL COM 3H BATTERY
NENE SECTION 30, T26S, R29E, UNIT A
EDDY COUNTY, NM

WELLS:
COPPERHEAD 31 FEDERAL COM #003H: 30-015-43924
COPPERHEAD 31 FEDERAL COM #021H: 30-015-44118

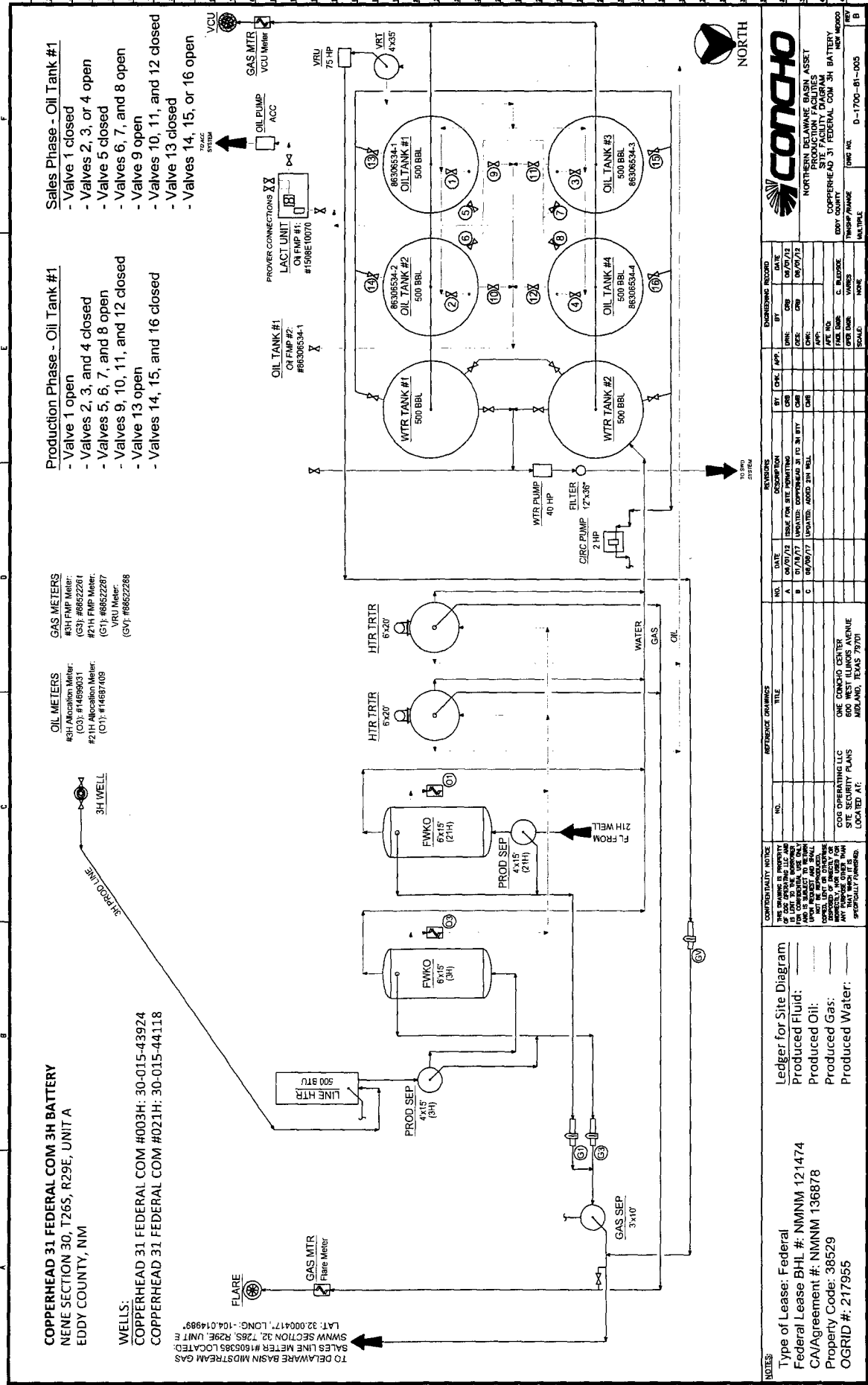
OIL METERS
#3H Allocation Meter:
(O3): #14699031
#21H Allocation Meter:
(O1): #14697409

GAS METERS
#3H FMP Meter:
(G3): #68522261
#21H FMP Meter:
(G1): #68522287
VRU Meter:
(GV): #68522288

Production Phase - Oil Tank #1
- Valve 1 open
- Valves 2, 3, and 4 closed
- Valves 5, 6, 7, and 8 open
- Valves 9, 10, 11, and 12 closed
- Valve 13 open
- Valves 14, 15, and 16 closed

Sales Phase - Oil Tank #1
- Valve 1 closed
- Valves 2, 3, or 4 open
- Valve 5 closed
- Valves 6, 7, and 8 open
- Valve 9 open
- Valves 10, 11, and 12 closed
- Valve 13 closed
- Valves 14, 15, or 16 open

TO DELAWARE BASIN MIDSTREAM GAS
SALES LINE METER #1805385 LOCATED:
SWNW SECTION 32, T26S, R29E, UNIT E
LAT: 32.000417, LONG: -104.014997



NOTES:
Type of Lease: Federal
Federal Lease BHL #: MNM 121474
CA/Agreement #: MNM 136878
Property Code: 38529
OGRID #: 217955

CONFIDENTIALITY NOTICE
THIS DOCUMENT IS THE PROPERTY OF CONCHO ENERGY SERVICES, L.P. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CONCHO ENERGY SERVICES, L.P. ANY UNAUTHORIZED REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT IS STRICTLY PROHIBITED AND MAY BE SUBJECT TO PENALTY.

NO.	REFERENCE DRAWINGS	DATE	REVISIONS
1	ONE CONCHO CENTER	06/07/17	ISSUE FOR SITE CONSTRUCTION
2	CONCHO ENERGY SERVICES, L.P.	07/11/17	UNNOTED: DELETED 31 TO 31 BTY
3	CONCHO ENERGY SERVICES, L.P.	08/09/17	UNNOTED: ADDED 21H WELL

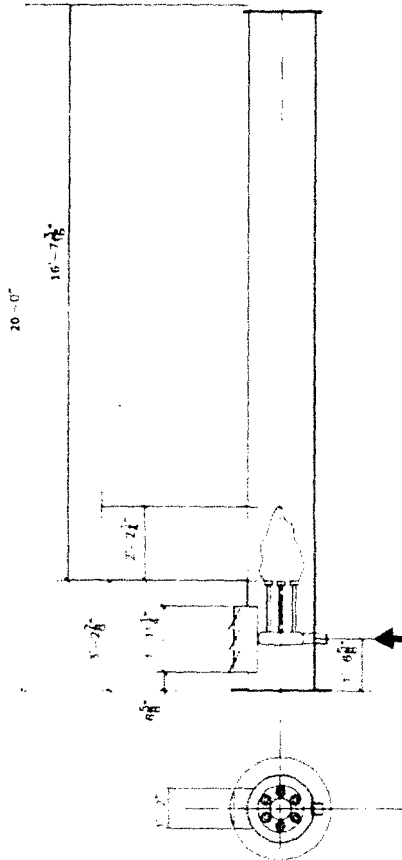
CONCHO
NORTH
NORTHERN DELAWARE BASIN ASSET
STOCKPORT COUNTY, TEXAS
COPPERHEAD 31 FEDERAL COM 3H BATTERY
EDDY COUNTY, NM
INTEGRITY
D-1700-81-005

THERMAL OXIDATION CALCULATIONS

Flow Rate 1.157 SCFS
Temperature (vapor) 585 deg. R
P_{av} 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 ₂	0.4030	Lbs/sec	3.47 SCFS
H ₂ O	0.1649	Lbs/sec	6.94 SCFS
N ₂	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	21.68	ft	
Residence	0.76	sec.	

Paraffin 0.1935 in WC
Area req'd (air intake) 273 in.²
Grill size 14x23 in



BURNER
V_s = 892 fps
Mach exit = 202 x V_s = 180.18 fps
AREA = 996 in.²
ΔP = 10.4 in WC
L = 2.19 ft

← HEADER INLET

△	REVISED PER FINAL DATA	8/14/14
REV	DESCRIPTION	DATE

Edge CXV 24" Combustor Data Sheet

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**CONDITIONS OF APPROVAL TO INSTALL
VAPOR COMBUSTOR UNIT (VCU)**

**COG Production LLC
Copperhead 31 Federal Com 3H & 21H
3001543924 & 3001544118, Lease-NM121474, CA-NM136878 & NM137596**

1. This approval only authorizes combustion of tank vapors, not gas production from the vapor recovery tower or any gas that should be routed through the VRU.
2. Comply with 43 CFR 3179 requirements.
3. If tank vapor 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 tank vapor combusted volumes over 50 MCF will require payment of royalties and volumes need to be reported on OGOR "B" reports as disposition code "33".
5. This approval does not authorize any additional surface disturbance.
6. Any gas that is combusted other than tank vapors will require payment of royalties and volumes need to be reported on OGOR "B" reports as disposition code "33".
7. Subject to like approval from NMOCD.