District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210

Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Eddy

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1120

N

1980

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29E

3.1 con information	
PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 2929
16. Multiple N	17. Proposed Depth 16793	18. Formation Wolfcamp	19. Contractor	20. Spud Date 4/6/2017
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

31

26S

21 Droposed Casing and Coment Program

		21.11 oposed cusing and content 1 ogram										
	Type	Hole Size	Hole Size Casing Size Casing Weight/		Setting Depth	Sacks of Cement	Estimated TOC					
	Surf	13.5	10.75	45.5	950	400	0					
13	Int1	9.875	7.625	29.7	10000	1075	0					
	Prod	6.75	5.5	20	16793	1350	9000					

Casing/Cement Program: Additional Comments

Drill 13-1/2" hole to ~950' w/ fresh water spud mud. Run casing to TD and cement to surface in one stage. Drill 9-7/8" hole to 10,000' with diesel / brine emulsion fluid. Run casing to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 16,793' with diesel/brine and OBM. Run 5-1/2" 20# P110 x 5" 18# P110 tapered casing to TD and cement.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

knowledge and b I further certify I NMAC ⊠, if appl	have complied with 19.15.14.9 (A)			OIL CONS	ERVATION DIVISION
Signature:		MT W			
Printed Name:	Electronically filed by Diane Kuyke	endall	Approved By:	Raymond Podany	
Title: Production Reporting Manager			Title:	Geologist	
Email Address: dkuykendall@concho.com			Approved Date:	3/30/2017	Expiration Date: 3/30/2019
Date: 3/30/2017 Phone: 432-685-4372			Conditions of App	proval Attached	

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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-102 August 1, 2011

Permit 234029

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-44118	2. Pool Code 98220	3. Pool Name PURPLE SAGE; WOLFCAMP (GAS)
4. Property Code 316960	5. Property Name COPPERHEAD 31 FEE	6. Well No. 021H
7. OGRID No. 217955	8. Operator Name COG PRODUCTION, LLC	9. Elevation 2929

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
В	30	26S	29E		210	N	1650	E	Eddy

11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 31	Township 26S	Range 29E	Lot Idn	Feet From 1120	N/S Line N	Feet From 1980	E/W Line E	County Eddy
12. Dedicated Acres 450.02		13. Joint or Infill		14. Consolidation Code			15. Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY

9	THE DIVISION
owns a working int location pursuant to	OPERATOR CERTIFICATION t the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either erest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this or a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling intered by the division.
E-Signed By:	Diane Kuykendall
Title:	Production Reporting Manager
Date:	3/30/2017
	SURVEYOR CERTIFICATION t the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that correct to the best of my belief.
Surveyed By:	Chad Harcrow
Date of Survey:	11/30/2016
Certificate Number	: 17777

Form APD Comments

Permit 234029

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State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG PRODUCTION, LLC [217955]	30-015-44118
600 W. Illinois Ave	Well:
Midland, TX 79701	COPPERHEAD 31 FEE #021H

Created By	Comment	Comment Date
	OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	3/30/2017

Form APD Conditions

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Permit 234029

PERMIT CONDITIONS OF APPROVAL

ı	Operator Name and Address:	API Number:
ı	COG PRODUCTION, LLC [217955]	30-015-44118
ı	600 W. Illinois Ave	Well:
ı	Midland, TX 79701	COPPERHEAD 31 FEE #021H

OCD Reviewer	Condition
RPodany	Will require a directional survey with the C-104
RPodany	Cement is required to circulate on both surface and production strings of casing