

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
Permit 270405

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
4. Property Code 325999		3. API Number 30-025-46276
5. Property Name PORK PIE STATE COM		6. Well No. 704H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	15	24S	35E	O	500	S	2180	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	10	24S	35E	B	50	N	2310	E	Lea

9. Pool Information

WC-025 G-09 S243532M;WOLFBONE	98098
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3337
16. Multiple N	17. Proposed Depth 22343	18. Formation Wolfcamp	19. Contractor	20. Spud Date 11/1/2019
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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	800	800	0
Int1	12.25	9.625	47	5250	1200	0
Int1	12.25	9.625	47	11500	1300	5250
Prod	8.5	5.5	17	22343	3900	8000

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 800' with Fresh Water into the Rustler to cover FW water depth. Run 13-3/8", 54.5# J-55 casing and cement to surface. Install 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi. Drill 12-1/4" hole to 11,500' MD with a 420' tangent to the southwest. Mud system will be Diesel Brine Emulsion. Run 9-5/8", 47# N/L80 casing to 11500' and cement to surface in two stages with DV Tool set at approximately 5250' (Top of Lamar). Install 10,000 psi casing spool, NU 13-5/8" 10K Cameron BOP. Test casing to 1500 psi. Test annular to 2500 psi and other BOP equipment to 8500 psi. Drill an 8-1/2" Pilot Hole to 12,520'. Run logs and plug back pilot hole to Curve KOP at 11,600' MD. Drill an 8-1/2" curve and lateral with Oil Based Mud to approximately 22,343' MD. Run 5-1/2" 23# P110 casing to TD and cement in one stage bringing cement up to 8000' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Cameron
Annular	10000	10000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Paul F Kautz	
Title: Production Accounting Director	Title: Geologist	
Email Address: dkuykendall@concho.com	Approved Date: 8/2/2019	Expiration Date: 8/2/2021
Date: 7/31/2019	Phone: 432-685-4372	Conditions of Approval Attached

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Form C-102
August 1, 2011
Permit 270405

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-46276	2. Pool Code 98098	3. Pool Name WC-025 G-09 S243532M;WOLFBONE
4. Property Code 325999	5. Property Name PORK PIE STATE COM	6. Well No. 704H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3337

10. Surface Location

UL - Lot O	Section 15	Township 24S	Range 35E	Lot Idn O	Feet From 500	N/S Line S	Feet From 2180	E/W Line E	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot B	Section 10	Township 24S	Range 35E	Lot Idn B	Feet From 50	N/S Line N	Feet From 2310	E/W Line E	County Lea
12. Dedicated Acres 320.00	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 THE DIVISION

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: Diane Kuykendall Title: Production Accounting Director Date: 7/31/2019
	SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Surveyed By: Robert Howett Date of Survey: 6/11/2019 Certificate Number: 19680

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Form APD Comments

Permit 270405

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-025-46276
		Well: PORK PIE STATE COM #704H
Created By	Comment	Comment Date
rodom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	7/29/2019

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Form APD Conditions

Permit 270405

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PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-025-46276
	Well: PORK PIE STATE COM #704H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.