

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 266310

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 308269		3. API Number 30-015-45890
5. Property Name WAY SOUTH STATE COM		6. Well No. 709H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	31	26S	28E	2	792	S	835	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	19	26S	28E	1	200	N	1254	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type CO2	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3159
16. Multiple N	17. Proposed Depth 21196	18. Formation Wolfcamp	19. Contractor	20. Spud Date 7/1/2019
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	700	700	0
Int1	12.25	9.625	40	8580	1925	0
Prod	8.5	5.5	17	21196	3900	5000

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 700' with Fresh Water into the Rustler to cover FW water depth. Run 13-3/8", 54.5# J-55 casing and cement to surface. Drill 12-1/4" hole to 8580' with Diesel/Brine Emulsion (DBE), and run 9-5/8", 8580' of 40# N/L80 and cement to surface in one stage. Drill an 8-1/2" curve and lateral with Oil Based Mud (OBM) to approximately 21,196' MD. Run 5-1/2" 17# P110 casing to TD and cement in one stage bringing cement up to 5000' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	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: Raymond Podany
Title: Production Reporting Mgr	Title: Geologist
Email Address: dkuykendall@concho.com	Approved Date: 4/19/2019 Expiration Date: 4/19/2021
Date: 4/17/2019 Phone: 432-683-7443	Conditions of Approval Attached

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Form C-102
August 1, 2011
Permit 266310

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-45890	2. Pool Code 98220	3. Pool Name PURPLE SAGE;WOLFCAMP (GAS)
4. Property Code 308269	5. Property Name WAY SOUTH STATE COM	6. Well No. 709H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3159

10. Surface Location

UL - Lot E	Section 31	Township 26S	Range 28E	Lot Idn 2	Feet From 792	N/S Line S	Feet From 835	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot D	Section 19	Township 26S	Range 28E	Lot Idn 1	Feet From 200	N/S Line N	Feet From 1254	E/W Line W	County Eddy
12. Dedicated Acres 736.48	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 Reporting Mgr Date: 4/17/2019
	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: Chad Harcrow Date of Survey: 2/25/2019 Certificate Number: 17777

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Form APD Comments

Permit 266310

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-45890
		Well: WAY SOUTH STATE COM #709H
Created By	Comment	Comment Date
rodrom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	4/16/2019

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Form APD Conditions

Permit 266310

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-45890
		Well: WAY SOUTH STATE COM #709H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	