

**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 260931

**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 322993		3. API Number 30-015-45532
5. Property Name SRO 5 STATE COM		6. Well No. 505H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	5	26S	28E		314	N	675	E	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	8	26S	28E	P	50	S	990	E	Eddy

**9. Pool Information**

DELAWARE RIVER;BONE SPRING	16800
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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 3007
16. Multiple N	17. Proposed Depth 18256	18. Formation Bone Spring	19. Contractor	20. Spud Date 12/18/2018
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	680	500	
Int1	12.25	9.625	40	2500	900	
Prod	8.75	5.5	17	18256	3300	2100

**Casing/Cement Program: Additional Comments**

Drill 17-1/2" hole to 680' into the Rustler. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will set in Rustler and cover water depth. Drill 12-1/4" hole to ~2,500' with Brine. Run 9-5/8" 40# J-55 casing to TD and cement to surface in one stage. Drill 8-3/4" vertical hole, curve & lateral to 18,256' with Cut Brine. Run 5-1/2" 17# P110 BTC casing to TD and cement to 2,100' in one stage.
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**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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Raymond Podany
Title: Production Reporting Mgr	Title: Geologist
Email Address: dkuykendall@concho.com	Approved Date: 12/12/2018      Expiration Date: 12/12/2020
Date: 12/11/2018      Phone: 432-683-7443	Conditions of Approval Attached

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Form C-102  
 August 1, 2011  
 Permit 260931

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-45532	2. Pool Code 16800	3. Pool Name DELAWARE RIVER;BONE SPRING
4. Property Code 322993	5. Property Name SRO 5 STATE COM	6. Well No. 505H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3007

**10. Surface Location**

UL - Lot A	Section 5	Township 26S	Range 28E	Lot Idn	Feet From 314	N/S Line N	Feet From 675	E/W Line E	County Eddy
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**11. Bottom Hole Location If Different From Surface**

UL - Lot P	Section 8	Township 26S	Range 28E	Lot Idn	Feet From 50	N/S Line S	Feet From 990	E/W Line E	County Eddy
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**

	<b>OPERATOR CERTIFICATION</b> <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:                 12/11/2018
	<b>SURVEYOR CERTIFICATION</b> <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:      11/1/2018 Certificate Number: 17777

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Form APD Comments

Permit 260931

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-45532
		Well: SRO 5 STATE COM #505H

Created By	Comment	Comment Date
mreyes3	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.	12/11/2018

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Form APD Conditions

Permit 260931

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-45532
		Well: SRO 5 STATE COM #505H
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	