

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-8161 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) 334-8178 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 224670

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

1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 308112		3. API Number 30-015-43883
5. Property Name NERVOUS PURVIS STATE		6. Well No. 008H

**7. Surface Location**

UL - Lot	B	Section	36	Township	18S	Range	31E	Lot Idn	B	Feet From	220	N/S Line	N	Feet From	1630	E/W Line	E	County	Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot	O	Section	36	Township	18S	Range	31E	Lot Idn	O	Feet From	50	N/S Line	S	Feet From	1870	E/W Line	E	County	Eddy
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**9. Pool Information**

WATKINS;BONE SPRING	63345
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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 3666
16. Multiple N	17. Proposed Depth 13851	18. Formation Bone Spring	19. Contractor	20. Spud Date 8/17/2016
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	1000	790	
Int1	12.25	9.625	40	2750	800	
Prod	8.75	5.5	17	13851	1950	2250

**Casing/Cement Program: Additional Comments**

Plan to drill a 17.5" hole to 1000' with fresh water. Run 13 3/8", 54.5# J-55 csg and cmt to surface. Drill a 12.25" hole to 2750' with brine, and run 9 5/8" 40# J55 and cement to surface in one stage. Drill out 8.75" intermediate, kick off and drill an 8.75" curve and lateral to 13851' with cut brine. Run 5-1/2" 17# P110 production string and cement to 2250'.
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	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: _____ Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: production@concho.com Date: 8/8/2016	<b>OIL CONSERVATION DIVISION</b>  Approved By: Paul Kautz Title: Geologist Approved Date: 8/9/2016 Expiration Date: 8/9/2018 Conditions of Approval Attached
Phone: 432-683-7443	

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Form C-102  
August 1, 2011  
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-43883	2. Pool Code 63345	3. Pool Name WATKINS;BONE SPRING
4. Property Code 308112	5. Property Name NERVOUS PURVIS STATE	6. Well No. 008H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3666

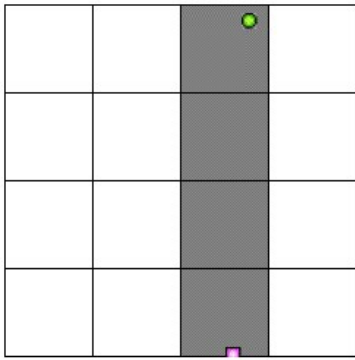
**10. Surface Location**

UL - Lot B	Section 36	Township 18S	Range 31E	Lot Idn B	Feet From 220	N/S Line N	Feet From 1630	E/W Line E	County Eddy
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**11. Bottom Hole Location If Different From Surface**

UL - Lot O	Section 36	Township 18S	Range 31E	Lot Idn	Feet From 50	N/S Line S	Feet From 1870	E/W Line E	County Eddy
12. Dedicated Acres 160.00	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**

	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><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></p> <p>E-Signed By: Diane Kuykendall Title: Production Reporting Mgr Date: 8/8/2016</p> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><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></p> <p>Surveyed By: Chad Harcrow Date of Survey: 3/28/2016 Certificate Number: 17777</p>
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Form APD Comments

Permit 224670

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-43883
		Well: NERVOUS PURVIS STATE #008H
Created By	Comment	Comment Date
mreyes1	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.	8/8/2016
ksharp	Subject to 3/12 Conservation Agreement	8/8/2016

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Form APD Conditions

Permit 224670

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-43883 <hr/> Well: NERVOUS PURVIS STATE #008H
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OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Will require a administrative order for non-standard location prior to placing the well on production.
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.
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	Must notify OCD Artesia Office of any water flows in the Salado Formation at 575-478-1283. Report depth and flow rate
pkautz	The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.