

**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 173444

**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
		3. API Number 30-015-41660
4. Property Code 40128	5. Property Name SRO State	6. Well No. 012H

**7. Surface Location**

UL - Lot P	Section 32	Township 25S	Range 28E	Lot Idn P	Feet From 190	N/S Line S	Feet From 660	E/W Line E	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot A	Section 32	Township 25S	Range 28E	Lot Idn A	Feet From 330	N/S Line N	Feet From 660	E/W Line E	County Eddy
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**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 3002
16. Multiple N	17. Proposed Depth 12543	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/24/2013
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	48	400	325	
Int1	12.25	9.625	36	2300	700	
Prod	7.875	5.5	17	12543	1500	2100

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 400' with Fresh Water. Run 13-3/8", 48#, H-40 csg and cmt to surface. Drill 12-1/4" hole to 2300' with Brine, and run 9-5/8", 36#, J-55 and cement to surface. Drill 7-7/8" curve and lateral with cut brine to approx 12,543' MD. Run 5-1/2", 17#, P-110 csg and cement to 2100'.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

<p>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.</p> <p>Signature:</p> <p>Printed Name: Electronically filed by Diane Kuykendall</p> <p>Title: Production Reporting Mgr</p> <p>Email Address: dkuykendall@conchoresources.com</p> <p>Date: 9/16/2013</p>	<p><b>OIL CONSERVATION DIVISION</b></p> <p>Approved By: Randy Dade</p> <p>Title: District Supervisor</p> <p>Approved Date: 9/16/2013</p> <p>Expiration Date: 9/16/2015</p> <p>Conditions of Approval Attached</p>
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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.

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**Santa Fe, NM 87505**

Form APD Comments  
  
 Permit 173444

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-41660
	Well: SRO State #012H

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.	9/16/2013
CSHAPARD	Land s/s	9/16/2013

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Form APD Conditions  
 Permit 173444

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-41660
	Well: SRO State #012H

OCD Reviewer	Condition
CSHAPARD	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
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