

**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) 334-8170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3482

**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 189640

**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 40401		3. API Number 30-015-42521
5. Property Name DARTROW STATE		6. Well No. 003H

**7. Surface Location**

UL - Lot	C	Section	19	Township	20S	Range	30E	Lot Idn	Feet From	200	N/S Line	N	Feet From	1630	E/W Line	W	County	Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot	N	Section	19	Township	20S	Range	30E	Lot Idn	N	Feet From	330	N/S Line	S	Feet From	2260	E/W Line	W	County	Eddy
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**9. Pool Information**

WILDCAT;BONE SPRING	96403
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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 3314
16. Multiple N	17. Proposed Depth 13000	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/31/2014
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	26	20	57	100	50	0
Int1	17.5	13.375	54.5	1750	1000	0
Int2	12.25	9.625	40	3500	2500	0
Prod	8.75	7	29	7779	800	0
Prod	8.75	5.5	17	13000	600	3500

**Casing/Cement Program: Additional Comments**

Plan to drill 26" hole to 100' with air/fresh water (conductor rig), run 20" 57# conductor pipe and cement. Drill 17 1/2" hole to 1750' w/brine water, run 13 3/8" 54.5# J55 casing and cement to surface. Drill 12 1/4" hole to 3500' w/cut brine, run 9 5/8" 40# J55 casing and cement to surface. Drill 8 3/4" hole w/cut brine to approximately 7879', kick off and drill 8 3/4" curve to approximately 8691' MD, 8400' TVD. Drill 8 3/4" lateral w/cut brine to approximately 13000' MD. Run tapered casing string of 7" 29# P110 and 5 1/2" 17# P110 casing and cement.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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 Title: Production Reporting Mgr Email Address: dkuykendall@conchoresources.com Date: 7/24/2014	Approved By: Randy Dade Title: District Supervisor Approved Date: 7/29/2014	Expiration Date: 7/29/2016 Conditions of Approval Attached

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Form C-102  
August 1, 2011  
Permit 189640

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-42521	2. Pool Code 96403	3. Pool Name WILDCAT,BONE SPRING
4. Property Code 40401	5. Property Name DARTROW STATE	6. Well No. 003H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3314

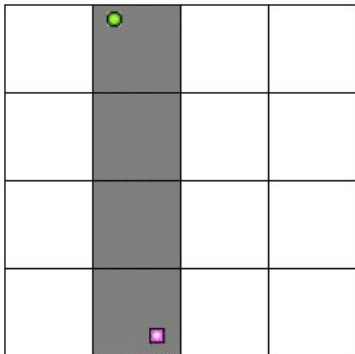
**10. Surface Location**

UL - Lot C	Section 19	Township 20S	Range 30E	Lot Idn	Feet From 200	N/S Line N	Feet From 1630	E/W Line W	County Eddy
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**11. Bottom Hole Location If Different From Surface**

UL - Lot N	Section 19	Township 20S	Range 30E	Lot Idn	Feet From 330	N/S Line S	Feet From 2260	E/W Line W	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: 7/24/2014</p> <hr/> <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: 7/17/2014 Certificate Number: 17777</p>
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**Santa Fe, NM 87505**

Form APD Comments

Permit 189640

**PERMIT COMMENTS**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42521
		Well: DARTHROW STATE #003H
Created By	Comment	Comment Date
CSHAPARD	Land s/S	7/25/2014

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Form APD Conditions

Permit 189640

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42521
		Well: DARTROW STATE #003H
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	