

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) 334-6178 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 181789

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 30-015-42085
5. Property Name Darthrow State		6. Well No. 002H

7. Surface Location

UL - Lot	D	Section	19	Township	20S	Range	30E	Lot Idn	1	Feet From	400	N/S Line	N	Feet From	190	E/W Line	W	County	Eddy
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8. Proposed Bottom Hole Location

UL - Lot	M	Section	19	Township	20S	Range	30E	Lot Idn	4	Feet From	330	N/S Line	S	Feet From	380	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 3318
16. Multiple N	17. Proposed Depth 12748	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/27/2014
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	
Int1	17.5	13.375	54.5	1750	1000	
Int2	12.25	9.625	40	3500	2500	
Prod	8.75	7	29	7779	800	
Prod	8.75	5.5	17	12748	600	7779

Casing/Cement Program: Additional Comments

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' with Brine Water. Run 13-3/8", 54.5#, J-55 csg and cement to surface. Drill 12-1/4" hole to 3,500' with Fresh Water/Cut Brine. Run 9-5/8", 40#, J-55 csg and cement to surface. Drill 8-3/4" hole with Cut Brine to approximately 7879', kick off and drill 8-3/4" curve to approximately 8691' MD, 8400' TVD. Drill 7-7/8" lateral with Cut Brine to approximately 12,748' MD. Run tapered casing string 7", 29#, P-110 and 5-1/2", 17#, P-110 and cement to surface.

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:	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Randy Dade	
Title: Production Reporting Mgr	Title: District Supervisor	
Email Address: dkuykendall@conchoresources.com	Approved Date: 2/25/2014	Expiration Date: 2/25/2016
Date: 2/19/2014	Phone: 432-683-7443	Conditions of Approval Attached

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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

Form C-102

August 1, 2011

Permit 181789

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-42085	2. Pool Code 96403	3. Pool Name WILDCAT;BONE SPRING
4. Property Code 40401	5. Property Name Darthrow State	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3318



10. Surface Location

UL - Lot D	Section 19	Township 20S	Range 30E	Lot Idn 1	Feet From 400	N/S Line N	Feet From 190	E/W Line W	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot M	Section 19	Township 20S	Range 30E	Lot Idn 4	Feet From 330	N/S Line S	Feet From 380	E/W Line W	County EDDY
12. Dedicated Acres 157.84	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

<div>   </div>					<div> <div>OPERATOR CERTIFICATION</div> <div> <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> <div> <div>E-Signed By:</div> <div>Diane Kuykendall</div> </div> <div> <div>Title:</div> <div>Production Reporting Mgr</div> </div> <div> <div>Date:</div> <div>2/19/2014</div> </div> </div> </div>

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Form APD Comments

 Permit 181789

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701	API Number: 30-015-42085
	Well: Darthrow State #002H

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.	2/19/2014
CSHAPARD	Land s/s	2/19/2014

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Form APD Conditions
Permit 181789

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] One Concho Center Midland, TX 79701		API Number: 30-015-42085
		Well: Darthrow State #002H
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	