

**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 156156

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

1. Operator Name and Address <b>COG OPERATING LLC</b> One Concho Center Midland, TX 79701		2. OGRID Number 229137
4. Property Code 38670		3. API Number 30-015-40789
5. Property Name BUENA VISTA 2 STATE		6. Well No. 001H

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	2	20S	30E	P	1130	S	330	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
A	2	20S	30E	A	330	N	380	E	Eddy

**9. Pool Information**

GATUNA CANYON; BONE SPRING	96688
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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 3293
16. Multiple N	17. Proposed Depth 13519	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/18/2012
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54	475	375	
Int1	12.25	9.625	36	3800	1025	
Prod	7.875	5.5	17	13519	1500	3300

**Casing/Cement Program: Additional Comments**

Plan to drill a 17-1/2" hole to 475' with Fresh Water. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 3800' with Brine, and run 9-5/8", 36#/40#, J55 csg and cement to surface in 2 stages. Drill 7-7/8" curve and lateral with cut brine to approx 13,519'MD. Run 5-1/2", 17#, P-110 csg and cement to 3300' in 1 stage.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	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: 10/11/2012	Approved By: Randy Dade Title: District Supervisor Approved Date: 10/15/2012    Expiration Date: 10/15/2014 Conditions of Approval Attached	
Phone: 432-683-7443		

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Form C-102  
August 1, 2011  
Permit 156156

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-40789	2. Pool Code 96688	3. Pool Name GATUNA CANYON; BONE SPRING
4. Property Code 38670	5. Property Name BUENA VISTA 2 STATE	6. Well No. 001H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3293

**10. Surface Location**

UL - Lot P	Section 2	Township 20S	Range 30E	Lot Idn	Feet From 1130	N/S Line S	Feet From 330	E/W Line E	County EDDY
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**11. Bottom Hole Location If Different From Surface**

11. Bottom Hole Location Is Different From Surface									
UL - Lot A	Section 2	Township 20S	Range 30E	Lot Idn 1	Feet From 330	N/S Line N	Feet From 330	E/W Line E	County EDDY
12. Dedicated Acres 160.04		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**

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## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** BUENA VISTA 2 STATE #001H

**API:** 30-015-40789

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.	10/11/2012
CSHAPARD	Land s/S	10/15/2012
CSHAPARD	Waiver letter from Intrepid Potash	10/15/2012



# Permit Conditions of Approval

**Operator:** COG OPERATING LLC , 229137

**Well:** BUENA VISTA 2 STATE #001H

**API:** 30-015-40789

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