

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 156696

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 30-025-40833
4. Property Code 39521	5. Property Name HAUMEA STATE	6. Well No. 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	36	19S	35E	B	330	N	1980	E	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	36	19S	35E	O	330	S	1980	E	Lea

9. Pool Information

PEARL;BONE SPRING, SOUTH	49685
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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 3668
16. Multiple N	17. Proposed Depth 14485	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/30/2012
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	54.5	1740	1100	
Int1	12.25	9.625	36	3450	850	
Prod	7.875	5.5	17	14485	2000	3250

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1740' with FW. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 3450' with brine, and run 9-5/8", 36#, STC and cement to surface. Drill 7-7/8" hole with cut brine to 11,700'. Run logs, plug back to kick off and drill lateral to 14,485 MD. Run 5-1/2", 17#, P-110 csg and cement to 3250'.

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:	OIL CONSERVATION DIVISION Approved By: ELIDIO GONZALES
Printed Name: Electronically filed by Diane Kuykendall	Title: HOBBS STAFF MANAGER
Title: Production Reporting Mgr	Approved Date: 10/23/2012 Expiration Date: 10/23/2014
Email Address: dkuykendall@conchoresources.com	
Date: 10/22/2012 Phone: 432-683-7443	Conditions of Approval Attached

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Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 156696

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40833	2. Pool Code 49685	3. Pool Name PEARL;BONE SPRING, SOUTH
4. Property Code 39521	5. Property Name HAUMEA STATE	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3668

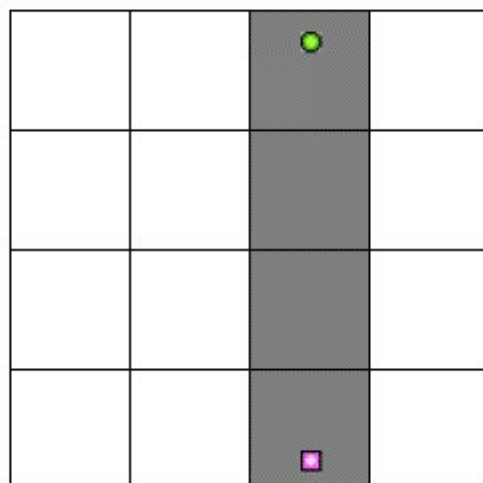
10. Surface Location

UL - Lot B	Section 36	Township 19S	Range 35E	Lot Idn	Feet From 330	N/S Line N	Feet From 1980	E/W Line E	County LEA
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11. Bottom Hole Location If Different From Surface

11. Bottom Hole Location If Different From Surface									
UL - Lot O	Section 36	Township 19S	Range 35E	Lot Idn O	Feet From 330	N/S Line S	Feet From 1980	E/W Line E	County LEA
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



OPERATOR CERTIFICATION

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.

E-Signed By: Diane Kuykendall
Title: Production Reporting Mgr
Date: 10/22/2012

SURVEYOR CERTIFICATION

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.

Surveyed By: Ronald Eidson
Date of Survey: 10/8/2012
Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: HAUMEA STATE #002H

API: 30-025-40833

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.	10/22/2012
CHERRERA	OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-05349	10/23/2012

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: HAUMEA STATE #002H

API: 30-025-40833

OCD Reviewer	Condition
DMULL	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
DMULL	Will require a directional survey with the C-104