

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND , TX 79701		2. OGRID Number 229137
		3. API Number 30-025-40035
4. Property Code 38408	5. Property Name AIRCobra 12 STATE	6. Well No. 002H

UL - Lot B	Section 12	Township 19S	Range 34E	Lot Idn B	Feet From 510	N/S Line N	Feet From 1980	E/W Line E	County LEA
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SCHARB:BONE SPRING	55610
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9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3942
14. Multiple N	15. Proposed Depth 14620	16. Formation Bone Spring	17. Contractor	18. Spud Date 12/20/2010
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1875	1550	0
Int1	12.25	9.625	36	3450	850	0
Prod	7.875	5.5	17	14620	1400	3250

Plan to drill a 17-1/2" hole to 1875' 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#, BUTT and cement to surface. Drill 7-7/8" hole with cut brine to 10,950'. Run logs, plug back to 9500' to kick off and drill lateral to 14,620' MD (10,200' TVD). Run 5-1/2", 17#, P-110/N-80 csg and cement to 3250' in 2 stages.

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Cameron

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II
1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 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-102
Permit 123903

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40035	2. Pool Code 55610	3. Pool Name SCHARB;BONE SPRING
4. Property Code 38408	5. Property Name AIRCORA 12 STATE	6. Well No. 002H
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3942

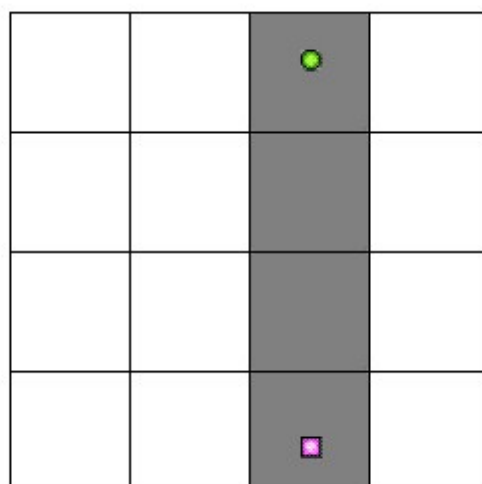
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	12	19S	34E		510	N	1980	E	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	12	19S	34E	O	510	S	1980	E	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: 12/2/2010

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: Filmon Jaramillo
Date of Survey: 11/2/2010
Certificate Number: 12797

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: AIRCOBRA 12 STATE #002H

API: 30-025-40035

Created By	Comment	Comment Date
krabinson2	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.	12/2/2010
pkautz	requires NSL	12/13/2010
pkautz	surface & Bhloc changed to standard location. No longer requires NSL	12/23/2010
pkautz	Land S/S	12/23/2010
DMULL	OCD Hobbs office has received form C-144CLEZ. OCD Permit Number P1-02849.	1/31/2011
DMULL	COG has sent to the OCD Hobbs office, forms C-103 & C-102 for the change of Surface & Bottomhole Location.	1/31/2011

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: AIRCOBRA 12 STATE #002H

API: 30-025-40035

OCD Reviewer	Condition
pkautz	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