

## Energy, Minerals and Natural Resources

## Oil Conservation Division

**1220 S. St Francis Dr.**

**Santa Fe, NM 87505**

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

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND , TX 79701		2. OGRID Number 229137
		3. API Number 30-025-39463
4. Property Code 37747	5. Property Name GOOD HANDS 15 STATE	6. Well No. 001

## 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	15	14S	32E	A	1190	N	430	E	LEA

## 8. Pool Information

TULK:ABO. NORTH	60265
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### Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4294
14. Multiple N	15. Proposed Depth 13450	16. Formation Abo	17. Contractor	18. Spud Date 8/31/2009
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mits 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"/>				

## 19. 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	48	500	475	0
Int1	12.25	9.625	40	4000	950	0
Int2	8.75	7	26	8100	600	0
Prod	6.125	4.5	11.6	13450	0	0

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 17-1/2" hole to 500' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surf. Drill an 12-1/4" hole to 4000' w/fr mud system, wt 10, vis 30. Set 9-5/8" casing & cement to surf. Drill 8-3/4" hole to 8100' w/c br mud system, wt 8.7, vis29-32. Set 7" prod casing @ +/- 8100'. Drill 6-1/8" pilot hole thru Top Basal Abo to +/- 9150', run open hole logs. Spot +/- 250sx C. Kick off plug from +/- 9150' to +/-8200'. Drill 6-1/8" hole & kick off @ +/- 8325', building curve over +/- 450' to horizontal section in a Westerly direction for +/- 4650' lateral to TD @ +/- 13450' MD, 8900' TVD. Run 4-1/2" prod liner in Open hole lateral & set isolation packers & liner top packer @ +/-8000' MD.

### Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
	Approved By: Paul Kautz	
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist	
Title: Regulatory Analyst	Approved Date: 7/17/2009	Expiration Date: 7/17/2011
Email Address: dkuykendall@conchoresources.com		
Date: 7/15/2009	Phone: 432-683-7443	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 97539

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-39463	2. Pool Code 60265	3. Pool Name TULK;ABO, NORTH
4. Property Code 37747	5. Property Name GOOD HANDS 15 STATE	6. Well No. 001
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 4294

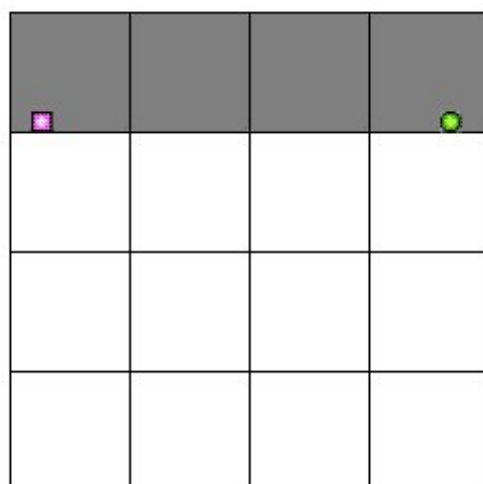
**10. Surface Location**

UL - Lot A	Section 15	Township 14S	Range 32E	Lot Idn	Feet From 1190	N/S Line N	Feet From 430	E/W Line E	County LEA
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**11. Bottom Hole Location If Different From Surface**

UL - Lot D	Section 15	Township 14S	Range 32E	Lot Idn D	Feet From 1190	N/S Line N	Feet From 330	E/W Line W	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: Regulatory Analyst

Date: 7/15/2009

**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: 6/3/2009

Certificate Number: 3239

## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** GOOD HANDS 15 STATE #001

**API:** 30-025-39463

Created By	Comment	Comment Date
rodrom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	6/16/2009
DMULL	OCD Hobbs office is going to reject this intent to drill. First COG already has a new intent to drill in this section where some of that acreage will be overlapped by this well and we cannot have that take place.	7/15/2009
DMULL	Second, this location both surface and bottomhole is non-standard. COG needs to send application to the OCD Santa Fe office and a copy to the OCD Hobbs office asking for approval for Non-Standard Location for this formation.	7/15/2009
DMULL	If you have questions on this matter, please call Donna Mull (575) 393-6161 ext 115.	7/15/2009
DMULL	OCD Hobbs office has received form C-144 "Pit Registration". OCD Permit Number P1-01234.	7/16/2009
DMULL	CONDITIONS OF APPROVAL for NON-STANDARD LOCATION: Intent to drill ONLY -- CANNOT PRODUCE until the Non-Standard Location has been approved by the OCD Santa Fe Office.	7/16/2009
DMULL	Well in Unit B is being canceled per COG because they are changing the location of this well and will drill at a later time. This will remove the overlapping acreage problem with this well.	7/16/2009

# Permit Conditions of Approval

**Operator:** COG OPERATING LLC , 229137

**Well:** GOOD HANDS 15 STATE #001

**API:** 30-025-39463

OCD Reviewer	Condition
DMULL	Will require administrative order for non-standard location
DMULL	CONDITIONS OF APPROVAL for NON-STANDARD LOCATION: Approval of intent to drill only -- CANNOT PRODUCE until the Non-Standard Location has been approved by OCD Santa Fe Office.