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 134727

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

	Name and Address ERATING LLC	OGRID Number     229137	
550 W TEXAS MIDLAND, TX 79701		3. API Number 30-015-39587	
4. Property Code	5. Property Name	6. Well No.	
38908	GRANT 2 FEE	003H	

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	2	198	26E	0	150	S	1910	E	EDDY

#### 8. Pool Information

DAYTON:GRAYBURG	15960

#### Additional Well Information

	-	. raditional () chi ratori			
9. Work Type	10. Well Type	11. Cable/Rotary	12. Lesse Type	13. Ground Level Elevation	
New Well	OIL		State	3282	
14. Multiple	15. Proposed Do	orth 16. Formation	17. Contractor	18. Spud Date	
N	7354	Yeso Formation		12/31/2011	
Depth to Ground water 110		Distance from nearest fresh water > 1000	Distance from nearest fresh water well > 1000		

19. Proposed Casing and Cement Program

				unu cementiti	8	
Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	825	600	0
Int1	8.75	7	26	2273	300	0
Prod	7.875	5.5	17	7354	0	

### Casing/Cement Program: Additional Comments

COG proposes to drill a 12 1/4" hole to 825' w/ fresh water, run 9 5/8" 36# J-55 and cement to surface. Drill a 8 1/4" hole to 2273' MD and kick off and drill curve to 3023' MD. Drill a 7 7/8" lateral to new BHL @ 2750' TVD 7354' MD. Run a tapered string with 7" 26# L-80 from surface to 2273' & 5 1/2" 17# L-80 casing to TD with DV/ECP Combo Tool at 2273' and isolation packers in the open hole. Set isolation packers and ECP. Open DV tool and cement from 2273' to surface.

Proposed Blowout Prevention Program

	(	I Toposeu Dionout I	revention riogram	107
	Туре	Working Pressure	Test Pressure	Manufacturer
T	DoubleRam	2000	2000	

I hereby certify that the information given above is of my knowledge and belief. I further certify that the drilling pit will be con	55 NO. 1	OIL CONSERVATION DIVISION				
NMOCD guidelines X, a general permit , or OCD-approved plan .	an (attached) alternative	Approved By: Randy Dade				
Printed Name: Electronically filed by Dian	ne Kuykendall	Title: District Supervisor				
Title: Production Reporting Mgr	221	Approved Date: 11/14/2011	Expiration Date: 11/14/2013			
Email Address: dkuykendall@conchoreso	urces.com		216			
Date: 10/31/2011 Phone: 4	132-683-7443	Conditions of Approval Attached				

District I 1625 N. French Dr., Hobbs, NM 88240

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District IV

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-102 August 1, 2011

Permit 134727

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-39587	2. Pool Code 15960	3. Pool Name DAYTON;GRAYBURG
4. Property Code 38908	5. Property N GRANT 2	
7. OGRID No. 229137	8. Operator N COG OPERATI	

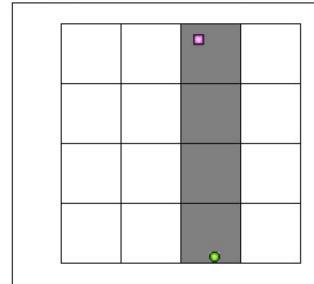
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	2	198	26E		150	S	1910	E	EDDY

#### 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
В	2	198	26E	2	330	N	2260	E	EDDY
	cated Acres 9.52	13. J	oint 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: 10/31/2011

### 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: Gary Eidson Date of Survey: 10/26/2011 Certificate Number: 12641

## **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: GRANT 2 FEE #003H

30-015-39587 API:

Created By	Comment	Comment Date
kholly1	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	7/18/2011
CSHAPARD	Land p/P	11/7/2011

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: GRANT 2 FEE #003H

API: 30-015-39587

OCD Reviewer	Condition
CSHAPARD	Will require administrative order for non-standard location
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