

**State of New Mexico**  
**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 EOG RESOURCES INC PO BOX 2267 MIDLAND , TX 79702		2. OGRID Number 7377
		3. API Number 30-015-34488
4. Property Code 35320	5. Property Name COLUMBIA 33 FEE	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
P	33	16S	24E	P	760	S	660	E	EDDY

**8. Pool Information**

EAGLE CREEK; WOLFCAMP GAS	96622
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**Additional Well Information**

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 3716
14. Multiple N	15. Proposed Depth 5200	16. Formation Wolfcamp	17. Contractor	18. Spud Date
Depth to Ground water 100		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 _____ miles thick Clay <input type="checkbox"/> Pit Volume: 10300 _____ bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input checked="" 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	12.25	8.625	32	900	325	0
Prod	7.875	4.5	11.6	8838	900	0

**Casing/Cement Program: Additional Comments**

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**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	

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 checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed Name: Electronically filed by Mike Francis Title: ROW Agent Email Address: mike_francis@eogresources.com Date: 12/21/2005   Phone: 4326863714	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arrant	
	Title: Geologist	
	Approved Date: 12/27/2005   Expiration Date: 12/27/2006	
	Conditions of Approval Attached	

# New Mexico Double Horseshoe Reserve Pit Design



Approximate Inside Reserve Volume: 4500 bbls  
Approximate Outside Reserve Volume: 5800 bbls

**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 20399

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-34488	2. Pool Code 96622	3. Pool Name EAGLE CREEK; WOLFCAMP GAS
4. Property Code 35320	5. Property Name COLUMBIA 33 FEE	6. Well No. 002H
7. OGRID No. 7377	8. Operator Name EOG RESOURCES INC	9. Elevation 3716

**10. Surface Location**

UL - Lot P	Section 33	Township 16S	Range 24E	Lot Idn	Feet From 760	N/S Line S	Feet From 660	E/W Line E	County EDDY
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**11. Bottom Hole Location If Different From Surface**

UL - Lot M	Section 33	Township 16S	Range 24E	Lot Idn M	Feet From 760	N/S Line S	Feet From 660	E/W Line W	County EDDY
12. Dedicated Acres 280.00		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**

	<b>OPERATOR CERTIFICATION</b>			
	<i>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.</i>			
	E-Signed By: Mike Francis Title: ROW Agent Date: 12/21/2005			
	<b>SURVEYOR CERTIFICATION</b>			
<i>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.</i>				
Surveyed By: Terry Asel Date of Survey: 12/17/2005 Certificate Number: 15079				

## Permit Comments

Operator: EOG RESOURCES INC , 7377

Well: COLUMBIA 33 FEE #002H

API: 30-015-34488

Created By	Comment	Comment Date
dglanton	Plat, Detailed Casing, Mud, Cement, Drilling Pland along with H2S Letter being mailed.	12/21/2005

# Permit Conditions of Approval

Operator: EOG RESOURCES INC , 7377

Well: COLUMBIA 33 FEE #002H

API: 30-015-34488

OCD Reviewer	Condition
BArrant	Will require a directional survey with the C-104
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Please notify OCD time of spud & time to witness the cementing to surface the 'water protection' string of casing.
BArrant	As noted, operator to drill surface hole with 'fresh water' mud.
BArrant	Providing operator drills another well in the same proation unit & intends to drill & produce from the same formation, an approval for an adminsitraive SD from Santa Fe is required.