## State of New Mexico

Form C-101 Permit 54877

## 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

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100	Operator Name and Address OG OPERATING LLC	2. OGRID Mumber 229137					
l l	550 W TEXAS MIDLAND , TX 79701	3. API Number 30-015-35657					
4. Property Code	5. Property Name	6. Well No.					
302502	HARPER STATE	013					

#### 7. Surface Location

UL - I	ot Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
И	16	17S	30E	N	330	S	1650	W	EDDY

#### 8. Pool Information

LOCO HILLS; GLORIET A-YESO 96718

#### Additional Well Information

	901		THE TOTAL THE THE		0.00	
9. Work Type New Well	10. We	ll Type IL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3666	
14. Multiple	15. Proposed Depth		16. Formation	17. Contractor	18. Spud Date	
И	6	200	Blinebry		6/20/2007	
Depth to Ground v	vater		Distance from nearest fresh water w	rell	Distance to nearest surface water	
150		> 1000		> 1000		
Pit: Liner: Synthetic 🔀	12	mils thick	Clay Pit Volume: 3000 bbls	Drilling Method:		
Closed Loop System	1	525	70-00-10 (F)	Fresh Water Brine :	Diesel/Oil-based 🗆 Gas/Air 🛚 🗙	

19. Proposed Casing and Cement Program

	A	A			=	
Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	425	450	0
Int1	12.25	8.625	24	1225	850	0
Prod	7.875	5.5	17	6200	1200	0

#### Casing/Cement Program: Additional Comments

COG proposes to drill a 17 1/2 hole to 425', run 13 3/8 casing and cement. Drill a 12 1/4 hole to 1225', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 6200' test Blinebry formation, run 5 1/2 casing and cement.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information gi of my knowledge and belief. I further certify that the drilling pi	ven above is true and complete to the best  t will be constructed according to	OIL CONSERVATION DIVISION			
NMOCD guidelines 🔀, a general p OCD-approved plan 🗀	ermit , or an (attached) alternative	Approved By: Bryan Arrant			
Printed Name: Electronically fi	led by Diane Kuykendall	Title: Geologist			
Title: Regulatory Analyst		Approved Date: 6/7/2007	Expiration Date: 6/7/2008		
Email Address: dkuykendall@c	conchoresources.com				
Date: 6/6/2007	Phone: 432-685-4372	Conditions of Approval Atta	ached		

District I

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

<u>District II</u>

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

### State of New Mexico

Form C-102 Permit 54877

# Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35657	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO	
4. Property Code 302502	5. Propert HARPER		
7. OGRID №. 229137	8. Operato COG OPERA		

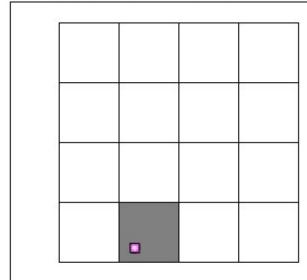
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	16	17S	30E		330	S	1650	w	EDDY

#### 11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Т	ownship	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
100000000000000000000000000000000000000	cated Acres		13. 1	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: 6/6/2007

#### 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: 5/29/2007 Certificate Number: 3239

# Permit Comments

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #013

API: 30-015-35657

Created By	Comment	Comment Date
JSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	6/6/2007

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #013

API: 30-015-35657

OCD Reviewer	Condition
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	As noted, operator to drill surface hole with fresh water mud.