# State of New Mexico

Form C-101 Permit 67868

# **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 C	2. OGRID Number 229137 3. API Number 30-015-36096	
4. Property Code	5. Property Name	6. Well No.
302502	HARPER STATE	017

## 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	16	17S	30E	N	330	S	2310	W	EDDY

## 8. Pool Information

LOCO HILLS; GLORIET A-YESO 96718

## Additional Well Information

	V(1		THANKSTAN TICH THEOTHA	WOIL .	(10)	
9. Work Type New Well	10. We	ll Type IL			13. Ground Level Elevation 3667	
14. Multiple	15. Proposed Depth		16. Formation	17. Contractor	18. Spud Date	
И	6	000	Yeso Formation		3/15/2008	
Depth to Ground v	vater		Distance from nearest fresh water w	e11	Distance to nearest surface water	
150			> 1000		> 1000	
Pit: Liner: Synthetic 🗙	12	mils thick	Clay Pit Volume: 5000 bbls I	Drilling Method:		
Closed Loop System	1		I	Fresh Water Brine 1	Diesel/Oil-based 🗌 Gas/Air 🗙	

19. Proposed Casing and Cement Program

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	32	1225	800	0
Prod	7.875	5.5	17	6000	1000	0

## Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2 hole to 425' w/fr water mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill a 12-1/4 hole to 1225'w/br mud system, wt 10, vis 30, set 8-5/8" casing & cement to surface. Drill a 7-7/8" hole to 6000'w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2" casing & cement to surface. Note: On production string, a caliper will be run, COG will attempt to circulate.

**Proposed Blowout Prevention Program** 

	Туре	Working Pressure	Test Pressure	Manufacturer
į,	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	OIL CONSERVATION DIVISION				
NMOCD guidelines $\overline{X}$ , a general permit $\Gamma$ , or an (attached) alternative OCD-approved plan $\Gamma$ .	Approved By: Bryan Arrant				
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist				
Title: Regulatory Analyst	Approved Date: 2/7/2008 Expiration Date: 2/7/2010				
Email Address: dkuykendall@conchoresources.com	0.00				
Date: 2/6/2008 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

<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

District IV

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 67868

# Energy, Minerals and Natural Resources Oil Conservation Division

1220 S. St Francis Dr. Santa Fe, NM 87505

### WELL LOCATION AND ACREAGE DEDICATION PLAT

4,707.4				
1. API Number	2. Pool Code	3. Po	ool Name	
30-015-36096	96718 LOCO HILLS; GLORIETA-YESO			
4. Property Code	5. Property	r Name	6. Well No.	
302502	HARPER STATE		017	
7. OGRID No.	8. Operator	9. Elevation		
229137	COG OPERATING LLC 3667			

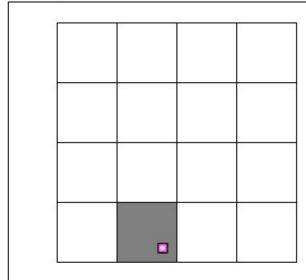
### 10. Surface Location

à	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	N	16	17S	30E		330	S	2310	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
	ated Acres .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: 2/6/2008

### 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: 1/28/2008 Certificate Number: 3239

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #017

API: 30-015-36096

Created By	Comment	Comment Date
IPEDWARDS	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	1/17/2008

# Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #017

API: 30-015-36096

OCD Reviewer	Condition
IH Arrant	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	Operator to set surface casing above the Salado.