<u>District II</u> 1301 W. Grand Ave., Artesia. NM 88210 Phone.(505) 748-1283 Fax:(505) 748-9720

### State of New Mexico

Form C-101 Permit 67863

# **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

COG OF	r Name and Address PERATING LLC	2. OGRID Number 229137	
	W TEXAS ND , TX 79701	3. API Number 30-015-36117	
4. Property Code 302502	5. Property Name HARPER STATE	6. Well No 014	

### 7. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
١	K	16	17S	30E	K	2160	S	1770	W	EDDY

### 8. Pool Information

Į	LOCO HILLS; GLORIETA-YESO			96718

### **Additional Well Information**

		· · · · · · · · · · · · · · · · · · ·				
	9. Work Type New Well		Il Type IL	Type 11. Cable/Rotary 12. Lease Type State		13. Ground Level Elevation 3674
	14. Multiple	15. Prop	osed Depth	16. Formation	17. Contractor	18. Spud Date
	N	$\perp$ 6	000	Yeso Formation		2/25/2008
	Depth to Ground v	water		Distance from nearest fresh water well		Distance to nearest surface water
	150	150		> 1000		> 1000
Pit:	Liner: Synthetic	12	mils thick		rilling Method:	
	Closed Loop System	11.1		Fr	esh Water 🔀 Brine 🗌 D	riesel/Oıl-based Gas/Aır

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	425	450	0
Int1	12.25	8.625	32	1225	850	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
DoubleRam	2000	2000	

best of my knowledge and bel  I further certify that the dri	lling pit will be constructed according to	OIL CONSERVATION DIVISION  Approved By: Bryan Arrant		
NMOCD guidelines 🔀, a gei OCD-approved plan 🗔	neral permit , or an (attached) alternative			
Printed Name: Electroni	cally filed by Diane Kuykendall	Title: Geologist		
Title: Regulatory Analys	st	Approved Date: 2/12/2008	Expiration Date: 2/12/2010	
Email Address: dkuyken	dall@conchoresources.com			
Date: 2/11/2008	Phone: 432-683-7443	Conditions of Approval Attached		

Form C-102

Permit 67863

**State of New Mexico** 1625 N. French Dr., Hobbs, NM 88240

District II

District I

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

## **Energy, Minerals and Natural Resources**

**Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

_	112	EE ECCITION IN DIRE	REMOR DEDICATION TO	-77.6.4
	1. API Number	2. Pool Code	3. Poo	ol Name
	30-015-36117	96718 LOCO HIL		GLORIETA-YESO
	4. Property Code	5. Prope	rty Name	6. Well No
ļ	302502	HARPEI	R STATE	014
	7. OGRID No	8. Operator Name		9. Elevation
	229137	COG OPER	ATING LLC	3674

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	16	17S	30E		2160	S	1770	W	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
	cated Acres	13. J	loint or Infill	14	. Consolidation (	Code	_L	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: 2/11/2008

### 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: 2/2/2008 Certificate Number: 3239

# **Permit Conditions of Approval**

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #014

API: 30-015-36117

OCD Reviewer	Condition
kmwilson	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
kmwilson	Operator must use fresh water mud when drilling surface hole.

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: HARPER STATE #014

**API:** 

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