District 1

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

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPI	ICATI	ON F	OR PERMIT	TOD	RILL, RE-	ENTER, Ì)EEPE	N, PLUGBA	CK, OR AD	D A ZONE	
	Operator Name and Address COG OPERATING LLC							299137			
	550 W. Texas, Suite 1300 Midland, TX 79701							³ API Number 30-015-30831			
³ Property Code ³ Property 1						Name 6 Well No					
302502 Harper S							State . 1				
⁹ Proposed Pool 1								10 Prope	osed Pool 2		
Loco Hills; Glorieta, Yeso 96718											
	-				⁷ Surface	Location					
UL or lot no.	Section 16			Lot Idn Feet fr		60 S	n/South line	Feet from the 330	East/West line East	County Eddy	
			⁸ Prope	osed Bott	om Hole Loca	tion If Differ	ent From	Surface			
UL or lot no	Section	Townshi	p Range	Lot	Lot Idn Feet fro		h/South line	Feet from the	East/West line	County	
	l			Ac	lditional We	ell Informa	tion			<u> </u>	
i .	Type Code		12 Well Type Co		de 13 Cable/Rotary			¹⁴ Lease Type Code		und Level Elevation	
	D Iultiple		O 17 Proposed De	neh	Rotar		S 19 Contractor		3677		
	N		6100	otn .	3	eso		Contractor	1	on as approved	
Depth to Grou		····		Distanc	e from nearest fre			Distance from	Distance from nearest surface water		
Pit; Liner	. Synthetic		_mils thick Clay	Pit V	olumebbl	ols Drilling <u>Method:</u>					
Close	d-Loop Sys	tem 🛚				Fresh Water Brine Diesel/Oil-based Gas/Air					
			2	Propos	sed Casing a	nd Cemen	t Progra	m			
Hole S	ize	(Casing Size Casing we			veight/foot Setting Depth		Sacks of Ce	ment	Estimated TOC	
17-1	/2		13-3/8	,	54.5		5	450			
12-1	12-1/4		8-5/8		24		10	475			
7-7/	′8		5-1/2	5-1/2		48	70	1011			
4-3/	4-3/4		4		11.3		00	115			
							lata on the p	present productive z	one and proposed	new productive zone	
Describe the	blowout pre	evention j	program, if any. Us	se additiona	al sheets if necess	ary					
										,	
					See	Attachm	ents		•		
²³ I hereby cer	tify that the	informat	tion given above is	true and co	mplete to the		OII (CONCEDIA	TON DIVIO	IONI	
best of my kno	d belief. I	further certify th	at the drill	ing pit will be	OIL CONSERVATION DIVISION						
			D guidelines 🔲, a pproved plan 🔲.	a general p	ermit [_], or	Approved by	/				
						Tall Pages Daws					
Printed name Kanicia Carrillo Title. Regulatory Analyst						Title. Todayst				.1.010.11	
Title.						Approval Da	ie: 11/1*	Myoch E	xpiration Date.	11.19011	
E-mail Addres	ss' kca	arriio@c	onchoresources con	n				·			
Date 10/19/0	19		Phone 432-6	R5-4332		Conditions of	Approval 4	Attached [· · · · · · · · · · · · · · · · · · ·		

COG Operating, LLC
Harper State 1 Deepening
Unit P, Sec 16, T17S, R30E
430 FSL & 330 FEL
API# 30-015-30831
Eddy County, NM

Deepening Procedure

- 1. MIRU rig.
- 2. PU 4-3/4" bit and drill 4-3/4" from 4888' to 6100'.
- 3. POOH w/ bit and drillstring.
- 4. RIH w/ logs and log from TD to 4800'.
- 5. RIH w/ 4", 11.3# casing.
- 6. Cement casing from TD to 4825' w/ 115 sxs Class C cmt.
- 7. RDMO rig.

Completion Procedure

- 1. MIRU rig.
- 2. RIH/ w/ perforating guns and perforate Yeso from 5800 5600 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand. Set plug at 5550'.
- 4. RIH w/ perforating guns and perforate Yeso from 5500' 5300'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand. Set plug at 5350'.
- 6. RIH w/ perforating guns and perforate Yeso from 5200' 5000'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 190,000 # of sand.
- 8. RIH and drill out plug at 5350' and 5550'.
- 9. RIH and cut 4" casing at 4825'. POOH w/ 4" casing. Leave 4" liner from 4825' to 6100' (TD).
- 10. RIH w/ tbg and locate end of tbg at 4800'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

DISTRICT I P.O. Box 1980, Hobbs, KM 88241-1980 State of New Mexico

Form C-102
Perised Pebruary 10, 1994
Submit to appropriate District Office

ED State Lease - Color Form C-102

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-9719

DISTRICT III

OIL CONSERVATION DIVISION ESTA

Fee Lease - 3 Copies

1000 Rio Brazos Rd., Axtec. NM 87410

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

DISTRICT IV P.O. Box 2088, Santa Fe, NM 57504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-30833	Pool Code 1 96718	Pool Name Loco Hills; Glorieta, Yeso		
Property Code 302502	•	rty Name Well Number R STATE 1		
OGRID No. 229137	Operation COG Operation	tor Name Elevation 3677		

Surface Location

	VI or lot No.	Section	Township	Range	Lot Idn	Peet from the	North/South line	Peet from the	East/West line	County
-	Р	16	17 S	30 E		430	SOUTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or	lot No.	Section	Township	Range	Lot lån	Feet from the	North/South line	Feet from the	East/West line	County
Dedica	ted Acres	Joint o	r Infill Co	nsolidation (Code Ore	ler No.	,			
	40					····				

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 the the information contained herein is true and complete to the best of my binocledge and bettef.
	Signature Kanicia Carrillo
	Printed Name Regulatory Analyst Title 10/19/09 Date
	SURVEYOR CERTIFICATION I hereby certify that the well location shows on this plat was plotted from field notes of actual surveys made by the or under my supervison, and that the same is true and correct to the best of my bekis.
 	NOVEMBER 2, 1999 Date Surveys duming Strature State Survey of the Protein Brain Surve
	330' Cardichte No. ROMAN SEDSON. 323' CART, C. EIDSON. 1244