Form 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

WESLEY W. INGRAM

SUNDRY NOTICES AND REPORTS (	ON WELLS

Do not use thi	NOTICES AND REPO is form for proposals to II. Use form 3160-3 (AP	drill or to re-	enter an	J-AK I E ?	NMNM0467932 6. If Indian, Allottee o	
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well					8 Well Name and No.	
Oil Well Gas Well Oth	ner				W D MCINTYRE	E8 -
Name of Operator     COG OPERATING LLC	Contact: E-Mail: kcarrillo@	KANICIA CA conchoresource		· . • • • • • • • • • • • • • • • • • •	9. API Well No. 30-015-31787	
3a. Address 550 WEST TEXAS AVE STE MIDLAND, TX 79701	1300	3b Phone No Ph: 432-68	. (include area code 5-4332	)	10. Field and Pool, or LOCO HILLS;G	Exploratory LORIETA-YESO
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	n)	· <del>-</del> ·		11. County or Parish,	and State
Sec 20 T17S R30E 1650FSL	2250FWL				EDDY COUNTY	/, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF	NOTICE, F	REPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
	☐ Acidize	<b>⊠</b> Dee	pen	Produ	ction (Start/Resume)	☐ Water Shut-Off
□ Notice of Intent	Alter Casing		ture Treat	Reclar		☐ Well Integrity
☐ Subsequent Report	Casing Repair	_	Construction	☐ Recon		Other
☐ Final Abandonment Notice	Change Plans		and Abandon		orarily Abandon	ь
u					Disposal	
If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f COG Respectfully request to a 1. MIRU rig. 2. PU 4-3/4" bit and drill 4-3/4 3. POOH w/bit and drillstring. 4. RIH w/ logs and log from TI 5. RIH w/4", 11.3# casing. 6. Cmt casing from TD to 480 7. RDMO rig.	rk will be performed or provided operations. If the operation rebandonment Notices shall be final inspection.)  deepen to the Yeso as for the	e the Bond No. or sults in a multipled only after all llows:	n file with BLM/BI e completion or recrequirements, inclu	A Required sompletion in ding reclamat	subsequent reports shall be a new interval, a Form 316	Efiled within 30 days 60-4 shall be filed once and the operator has
14. I hereby certify that the foregoing is	Electronic Submission	#59854 verified OPERATING LI	l by the BLM We .C, sent to the C	II Informatio	on System	
Name (Printed/Typed) KANICIA	CARRILLO		Title PREPA	ARER		
Signature (Electronic S	Submission)		Date 04/23/2	2008 r		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE	JSE APPRO	VED
Approved By  Conditions of approval, if any, are attached certify that the applicant holds legal or equal to	bd. Approval of this notice doe uitable title to those rights in the	s not warrant or	Title		MAY 10	2008 Date
which would entitle the applicant to condu	Office	,	WESLEYW	NGRAM		

# W D McIntyre E 8 May 10, 2008 Conditions of Approval

- 1. Work to be complete within 90 days.
- 2. Variance for stand-off of less than 0.422" is approved due to NMOCD classifying the formations in this area as the Yeso group Pool 96718.
- 3. Minimum tie back to be 100', which should clear Paddock perforations.
- 4. Variance for not testing seal also approved based on NMOCD classification of formations in this area as the Yeso group Pool 96718.
- 5. Radial CBL to be run. Submit copy to BLM.
- 6. Surface disturbance is not to exceed existing pad without prior approval.
- 7. Steel tanks to be used.
- 8. BOP to be tested to 1000 psi based on BHP expected.
- 9. Subsequent sundry and completion report required when work is complete.

WWI 051008

r Transfer reserves

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

# State of New Mexico

Energy, Minerals & Natural Resources Department

# OIL CONSERVATION DIVISION

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

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

MENDED REPORT

Fee Lease - 3 Copies

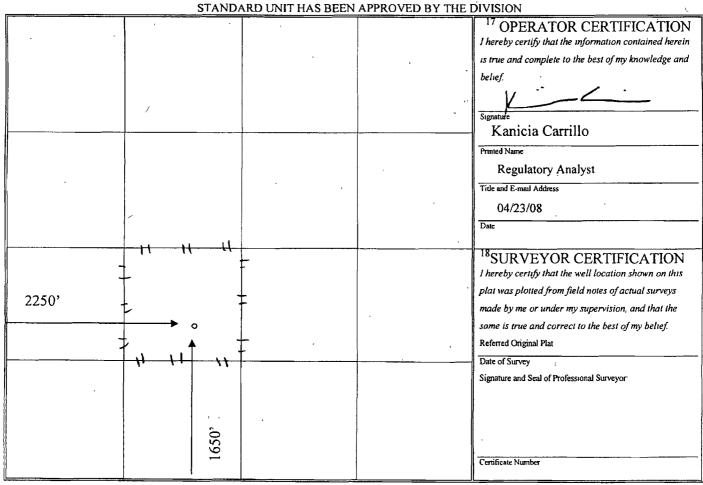
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	<sup>2</sup> Pool Code	ne		
30-015-31787	96718 Loco Hills		; Glorieta-Yeso	
<sup>4</sup> Property Code	• '	<sup>3</sup> Property Name		
302576 W		D McIntyre E		
<sup>7</sup> OGRID N₀.	Operator Name ,			
229137	COG OPERATING LLC 3634			

10 Surface Location

UL or let no.	Section 20	Township 17S	Range 30E	Lot Idn	Feet from the	North/South line South	Feet from the 2250	East/West line West	County <b>Eddy</b>
	1 20	17.5	1	tom Hole		Different Fron		West	Eddy
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acre	es 13 Joint o	r Infill 14 C	onsolidation Co	ode 15 Ord	er No.				,

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-



#### MCINTYRE E FED #8 DEEPENING PROGRAM

# 1. Estimated Tops of Important Geologic Markers

Yeso Group 4400'

# 2. Estimated Depths of Anticipated Fresh Water, Oil, and Gas

Yeso Group 4400'

This deepening originates in the Yeso and will finish at the base of the Yeso. The entire Yeso group is an oil and gas bearing interval.

3. Casing Program

11.6 nom

Hole Size	Interval	OD Casing	Weight	Grade	Jt./Condition	Burst/collapse/tension
4-3/4"	5020' - 6600'	4"	11.3#	L-80	ULT-FJ/New	3.07/3.16/3.37

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 0.422" STAND OFF RULE BETWEEN CASING AND WELLBORE.

# 4. Cement Program

4" Liner:

Class C, 115 sxs, yield 1.37. 100' minimum tie back to production casing.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE LINER TOP FLUID ENTRY OR PRESSURE TEST BECAUSE THE DEEPENED WELL WILL BE COMPLETED IN THE SAME ZONE AS THE CURRENT PERFS AND THE ENTIRE INTERVAL IS RECOGNIZED BY THE OCD AS ONE INTERVAL (YESO). AS PER ONSHORE ORDER NO. 2 SECT III: REQUIREMENTS, PART B. CASING AND CEMENTING REQUIREMENTS, SUBPART b. "NO TEST SHALL BE REQUIRED FOR LINERS THAT DO NOT INCORPORATE OR NEED A SEAL MECHANISM." COG BELIEVES WE MEET THE CRITERIA TO NOT BE REQUIRED TESTING THE LINER TOP BECAUSE THERE IS NO NEED FOR A SEAL MECHANISM.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 200' MINIMUM TIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 4826'. THE 75' WILL ALLOW US TO NOT COVER EXISTING PERFORATIONS.

#### 5. Minimum Specifications for Pressure Control

The BOP equipment will be a 3000 psi double ram type manually operated preventer. This equipment will be nipple up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. There is no choke or kill manifold. The BOP is tested to 500 psi prior to drilling new formation. Access to the annulus will be through the valves on the 5-1/2" casing head.

#### 6. Types and Characteristics of the Proposed Mud System

This well will drilled from end of the existing 5-1/2" casing to TD with 2% KCl.

#### 7. Auxillary Well Control and Monitoring Equipment

A. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

# 8. Logging, Testing, and Coring Program

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 5-1/2" production casing shoe.
- B. No drill stem tests.

- C. No conventional coring anticipated.
- D. Further testing procedures will be determined after the 4" liner has been cemented at TD, based on drill shows and log evaluation.

### 9. Abnormal Conditions, Pressure, Temperatures, and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottomhole temperature at TD is 110 degrees and the estimated maximum bottomhole pressure is 2300 psig. The drilling starts in the Yeso and ends in the Yeso. The section of Yeso being drilled has very low permeability (less than 1 md).

### 10. Anticipated Starting Date and Duration of Operations

There will be no road or location work required as this is an existing well location. Once commenced, drilling operations should be finished in approximately 14 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made.

## 11. Centralizer Program

Fixed blade stabilizer subs will be utilized in the casing string to insure adequate isolation and seal throughout the wellbore. These stabilizer subs are positive fixed blade type. These subs will actually be screwed into the casing string. A diagram of the fixed blade stabilizer sub is located at the end of this program.

The standard location of the stabilizers will be the following:

Shoe Location

Guide shoe, 1 jt casing, stabilizer sub, float collar, 1 jt casing, stabilizer sub

Perf Interval Location – between perf intervals Stabilizer sub, 1 jt casing, stabilizer sub

Top of Liner Location

DV tool, 1 jt casing, stabilizer sub, 1 jt casing, stabilizer sub

#### 12. Summary Drilling and Completion Program

#### **Deepening Procedure**

- 1. MIRU rig.
- 2. PU 4-3/4" bit and drill 4-3/4" from 5020' to 6600'.
- 3. POOH w/ bit and drillstring.
- 4. RIH w/ logs and log from TD to 4900'.
- 5. RIH w/ 4", 11.3# casing. See section 11 for general centralizer program.
- 6. Cement casing from TD to 4867' w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
- 7. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
- 8. RDMO rig.

#### **Completion Procedure**

- 1. MIRU rig.
- 2. RIH/ w/ perforating guns and perforate Yeso from 6400 6600 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 6350'.
- 4. RIH w/ perforating guns and perforate Yeso from 6100' 6300'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 6050'.
- 6. RIH w/ perforating guns and perforate Yeso from 5800' 6000'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand.
- 8. RIH and drill out plug at 6050' and 6350'.
- 9. RIH and cut or back off 4" casing at 4867'. POOH w/ 4" casing. Leave 4" liner from 4867' to 6600' (TD).
- 10. RIH w/ tbg and locate end of tbg at 4800'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

SIZE A	
# 150 3.347 3/4"	3 C 3 3 7 3 6 ,
m o	ACLINGED 1.3 SCPE
DRIFT WHERE ON COSE & COSE & CASHE & NO COSE & CASHE & NO COSE & CASHE & NO COSE & CASHE & CAS	
RAY OIL TOOL CO.  CENTRALIZED INTERCASING  CONTENCASING  HAVE SILLY 8" QUES"	Lav - Pilo