Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MAY 1 4 2008

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

SUNDRY NOTICES AND REPORTS ON WELLS OF ART DO not use this form for proposals to drill or to re-enter an	ESI/
Do not use this form for proposals to drill or to re-enter an are	-

Lease Serial No. NMLC057634

abandoned we	II. Use form 3160-3 (API	D) for such proposals.	6. If Indian, Allottee	or Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	tions on reverse side.	7. If Unit or CA/Agr	eement, Name and/or No
Type of Well ☐ Gas Well ☐ Ot			8. Well Name and No MCINTYRE A W	
Name of Operator COG OPERATING LLC		KANICIA CARRILLO conchoresources.com	9. API Well No. 30-015-23407	_
3a. Address 550 WEST TEXAS AVE STE MIDLAND, TX 79701	1300	3b. Phone No. (include area code Ph: 432-685-4332		r Exploratory GLORIETA-YESO
4. Location of Well (Footage, Sec., 1	I., R., M., or Survey Description)	11. County or Parish	, and State
Sec 20 T17S R29E 1650FNL 30	330FWL, .		EDDY COUNT	Y, NM
12. CHECK APP	ROPRIATE BOX(ES) TO	O INDICATE NATURE OF	NOTICE, REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION	· TYPE OF ACTION			
□ Notice of Intent □ Subsequent Report □ Final Abandonment Notice	☐ Acidize ☐ Alter Casing ☐ Casing Repair ☐ Change Plans ☐ Convert to Injection	Deepen □ Fracture Treat □ New Construction □ Plug and Abandon □ Plug Back	☐ Production (Start/Resume) ☐ Reclamation ☐ Recomplete ☐ Temporarily Abandon ☐ Water Disposal	□ Water Shut-Of □ Well Integrity □ Other
Attach the Bond under which the wo following completion of the involved	ally or recomplete horizontally, ork will be performed or provide d operations. If the operation re- bandonment Notices shall be fil	give subsurface locations and meas the Bond No. on file with BLM/Bl sults in a multiple completion or rec	ing date of any proposed work and appropriet and true vertical depths of all pertian. Required subsequent reports shall be completion in a new interval, a Form 3 ading reclamation, have been completed.	inent markers and zones be filed within 30 days 160-4 shall be filed once
COG Respectfully request to 1. MIRU rig. 2. PU 4-3/4" bit and drill 4-3/4 3. POOH w/bit and drillstring.	4715/	SEE ATT	ACHED FOR ONS OF APPROVA	L

MIRU rig.
 PU 4-3/4" bit and drill 4-3/4" from 4836' to 6600'.
 POOH w/bit and drillstring.
 RIH w/ logs and log from TD to 4800'.
 RIH w/4", 11.3# casing.
 Cmt casing from TD to 4736" w/115 sxs class C

6. Cmt casing from TD to 4736 . w/115 sxs class C cmt. Drop plug and open DV tool. Cmt off DV tool. Drop plug to close DV tool.

7. Pu workstring and RIH and dril out DV tool. POOH and LD workstring.

8. RDMO rig.

14 Thereby certify that the foregoing is true and correct. Electronic Submission #60027 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad				
Name (Printed/Typed	# KANICIA CARRILLO	Title	PREPAR	ARER
Signature	(Electronic Submission)	Date	05/01/20	2008
THIS SPACE FOR FEDERAL OR STATE OFFICE USE				
Approved By		Title		Date
certify that the applicant h	any, are attached. Approval of this notice does not warrant or solds legal or equitable title to those rights in the subject lease oplicant to conduct operations thereon.	Office	;	MAY 10 2008
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and villfully towards the any department of the Ur States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. PETROLEUM ENGINEER			nd villfully towness in An Angency of the United in PETROLEUM ENGINEER	

McIntyre A West 9 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. Variance granted for minimum tie back of 50'. TD of well is 4715' not 4836' with bottom perforation at 4660' not 4826'. When plugged, cement plug will be required across this tie back.
- 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

District I 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

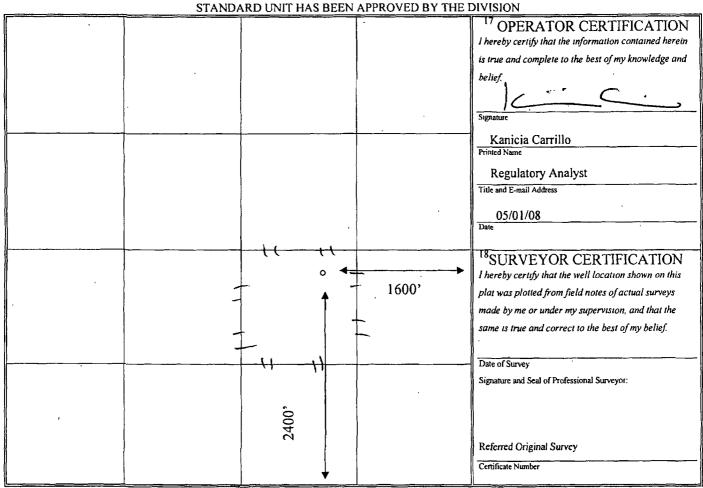
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 API Number 3 Pool Name Pool Code Loco Hills; Glorieta-Yeso 96718 30-015-23407 ⁴ Property Code 5 Property Name Well Number 302521 McIntyre A West OGRID No. Operator Name ⁹ Elevation 229137 COG OPERATING LLC 3646 ¹⁰ Surface Location UL or lot no. Section Feet from the North/South line Feet from the East/West line County Township Range Lot ldn 20 North 29E 1650 330 West Eddy L 17S 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill * Consolidation Code 15 Order No. 40

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



MCINTYRE A WEST #9 DEEPENING PROGRAM

1. Estimated Tops of Important Geologic Markers

Yeso Group 4450'

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

OD Casing

Yeso Group 4450'

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

Interval

4836 - 6600'

Hole Size

4-3/4"

1116 110 110				
	Weight	Grade	Jt./Condition	Burst/collapse/tension
	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

, see COA Class C, 115 sxs, yield 1.37. 100' minimum tie back to production casing. 4" Liner:

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 JIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 1826. THE 78 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. COH

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% KCI.

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 4836' to 6600'.
- 3. POOH w/ bit and drillstring.
- 4. RIH w/ logs and log from TD to 4800'.
- 5. RIH w/ 4", 11.3# casing. See section 11 for general centralizer program.
- 6. Cement casing from TD to 4736' 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 4736'. POOH w/ 4" casing. Leave 4" liner from 4736' to 6600' (TD).
- 10. RIH w/ tbg and locate end of tbg at 4700'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

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