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

FORM APPROVED OMB NO. 1004-0135

Expires: July 31, 2010

Lease Serial No. NMLC029405A 🔎

# SUNDRY NOTICES AND REPORTS ON WEL

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals ANY 1

6. If Indian, Allottee or Tribe Name

		,	MAY 14 ZUUR		
SUBMIT IN TRII	PLICATE - Other instruc	tions on reverse sid	RRS (	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well			According to the second	8. Well Name and No. BC FEDERAL 3	
☑ Oil Well ☐ Gas Well ☐ Oth					<u> </u>
Name of Operator     COG OPERATING LLC		KANICIA CARRILLO onchoresources.com		9 API Well No 30-025-34932	*
3a. Address 550 WEST TEXAS AVE STE MIDLAND, TX 79701	1300	3b. Phone No. (include Ph: 432-685-4332	area code)	10. Field and Pool, or MALJAMAR;YE	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	)		11. County or Parish,	and State
Sec 20 T17S R32E 1650FNL	940FFI /	•		LEA COUNTY,	NM .
Unit H	0.107.22			,	
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICATE NATUI	RE OF NOTICE	, REPORT, OR OTHE	R DATA
TYPE OF SUBMISSION		1	TYPE OF ACTIO	N .	
— Nation of Intent	Acidize	Deepen	□ Proc	duction (Start/Resume)	□ Water Shut-Off
Notice of Intent	Alter Casing	Fracture Trea	t ☐ Rec	lamation	Well Integrity
☐ Subsequent Report	Casing Repair	☐ New Constru		omplete	Other
Final Abandonment Notice	Change Plans	☐ Plug and Aba	_	porarily Abandon	ш
	Convert to Injection	Plug Back	_	er Disposal	
	operations. If the operation repandonment Notices shall be fill inal inspection.) deepen to the Yeso as followed by the fill in the Yeso as followed by the fill in the Yeso as followed by the fill in the Yeso as followed by the Yeso as followed b	sults in a multiple completed only after all requirements.  SE CC	on or recompletion ats, including reclan	in a new interval, a Form 310 nation, have been completed,	50-4 shall be filed once and the operator has
14. Thereby certify that the foregoing is	Electronic Submission # For COG	OPERATING LLC, sen	t to the Hobbs	tion System	
Name (Printed/Typed) KANICIA CARRILLO			PREPARER		
Signature (Electronic S		Date	04/14/2008		
	THIS SPACE FO	R FEDERAL OR S	TATE OFFICE	USE APPRO	VED
Approved By Aux US Conditions of approval, if any, are attache	<ul> <li>d. Approval of this notice does</li> </ul>	CT SUPERV STITIE.	SENERAL MAN	NGEP MAY 10	2008 Date
certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to conduct the applicant to conductive the applicant to conduct the applicant the	Mobile	esas			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to mak property of the United					

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
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

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

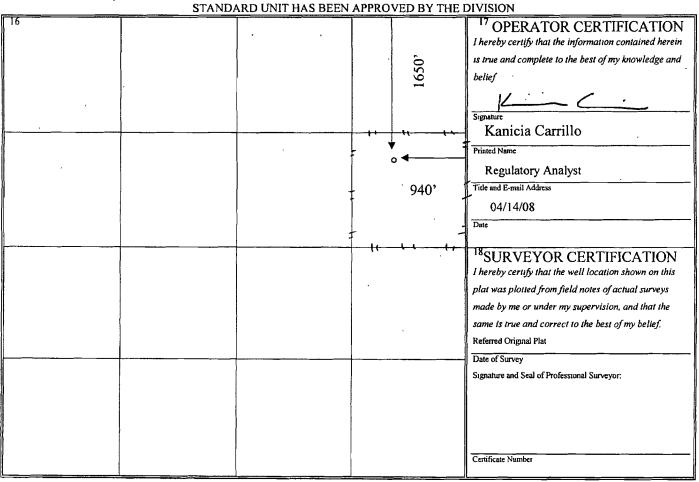
Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	г	<sup>2</sup> Pool Code			3 Pool Nam	ie		
30-025-34932		ļ	44500		Maljamar; Yeso, West				
<sup>4</sup> Property	Code				<sup>5</sup> Property N	ame		, w	/ell Number
30245	56				BC Feder	ral .			3
OGRID 7	No.				Operator N	ame		9	Elevation
22913	17	COG OPERATING LLC 4019					4019		
					<sup>10</sup> Surface I	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	20	17S	32E		1650	North	940	East	Lea
		•	<sup>11</sup> Bot	tom Hol	e Location If	Different Fron	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acre	es 13 Joint o	r Infill 14 C	onsolidation C	ode 15 Ord	ler No.				<del> </del>

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



#### **BC FED #3 MASTER DEEPENING PROGRAM**

### 1. Estimated Tops of Important Geologic Markers

Yeso Group 5325'

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

Yeso Group 5325'

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.

(11.6 nons)

3. Casing Program

3. Guo8	. 10g. a		_			1
Hole Size	Interval	OD Casing	Weight	Grade	Jt./Condition	Burst/collapse/tension
4-3/4"	5975' – 7000'	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. 200' 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.

#### 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% 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 5975' to 7000'.
- 3. POOH w/ bit and drillstring.
- 4. RIH w/ logs and log from TD to 5946'.
- 5. RIH w/ 4", 11.3# casing. See section 11 for general centralizer program.
- 6. Cement casing from TD to 5746' 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 6900 6700 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 6600'.

- 4. RIH w/ perforating guns and perforate Yeso from 6500' 6300'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand. Set plug at 6200'.
- 6. RIH w/ perforating guns and perforate Yeso from 6100' 5900'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 89,900 # of sand.
- 8. RIH and drill out plug at 6200' and 6600'.
- 9. RIH and cut or back off 4" casing at 5746'. POOH w/ 4" casing. Leave 4" liner from 5746' to 7000' (TD).
- 10. RIH w/ tbg and locate end of tbg at 5700'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.

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