UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. JUL 29 200 for Indian, Allottee or Tribe Name

NMLC056551A

SUBMIT IN TRI	7 If Unit or CA/Agreement, Name and/or No					
1 Type of Well	8. Well Name and No HOLDER CB FEDERAL 4					
⊠ Oil Well ☐ Gas Well ☐ Oth		DEIVAL 4				
2 Name of Operator COG OPERATING LLC	9. API Well No. 30-015-25837-00-S1					
3a Address 550 W TEXAS, STE 1300 FA MIDLAND, TX 79701	10. Field and Pool, or Exploratory GRAYBURG					
4. Location of Well (Footage, Sec., 7	11 County or Parish, and State					
Sec 17 T17S R30E SWNW		EDDY COUNTY, NM				
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE 1	NATURE O	F NOTICE, RE	PORT, OR OTHE	R DATA
TYPE OF SUBMISSION	OF ACTION					
- Notice of Inter-	☐ Acidize	⊠ Deep	en	Producti	on (Start/Resume)	☐ Water Shut-Off
Notice of Intent	Alter Casing	-	ure Treat	☐ Reclama		☐ Well Integrity
☐ Subsequent Report	Casing Repair	☐ New	Construction	☐ Recomp	ete	Other
Final Abandonment Notice	Change Plans	_	and Abandon	☐ Tempora	rily Abandon	_ ,
J	Convert to Injection	Plug	- , — .			
testing has been completed. Final A determined that the site is ready for the COG Operating respectfully respectfully respectfully respectfully respectfully respectfully.	final inspection)	•	equirements, ir	ncluding reclamation	n, have been complete	d, and the operator has
				CHED FOI NS OF AP	•	· .
14. I hereby certify that the foregoing is	Electronic Submission #	PERATING LLC	C, sent to the	Carlsbad	-	
Name(Printed/Typed) KANICIA				PARER	,	
Signature (Electronic S	Submission)		Date 06/02	2/2009		
	THIS SPACE FO				E	
		T				2009
Approved By WESLEY INGRAM	, ,		TitlePETRO	LEUM ENGINE	ER ·	Date 07/25/20

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 make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

District 1 1625 N. French Dr., Hobbs, NM 88240 District 11

1301 W. Grand Avenue, Artesta, NM 882 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 & Natiral 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

API Number				² Pool Code		3 Pool Name				
30-	-015-258	37		28509		Grayburg Jackson; SR-Q-G-SA				
* Property Code				Property \	ame	, M	Well Number			
3025	04	Holder CB							4	
7OGRID	Nο		¹ Operator Name					,	⁹ Elevation	
2291	37	7 COG OPERATING LLC						3646		
					10 Surface I	Location		1		
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line County		
\mathbf{E}	17	17S	30E	İ	2310	North	330	West	Eddy	
			II Bot	tom Hol	e Location If	Different Fron	n Surface			
JL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West hne	County	
2 m. e	Tis s	1 50 110		1150	İ	L				
Dedicated Acr	es 13 Joint o	r India	onsolidation C	ode Ord	der 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

STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION						
			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein			
		-	is true and complete to the best of my knowledge and			
1 -			belief ,			
			V-Ci			
			Kanicia Carrillo			
6			Pranted Name			
2310′			Regulatory Analyst			
			Title and E-mail Address			
330'		•	06/02/09			
		,	Date			
·			18 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			
, .			Referred Original Plat			
J			Date of Survey			
			Signature and Seal of Professional Surveyor			
	• •		, ,			
	,	,	Certificate Number			

CB HOLDER FED #4 DEEPENING PROGRAM

1. Estimated Tops of Important Geologic Markers

Yeso Group +/- 4200'

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

Yeso Group +/- 4200'

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

Hole	Interval	OD	Weigh	Grade	Jt./Condition	Burst/collapse/tens
Size		Casing	†	**		ion
4-3/4"	4584'	- 4"	11.3#	L-80 or	ULT-FJ/New	3.98/4.09/3.21 (L80)
	6000'			P-110		5.47/5.23/4.25
						(P110)

^{**} Due to casing shortages, either L-80 or P-110 will be run. The exact grade is unknown at time of requesting permit.

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. 75' 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 4548'. 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.

See COA

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 it casing, stabilizer sub, 1 it casing, stabilizer sub

12. Summary Drilling and Completion Program

Deepening Procedure

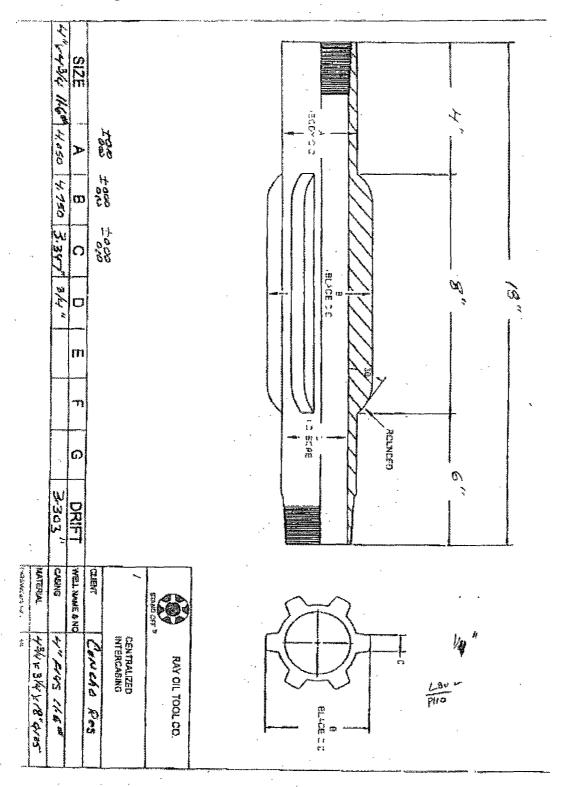
- 1. MIRU rig.
- 2. Sqz SA w/ +/- 400 sx of Class C neat. Drill out squeeze.
- 3. Sqz upper Yeso w/ +/- 400 sx of Class C neat. Drill out squeeze.

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- 4. PU 4-3/4" bit and drill 4-3/4" hole from 4680' to 6000'.
- 5. POOH w/ bit and drillstring.
- 6. RIH w/logs and log from TD to 4600'.
- 7. RIH w/ 4", 11.3# casing. See section 11 for general centralizer program.
- 8. Cement casing from TD to 4584' w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
- 9. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
- 10. RDMO rig.

Completion Procedure

- 1. MIRU rig.
- 2. RIH/w/ perforating guns and perforate Yeso from 5700 5900 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5650'.
- 4. RIH w/ perforating guns and perforate Yeso from 5400' 5600'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5350'.
- 6. RIH w/ perforating guns and perforate Yeso from 5100' 5300'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand.
- 8. RIH and drill out plug at 5350' and 5650'.
- 9. RIH and cut or back off 4" casing at 4584'. POOH w/ 4" casing. Leave 4" liner from 4584' to 6000' (TD).
- 10. RIH w/tbg and locate end of tbg at 4500'.
- 11. RIH w/ rods and pump.
- 12. RDMO rig.



Holder CB Federal 4 COG Operating LLC 30-015-25837 July 25, 2009 Conditions of Approval

- 1. The sundry states that there are perforations to a depth of 4548'. BLM has no records on file regarding these perforations. Per the BLM records and NMOCD files on line, the perforations are in the San Andres.
- 2. Also there is no Downhole Commingle approval for the San Andres and Yeso formations.
- 3. Submit documentation for items number 1 and 2.
- 4. Work to be complete within 180 days.
- 5. Surface disturbance beyond the existing pad requires prior approval.
- 6. Closed loop system to be used.
- 7. H2S monitoring equipment should be onsite for personnel protection from surrounding oil operations. Operator should not encounter H2S while deepening.
- 8. BOP to be tested to 1000 psi based on BHP expected.
- 9. Variance for stand-off of less than 0.422" is approved due to NMOCD classifying the formations in this area as the Yeso group.
- 10. Variance approved for a minimum tie back of 75°. When plugged, cement plug will be required across this tie back and across squeezed perforations.
- 11. Variance for not testing seal also approved based on NMOCD classification of formations in this area as the Yeso group.
- 12. If cement does not circulate to DV tool, the appropriate BLM office is to be notified.
- 13. Test casing as per Onshore Order 2.III.B.1.h.
- 14. Subsequent sundry detailing work and current well test data are to be submitted when work is complete.

WWI 072509