UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OperNOBBS OCD

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

MAR 1 1 2020 Lease Serial No. NMLC061842

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Do not use thi abandoned we	6. If Indian, Allottee or Tribe Name					
SUBMIT IN		ement, Name and/or No.				
1. Type of Well Gas Well Oth		8. Well Name and No. MILLER BX 2				
2. Name of Operator COG OPERATING, LLC		ABIGAIL ANDERSON cmandassociates.com			9. API Well No. 30-025-00544	
3a. Address 600 W. ILLINOIS AVE MIDLAND, TX 79701		3b. Phone No. (include area code) Ph: 432-580-7161			10. Field and Pool or Exploratory Area MALJAMAR (GRBG-SA)	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, State	
Sec 14 T17S R32E ODES 19 32.832721 N Lat, 103.730697					LEA CO COUNTY, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION		ACTION				
Notice of Intent	□ Acidize	☐ Dee	Deepen		ion (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hyd	☐ Hydraulic Fracturing		ation	■ Well Integrity
☐ Subsequent Report	Casing Repair	□ Nev	v Construction	□ Recomplete		Other
☐ Final Abandonment Notice	□ Change Plans	🛭 Plug	Plug and Abandon		arily Abandon	
	Convert to Injection	Plug Back		■ Water Disposal		
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab- determined that the site is ready for fi	ally or recomplete horizontally, it will be performed or provide operations. If the operation re pandonment Notices must be fil inal inspection.	give subsurface the Bond No. o sults in a multip ed only after all	locations and measurn file with BLM/BIA le completion or reco	red and true ve . Required sub moletion in a r	rtical depths of all pertinosequent reports must be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 must be filed once
1. Tag existing CIBP w/ 25 sx	cmt on ton @ 3610'		SEE ATTACHED FOR			
2. Circulate hole w/ MLF. Pres 3. Spot 25 sx cmt @ 2435-193 4. Perf & Sqz 50 sx cmt @ 12: 5. Spot 30 sx emt @ 327 227* 6.Perf & Sqz 50 sx cmt @ 227 7. Cut off well head, verify cmt	ssure test csg. 95'. WOC & Tag (B/Salt) 06-1006'. WOC & Tag (To . WOC & Tag (holes in ca 4' to Surface. 26 /	- 2085 _.	CON	ONDITIONS OF APPROVAL		
Below ground	level dry	hole	marker	(e	quired	
14. I hereby certify that the foregoing is	Electronic Submission #		d by the BLM Well LC, sent to the H		System	
Name (Printed/Typed) ABIGAIL A		Title REGULATORY				
Signature (Electronic S	Submission)		Date 09/16/2019			
	THIS SPACE FO	OR FEDERA	AL OR STATE (OFFICE U	SE	
Approved By James	Como_		Title SP	67		9-24-19 Date
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent to applicate to applicate to applicate the applicate	iitable title to those rights in the	not warrant or subject lease	Office C	'~		

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.

(Instructions on page 2)

** OPERATOR-SUFFORDED CONTROL ** OPERATOR SUFFORDED CONTROL **

X7 NMO(D 3-27-20

COG Operating LLC

Lease & Well # Miller BX #2

Spud - 7/11/60

Elevation - 4088 DF

KB -

261

6.Perf & Sqz 50 sx cmt @ 227* to Surface. 8 5/8" 24# @ 197", 125 sx CL C circ cmt.

5. Spot 30 sx cmt @ 327-227' WOC & Tag (holes in casing)

4. Perf & Sqz 50 sx cmt @ 1206-1006'. WOC & Tag (T/Salt)

Top of cement @ 1,150', temp survey.

- 3. Spot 25 sx cmt @ 2135-1935'. WOC & Tag (B/Salt) @ ZZ35 = ZZ85 ZZ8
- 2. Circulate hole w/ MLF. Pressure test csg.
- 1. Tag existing CIBP w/ 25 sx cmt on top @ 3610'.

25 sx of cement top of cement @ 3610' per Jim Amos

CIBP @ 3845'

GB/SA

3896-3900

Acidized w/2,525 gal 15% NEFE

4083-4121

Frac wo9,000 gal LC, 9,000 # sd

4139 - 4162

Frac w/20,000 gal LC, 20,000, 20,000 # sd

4226 - 40

Frac w/15,000 gal LC, 15,000 # sd

5 1/2" 14 # csg @ 4450' cmt w/1,500 sx C, d/n circ. TOC @ 1150' fs

Acidized w/3.000 gal 15% NEFE, Hot acid job: 32,000 gal 20%, 52,000 gal lg.

OH TD @ 4560'

COG Operating LLC

Lease & Well # Miller BX #2

Spud - 7/11/60 KB -Elevation - 4088 DF' **2/1** 8 5/8" 24# @ 197" 125 sx CL C circ cmt.* On 3376 GB 3827 SA 4152 Top of cement @ 1.150', temp survey. 25 sx of cement top of cement @ 3610' per Jim Amos CIBP @ 3845' GB/SA 3896-3900 ---Acidized w/2,525 gal 15% NEFE 4083-4121 Frac wo9,000 gal LC, 9,000 # sd 4139 - 4162 Frac w/20,000 gal LC, 20,000, 20,000 # sd 4226 - 40 Frac w/15,000 gal LC, 15,000 # sd 4481/4450 5 1/2" 14 # csg @ 4450', cmt w/1,500 sx C, d/n circ. TOC @ 1150' fs Acidized w/3,000 gal 15% NEFE. Hot acid job: 32,000 gal 20%, 52,000 gal lg.

> 32.8327217 -103.7306976

OH TD @ 4560'

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Permanent Abandonment of Federal Wells Conditions of Approval (LPC Habitat)

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

- 2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off. Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

- 7. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**
- 8. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

<u>Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:</u>
From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted

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- 7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.
- 8. <u>Trash</u>: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

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