Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT OCD Artesla

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5. Lease Serial No

	BUILTO OF LAIN	DIMANAGEMENT		
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.				NMLC028793C
				6. If Indian. Allottee or Tribe Name
				7. If Unit or CA/Agreement, Name and/or No.
SUBMIT IN TRIPLICATE – Other instructions on page 2				The first of the f
1. Type of Well				NMNM88525X
Oil Well Gas Well Other				8. Well Name and No.
2. Name of Operator				Burch Keely Unit #77
COG Operating, LLC				9. API Well No.
3a. Address 3b. Phone No. (include area code)				30-015-03053
600 W. Illinois, Midland, TX 79701 432-686-3087				10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				Burch Keely CL- Upper Yeso
Sec 23 T17S R29E Mer NMP NWSW 2465FSL 330FWL				11. County or Parish, State Eddy Co, NM
	PPROPRIATE BOX	(ES) TO INDICATE NA	TURE OF NOTICE, REP	·
TYPE OF SUBMISSION	1	(25) 10 11210112111	TYPE OF ACTION	
TITE OF SOBMISSION				
	Acidize	Deepen	Production (Start/Resume)) Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	Reclamantion	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other
	Change Plans	Plug and Abandon	Temporarily Abandon	
Final Abandonment Notice	Convert to Injection		Water Disposal	
12.0				proposed work and approximate duration thereof.
3. Perf & Sqz 35 sx @ 900- 4. Perf & Sqz 75 sx @450- 5. Perf & Sqz 45 sx @ 60' t 6. Cut off well head, weld of	200'. (Shoe and T o surface.	Salt).		
	<u></u> 7.	, mm, 60, 701.	STE MIN CONDING	CHED FOR CHS OF APPROVAL
		RECERTED	· ř	- co/c
LPC COAS A	Hacher			Accepted for record
 I hereby certify that the foregoing is Name (Printed Typed) 	une and correct.)	ŀ		" CSDI " "UCA
1300 Montyon		Title	Act	bion Villa 12
1)	×- 1	Title	11350	
Signature / In 19th		Date	1-17-17	
3	THIS SPAC	E FOR FEDERAL (OR STATE OFFICE U	ISE /
Approved by	Valls		Title Eng	Date 2/1/17
Conditions of approval, if any, are attach the applicant holds legal or equitable title applicant to conduct operations thereon.			24	

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.

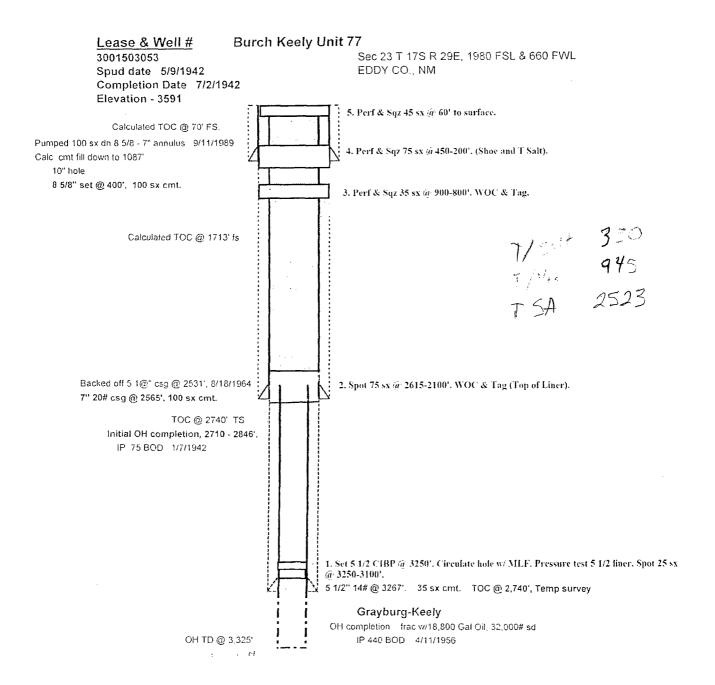
COG Operating, LLC

Burch Keely Unit 77 Lease & Well # 3001503053 Sec 23 T 17S R 29E, 1980 FSL & 660 FWL Spud date 5/9/1942 EDDY CO., NM Completion Date 7/2/1942 Elevation - 3591 Pumped 100 sx dn 8 5/8 - 7" annulus 9/11/1989 Calc. cmt fill down to 1087' Calculated TOC @ 70' FS. 10" hole 8 5/8" set @ 400', 100 sx cmt. Casing cementing calculations 8 5/8" 24# 10" Surface hole Cement volume. = 100 X 1.32 CF/SK = 132 cu. Ft. slurry 132 - 25% slurry loss for shoe joint & hole loss = 99 CF Calculated TOC @ 1713' fs 99 CF X ann. Vol. of 7,1594 FT/CF = 709" 400 - 330 =70' estimated (calculated) top of cement. 7" 20# 8 1/4" hole 100 sx Cement volume = 100 X 1 18 CF/SK = 118 cu.ft. slurry. 118 - 25% slurry loss for shoe joint & hole loss = 88.5 cf 88.5 CF X ann. Vol. of 9.6182 FT/CF =851.2' 2565 -851.2 = 1713' estimated (calculated) top of cement. Backed off 5 1@" csg @ 2531' 8/18/1964 7" 20# csg @ 2565', 100 sx cmt. TOC @ 2740', TS Initial OH completion, 2710 - 2846'. IP 75 BOD 1/7/1942 5 1/2" 14# @ 3267'. 35 sx cmt. TOC @ 2,740', Temp survey Grayburg-Keely OH completion frac w/18,800 Gal Oil, 32,000# sd OH TD @ 3,325' IP 440 BOD 4/11/1956 59 CH

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COG Operating, LLC



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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.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

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