UNITED STATES DEPARTMENT OF THE INTERIOR

OCD Artesia

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

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

LC-028793-A 6. If Indian, Allottee or Tribe Name

abandoned well. Use Form 3160-3 (APD) for such proposals.					
SUBMIT IN TRIPLICATE – Other instructions on page 2				7. If U	Jnit or CA/Agreement, Name and/or No.
1. Type of Well					
Oil Well Gas Well Other					ell Name and No.
2. Name of Operator					Burch Keely Unit 51
COG Operating					I Well No.
3a. Address 3b. Phone No. (include area code			ea code)		30-015-21268
600 W. Illinois, Midland TX	X 79701	432-865-4340		- 10. Fi	ield and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R.				GI	RBG Jackson SR Q GRBG SA
330' FNL AND 33' FWL				ounty or Parish, State	
Sec. 19, T-17s, -R-30E		f		Eddy, New Mexico	
	PROPRIATE BOX	K(ES) TO INDICATE	NATURE OF NOTIC	E, REPORT,	
TYPE OF SUBMISSION			TYPE OF ACTION		
	Acidize	Deepen	Production (Star	(Resume)	Water Shut-Off
Notice of Intent				(Acestric)	-
	Alter Casing	Fracture Treat	Reclamantion	L.,	」 Well Integrity 、
Subsequent Report	Casing Repair	New Constructi	on Recomplete	L	Other
Final Abandonment Notice	Change Plans	Plug and Aband	lon Temporarily Aba	ındon	
' mai Adalidonnen Nonce	Convert to Injectio	n Plug Back	Water Disposal		
2. Spot 18 sx cement @ 152 3. Perf & sqz 35 sx cement @ 4. Perf & sqz 45 sx cement @ 5. Perf & sqz 65 sx cement @ 6. Cut of well head and well well head and well well head and hea	@ 1100- 1009 '. W @ 490-390'. WO @ 100- surface. d on Dry Hole M	VOC & Tag. \$ 7. OC & Tag. Iarker. NM OIL	CONSERVATION TESIA DISTRICT EP 2 1 2015 RECEIVED	CONDI	TACHED FOR TIONS OF APPROVAL CLAMATION PROCEDURE ATTACHED
14. I hereby certify that the foregoing is Name (Printed/Typed) Ben Montgomery Signature	true and correct.) THIS SPA	cy hole	Title Agent Date 08/24/15 AL OR STATE OFF	FICE USE	red
	\bigcirc				2 11 15
Approved by Conditions of approval, if any, are attached the applicant holds legal or equitable title applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent st	to those rights in the sul	bject lease which would ent	on knowingly and willfully to	>	Date 9-//-/5
(Instructions on page 2)	aremonia or representati	ons as to any matter within	na jaramenon.		

COG Operating, LLC

Lease & Well

Burch Keely Unit 51

3001521268

Spud date 7-25-74

Completion date 8-20-74

Elevation - 3620

Calculated TOC @ 197

'TOC by temp survey @ 1,100' Calculated TOC @ 996'.

2 3/8" 4.7# J-55 IPC @ 3200'+-

PBTD - 3294'

Sec 19 D T 17S R 30E, 330 FNL & 330 FWL EDDY CO., NM

12 1/4" hole

·8 5/8" 20# @ 437, mt w/100 sx.

Casing cementing calculations

8 5/8" 20# 12.25" Surface hole

Cement volume. = 100 X 1.32 CF/SK = 132 cu. Ft. slurry

132 - 25% slurry loss for shoe joint & hole loss = 99.0 CF

437 - 240 =197' estimated (calculated) top of cement.

4.5" 9.5# 7 7/8" hole

Cement volume = 300 X 1.32 CF/SK = 396 cu.ft. slurry.

Cement volume = 300 X 1.18 CF/SK = 354 cu.ft. slurry. 750 - 30% slurry loss for shoe joint & hole loss =535 CF

525 CF X ann. Vol. of 4.3899 FT/CF =2304'

99 CF X ann. Vol. of 2.4229 FT/CF = 240'

3300 -2304 = 996' estimated (calculated) top of cement.

1548-1550 14 holes frac w/20,000 GW, 20,000# sd... recompletion

2434 - 2438', 16 holes, frac w/10,000 GW, 10,000# sd

2506 - 2548', 16 holes, frac w/20,000 GW, 30,000# sd

2619 - 2624', 10 holes, acidized w/2,000 gal 15%

2780 - 2788', 16 holes, Frac w/20,000 GW, 20,000 # sd

2950 - 2954', 8 holes, acidized w/2,000 gal 15%

3021 - 3026', 10.holes, acidized w/3,000 gal 15%

3079 - 3107', 12 holes, acidized w/4,000 gal 15%

3232 - 3246', 16 holes, frac w/20,000 GW, 20,000# sd

IP 75 BO, 75 MCF, & 100 BLW 8-20-74

4 1/2" 9.5 # csg @ 3300' w/600 sxs.

TD @ 3300'

Lat 32.8264313 Long - 104.018585

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COG Operating, LLC

Lease & Well

Burch Keely Unit 51

3001521268

Spud date 7-25-74

Completion date 8-20-74

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P. Sgz 455+0490 - 390. TAS

PS 35 3x 1100 1800 Tas TOC by temp survey @ 1,100'

CIBPE 15-25 W/15-5X

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Lot 32.8264313

TISOTT 130 Blast 925

1950

2780

how Hilly 2424 Metex 2534 GB 2418

Yong - 104.018585

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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.

<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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 E. Greene St. Carlsbad, New Mexico 88220-6292 www.blm.gov/nm



In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its predisturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, redistribute the native soils, provide erosion control as needed, rip and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

- 1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
- 2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
- 3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
- 4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation

equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

- 5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
- 6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
- 7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos Supervisory Petroleum Engineering Tech 575-234-5909, 575-361-2648 (Cell)

Arthur Arias Environmental Protection Specialist 575-234-6230

Linda Denniston Environmental Protection Specialist 575-234-5974

Henryetta Price Environmental Protection Specialist 575-234-5951

Dara Glass Environmental Protection Specialist 575-234-5924

Shelly Tucker Environmental Protection Specialist 575-234-5979