

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.*5. Lease Serial No.  
NMLC060122

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**8. Well Name and No.  
CHALK AKH FEDERAL SWD 19. API Well No.  
30-015-2611610. Field and Pool, or Exploratory  
WILDCAT11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

2. Name of Operator

COG OPERATING LLC

Contact: STORMI DAVIS

E-Mail: sdavis@concho.com

3a. Address

2208 W MAIN ST  
ARTESIA, NM 88210

3b. Phone No. (include area code)

Ph: 575-748-6946

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 22 T18S R27E NESE 1980FSL 660FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

## TYPE OF SUBMISSION

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- |                                               |                                                      |                                                    |                                         |
|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
| <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |                                         |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |                                         |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

COG Operating LLC respectfully requests approval to plug and abandon. Procedure, schematics and a copy of the CBL are attached.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 02 2014

RECEIVED

RECLAMATION PROCEDURE  
ATTACHEDAccepted for record  
NMCCDSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #241685 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by LINDA DENNISTON on 05/06/2014 ()**

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 04/09/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

SEPS

Date

5-22-14

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

CFO

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

Chalk AKH Fed 1 SWD  
1980' fsl, 660' fel  
I-22-18s-27e  
Eddy Co., NM  
API 30-015-26116

P&A Procedure  
3 Apr 14

**Basic Data:**

8-5/8" @ 1800', Circ. Cmt.

5-1/2" @ 8590', DV @ 6503', TOC @ 1550' Calc.

2-7/8"/6.5/??/EUE IPC (ID = 2.312"), Inj Pkr @ 7475'

5-1/2"/17.0ppf/J55/LTC Burst=5320 psi, 4256 psi at 80% Nom. ID-4.892" Drift ID-4.767" (.0232 B/F)

5-1/2"/15.5ppf/J55/LTC Burst=4810 psi, 3848 psi at 80% Nom. ID-4.950" Drift ID-4.825" (.0238 B/F)

Perfs: 7660-8420' (508)

Class C Cement: 14.8 ppg, 1.32 cfps, 6.3 gwps

**Objective:** Plug and abandon well. See wellbore schematic. The original CBL was run up to 1700' and still had good cement coverage behind casing at 1700'. The Canyon injection zone won't support a column of fluid.

**Procedure:**

1. Notify BLM Carlsbad at least 24 hrs before starting plugging operations.
2. MIRU WSU, couple frac tanks, open-top steel pit and NU double ram BOP (2-7/8" pipe, blind rams), close rams, test annulus and BOP to 1000 psi, unseat packer and TOOH laying down the injection string and packer. Take delivery of 2-7/8" work string.
3. RIH with CIBP on tubing to approx. 7600', set CIBP, load hole with water (may be produced water in battery that could be used), tag plug gently and POOH to lay down setting tool. The Canyon injection interval won't support a column of fluid, therefore the CIBP will effectively be pressure tested when the casing above it is loaded with water. The CIBP is being used as a sealing bridge to set a cement plug on and is not the primary means of abandoning the Canyon injection zone.
4. RIH with open-ended tubing, gently tag CIBP and spot 30 sx Class C neat on top of plug. Pull 15 stands, WOC for 3-4 hrs (check to see if surface sample is getting hard) and tag plug. If plug tagged deeper than 7425', re-spot plug.
5. Spot 120 bbls mud laden fluid at top of plug (9 ppg brine with 25 sx salt gel per 100 bbls of brine).
6. With end of tubing at 6800', spot 40 sx Class C neat to cover top of Wolfcamp at 6732' and DV tool at 6503'. Pull 15 stands, WOC for 3-4 hrs (check to see if surface sample is getting hard) and tag plug. If plug tagged deeper than 6450', re-spot plug.
7. With end of tubing at 5770', spot 25 sx Class C neat to cover top of Abo at 5719'.

8. With end of tubing at 4490', spot 25 sx Class C with 2% CaCl<sub>2</sub> to cover top of Bone Spring at 4438'.
9. With end of tubing at 3810', spot 25 sx Class C with 2% CaCl<sub>2</sub> to cover top of Glorieta at 3751'.
10. With end of tubing at 1850', spot 25 sx Class C with 2% CaCl<sub>2</sub> to cover 8-5/8" casing shoe at 1800'. Pull 10 stands, WOC for 3-4 hrs (check to see if surface sample is getting hard) and tag plug. If plug tagged deeper than 1750', re-spot plug.
11. RU wireline. Run Cement Bond Log from top of previously set cement plug to surface to determine cement placement behind the 5.5" casing. The original CBL was run up to 1700' and still had good cement coverage behind casing at 1700'.
12. The following plug is subject to change depending on what the CBL looks like, but assumes no cement behind 5-1/2" casing from 30' to 400'. Shoot 4 holes at approx. 400' and 40' with the well full of fluid. RIH with packer to approx. 350' and establish circulation down the tubing, behind the 5-1/2" and out of the tubing x casing annulus. POOH with packer. Let's discuss if circulation can't be established. May have to reperforate at different depths. *Contact Jim Amos @ 575-234-5909. Following CBL to est. Next step.*
13. Set cement retainer at approx. 350', RU squeeze manifold, sting into retainer with tubing, reestablish circulation and pump 75 sx Class C neat into the 5-1/2' x 8-5/8" annulus from 400' to surface and below the retainer inside the 5-1/2" casing from 350' to 400'. Sting out of retainer and spot 40 sx Class C neat from top of retainer to surface. POOH with tubing. Top off casing with cement.
14. Weld plate onto 8-5/8" stub. Weld a 4" diameter dry hole marker onto plate such that 4' of it is above ground level. The following information needs to be placed on the marker:  
  
COG Operating LLC, Chalk AKH Fed 1 SWD, 1980' fsl, 660' fel, Unit I, Sec. 22, T18S, R27E, NMLC-060122, date well plugged
15. Cut off anchors, and reclaim location per BLM specs.

Kbc/chalk akh 1 swd p&a proc 3 apr 14

30-015-26116

1700' FSL, 660' FEL  
I-22-18s-27e  
Eddy, NM

SWD-822

7660-8500'

Max Inj Press: 1532ps

Per F#30"

TDC 1550' Calc. (Still good cement up to 1700' where CBL stopped)

8 5/8" / 24' @ 1800'  
1075 sq. Circ 320 sq

DV 6503'

" BEFORE "

7660-7682' (14)

7895-7907' (4) Sq'd 50sq H Canyon

7987-7990' (4) Sq'd 40sq H

5 1/2" / 15.5, 17' @ 8590'

1st: 375 H

2nd: 550 sq E + 150

50sq H

662'

933'  
125sq H  
9550'

9760'

120sq H

10030'

10,050'

Glorieta 3751'

Bonanza 4438'

Abo 5719'

Wolfcamp 6732'

22-144 200 SHEETS

12 1/4"

7 7/8"

30-7776' (

7730-8420 (476

0  
0  
0

22-14a 200 SHEETS

SWD- 822

7660-8500'

Max Inj Press: 1532 ps

PerF  $\pm 30'$   
PerF  $\pm 40'$   
Cmt Rtnr  $\pm 350'$   
PerF  $\pm 400'$

TOC 1550' Calc. (Still good cement up to 1700' where CBL stopped)

85/8"/24/ e 1800'  
1075 sq. Circa 320sy

255x"2' 1750'  
1850'

Ex "C" 3700!

25x"

SX "C" 6601  
5770

409x 1C 6450' R277

DV 6503'

" AFTER "

7425' ±

CIBP = 7600'  
7660-7682' (14)

50-7776' (18)

7895-7907' (4) S<sub>2</sub>d S0s: H Canyon

7730-8420 (476)

7987-7990'(4) 592'd 40Ex H

5094 H 662  
884

5 1/2" / 15.5, 17 / @ 8590'  
1st: 375 H  
~~2nd: 550 544 E + 150~~

93 3'  
1253 H  
9550'

9760'

1205x.1

10,030

10,050'

Glorieta 3751'

Bongor 4438'

Abo<sup>o</sup> 5719'

Wolfson 6732

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**THE NEW YORK PUBLIC LIBRARY**

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1800



**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**

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 ninety (90) days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> 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.**

2. **Notification:** 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. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. 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. **Mud Requirement:** 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 water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** 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. In lieu of a cement plug in a cased hole, 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.

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. **Dry Hole Marker:** All casing 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 capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five 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. **Trash:** 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 conditions of approval will be developed and furnished to you.



# 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](http://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 pre-disturbance 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)

Cody Layton  
Natural Resource Specialist  
575-234-5959

Solomon Hughes  
Natural Resource Specialist  
575-234-5951

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612

Jeffery Robertson  
Natural Resource Specialist  
575-234-2230

Amanda Lynch  
Natural Resource Specialist  
575-234-5922

Duncan Whitlock  
Environmental Protection Specialist  
575-234-5926

Jessie Rice  
Natural Resource Specialist  
575-234-5913

Jennifer Van Curen  
Environmental Protection Specialist  
575-234-5905

Indra Dahal  
Natural Resource Specialist  
575-234-5996

Linda Denniston  
Environmental Protection Specialist  
575-234-5974