

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Operator

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 abandoned well Use form 3160-3 (APD) for such proposals*

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7 If Unit or CA/Agreement, Name and/or No NMNM111789X
1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	2 Name of Operator COG OPERATING LLC	8 Well Name and No DODD FEDERAL UNIT 31
3a Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	Contact ABIGAIL ANDERSON E-Mail abbym@bcmmandassociates.com	9 API Well No 30-015-02976-00-S1
3b Phone No (include area code) Ph 432-580-7161	10 Field and Pool or Exploratory Area GRAYBURG	11 County or Parish, State EDDY COUNTY NM
4 Location of Well (Footage Sec T R M or Survey Description) Sec 14 T17S R29E SENE 1980FNL 660FEL		

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<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 recompletable 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation have been completed and the operator has determined that the site is ready for final inspection.

*Add Plug 4 1/2" CIBP @ 4016. Dump Bail 35' cmt (T/G)*  
 1 Set 4 1/2" CIBP @ 2750' Circulate hole w/ MLF Pressure test csg Spot 25 sx cmt @ 2750-2400'  
 2 Spot 25 sx cmt @ 2334-2000' WOC & Tag (7" Shoe)  
 3 Spot 25 sx cmt @ 1100-990' WOC & Tag (B/Salt) Perf (Deep Penetrating shots) 502 cmt  
 4 Spot 40 sx cmt @ 521-Surface Perf (Deep Penetrating shots) 502 cmt (Attempt)  
 5 Cut off well head verify cement to surface, weld on Below Ground Dry Hole Marker

RECEIVED

JUL 31 2019

GC Accepted for record 8/1/19 NMOCD

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

DISTRICT/ARTESIA O.C.D.

14 I hereby certify that the foregoing is true and correct Electronic Submission #471277 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 07/01/2019 (19PP2642SE)	
Name (Printed/Typed) ABIGAIL ANDERSON	Title REGULATORY
Signature (Electronic Submission)	Date 06/28/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>James A. Pardo</i>	Title SPET	Date 7-21-19
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 MFO	

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)

\*\* BLM REVISED \*\*

# COG Operating, LLC

**Lease & Well #**

3001502976

Spud date 5-15-40

Completion date 6-23-40

Elevation - 3634 DF

**Dodd Federal Unit #31**

Sec 14 T 17S R 29E, 1980 FNL & 660 FEL UNIT H

EDDY CO NM

(7") Estd TOC @ 221  
Perf'd @ 450 P 200 sxs  
Circ 10 sxs 5-23-85

TOC @ 1547 (7")

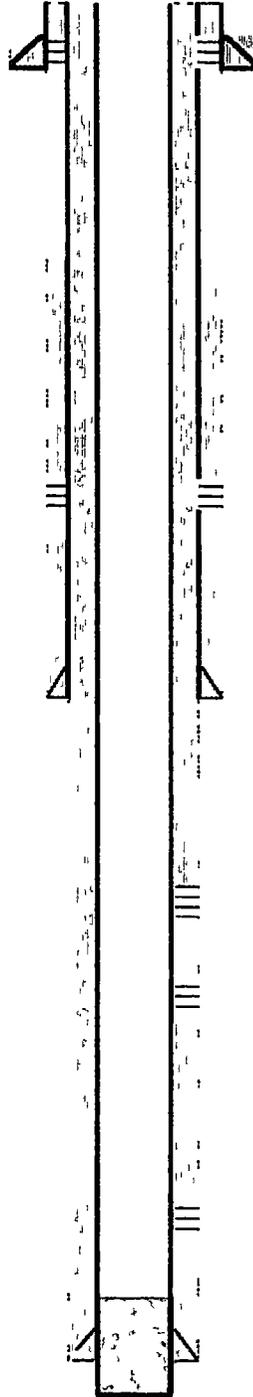
*7" solt 450*  
*8" solt 932*

*GB 2204* Perf'd @ 1680 (7")  
*SA 2590* squeezed w/ 200 sx cement  
*GL 4014* 5/22/1985  
*Yeso 4076* TOC @ 1700 CBL

Original PBD @ 2525

PBTD 4522

TD - 4558'



15 Hole est ✓  
10 3/4' 40# @ 471 w/ 100 SXS ✓

**Casing cementing calculations**  
10 3/4 40# 15" Surface hole  
Cement volume = 150 X 1 32 CF/SK = 198 cu Ft slurry  
198 25% slurry loss for shoe joint & hole loss = 149 CF  
149 CF X ann Vol of 1 6756 FT/CF = 250  
471 250=221 estimated top of cement

Set Pkr @ 2259 Converted to WIW 9-25 67  
Re converted to Grbg-SA PDK Producer 9-22 85

12 1/4 hole ✓  
7" 20# @ 2284 w/100 sx ✓  
Frac'd OH w/10K gals RO & 10K sd 6 7 55

IP F 164 BOPD 598 GOR 6 23-40  
Shot OH w/140 q's @ 2471 2525  
Original TD @ 2525

\*According to OCD Files,  
no proof that perms exist  
from 3146 3345' (p 56-57)

Perf'd Grbg SA @ 2796 <sup>3146</sup> 3347' A/4 000 gals 10% <sup>3146-3345' LSA</sup>  
Frac'd w/ 160K gals GBW 50K # 20/40 100K # 12/20 & 100K # 8/16  
11/24/1987

Perf'd @ 3708 3790 (Grbg SA) A/ 3500 gals 10%  
Frac'd w/ 240K gals GBW 50K # 20/40 24 5K # 12/20 & 75K # 8/16  
8/23/1985 ✓  
P 8 BO 10 MCF & 30 BW 9 22 85

Perf'd 4085-4350' PDK A/7750 gals 15% HCL & 15 000 gals 20%  
9/5/1985 ✓

6 1/4 hole ✓  
4 1/2" 11 6# csg @ 4538 w/450 sx Circ 35 sxs ✓  
TD @ 4542'

*32-836441*  
*-104 0390015*



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.

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 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 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 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 brine 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. 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 casing 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 barrier 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 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 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 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached) 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 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 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 will be required See attached reclamation objectives