Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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.

HOBBS OCD

MAR 12 2018

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM95641

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
TBM FEDERAL COM 1

2. Name of Operator
COG OPERATING, LLC
Contact: ABIGAIL MONTGOMERY
E-Mail: Abbym@bcmandassociates.com

9. API Well No.
30-025-37343

3a. Address
600 W. ILLINOIS
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-580-7161

10. Field and Pool or Exploratory Area
:USK;MORROW, NW (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 8 T19S R32E 900FNL 1980FWL
32.679771 N Lat, 103.790588 W Lon

11. County or Parish, State
LEA CO COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily
	☐ Convert to Injection	☐ Plug Back	☐ Water Dispc

INT TO PA PM.
P&A NR
P&A R

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 recomplete 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.

Follow COA procedure

1. Set CIBP @ 12,640'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 12,640-12,390'.
2. Spot 25 sx cmt @ 11,100-10,850'. (DV Tool)
3. Spot 25 sx cmt @ 6,900-6,750'.
4. Perf & Sqz 45 sx cmt @ 4,506-4,406'. WOC & Tag. (12 1/4" Shoe)
5. Perf & Sqz 45 sx cmt @ 2970-2870'. WOC & Tag.
6. Perf & Sqz 75 sx cmt @ 1025-930'. WOC & Tag.
7. Perf & Sqz 75 sx cmt @ 100'-Surface.
8. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

APPROVED

SUBJECT TO LIKE APPROVAL BY STATE

SEE ATTACHED FOR CONDITIONS OF APPROVAL

WITNESS

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

Electronic Submission #385355 verified by the BLM Well Information System
For COG OPERATING, LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/25/2017 ()

Name *(Printed/Typed)* ABIGAIL MONTGOMERY — Title AGENT

Signature (Electronic Submission) — Date 08/18/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By PRAward — 02/18/2018 — Title TPET — Date

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 BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

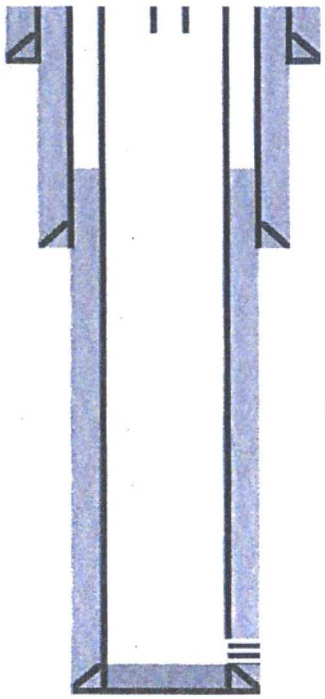
(Instructions on page 2)

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

FOR RECORD ONLY
MW/OCD 03/12/2018

Author:	MRM (7/2017)		
Well Name	**TBM Fed**	Well No.	**#1**
Field	Lusk Morrow	API #:	30-025-37343
County	Lea	Prop #:	35181
State	New Mexico	Zone:	Morrow
Spud Date	8/11/2005		900 FNL & 1980 FWL
GL	3,636'		Sec 08 T19S R32E
KB	3,653'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13.375"	J-55	54.5	975	775	surf
Inter Csg	8.625"	J-55	32	4,456'	2,000	surf
Prod Csg	5.5"	HCP-110	17	12,935'	1,575	600'
Liner						



TD @ 12,940'
PBTD @ 12,853'

17-1/2" hole
13-3/8" (54.5#) @ 975' with 775 sks, circ ?? sks
TOC @ surface

12-1/4" hole
8-5/8" (32#) @ 4,456' with 2,000 sks
DV Tool @ ? 1st stage - 1,000 sks, circ 118 sks
TOC @ surface 2nd stage - 1000 sks, circ 198 sks

7-7/8" hole
5-1/2" (17#) @ 12,935' with 1,575 sks
DV Tool @ 11,037' 1st stage - 325 sks, circ 40 sks
TOC @ 3,000' 2nd stage - 1,250 sks

12,662'-12,678' (Morrow) 102 shots - 10/07/2005

Formation Tops

Rustler	983'
Yates	2,970'
Seven Rivers	3,247'
Queen	3,754'
San Andres	4,456'
Delaware	5,079'
Bone Spring	6,974'
1st Bone Spring sand	8,350'
2nd Bone Spring carb	8,620'
2nd Bone Spring sand	9,099'
3rd Bone Spring carb	9,340'
3rd Bone Spring sand	9,790'
Wolfcamp	10,086'
Strawn	11,246'
Atoka	11,773'
Morrow	12,380'

Conditions of Approval

COG Operating, LLC
TBM Com - 01, API 3002537343
T19S-R32E, Sec 08, 900FNL & 1980FWL
February 16, 2018

1. **Within 90 days of these conditions of approval for the processed Electronic Submission #385355 notice of intent begin wellbore operations or request an extension.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location during this workover operation.**
3. **Conditions of Approval reflect a procedure based on available documentation for this wellbore. The BLM workover witness and NOI approver may adjust operations so as not to hinder achievable abandonment requirements.**
4. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15.
5. Subject to like approval by the New Mexico Oil Conservation Division.
6. Notify 575-393-3612 Lea Co as work begins. If there is no response leave a voice mail with the API#, workover purpose, and a call back phone number.
7. Surface disturbance beyond the existing pad must have prior approval.
8. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
9. Functional H_2S monitoring equipment shall be on location.
10. Use Blow Out Prevention Equipment 5000 (5M). All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
11. Created operation waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during any other crew-intensive operations.
12. The BLM PET is to run tbg tally and agree to cement volumes and placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.
13. **Cementing procedure is subject to the next four numbered paragraphs.**
14. Mix cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft to the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 ½" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.

15. Below 7500ft Class "H" and above 7500ft Class "C" neat cement plugs(s) will be necessary. Isolation plugs of Class "C" neat cement to be mixed 14.8#/gal, 1.32 ft^3/sx, 6.3gal/sx water and Class "H" neat cement to be mixed 16.4#/gal, 1.06ft^3/sx, 4.3gal/sx water.
16. A minimum WOC time of 4 hours(C) & 8 hours(H) is recommended for plugs that require a tag or pressure test.
17. Minimum requirement for mud placed between plugs is 25 sacks of saltwater gel per 100 barrels in 9 lb/gal brine.
18. **Pressure test the casing to 500psig after a CIBP is set within 100' of the top Morrow perf of 12662'.**
19. **Set a min 40sx balanced "H" cmt plug on the CIBP set above top perf 12662'. WOC, and tag the plug with tbg at 12340' or above covering the 12400 Morrow formation top.**
20. **Set a min 25sx balanced "H" cmt plug from 11150' over the 11037' DV Tool. WOC, and tag the plug with tbg at 10940' or above.**
21. **Set a min 25sx balanced "C" cmt plug from 10445' over the 10342' Wolfcamp formation top. WOC, and tag the plug with tbg at 10225' or above.**
22. **Set a min 25sx balanced "C" cmt plug from 7100' over the 6992' Bone Spring formation top. WOC, and tag the plug with tbg at 6885' or above.**
23. **Set a min 25sx balanced "C" cmt plug from 5200' over the 5079' Delaware formation top. WOC, and tag the plug with tbg at 4950' or above.**
24. **Perforate at 4525', open the 5 1/2" csg vent and establish circulation. Sqz a min 100sx "C" cmt plug across 4456' 8 5/8" shoe and over the 4160' Capitan formation top. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 4100' or above.**
25. **Perforate at 2840', open the 5 1/2" csg vent and establish circulation. Sqz a min 50sx "C" cmt plug across the 2740' Base of Salt. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 2640' or above.**
26. **Perforate at 1560', open the 5 1/2" csg vent and establish circulation. Sqz a min 50sx "C" cmt plug across the 1460' Top of Salt. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 1360' or above.**
27. **Perforate at 1035', open the 5 1/2" csg vent and establish circulation. Sqz a min 30sx "C" cmt plug across the 975' 13 3/8" csg shoe. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 915' or above.**
28. **Perf at 60' or below. Establish circulation through the 5 1/2" x 8 5/8"x 13 3/8" annulus. Fill with (±20sx) balanced "C" cmt plug and verify the 5 1/2" x 8 5/8" annulus and 13 3/8'' csg from 60' cemented to surface.**
29. File **subsequent sundry** Form 3160-**5** within 30 days of workover procedures. Include (dated daily) descriptions of the well work, i.e. procedure descriptions and setting depths of each plug in the subsequent sundry.

Lesser Prairie Chicken Habitat Area Dry Hole Markers

Stamp or engrave (3/8" letters) information for the plugged well on 8"x 8"aluminum plate of 1/8", 12 gauge, or .080 sign material similar to this example:

Ajax Operating Company
Tailspin – 22
1980FNL & 660FWL - Sec 16 - T22S-R31E
Lease LC029567 API 3001534567
Plugged July 17, 2017

1. Center a 3 to 4 foot pipe at a right angles on a 8"x8"x 1/8" or 3/16" steel plate and weld the pipe to the plate.
2. Cement the pipe vertically inside the abandoned surface casing. Leave the steel plate about 2" above and horizontal to ground level.
3. Fix the well information plate to the steel plate with ¼ inch bolts and locking nuts or self-tapping fine threaded screws (one in each corner).
4. On the BLM Form 3160-5 subsequent report of abandonment state that a ground level dry hole marker installed as required by BLM and NMOCD Order No. R-12965.

Reclamation Objectives and Procedures

In Reply Refer To: 1310

Reclamation Objective: 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, re-distribute the native soils, provide erosion control as needed, rip and seed as needed. This will apply to well pads, facilities, and access roads. Barricade all access road(s) at the starting point. If reserve pits have not been adequately reclaimed due to salts or other contaminants, propose a plan for BLM approval to provide restoration of the pit area.

Lesser Prairie Chicken Habitat Area Dry Hole Markers

Stamp or engrave (3/8" letters) information for the plugged well on 8"x 8"aluminum plate of 1/8", 12 gauge, or .080 sign material similar to this example:

Ajax Operating Company
Tailspin – 22
1980FNL & 660FWL - Sec 16 - T22S-R31E
Lease LC029567 API 3001534567
Plugged July 17, 2017

1. Center a 3 to 4 foot pipe at a right angles on a 8"x8"x 1/8" or 3/16" steel plate and weld the pipe to the plate.
2. Cement the pipe vertically inside the abandoned surface casing. Leave the steel plate about 2" above and horizontal to ground level.
3. Fix the well information plate to the steel plate with ¼ inch bolts and locking nuts or self-tapping fine threaded screws (one in each corner).
4. On the BLM Form 3160-5 subsequent report of abandonment state that a ground level dry hole marker installed as required by BLM and NMOCD Order No. R-12965.

Reclamation Objectives and Procedures

In Reply Refer To: 1310

Reclamation Objective: 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, re-distribute the native soils, provide erosion control as needed, rip and seed as needed. This will apply to well pads, facilities, and access roads. Barricade all access road(s) at the starting point. If reserve pits have not been adequately reclaimed due to salts or other contaminants, propose a plan for BLM approval to provide restoration of the pit area.

Paul Murphy
Natural Resource Specialist
757-234-5975, 575-885-9264 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230, 575-499-3378 (Cell)

Henryetta Price
Environmental Protection Specialist
575-234-5951, 575-706-2780 (Cell)

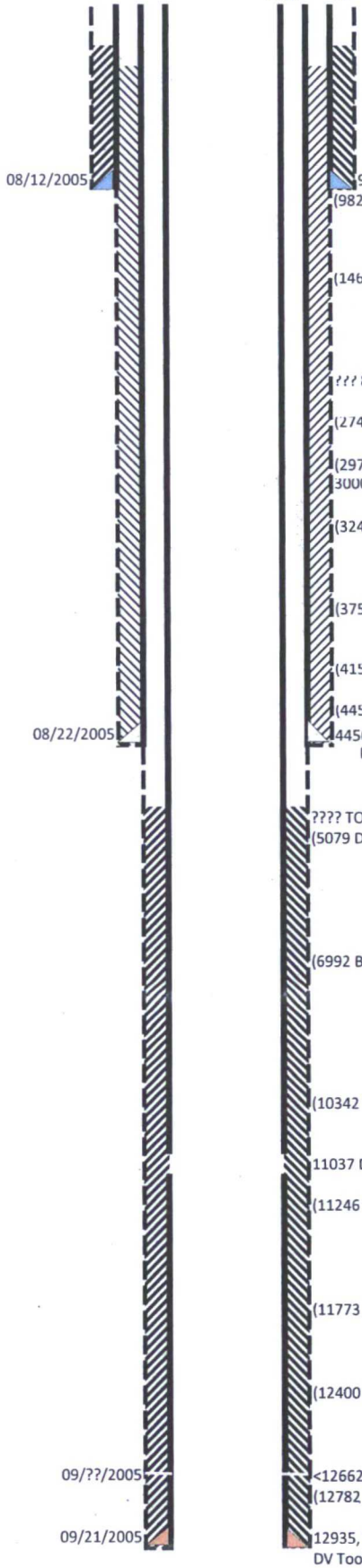
Shelly Tucker
Environmental Protection Specialist
575-234-5905, 575-361-0084 (Cell)

Operator: COG Operating, LLC
Surface Lease: NM95641 **BHL:** NM95641
Case No: NMNM114006 **Communitization Agrmnt**
Subsurface Concerns for Casing Designs: Cap KFC

Well Status: plgNOI
Spud date: 8/11/2005
Plug'd Date:
Reentry Date:

Well: TBM FEDERAL COM-1
API: 3002537343
@ Srfce: T19S-R32E,08.900n1980w
@ M TD: T19S-R32E,08.900n1980w
Estate: F\F\F
CWDW, R of W:
OCD Admn Order, date:
Frmtn, Depths, psig: Morrow

KB: 3653
GL: 3636
Corr: 17



08/12/2005
975, 17.5"hole, 13.375"54.5# J55 ST&C csg, Mix 775sx circ 0sx
(982 Rustler)
(1460 T Salt - GIS)
??? 8 5/8" DV Tool
(2740 B Salt - GIS)
(2970 Yates)
3000 TOC 5 1/2" poor temp survey
(3247 Seven Rivers)
(3754 Queen)
(4150 Capitan - GIS)
(4456 San Andres)
08/22/2005
4456, 12.25"hole, 8.625" 32# J55 LT&C csg, Mix 2000sx circ 216sx
DV Tool depth not found for 8 5/8" csg
???? TOC
(5079 Delaware)
(6992 Bone Spring)
(10342 Wolfcamp)
11037 DV Tool
(11246 Strawn)
(11773 Atoka)
(12400 Morrow)
09/??/2005
<12662-78>
(12782 Chester)
09/21/2005
12935, 7.875"hole, 5.5" 17# HCP110 LT&C csg,, 1575sx total thru DV Tool(s),
DV Tool(s)@: 11037, STG#-SxCirc: #1-40, #2-0

last updated: 02/16/2018

_WB Rcd (6.10 TBM-01 2537343