OCD-HOBBS

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

HOBBS OCD
MAR 12 2018
RECEIVED

5. Lease Serial No.
NMNM67111

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.
GERONIMO FEDERAL 8

2. Name of Operator
COG OPERATING, LLC

Contact: ABIGAIL MONTGOMERY
E-Mail: Abbym@bcmandassociates.com

9. API Well No.
30-025-31532

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
TONTO; YATES-7R SOUTH

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 31 T19S R33E 1980FNL 1905FWL
32.618549 N Lat, 103.704948 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 (Sta
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Ab
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal

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 4 1/2" CIBP @ 2910'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 2910-2540'. (Yates, B/Salt)
2. Spot 25 sx cmt @ 1600-1230'. WOC & Tag (T/Salt)
3. Spot 45 sx cmt @ 685'-Surface.
4. Cut off well head, verify cmt to surface, weld on Dry Hole Marker.

SUBJECT TO LIKE APPROVAL BY STATE

APPROVED
SEE ATTACHED FOR CONDITIONS OF APPROVAL

WITNESS

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

Electronic Submission #385485 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 08/21/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Paul Swartz 02/28/2018 — 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)

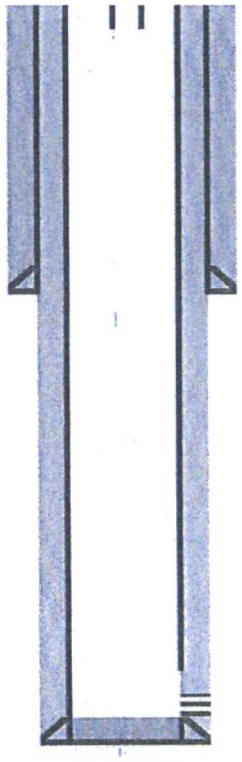
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

FOR RECORD ONLY
MW/OCD 03/12/2018

Author:	MRM (7/2017)		
Well Name	**Geronimo Federal**	Well No.	#8
Field	Tonto	API #:	30-025-31532
County	Lea	Prop #:	
State	New Mexico	Zone:	Yates
Spud Date	3/12/1992		1980 FNL & 1905 FWL
GL	3,570'		Sec 31 T19S R33E
KB			

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	8.625"	K-55	24	534'	275	surface
Inter Csg	N/A	N/A	N/A	N/A	N/A	N/A
Prod Csg	4.5"	K-55	10.5	3,149'	780	surface
Liner	N/A	N/A	N/A	N/A	N/A	N/A

Originally drilled
Devon Energy to
Wagner Oil took
COG took over o



12 1/4" hole
8-5/8" (24#) @ 534' with 275 sks, circ 75 sks
TOC @ surf

Formation Tops

Base of Salt	2,826'
Yates	2,958'

7 7/8" hole
4-1/2" (10.5#) @ 3,149' with 780 sks, circ 60 sks
TOC @ surf

2,958'-3,003' (Yates) 32 shots - 04/01/1992 acidized with 3,000 gal and frac'd with 93,000 lbs

TD @ 3,149'
PBTD @ 3,080'

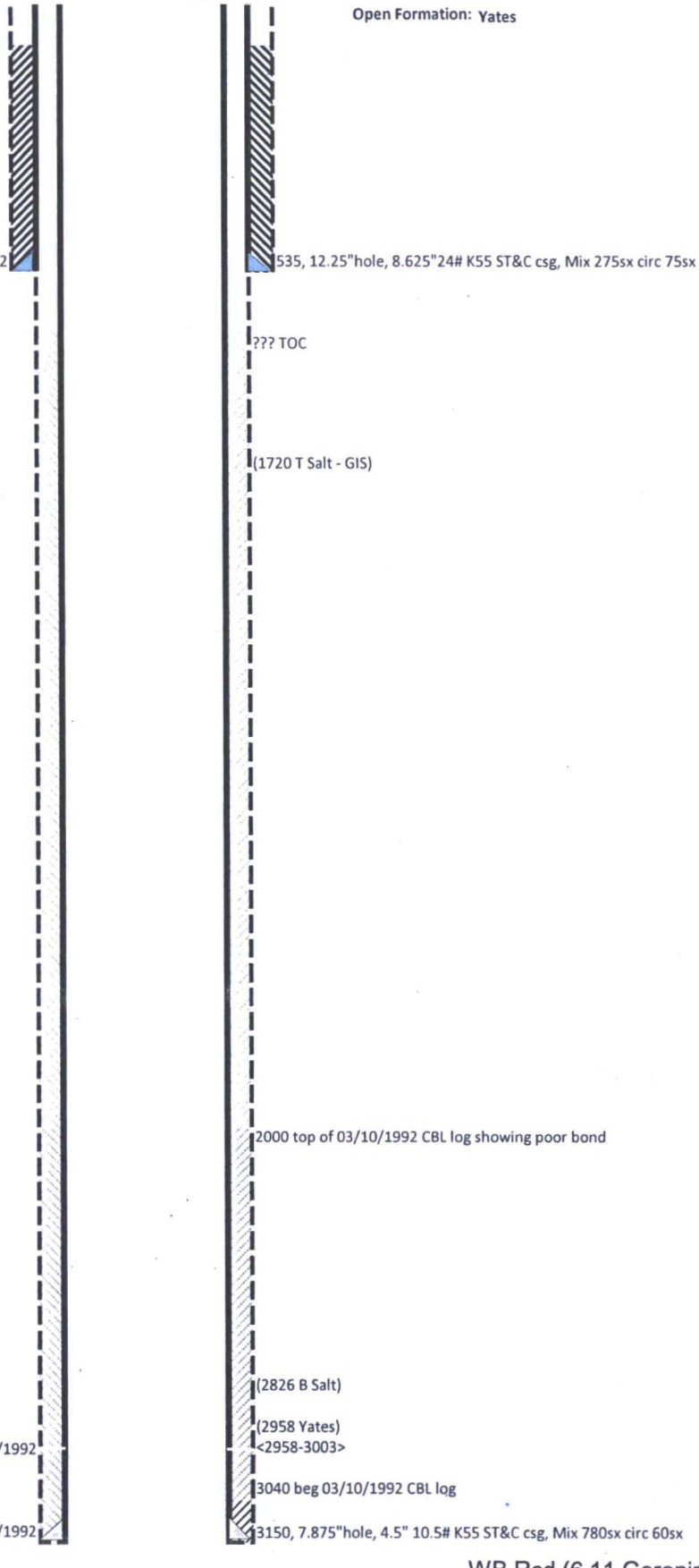
32.6185493
-103.7049484

Operator: COG Operating, LLC
Surface Lease: NM67111
Case No: NM67111
BHL: NM67111
Lease Agreement
Subsurface Concerns for Casing Designs: R111P C R, 4csgs KFC
Well Status: plgNOI
Spud date: 3/12/1992
Plug'd Date:
Reentry Date:

Well: GERONIMO FEDERAL-8
API: 3002531532
@ Srfce: T19S-R33E,31.1980n1905w
@ M TD: T19S-R33E,31.1980n1905w
Estate: F\F\F

KB: 3580
GL: 3570
Corr: 10

Open Formation: Yates



last updated: 02/28/2018

_WB Rcd (6.11 Geronimo-08 2531532

R-111-P: 3 strings circ, a casing seal test of 600psi(hydril) for the surface and 1000 for intermediate, <100psi drop in 30min. Capitan Reef: 4 casing strings, production cement to cover casing 50 feet above Capitan Reef top. Lesser Prairie-Chicken.

8 5/8 surface csg in a 12 1/4 inch hole. Design Factors SURFACE

Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	24.00	K 55	ST&C	20.48	5.48	1.77	535	12,840
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500			Tail Cmt	does not	circ to sfc.	Totals:	535	12,840

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.4127	275	447	236	89	9.00	976	2M	1.31

4 1/2 casing inside the 8 5/8 casing. _ Design Factors 2nd Casing

Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	10.50	K 55	ST&C	4.41	2.40	2.87	3,150	33,075
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500						Totals:	3,150	33,075

The cement volume(s) proposed may achieve a top 0 feet from surface.

Hole Size	Annular Volume	Proposed Sx Cmt	CuFt Cmt Proposed	Min Cu Ft	Excess % Cmt	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.2278	780	1326	732	81	10.20			1.44

Conditions of Approval

COG Operating, LLC
Geronimo-08, API 3002531532
T19S-R33E, Sec 31, 1980FNL & 1905FWL
February 28, 2018

1. **Within 90 days of these conditions of approval for the processed Electronic Submission #385478 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 2000 (2M). 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.
15. Isolation plugs of Class "C" neat cement to be mixed 14.8#/gal, 1.32 ft^3/sx, 6.3gal/sx water.

16. A minimum WOC time of 4 hours(C) 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 100ft of the top perf of 2958'.**
19. **Run a CBL at 0psig from the CIBP set within 100' of top perf 2958' and determine TOC behind the 4 ½" production csg.**
20. **Set a min 25sx balanced "C" cmt plug on the CIBP set above top perf 2960'. WOC, and tag the plug with tbg at 2600' or above covering Yates formation top of 2958'and Base of Salt at 2826'.**
21. **In Secretary Potash R-111-P area, isolate the salt section with a solid cmt plug across the drilled wellbore from 50ft or more below Base of Salt to 50ft or more above Top of Salt.**
22. **Set a solid balanced "C" cmt plug in the 4 ½" from the Base of Salt tbg tag to the TOC as determined by Step 19. CBL. WOC, and tag the plug with tbg.**
23. **A: Cut and pull the 4 1/2'' csg from the CBL TOC & place a balanced "C" cmt plug from 50' inside the 4 ½'' stub to 1650' or above.**
    B: OR perforate the 4 1/2" csg just above TOC, open the 8 5/8" csg vent and establish circulation. Sqz "C" cmt behind the 4 ½'' csg to 1560' or above across the Top of Salt. Displace cement slurry in the csg to 1650' or above. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 1650' or above. Report cmt volume, pkr setting and displacement volume.
24. **A: The 4 1/2'' csg been pulled - set a balanced 30sx "C" cmt plug from 600' or below. WOC, and tag the plug with tbg at 470' or above.**
    B: OR perforate the 4 1/2" csg at 600', open the 8 5/8" csg vent and establish circulation. Sqz min 30sx "C" cmt behind the 4 ½'' csg to 470' or above across the 8 5/8'' Shoe. Displace cement slurry in the csg to 470'. Close the tbg valve behind displacement volume and hold the slurry in place. WOC, and tag the plug with tbg at 470' or above.
25. **Perf at 60' or below. Establish circulation through the 5 1/2" x 8 5/8" annulus. Fill with (±20sx) balanced "C" cmt plug and verify the 5 1/2" x 8 5/8" annulus and 8 5/8'' csg from 60' cemented to surface.**
26. 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.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations should have included 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 locations and/or access roads not having an approved plan, or an inadequate plan for surface reclamation the operator must submit a proposal describing the procedures for reclamation. The appropriate time for submittal would be when filing the Notice of Intent, or with the Subsequent Sundry Report of Abandonment on Form 3160-5. The final reclamation goal is to be completed within 6 months of wellbore abandonment.

3. With 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 may 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.
4. Upon reclamation conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a BLM specialist to inspect the location to verify work was completed as per approved plans.
5. The BLM approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been tentatively reestablished. If the objectives have not been met BLM will be notify the operator of the required corrective actions.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time the full 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 full 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 a BLM specialist will again 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 for 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 Environmental Protection Specialist
575-234-5909, 575-361-2648 (Cell)

Trishia Bad Bear
Natural Resource Specialist
575-393-3612, 575-390-2258 (Cell)

Jesse Bassett
Natural Resource Specialist
575-234-5913, 575-499-5114 (Cell)

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

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

Robertson, Jeffery
Natural Resource Specialist
575-234-2230, 575-706-1920 (Cell)

Vance Wolf
Natural Resource Specialist
575-234-5979

Brooke Wilson
Natural Resource Specialist
575-234-6237

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

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