

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **NM OIL CONSERVATION**
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

MAY 07 2015

Submit one copy to appropriate District Office

RECEIVED

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

| | | |
|--|---|--|
| ¹ Operator name and Address COG Operating LLC One Concho Center 600 West Illinois Ave. Midland, TX 79701 | | ² OGRID Number 229137 |
| | | ³ Reason for Filing Code/ Effective Date NW Effective 4/2/15 |
| ⁴ API Number 30 - 015 -42917 | ⁵ Pool Name Empire; Glorieta Yeso, East | ⁶ Pool Code 96610 |
| ⁷ Property Code 314203 | ⁸ Property Name Churchmouse 1 Federal Com | ⁹ Well Number 18H |

II. ¹⁰ Surface Location

| | | | | | | | | | |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|
| Ul or lot no. P | Section 1 | Township 17S | Range 29E | Lot Idn | Feet from the 350 | North/South Line South | Feet from the 180 | East/West line East | County Eddy |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|

¹¹ Bottom Hole Location

| | | | | | | | | | |
|-----------------------------|---|--|-----------------------------------|------------------------------------|-------------------------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no. M | Section 1 | Township 17S | Range 29E | Lot Idn | Feet from the 348 | North/South line South | Feet from the 353 | East/West line West | County Eddy |
| ¹² Lse Code F | ¹³ Producing Method Code P | ¹⁴ Gas Connection Date 4/2/15 | ¹⁵ C-129 Permit Number | ¹⁶ C-129 Effective Date | ¹⁷ C-129 Expiration Date | | | | |

III. Oil and Gas Transporters

| | | |
|------------------------------------|---|---------------------|
| ¹⁸ Transporter OGRID | ¹⁹ Transporter Name and Address | ²⁰ O/G/W |
| 278421 | HollyFrontier Refining & Marketing LLC | O |
| 36785 | Dcp Midstream | G |

IV. Well Completion Data

| | | | | | |
|------------------------------------|------------------------------------|------------------------------------|----------------------------|---|-----------------------|
| ²¹ Spud Date 2/18/15 | ²² Ready Date 4/2/15 | ²³ TD 8914MD 4347TVD | ²⁴ PBDT 8842 | ²⁵ Perforations 4642 - 8822 | ²⁶ DHC, MC |
| ²⁷ Hole Size | ²⁸ Casing & Tubing Size | ²⁹ Depth Set | ³⁰ Sacks Cement | | |
| 17-1/2 | 13-3/8 | 360 | 1000sx | | |
| 12-1/4 | 9-5/8 | 1124 | 500sx | | |
| 8-3/4 | 7 | 3794 | 2050sx | | |
| 7-7/8 | 5-1/2 | 8911 | | | |
| | 2-7/8tbg | 3715 | | | |

V. Well Test Data

| | | | | | |
|---------------------------------------|--|------------------------------------|---------------------------------|-----------------------------------|-----------------------------------|
| ³¹ Date New Oil 4/14/15 | ³² Gas Delivery Date 4/14/15 | ³³ Test Date 4/18/15 | ³⁴ Test Length 24 | ³⁵ Tbg. Pressure 70 | ³⁶ Csg. Pressure 70 |
| ³⁷ Choke Size | ³⁸ Oil 101 | ³⁹ Water 1254 | ⁴⁰ Gas 196 | | ⁴¹ Test Method P |

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature:

Chasity Jackson

Printed name:

Chasity Jackson

Title:

Regulatory Analyst

E-mail Address:

cjackson@concho.com

Date:

4/24/15

Phone:

432-686-3087

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

District Supervisor

Approval Date:

5-19-15

Pending BLM approvals will subsequently be reviewed and scanned

[Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 07 2015

FORM 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.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.5. Lease Serial No.
NMNM7752

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
CHURCHMOUSE 1 FEDERAL COM 18H9. API Well No.
30-015-4291710. Field and Pool, or Exploratory
EMPIRE; GLORIETA-YESO, E11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

COG OPERATING LLC

Contact: CHASITY JACKSON

E-Mail: cjackson@concho.com

3a. Address

ONE CONCHO CENTER 600 W. ILLINOIS AVE
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-686-3087

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

Sec 1 T17S R29E Mer NMP SESE 350FSL 180FEL

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

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Drilling Operations

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.)

3/12/15 Test frac valve to 7200psi. Spotted 2000 gals acid. Set plug @ 8842. 3/25/15 Perf 13 stages @ 4642 - 8822 w/6SPF, 468 holes. Acidize 13 stages w/54,324 gals 15% acid. Frac w/1,741,915 gals gel, 65,427 gals WaterFrac R9, 87,953 gals WaterFrac R3, 210,384 gals treated water, 3,849,676# 20/40 brady sand, 662,764# 20/40 CRC.
3/31/15 Drill out plugs. Clean out to PBTD 8842.
4/2/15 RIH w/ESP pump. RIH w/105jts 2-7/8" J55 6.5# tbg, EOT @ 3715. Hang On.

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

**Electronic Submission #299777 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) CHASITY JACKSON

Title PREPARER

Signature (Electronic Submission)

Date 04/29/2015

THIS SPACE FOR FEDERAL OR STATE APPROVAL

Approved By

Title

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

Pending BLM approvals will
subsequently be reviewed
and scanned

Date

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 ****

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 07 2015

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM7752

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLC

Contact: CHASITY JACKSON
E-Mail: cjackson@concho.com

8. Lease Name and Well No.
CHURCHMOUSE 1 FEDERAL COM 18H

3. Address ONE CONCHO CENTER 600 W. ILLINOIS AVE
MIDLAND, TX 79701

3a. Phone No. (include area code)
Ph: 432-686-3087

9. API Well No.
30-015-42917

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SESE 350FSL 180FEL

At top prod interval reported below SESE 350FSL 180FEL

At total depth SWSW 348FSL 353FWL

10. Field and Pool, or Exploratory
EMPIRE; GLORIETA-YESO, E

11. Sec., T., R., M., or Block and Survey
or Area Sec 1 T17S R29E Mer NMP

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
02/18/2015

15. Date T.D. Reached
02/27/2015

16. Date Completed
☐ D & A ☒ Ready to Prod.
04/02/2015

17. Elevations (DF, KB, RT, GL)*
3672 GL

18. Total Depth: MD 8914
TVD 4347

19. Plug Back T.D.: MD 8842
TVD 8842

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATED NEUTRON CCL/HNGS

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500 | 13.375 J55 | 54.5 | | 360 | | 1000 | | | |
| 12.250 | 9.625 J55 | 40.0 | | 1124 | | 500 | | | |
| 8.750 | 7.000 L80 | 29.0 | | 3794 | | 0 | | | |
| 7.875 | 5.500 L80 | 17.0 | 3794 | 8911 | | 2050 | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.875 | 3715 | | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------|------|--------|---------------------|-------|-----------|--------------|
| A) YESO | 4642 | 8822 | 4642 TO 8822 | 0.430 | 468 | OPEN |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 4642 TO 8822 | ACIDIZE W/54,324 GALS 15% ACID. FRAC W/1,741,915 GALS GEL, 210,384 GALS TREATED WATER, |
| 4642 TO 8822 | 153,380 GALS WATER FRAC, 3,849,676# 20/40 BRADY SAND, 662,764# 20/40 CRC. |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-----------------------|
| 04/14/2015 | 04/18/2015 | 24 | → | 101.0 | 196.0 | 1254.0 | 35.8 | 0.60 | ELECTRIC PUMPING UNIT |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | | | → | 101 | 196 | 1254 | 1941 | POW | |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | | | → | | | | | | |

Pending BLM approvals will
subsequently be reviewed
and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #300028 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | | | → | | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | | | → | | | | | | |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|------------|------|--------|------------------------------|------------|--------------------|
| RUSTLER | 275 | | ANHYDRITE | RUSTLER | 275 |
| SALT | 462 | | SALT | SALT | 462 |
| TANSILL | 1050 | | LIMESTONE & DOLOMITE | TANSILL | 1050 |
| YATES | 1157 | | SANDSTONE | YATES | 1157 |
| QUEEN | 2045 | | SANDSTONE & DOLOMITE | QUEEN | 2045 |
| GRAYBURG | 2458 | | SANDSTONE & DOLOMITE | GRAYBURG | 2458 |
| SAN ANDRES | 2759 | | DOLOMITE & LIMESTONE | SAN ANDRES | 2759 |
| GLORIETA | 4215 | | SANDSTONE | GLORIETA | 4215 |

32. Additional remarks (include plugging procedure):
Log has been mailed.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #300028 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name (please print) CHASITY JACKSON

Title PREPARER

Signature (Electronic Submission)

Date 04/30/2015

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **