

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
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

| | | |
|--|--|--|
| ¹ Operator name and Address COG Operating LLC One Concho Center 600 W. Illinois Ave. Midland, TX 79701 | | ² OGRID Number 229137 |
| | | ³ Reason for Filing Code/ Effective Date NW Effective 8/29/17 |
| ⁴ API Number 30 - 025-43706 | ⁵ Pool Name Maljamar; Yeso, West | ⁶ Pool Code 44500 |
| ⁷ Property Code 317557 | ⁸ Property Name Nelson Federal Com | ⁹ Well Number 23H |

II. ¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| K | 15 | 17S | 32E | | 2188 | South | 1895 | West | Lea |

¹¹ Bottom Hole Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C | 10 | 17S | 32E | | 221 | North | 1676 | West | Lea |

| | | | | | |
|-----------------------------|---|---|-----------------------------------|------------------------------------|-------------------------------------|
| ¹² Lse Code P | ¹³ Producing Method Code P | ¹⁴ Gas Connection Date 8/29/17 | 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 |
|------------------------------------|---|---------------------|
| | Holly Frontier | O |
| | Frontier | G |
| | | |
| | | |
| | | |
| | | |

IV. Well Completion Data

| | | | | | |
|------------------------------------|-------------------------------------|--------------------------------------|------------------------------|---|-----------------------|
| ²¹ Spud Date 5/23/17 | ²² Ready Date 8/29/17 | ²³ TD 14,150MD/6370TVD | ²⁴ PBTB 14,066 | ²⁵ Perforations 6876 - 14,036 | ²⁶ DHC, MC |
| ²⁷ Hole Size | ²⁸ Casing & Tubing Size | ²⁹ Depth Set | ³⁰ Sacks Cement | | |
| 17-1/2 | 13-3/8 | 1064 | 750 | | |
| 12-1/4 | 9-5/8 | 2329 | 650 | | |
| 8-3/4 | 7 | 5689 | | | |
| 8-3/4 | 5-1/2 | 14,145 | 3000 | | |
| | 2-7/8 tbg | 6467 | | | |

V. Well Test Data

| | | | | | |
|---------------------------------------|--|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| ³¹ Date New Oil 9/28/17 | ³² Gas Delivery Date 9/28/17 | ³³ Test Date 9/30/17 | ³⁴ Test Length 24hrs | ³⁵ Tbg. Pressure 70 | ³⁶ Csg. Pressure 70 |
| ³⁷ Choke Size | ³⁸ Oil 207 | ³⁹ Water 2335 | ⁴⁰ Gas 172 | | 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:



Printed name:
Kanicia Castillo

Title:
Lead Regulatory Analyst

E-mail Address:
kcastillo@concho.com

Date:
10/18/17

Phone:
432-685-4332

OIL CONSERVATION DIVISION

Approved by:



Petroleum Engineer

Title:

Petroleum Engineer

Approval Date:

11/02/17

C-104 TEMPORARY APPROVAL pending receipt of approved
BLM forms attached

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCE
OCT 20 2017
RECEIVED

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

| | | |
|--|---|---|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 5. Lease Serial No. NMLC054687 |
| 2. Name of Operator COG OPERATING LLC | | 6. If Indian, Allottee or Tribe Name |
| Contact: KANICIA CASTILLO E-Mail: kcastillo@concho.com | | 7. If Unit or CA/Agreement, Name and/or No. |
| 3a. Address 600 W ILLINOIS AVE MIDLAND, TX 79701 | 3b. Phone No. (include area code) Ph: 432-685-4332 | 8. Well Name and No. NELSON FEDERAL COM 23H |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 15 T17S R32E Mer NMP 2188FSL 1895FWL | | 9. API Well No. 30-025-43706 |
| | | 10. Field and Pool or Exploratory Area MALJAMAR;YESO, WEST |
| | | 11. County or Parish, State LEA COUNTY, NM |

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|--|---|
| <input 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 checked="" 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 checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Site Facility Diagram/Security Plan |
| | <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 recompletable 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.

Please see attached facility diagram for the following wells:

Nelson Federal Com 13H API# 30-025-43705
Nelson Federal Com 23H API# 30-025-43706

| | |
|---|-----------------|
| 14. I hereby certify that the foregoing is true and correct. Electronic Submission #392357 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs | |
| Name (Printed/Typed) KANICIA CASTILLO | Title PREPARER |
| Signature (Electronic Submission) | Date 10/18/2017 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|-------------|--------------|
| Approved By _____ | Title _____ | 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 _____ |

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 ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMLC054687

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
NELSON FEDERAL COM 23H9. API Well No.
30-025-4370610. Field and Pool or Exploratory Area
MALJAMAR;YESO, WEST11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KANICIA CASTILLO
E-Mail: kcastillo@concho.com3a. Address
600 W ILLINOIS AVE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-4332

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

Sec 15 T17S R32E Mer NMP 2188FSL 1895FWL

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|--|---|
| <input 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 checked="" 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 checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Drilling Operations |
| | <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 must 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 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.

6/22/17 Drilled 5? formation to 14,150 TD. Spotted 2500 gals acid.

7/03/17 Test production casing to 6005# for 30mins, good test.

7/18/17 - 7/25/17 Perf 45 stages @ 6876 ? 14,036 w/6 SPF, 1620 holes. Acidize 45 stages w/179,424 gals 15% HCL. Frac w/698,838 gals treated water, 11,107,110 gals slick water, 3,373,980# 100 mesh sand, 6,097,840# 40/70 white sand, 1,263,280# 40/70 RCS.

8/15/17 ? 8/17/17 Drill out plugs. Clean out to PBTD 14,066.

8/29/17 RIH w/ESP, 195jts 2-7/8" J55 tbg, EOT @ 6467. Hang on.

To replace Transaction #392276 from 10/17/17.

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

**Electronic Submission #392343 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 10/18/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|--------------|------------|
| Approved By _____ | Title _____ | 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 _____ | |

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 ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

| | | | |
|--|--|---|--|
| 1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other | | 5. Lease Serial No. NMLC054687 | |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Drill Resvr. Other _____ | | 6. If Indian, Allottee or Tribe Name | |
| 2. Name of Operator COG OPERATING LLC | | 7. Unit or CA Agreement Name and No. | |
| Contact: KANICIA CASTILLO E-Mail: kcastillo@concho.com | | 8. Lease Name and Well No. NELSON FEDERAL COM 23H | |
| 3. Address 600 W ILLINOIS AVE ONE CONCHO CENTER MIDLAND, TX 79701 | | 9. API Well No. 30-025-43706 | |
| 3a. Phone No. (include area code) Ph: 432-685-4332 | | 10. Field and Pool, or Exploratory MALJAMAR, YESO, WEST | |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 15 T17S R32E Mer NMP Lot K 2188FSL 1895FWL At top prod interval reported below Sec 15 T17S R32E Mer NMP 2930FSL 1700FWL At total depth Sec 10 T17S R32E Mer NMP Lot C 221FNL 1676FWL | | 11. Sec., T., R., M., or Block and Survey or Area Sec 15 T17S R32E Mer NMP | |
| 14. Date Spudded 05/23/2017 | | 15. Date T.D. Reached 06/09/2017 | |
| 16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/29/2017 | | 17. Elevations (DF, KB, RT, GL)* 4044 GL | |
| 18. Total Depth: MD 14150 TVD 6370 | | 19. Plug Back T.D.: MD 14066 TVD 6370 | |
| 20. Depth Bridge Plug Set: MD TVD | | 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN | |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 12.250 | 9.625 J55 | 40.0 | | 2329 | | 650 | | | |
| 8.750 | 7.000 L80 | 29.0 | | 5689 | | | | | |
| 8.750 | 5.500 L80 | 17.0 | | 14145 | | 3000 | | | |
| 17.500 | 13.375 J55 | 54.5 | 0 | 1064 | | 750 | | 0 | |
| | | | | | | | | | |
| | | | | | | | | | |

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 | 6467 | | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------|------|--------|---------------------|-------|-----------|--------------|
| A) YESO | 6876 | 14036 | 6876 TO 14036 | 0.430 | 1620 | OPEN |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

26. Perforation Record

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

| Depth Interval | Amount and Type of Material |
|----------------|---|
| 6876 TO 14036 | ACIDIZE W/ 179,424 15% ACID, FRAC W/ 698,838 GALS TREATED WATER, 11,107,110 GALS SLICK WATER, |
| | |
| | |

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 |
|---------------------|----------------------|------------------|-----------------|-------------|-------------|----------------|-----------------------|-----------------|---------------------------|
| 09/28/2017 | 09/30/2017 | 24 | → | 207.0 | 172.0 | 2335.0 | 37.5 | 0.60 | ELECTRIC PUMP SUB-SURFACE |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. 70.0 | 24 Hr. Rate → | Oil BBL 207 | Gas MCF 172 | Water BBL 2335 | Gas:Oil Ratio 831 | Well Status 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 | |

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

ELECTRONIC SUBMISSION #392356 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 |
|------------|------|--------|------------------------------|------------|--------------------|
| TANSILL | 2094 | | DOLOMITE | TANSILL | 2094 |
| QUEEN | 3165 | | SANDSTONE | QUEEN | 3165 |
| GRAYBURG | 3594 | | DOLOMITE & ANHYDRITE | GRAYBURG | 3594 |
| SAN ANDRES | 3935 | | DOLOMITE & ANHYDRITE | SAN ANDRES | 3935 |
| PADDOCK | 5516 | | DOLOMITE | PADDOCK | 5516 |
| BLINEBRY | 6002 | | | BLINEBRY | 6002 |

32. Additional remarks (include plugging procedure):

Logs will be submitted in WIS.
Logs will be mailed to the OCD.

Casing tests:

5/24/17 Test 13-3/8csg to 1800# for 30mins, good test.
5/26/17 Test 12-1/4csg to 1500# for 30mins, good test.

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 #392356 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs

Name (please print) KANICIA CASTILLOTitle PREPARERSignature (Electronic Submission)Date 10/18/2017

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 ****