

NM OIL CONSERVATION

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 87401
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

ARTESIA DISTRICT

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 2208 W. Main Street Artesia, NM 88210 | | ² OGRID Number 229137 |
| | | ³ Reason for Filing Code/ Effective Date NW |
| ⁴ API Number 30 - 015-42608 | ⁵ Pool Name Shugart; Bone Spring, North | ⁶ Pool Code 56405 |
| ⁷ Property Code 313622 | ⁸ Property Name Flying Squirrel Federal | ⁹ Well Number 1H |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I | 30 | 18S | 31E | | 2000 | South | 450 | East | Eddy |

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 |
|-----------------------------|---|--------------------------------------|-----------------------------------|---------|------------------------------------|------------------|-------------------------------------|----------------|--------|
| I | 29 | 18S | 31E | | 2179 | South | 342 | East | Eddy |
| ¹² Lse Code F | ¹³ Producing Method Code P | ¹⁴ Gas Connection Date | 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 |
|------------------------------------|---|---------------------|
| 272091 | High Sierra Crude Oil and Marketing LLC 14301 Caliber Drive - Ste 100 Oklahoma City, OK 73134 | O |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

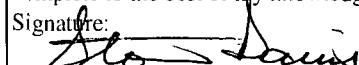
IV. Well Completion Data

| | | | | | |
|------------------------------------|--------------------------------------|----------------------------|------------------------------|---|-----------------------|
| ²¹ Spud Date 9/19/14 | ²² Ready Date 11/25/14 | ²³ TD 13897' | ²⁴ PBTD 13895' | ²⁵ Perforations 9345-13805' | ²⁶ DHC, MC |
| ²⁷ Hole Size | ²⁸ Casing & Tubing Size | ²⁹ Depth Set | ³⁰ Sacks Cement | | |
| 17 1/2" | 13 3/8" | 625' | 600 | | |
| 12 1/4" | 9 5/8" | 2500' | 850 | | |
| 7 7/8" | 5 1/2" | 13895' | 2550 | | |
| | 2 7/8" | 8294' | | | |

V. Well Test Data

| | | | | | |
|--|---------------------------------|------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| ³¹ Date New Oil 11/26/14 | ³² Gas Delivery Date | ³³ Test Date 12/5/14 | ³⁴ Test Length 24 Hrs | ³⁵ Tbg. Pressure 350# | ³⁶ Csg. Pressure 110# |
| ³⁷ Choke Size | ³⁸ Oil 788 | ³⁹ Water 1302 | ⁴⁰ Gas 504 | | ⁴¹ Test Method Pumping |

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:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
12/16/14

Phone:
575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned

NM OIL CONSERVATION

ARTESIA DISTRICT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 17 2014

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.

| | | |
|--|---|---|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 5. Lease Serial No. NMLC029387B |
| 2. Name of Operator COG OPERATING LLC | | 6. If Indian, Allottee or Tribe Name |
| Contact: STORMI DAVIS E-Mail: sdavis@concho.com | | 7. If Unit or CA/Agreement, Name and/or No. |
| 3a. Address 2208 WEST MAIN ARTESIA, NM 88210 | 3b. Phone No. (include area code) Ph: 575-748-6946 | 8. Well Name and No. FLYING SQUIRREL FEDERAL 1H |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T18S R31E NESE 2000FSL 450FEL | | 9. API Well No. 30-015-42608 |
| | | 10. Field and Pool, or Exploratory SHUGART; BONE SPRING, N |
| | | 11. County or Parish, and State EDDY COUNTY, NM |

12. CHECK 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"/> Fracture Treat | <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 | |
| | <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 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 shall 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 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.)

10/23/14 MIRU. Test to 9500#. Good test. Set CBP @ 13845'. Test csg to 8455#. Good test.
Perf 13795-13805' (60). Perform injection test.

11/10/14 to 11/13/14 Perforate Bone Spring 9345-13731' (540). Acdz w/93698 gal 7 1/2% acid. Frac
w/6817200# sand & 5681809 gal fluid.

11/22/14 Drilled out frac plugs & CBP. Cleaned down to FC @ 13895'.

11/25/14 Set 2 7/8" 6.5# L-80 tbg @ 8294'. Placed well on pump.

11/26/14 Date of 1st production.

Accepted for record
JRS NMOC 12/18/14

| | |
|--|-----------------|
| 14. I hereby certify that the foregoing is true and correct. Electronic Submission #285350 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad | |
| Name (Printed/Typed) STORMI DAVIS | Title PREPARER |
| Signature (Electronic Submission) | Date 12/16/2014 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | |
|---|--------------|
| 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 _____ |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. | |

Pending BLM approvals will
subsequently be reviewed
and scanned

** 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

DEC 17 2014

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMLC029387B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
FLYING SQUIRREL FEDERAL 1H

9. API Well No.
30-015-42608

10. Field and Pool, or Exploratory
SHUGART; BONE SPRING, N

11. Sec., T., R., M., or Block and Survey
or Area Sec 30 T18S R31E Mer NMP

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3600 GL

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

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

b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

2. Name of Operator
COG OPERATING LLC

Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

3. Address 2208 W MAIN ST
ARTESIA, NM 88210

3a. Phone No. (include area code)
Ph: 575-748-6946

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 30 T18S R31E Mer NMP
At surface NESE 2000FSL 450FEL
At top prod interval reported below
Sec 29 T18S R31E Mer NMP
At total depth NESE 2179FSL 342FEL

14. Date Spudded
09/19/2014

15. Date T.D. Reached
10/08/2014

16. Date Completed
☐ D & A ☒ Ready to Prod.
11/25/2014

18. Total Depth: MD 13897
TVD 8810

19. Plug Back T.D.: MD 13895
TVD 8810

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE

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

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cement Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|--------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500 | 13.375 J55 | 54.5 | 0 | 625 | | 600 | | 0 | |
| 12.250 | 9.625 J55 | 36.0 | 0 | 2500 | | 850 | | 0 | |
| 7.875 | 5.500 P110 | 17.0 | 0 | 13895 | | 2550 | | 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 | 8294 | | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|----------------|------|--------|---------------------|-------|-----------|--------------|
| A) BONE SPRING | 9345 | 13805 | 9345 TO 13731 | 0.430 | 540 | OPEN |
| B) | | | 13795 TO 13805 | | 60 | OPEN |
| C) | | | | | | |
| D) | | | | | | |

26. Perforation Record

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

| Depth Interval | Amount and Type of Material |
|----------------|-----------------------------|
| 9345 TO 13731 | SEE IN REMARKS |
| | |
| | |
| | |

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 |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|--------------------|
| 11/26/2014 | 12/05/2014 | 24 | → | 788.0 | 504.0 | 1302.0 | | | ELECTRIC PUMP SUR- |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio | Well Status | |
| | 350 | 110.0 | → | 788 | 504 | 1302 | | | |

28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #285361 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Pending BLM approvals will
subsequently be reviewed
and scanned

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.)
FLARED

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 |
|-----------------|------|--------|------------------------------|---------------|--------------------|
| CHERRY CANYON | 4394 | 4558 | | RUSTLER | 564 |
| BRUSHY CANYON | 4559 | 6067 | | TOS | 637 |
| BONE SPRING LM | 6068 | 7743 | | BOS | 1941 |
| 1ST BONE SPRING | 7744 | 8573 | | YATES | 2084 |
| 2ND BONE SPRING | 8574 | 8840 | | SEVEN RIVERS | 2471 |
| | | | | QUEEN | 3184 |
| | | | | CHERRY CANYON | 4394 |
| | | | | BRUSHY CANYON | 4559 |

32. Additional remarks (include plugging procedure):

Perfs 7 1/2" Sand (#) Fluid (gal)
 13540-13731' 7006 466087 470350
 13245-13445' 6132 450856 376278
 12945-13150' 6048 450433 378378
 12645-12845' 6090 457036 374892
 12345-12545' 6048 458117 377124
 12045-12242' 6090 448946 371196
 11745-11945' 6426 451410 369894

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 #285361 Verified by the BLM Well Information System.
 For COG OPERATING LLC, sent to the Carlsbad

Name (please print) STORMI DAVISTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 12/16/2014

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 ****

Additional data for transaction #285361 that would not fit on the form

32. Additional remarks, continued

11450-11645' 6384 451952 370950
11145-11345' 5999 451161 369761
10845-11046' 6066 454181 371214
10542-10745' 6006 459374 374178
10245-10445' 6108 455982 368064
9945-10145' 6048 451469 371280
9645-9845' 5982 450456 368831
9345-9545' 7266 459740 369420
Totals 93698 6817200 5681809

Additional Tops:

Bone Spring Lm 6068
1st Bone Spring 7744
2nd Bone Spring 8574

Surveys are attached.