

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS

LEASE DESIGNATION AND SERIAL NO.
NMNM118720

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

b. Type of Completion New Well Workover Deepen Plug Back Diff. Resvr.

Other _____

2. Name of Operator
COG Operating LLC

3. Address
**2208 W. Main Street
Artesia, NM 88210**

3a. Phone No. (include area code)
575-748-6940

6. INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT

8. FARM OR LEASE NAME
Patterson B-52 Federal #3H

9. API WELL NO.
30-025-39638

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

At surface **2310' FSL & 1500' FEL, Unit J (NWSE)**

At top prod. Interval reported below

At total depth **331' FSL & 1674' FEL, Unit O (SWSE)**

10. FIELD NAME
Lusk; Bone Spring, North

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA **5 T 19S R 32E**

12. COUNTY OR PARISH **Lea** 13. STATE **NM**

14. Date Spudded **8/11/10** 15. Date T.D. Reached **9/1/10** 16. Date Completed **12/15/10**
 D & A Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)*
3662' GR 3679' KB

18. Total Depth: MD **11080'** TVD **9388'** 19. Plug back T.D.: MD **11041'** TVD **9386'** 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & other Logs Run (Submit a copy of each)
DLL, DSN

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

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 1/2" | 13 3/8" J55 | 54.5# | 0 | 1169' | | 950 sx | | 0 | None |
| 12 1/4" | 9 5/8" J55 | 36# | 0 | 3293' | | 1050 sx | | 0 | None |
| 7 7/8" | 5 1/2" N80 | 17# | 0 | 11080' | | 1350 sx (TOC @ 2500'-TS) | | 0 | None |

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 7/8" | 8811' | | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. of Holes | Perf Status |
|----------------|-------|--------|---------------------|------|--------------|-------------|
| A) Bone Spring | 9530' | 11000' | 10602-11000' | | 32 | Open |
| B) | | | 10070-10460' | | 32 | Open |
| C) | | | 9530-9920' | | 24 | Open |
| D) | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 10602-11000' | Acdz w/1689 gal 15% NEFE; Frac w/404578# sand & 255982 gal fluid |
| 10070-10460' | Acdz w/4755 gal 15% NEFE; Frac w/401076# sand & 273748 gal fluid |
| 9530-9920' | Acdz w/2992 gal 15% NEFE; Frac w/402278# sand & 261316 gal fluid |

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 |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 12/16/10 | 12/18/10 | 24 | → | 164 | 177 | 190 | | | Pumping |
| Choke Size | Tbg. Press Flwg. SI | Csg Press. | 24 Hr. Rate | Oil Bbl | Gas MCF | Water Bbl | Gas: Oil Ratio | Well Status | Producing |
| | SI | 100# | → | | | | | | |

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 | |
| | SI | | → | | | | | | |

* See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
JAN 2 2011
BUREAU OF LAND MANAGEMENT
ALBUQUERQUE FIELD OFFICE

PETROLEUM ENGINEER
FEB 16 2011

28b. Production- Interval C

| | | | | | | | | | |
|---------------------|---------------------|--------------|----------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| Date First Produced | Test Date | Hours Tested | Test Production → | Oil Bbl | Gas MCF | Water Bbl | Oil Gravity Corr. API | Gas Gravitv | 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 Gravitv | 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:

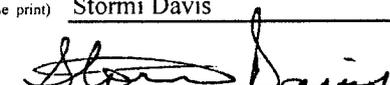
| Formation | Top | Bottom | Descriptions Contents, Etc. | Name | Top |
|--------------|-------|--------|-----------------------------|----------------|----------------|
| | | | | | Measured Depth |
| Yates | 2933' | 3336' | | Rustler | 1121' |
| Seven Rivers | 3337' | 3776' | | Top of Salt | 1412' |
| Queen | 3777' | 4216' | | Bottom of Salt | 2718' |
| Grayburg | 4217' | 4552' | | Yates | 2933' |
| San Andres | 4553' | 4863' | | Seven Rivers | 3337' |
| Delaware | 4864' | 7081' | | Queen | 3777' |
| Bone Spring | 7082' | 11080' | | Grayburg | 4217' |
| | | | | San Andres | 4553' |
| | | | | Delaware | 4864' |
| | | | | Bone Spring | 7082' |
| | | | | | TD. 11080' |

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/ Mechanical Logs (1 full set required)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other: Deviation Report

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

Name (please print) Stormi Davis Title Regulatory Analyst
 Signature  Date 12/20/10

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.