

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff Resvr,
Other Recompletion & Commingle DHC-3987

2 Name of Operator **COG Operating LLC**3 Address **550 W. Texas, Suite 1300 Midland, TX 79701**3a Phone No (include area code)
432-685-4332

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

At surface **2310 FNL & 2310 FWL, Unit F**

At top prod interval reported below

At total depth

APR - 4 2008**OCD-ARTESIA**5 Lease Serial No **NM - LC054988**

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

8 Lease Name and Well No
Berry Federal #49 AFI Well No
30-015-0423510 Field and Pool, or Exploratory
Grbg Jackson Loco Hills; Glorieta-Yeso / Queen SA11 Sec, T, R, M, on Block and
Survey or Area **Sec 21, T17S, R30E**12 County or Parish
Eddy13 State
NM14 Date Spudded
11/06/197915 Date T D Reached
11/10/197916 Date Completed **03/18/2008**
☐ D & A ☒ Ready to Prod17 Elevations (DF, RKB, RT, GL)*
3648 GL18. Total Depth MD **6859**
TVD19 Plug Back T D MD **6595**
TVD20 Depth Bridge Plug Set MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CN / HNGS, Micro CFL / HNGS22 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 Sks & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-----------|----------|-------------|----------------------|----------------------------|-------------------|-------------|---------------|
| 12-1/4 | 8-5/8 | 28# | | 1442 | | 500 C | | | None |
| 7-7/8 | 4-1/2 | 11.6/9.5# | | 6859 | | 658 C | | | 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 3/8" | 5293 | | | | | | | |

25 Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No Holes | Perf Status |
|---------------------------------|-----------------|--------|---------------------|--------------|------------|-------------|
| A) Grbg Jackson Queen SA | Existing | | 2615 - 3388 | 2 SPF | 103 | Open |
| B) Yeso | New | | 5440 - 5460 | 2 SPF | 36 | Open |
| C) Yeso | New | | 5710 - 5910 | 2 SPF | 36 | Open |
| D) | | | | | | |

27 Acid, Fracture, Treatment, Cement Squeeze, etc

| Depth Interval | Amount and Type of Material |
|--------------------|--|
| 2615 - 3388 | 4 Stage Frac. Each stage 5,000 gals pad, 20,000 gals gelled water, 21,000# 20/40 sand. |
| 5440 - 5460 | Acidize w/5,000 gals acid. Frac w/61,307 gals gel, 76,406# 16/30 sand, 15,766# Siberprop. |
| 5710 - 5910 | Acidize w/5,000 gals acid. Frac w/59,230 gals gel, 68,100# 16/30 sand, 15,567# Siberprop. |

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 |
|---------------------|-------------------|--------------|-----------------|------------|-----------|------------|----------------------|-------------|-------------------|
| 03/20/2008 | 03/24/2008 | 24 | → | 104 | 85 | 110 | 37.0 | | Pumping |
| Choke Size | Tbg Press Flwg SI | Csg Press | 24 Hr Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | Producing |
| | | | → | | | | | | |

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 page 2)

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 |
|------------|------|--------|------------------------------|------|-------------------|
| Queen | 2160 | 2200 | | | |
| Premier | 2968 | | | | |
| San Andres | 3082 | | | | |
| Glorieta | 4345 | | | | |
| Yeso | 4410 | | | | |
| Abo | 6843 | | | | |

32. Additional remarks (include plugging procedure):

DHC - 3987

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

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

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) Kanicia CarrilloTitle Regulatory AnalystSignature Date 03/28/2008

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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|--|--|--|
| ¹ API Number 30-015-04235 | ² Pool Code 96718 | ³ Pool Name Loco Hills; Glorieta-Yeso |
| ⁴ Property Code 006051 | ⁵ Property Name Berry A Federal | ⁶ Well Number 4 |
| ⁷ OGRID No. 229137 | ⁸ Operator Name COG OPERATING LLC | ⁹ Elevation 3648 |

¹⁰ Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|----------------------------------|------------------------------|-------------------------------|-----------------------|
| UL or lot no. F | Section 21 | Township 17S | Range 33E | Lot Idn | Feet from the 2310 | North/South line North | Feet from the 2310 | East/West line West | County Eddy |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|----------------------------------|------------------------------|-------------------------------|-----------------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|--|-------------------------------|----------------------------------|-------------------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| ¹² Dedicated Acres 40 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

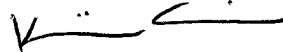
| | | | | | |
|---------------|--|--|--|--|--|
| ¹⁶ | | | | | ¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature Kanicia Carrillo Printed Name Regulatory Analyst Title and E-mail Address 12/12/07 Date |
| | | | | | ¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i> Date of Survey Signature and Seal of Professional Surveyor Certificate Number |

Diagram showing well location #4 at the intersection of 2310' lines.

Accepted for record
NMCD

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WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | |
|--|--|--|--|---|---------------------------------------|
| ¹ API Number 30-015-04235 | | ² Pool Code 28509 | | ³ Pool Name Grayburg Jackson SR; Queen Grayburg SA | |
| ⁴ Property Code 006051 | | ⁵ Property Name Berry A Federal | | | ⁶ Well Number 4 |
| ⁷ OGRID No. 229137 | | ⁸ Operator Name COG OPERATING LLC | | | ⁹ Elevation 3648 |

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¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|--|---------|-------------------------------|-------|----------------------------------|---------------|-------------------------|---------------|----------------|--------|
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| | | | | | |
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Accepted for record
NMOCD