

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

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

Mallon Oil Company, an indirect wholly-owned subsidiary of Black Hills Exploration and Production, I

3. Address

350 Indiana Street, Suite 400, Golden, CO 80401

3a. Phone No. (include area code)

720-210-1300

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

At surface 2205' FSL and 1530' FWL (NESW) Unit K

At top prod. interval reported below 2205' FSL and 1530' FWL (NESW) Unit K

At total depth 2205' FSL and 1530' FWL (NESW) Unit K

14. Date Spudded

3/8/98

15. Date T.D. Reached

3/16/98

16. Date Completed

☐ D&A

☒ Ready to Prod.

6-24-03

5. Lease Serial No.

Jic 459

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

7. Lease or CA Agreement Name and No.

N/A

8. Lease Name and Well No.

Jicarilla 459-20 #8

9. API Well No.

30-039-25787

10. Field and Pool, or Exploratory

East Blanco; Pictured Cliffs

11. Sec., T., R., M., on Block and Survey or Area

20, 30N-3W

12. County or Parish

Rio Arriba

13. State

NM

17. Elevations (DF, RKB, RT, GL)*

7240' GL

18. Total Depth: MD 4090' KB
TVD

19. Plug Back T.D.: MD 4012' KB
TVD

20. Depth Bridge Plug Set: MD
TVD

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

Existing

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 |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 12-1/4" | 8-5/8" | 24# | 0 | 529' | | 300 sx "B" | | | |
| 7-7/8" | 5-1/2" | 15.5# | 0 | 4080' | | 332 sx | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 1.9 | 3049' | 3114' | | | | | | |

25. Producing Intervals

26. Perforation Record

| Formation | TOP | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|--------------------|-------|--------|---------------------|------|-----------|--------------|
| A) Pictured Cliffs | 3794' | 3842' | 3830-3842' KB | 2 | 78 | |
| B) | | | 3810-3821' | | | |
| C) | | | 3794-3805' | | | |
| D) | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 3794-3842' | 65 quality fm 481,600 SCF of N2 54100# 12/20 Brown sd & 7400# FlexSand LS + 61,500# prop @ 1/4 ppg stage |
| | |
| | |

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 |
|---------------------|----------------------|--------------|--------------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | 6/24/03 | 24 | <input type="checkbox"/> | 0 | 1039 | 0 | | | Flowing |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status | |
| 3/8" | | | <input type="checkbox"/> | | | | | 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 |
|---------------------|----------------------|--------------|--------------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | <input type="checkbox"/> | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Call Press | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status | |
| | | | <input type="checkbox"/> | | | | | | |

(See instructions and appendix for additional data on next page)

ACCEPTED FOR RECORD
APR 8 2004

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 |
|---------------------|--------------------|--------------|--------------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | <input type="checkbox"/> | | | | | | |
| Choke Size | Thg Press Flwg. SI | Csg. Press | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status | |
| | | | <input type="checkbox"/> | | | | | | |

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 |
|---------------------|--------------------|--------------|--------------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | <input type="checkbox"/> | | | | | | |
| Choke Size | Thg Press Flwg. SI | Csg. Press | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status | |
| | | | <input type="checkbox"/> | | | | | | |

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

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 |
| | | | | Ojo Alamo | 3261 |
| | | | | Kirtland | 3504 |
| | | | | Fruitland | 3692 |
| | | | | Pictured Cliffs | 3794 |
| | | | | Lewis | 3888 |

32. Additional remarks (include plugging procedure):

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)*

Name (please print) Allison Newcomb

Title Engineering Technician

Signature

Allison Newcomb

Date 2/11/04

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.