

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

15. Lease Serial No.
Jicarilla Contract #4601a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Otherb. Type of Completion: ☐ New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resv.

Other _____

2. Name of Operator

Mallon Oil Co, an indirect wholly-owned subsidiary of Black Hills E & P

3. Address

350 Indiana Street, Suite 400 Golden, CO 80401

3a. Phone No. (include area code)

720-210-1308

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

At surface 180' FSL & 330' FEL (SESE) Unit P

At top prod. interval reported below 180' FSL & 330' FEL (SESE) Unit P

At total depth 180' FSL & 330' FEL (SESE) Unit P

14. Date Spudded

7/21/98

15. Date T.D. Reached

7/28/98

16. Date Completed

☐ D & A☒ Ready to Prod.

8/15/2002

6. If Indian, Allottee or Tribe Name

Jicarilla Apache Tribe

7. Unit or CA Agreement Name and No.

Unit 16 N.M.

8. Lease Name and Well No.

Jicarilla 460-15 No. 4

9. API Well No.

30-039-25904

10. Field and Pool, or Exploratory

East Blanco, Pictured Cliffs

11. Sec., T., R., M., on Block and Survey
or Area Sec. 15, T30N-R03W

12. County or Parish

Rio Arriba

13. State

NM

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

7183' GL, 7196' KB

18. Total Depth: MD

TVD 3900'

19. Plug Back T.D.: MD

TVD 3828'

20. Depth Bridge Plug Set: MD

TVD

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

DIND, SGRD

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" | 25 | 0 | 550' | | 100 sxs | | surface; | |
| | | | | | | & Class H | | circ 35 sx | |
| | | | | | | | | to surface | |
| 7 7/8" | 5 1/2" | 15.5 | 0 | 3882' | | 185 sxs | | surface; | |
| | | | | | | | | circ 10 sx | |
| | | | | | | | | to surface | |

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 | 3621' KB | 3610' KB | | | | | | |

25. Producing Intervals

| Formation | TOP | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|--------------------|-------|--------|--------------------------|-------|-----------|--------------|
| A) Pictured Cliffs | 3629' | 3654' | 3629'-3646', 3649'-3654' | 4 jsf | 88 | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

26. Perforation Record

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

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 3629'-3654' | Acidize 1500 gals 7-1/2% HCL Frac. 28,500 ls sand. |
| | |
| | |

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 |
|---------------------|----------------------|--------------|--------------------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 5/3/03 | 5/3/03 | 24 | <input type="checkbox"/> | 0 | 254 | 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 spaces for additional data on next page)

ACCEPTED FOR RECORD
MAR 31 2004

28b. Production - Interval C

| | | | | | | | | | |
|---------------------|-----------------------|--------------|---|---------|---------|-----------|--------------------------|-------------|-------------------|
| Date First Produced | Test Date | Hours Tested | Test Production <input type="checkbox"/> | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
| Choke Size | Thg Press Flwg. SI | Csg. Press | 24 Hr. Rate <input type="checkbox"/> | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status | |

28c. Production - Interval D

| | | | | | | | | | |
|---------------------|-----------------------|--------------|---|---------|---------|-----------|--------------------------|-------------|-------------------|
| Date First Produced | Test Date | Hours Tested | Test Production <input type="checkbox"/> | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
| Choke Size | Thg Press Flwg. SI | Csg. Press | 24 Hr. Rate <input type="checkbox"/> | 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 |
| | | | | San Jose | ~surface |
| | | | | Nacimiento | 1932' |
| | | | | Ojo Alamo | 3124' |
| | | | | Kirtland | 3360' |
| | | | | Fruitland | 3560' |
| | | | | Pictured Cliffs | 3612' |
| | | | | Lewis | 3710' |

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 3/1/2004

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.