

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)

Form approved,  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

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 ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other ☐

2. NAME OF OPERATOR

Reading & Bates Petroleum Co.

3. ADDRESS OF OPERATOR

3200 Mid-Continent Tower Tulsa, OK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 2025 FSL 915 FEL

At top prod. interval reported below

At total depth

14. PERMIT NO. DIST. 3

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLEUTIAN OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ingram Federal 16

9. WELL NO.

43-16

10. FIELD AND POOL, OR WILDCAT

Gavilan Mancos

11. SEC., T., R., M. OR BLOCK AND SURVEY OR AREA

Sec. 16-T25N-R2W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

15. DATE SPUDDED 7-6-87 16. DATE T.D. REACHED 7-16-87 17. DATE COMPL. (Ready to prod.) 9-19-87 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 7237' GR 19. ELEV. CASINGHEAD 7237'

20. TOTAL DEPTH, MD & TVD 8025' 21. PLUG, BACK T.D., MD & TVD 7938 22. IF MULTIPLE COMPL., HOW MANY? 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* Gallup 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-GR, FDC-CNL-GR-CAL, BUTV, CBL-GR

27. WAS WELL CORED

No

| CASING RECORD (Report all strings set in well) |                 |                |           |                                      |  | AMOUNT PULLED |  |
|------------------------------------------------|-----------------|----------------|-----------|--------------------------------------|--|---------------|--|
| CASING SIZE                                    | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD                     |  |               |  |
| 9-5/8"                                         | 36#             | 360'           | 12 1/4"   | 190 sx Cl "B" + 2% CaCl <sub>2</sub> |  |               |  |
| 5 1/2"                                         | 17#             | 5409-8205      | 7-7/8"    | 1050 sx 50/50 POZ &                  |  |               |  |
| 5 1/2"                                         | 15.5#           | 0-5409         | 7-7/8"    | 189 sx Cl "B" Tail                   |  |               |  |

| LINER RECORD |          |             |               |             | TUBING RECORD |                |                 |
|--------------|----------|-------------|---------------|-------------|---------------|----------------|-----------------|
| SIZE         | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE          | DEPTH SET (MD) | PACKER SET (MD) |
|              |          |             |               |             | 2-7/8"        | 6777           | 6777            |

| 31. PERFORATION RECORD (Interval, size and number) |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |                                  |
|----------------------------------------------------|--|------------------------------------------------|----------------------------------|
| 6838'-6978' 30 holes .48" Dia.                     |  | DEPTH INTERVAL (MD)                            | AMOUNT AND KIND OF MATERIAL USED |
| 7017'-7053' 10 holes .48" Dia.                     |  | 7-17'-7053'                                    | 33,474 gal + 39,600# 20/40 SD    |
|                                                    |  | 6838'-6978'                                    | 123,800 gal + 140,400# 20/40 SD  |

| 33.* PRODUCTION       |                 |                                                                         |                         |          |            |                         |               | WELL STATUS (Producing or shut-in) |  |
|-----------------------|-----------------|-------------------------------------------------------------------------|-------------------------|----------|------------|-------------------------|---------------|------------------------------------|--|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pump, etc.—size and type of pump) |                         |          |            |                         | Producing     |                                    |  |
| 9-19-87               |                 | Pumping                                                                 |                         |          |            |                         |               |                                    |  |
| DATE OF TEST          | HOURS TESTED    | CHOKE SIZE                                                              | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL.              | GAS-OIL RATIO |                                    |  |
| 10-18-87              | 24              | ---                                                                     | →                       | 60       | 582        | 10                      | 9700          |                                    |  |
| FLOW, TUBING PRESS.   | CASING PRESSURE | CALCULATED 24-HOUR RATE                                                 | OIL—BBL.                | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |               |                                    |  |
|                       |                 | →                                                                       | 60                      | 582      | 10         | TEST WITNESSED BY       |               |                                    |  |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY Matt Frihart

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Matthew Frihart TITLE Sr. Engineer Technician DATE 10-19-87

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (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):

| 38. GEOLOGIC MARKERS |       |        |                             |                 |
|----------------------|-------|--------|-----------------------------|-----------------|
| FORMATION            | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME            |
|                      |       |        |                             | MEAS. DEPTH     |
| CLIFF HOUSE          | 5165' |        |                             |                 |
| MENEFEE              | 5270' |        |                             |                 |
| PT. LOOKOUT          | 5625' |        |                             |                 |
| MANCOS               | 5790' |        |                             |                 |
| GALLUP               | 6820' |        |                             |                 |
| SANOSTEE             | 7357' |        |                             |                 |
| CARLILE              | 7465' |        |                             |                 |
| GREENHORN            | 7647' |        |                             |                 |
| GRANEROS             | 7720' |        |                             |                 |
| DAKOTA               | 7818' |        |                             |                 |
|                      |       |        |                             | TRUE VERT. DEPT |