

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

R & G Drilling Company C/O KM Production Company

3. Address and Telephone No.

PO Box 2406, Farmington, NM 87499 (505) 325-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FNL & 790' FEL Sec. 29, T28N, R11W

5. Lease Designation and Serial No.

SF-078863

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Krause #18

9. API Well No.

30-045-07234

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal  
Kutz Pictured Cliffs

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Recompletion in  
Fruitland Coal.

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached morning report.

RECEIVED  
MAY 24 1994  
OIL CON. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed

Title Petroleum Engineer

Date 5/18/94

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

MAY 24 1994

Title 18 U.S.C. Section 1001, makes 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.

\*See Instructions on Reverse Side

# R&G DRILLING COMPANY

## KRAUSE #18

790 FNL & 790 FEL  
NENE, SECTION 29, T28N R11W  
SAN JUAN COUNTY, NEW MEXICO

### FRUITLAND COAL RECOMPLETION

4-30-94 Move in and rig up Polanco Brothers service unit. No pressure on tubing or casing. Nipple down wellhead and nipple up BOP. Trip 60 joints of 1" tubing out of hole, laying down. Shutdown for the weekend.

5-1-94 Shutdown for Sunday.

5-2-94 Rig up Blue Jet wireline. Ran GR-CLL-CNL log from PBTD of 1653 ft RKB to 900 ft RKB. Set cast iron bridgeplug at 1636 ft RKB (Pictured Cliffs perms from 1638 to 1645 ft). From log analysis, there appear to be perforations from 1410 to 1415 and from 1031 to 1037 ft RKB. Rigged up the Western Company. Pressure tested bridgeplug and casing to 1000 psi. Lost 300 psi pressure in 10 minutes. Perforations do not appear to be open. Perforated entire Fruitland Coal interval with 0.50" holes at 4 JSPF using 4" casing gun as follows:

|             |       |           |
|-------------|-------|-----------|
| 1510 - 1518 | 8 ft  | 32 holes  |
| 1562 - 1565 | 3 ft  | 12 holes  |
| 1595 - 1604 | 9 ft  | 36 holes  |
| 1629 - 1634 | 5 ft  | 20 holes  |
| Total       | 25 ft | 100 holes |

Picked up 5 1/2" Mountain States Oil Tools fullbore packer and 2 7/8" 6.5 #/ft N80 EUE tubing. Tagged CIBP at 1638 ft RKB (2.31' tubing correction to logged hole). Moved packer to 1448 ft RKB and set packer. Broke down entire Fruitland Coal interval at 1300 psi. Established injection rate into the perforations down tubing of 7.0 BPM at 1200 psi, ISIP was 600 psi (FG=.81 psi/ft). Pumped 150 gallons of 7 1/2% DI HCl acid into perforations. Fracture stimulated entire Fruitland Coal interval down the 2 7/8" tubing with 54,000 gallons of 70 quality foam (fluid is 20# linear guar gel) containing 5,000 lbs of 40/70 mesh sand fluid loss additive and 80,000 lbs 20/40 mesh sand proppant as follows:

|                                      |          |               |
|--------------------------------------|----------|---------------|
| 10,000 gals of 70 quality foam pad   | 20 BPM @ | 2100 psi      |
| 5,000 gals of 1 ppg 40/70 sand       | 20 BPM @ | 2200 psi      |
| 5,000 gals of 70 quality foam spacer | 20 BPM @ | 2100 psi      |
| 10,000 gals of 1 ppg 20/40 sand      | 20 BPM @ | 2150 psi      |
| 10,000 gals of 2 ppg 20/40 sand      | 20 BPM @ | 2250 psi      |
| 8,000 gals of 3 ppg 20/40 sand       | 20 BPM @ | 2350-2500 psi |
| 4,000 gals of 4 ppg 20/40 sand       | 20 BPM @ | 2800 psi      |
| 2,000 gals of 5 ppg 20/40 sand       | 20 BPM @ | 3000 psi      |
| 400 gals of 70 quality foam flush    | 20 BPM @ | 2800 psi      |

ISIP 2850 psi, 5 min 1340 psi, 10 min 1330 psi, 15 min 1330 psi. Avg rate 20 BPM, Avg pressure 2300 psi, Max pressure 3100 psi, Min pressure 2000 psi, Avg nitrogen rate 8500 SCFM, Total nitrogen pumped 559,000 SCF, Total fluid to recover 376 Bbls. Shut well in for 3 hours. Flow well to atmosphere through 1/2" tapped bullplug. Well flowing to cleanup.

5-3-94 Well flowing back after frac to cleanup.

5-4-94 Well still flowing this morning. Pumped 15 barrels of water down the tubing to kill well and clear tubing and packer of sand. Released packer and tripped 2 7/8" tubing and packer out of hole, laying down tubing on float. Picked up 2 3/8" production tubing. Tagged sand fill in well at 1594 ft RKB. Circulated 42 feet of sand from casing cleaning out to bridge plug at 1636 ft RKB. Moved tubing up hole and landed as follows:

| Description                       | Length  | Depth       |
|-----------------------------------|---------|-------------|
| KB to landing point               | 5.00    | 0 - 5       |
| 52 jts of 2 3/8" 4.7 #/ft J55 EUE | 1591.89 | 5 - 1597    |
| 1 seating nipple                  | 1.10    | 1597 - 1598 |
| 1 jt of 2 3/8" 4.7 #/ft J55 EUE   | 31.08   | 1598 - 1629 |
|                                   | 1629.07 |             |

Nipple down BOP and nipple up wellhead. Rigged to swab. Made 36 swab runs and recovered approximately 138 barrels of fluid. Annulus pressure built to 340 psi while swabbing. Shut well in. Shut down for the night.

5-5-94 Tubing had 40 psi, annulus had 350 psi. Well blew down immediately. Rigged to swab. Made 19 swab runs and kicked well off flowing. Well flowing steadily. Rigged down completion unit. Released rig.