

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<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No.<br>SF-078863          |
| 2. Name of Operator<br>R & G Drilling Company C/O KM Production Company  | 6. If Indian, Allottee or Tribe Name                      |
| 3. Address and Telephone No.<br>PO Box 2406, Farmington, NM 87499 (505)325-6900  | 7. If Unit or CA, Agreement Designation                   |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>810' FNL & 1850' FEL Sec. 33, T28N, R11W               | 8. Well Name and No.<br>Krause #60                        |
|  | 9. API Well No.<br>30-045-22286                           |
|  | 10. Field and Pool, or Exploratory Area<br>Kutz Fruitland |
|  | 11. County or Parish, State<br>San Juan, NM               |

| 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |   |   |
|---|---|---|
| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |
| <input checked="" type="checkbox"/> Notice of Intent<br><input type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input checked="" type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input type="checkbox"/> Other <u>Recompletion in Fruitland Coa</u> | <input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><input type="checkbox"/> Dispose Water<br><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small> |

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.)\*

As per attached procedures.

RECEIVED  
BLM  
92 SEP 30 AM 11:25  
OIL FIELD DIVISION, N.M.

SEP 22 1992  
OIL CON. DIV.  
DIST. 3

|   |                                 |                     |
|---|---------------------------------|---------------------|
| 14. I hereby certify that the foregoing is true and correct |                                 |                     |
| Signed <u>Kurt H. McGee</u>                                 | Title <u>Petroleum Engineer</u> | Date <u>9-29-92</u> |
| (This space for Federal or State office use)                |                                 |                     |
| Approved by _____   | Title _____                     |                     |
| Conditions of approval, if any:                             |                                 |                     |

APPROVED  
OCT 01 1992  
AREA MANAGER

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 instruction on Reverse Side

FRUITLAND COAL  
RE-COMPLETION PROGNOSIS  
R & G DRILLING CO.  
KRAUSE #60  
NWNE SEC 33, T28N R11W  
SAN JUAN COUNTY, NEW MEXICO

EXISTING TUBULARS

CASING: 4-1/2" 10.5 #/FT K-55 SET @ 2003'  
TUBING: 1-1/4" 2.4 #/FT J-55 SET @ 1670'

EXISTING PERFORATIONS

FRUITLAND SAND: 1669 - 1678 @ 2SPF

NOTE: PBTD AT 1965'. PC ZONE IS NOT PERFORATED!

PROCEDURE

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- 1 . MOVE IN AND RIG UP COMPLETION UNIT. SET ANCHORS IF NECESSARY.
- 2 . DIG AND FENCE RESERVE PIT. INSTALL 2" BLOWDOWN LINES.
- 3 . BLOW DOWN WELL. KILL WITH FRESH WATER IF NECESSARY. NIPPLE DOWN WELLHEAD AND NIPPLE UP BOP. CHECK AND REPLACE WELLHEAD AND VALVES IF NECESSARY.
- 4 . TRIP 1-1/4" TUBING OUT OF HOLE. LAYDOWN TUBING ON FLOAT.
- 5 . PICK UP 4 1/2" RETRIEVABLE PACKER AND 2-3/8" 4.7 #/FT J-55 TUBING. SET PACKER ABOVE AND BELOW EXISTING FRUITLAND SAND PERFORATIONS AND PRESSURE TEST 4 1/2" CASING TO 3000 PSI.
- 6 . MOVE PACKER TO +/- 1100'. RIG UP CEMENTERS. SQUEEZE CEMENT EXISTING FRUITLAND SAND PERFORATIONS (1669' - 1678') WITH 100 SACKS OF CLASS B CEMENT WITH 3% CaCl<sub>2</sub>. SQUEEZE PERFORATIONS TO 2500 PSI. REVERSE CIRCULATE ANY EXCESS CEMENT. WAIT ON CEMENT TO SET.
- 7 . TRIP TUBING AND PACKER OUT OF HOLE. TRIP IN HOLE WITH 3 7/8" BIT AND CASING SCRAPER ON TUBING. DRILL CEMENT REMAINING IN CASING.
- 8 . PRESSURE TEST CASING TO 3000 PSI. RESQUEEZE IF NECESSARY.
- 9 . MOVE TUBING TO PBTD. CIRCULATE HOLE CLEAN WITH FRESH WATER. TRIP TUBING OUT OF HOLE.
- 10 . RIG UP WIRELINE. PERFORATE THE FRUITLAND COAL INTERVAL WITH .40" HOLES AT 4 JSPF USING A 3 1/8" CASING GUN AS FOLLOWS:

|             |       |          |
|-------------|-------|----------|
| 1803 - 1806 | 3 FT  | 12 HOLES |
| 1827 - 1833 | 6 FT  | 24 HOLES |
| 1862 - 1872 | 10 FT | 40 HOLES |
| -----       |       |          |
| TOTAL       | 19 FT | 76 HOLES |

NOTE: CORRELATION LOG ALREADY EXISTS!

- 11 . PICK UP RETRIEVABLE PACKER ON TUBING. SET PACKER AT +/- 1700'.
- 12 . RIG UP PUMP TRUCK. BREAKDOWN FRUITLAND COAL PERFORATIONS DOWN THE TUBING. ESTABLISH AN INJECTION RATE AND PRESSURE. ACIDIZE THIS INTERVAL WITH 500 GALLONS OF 7 1/2% DI HCL ACID CONTAINING 114 7/8" RCN BALL SEALERS. ATTEMPT TO BALLOFF CASING TO 2500 PSI.
- 13 . MOVE TUBING AND PACKER TO PBTD TO KNOCK BALLSEALERS OFF PERFORATIONS. TRIP TUBING AND PACKER OUT OF HOLE.
- 14 . FRACTURE STIMULATE THE FRUITLAND COAL INTERVAL DOWN 4 1/2" CASING WITH 54,000 GALLONS OF 70 QUALITY NITROGEN FOAM (FLUID IS 20# GUAR GEL) CONTAINING 5,000# 40/70 MESH SAND FLUID LOSS ADDITIVE AND 80,000# 20/40 MESH SAND PROPPANT AS FOLLOWS:

10,000 GALS OF 70 QUALITY FOAM PAD  
5,000 GALS OF 1 PPG 40/70 SAND  
5,000 GALS OF 70 QUALITY FOAM SPACER  
10,000 GALS OF 1 PPG 20/40 SAND  
10,000 GALS OF 2 PPG 20/40 SAND  
8,000 GALS OF 3 PPG 20/40 SAND  
4,000 GALS OF 4 PPG 20/40 SAND  
2,000 GALS OF 5 PPG 20/40 SAND  
FLUSH WITH 70 QUALITY FOAM TO TOP PERFORATION

DESIRED RATE: 20 BPM  
EXPECTED TREATING PRESSURE: 1200 TO 1700 PSI

(NOTE: ALL WATER TO CONTAIN 1% KCL AND 1/2 GAL/1000 CLAY STABILIZATION AGENT)

- 15 . SHUT WELL IN LONG ENOUGH TO OBSERVE FRACTURE CLOSURE PRESSURE.
- 16 . FLOW WELL BACK TO THE ATMOSPHERE THROUGH A 1/2" TAPPED BULLPLUG UNTIL THE WELL CLEANS UP OR DIES.
- 17 . TRIP THE 2-3/8" TUBING BACK IN THE HOLE WITH A NOTCHED COLLAR ON THE END AND A SEATING NIPPLE 1 JOINT UP. CLEAN OUT SAND AS NECESSARY.
- 18 . LAND TUBING AT +/- 1830'. NIPPLE DOWN BOP AND NIPPLE UP WELLHEAD.
- 19 . SWAB WELL IN IF NECESSARY. FLOW WELL TO CLEANUP FOR AOF.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|  |               |                 |                 |                          |               |
|--|---------------|-----------------|-----------------|--------------------------|---------------|
| Operator<br>R & G Drilling Co. C/O KM Production Co. |               |                 | Lease<br>Krause |                          | Well No<br>60 |
| Unit Letter<br>B                                     | Section<br>33 | Township<br>28N | Range<br>11W    | County<br>NM PM San Juan |               |

Actual Footage Location of Well:

|                            |                                       |       |                              |      |                           |      |       |
|----------------------------|---------------------------------------|-------|------------------------------|------|---------------------------|------|-------|
| 810                        | feet from the                         | North | line and                     | 1850 | feet from the             | East | line  |
| Ground level Elev.<br>5993 | Producing Formation<br>Fruitland Coal |       | Pool<br>Basin Fruitland Coal |      | Dedicated Acreage:<br>320 |      | Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes

☐ No

If answer is "yes" type of consolidation

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

RECEIVED  
OCT 02 1992  
OIL CON. DIV.  
DIST. 3

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Kevin H. McCord

Printed Name

Kevin H. McCord

Position

Petroleum Engineer

Company

KM Production Company

Date

9-28-92

SURVEYOR CERTIFICATION

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 knowledge and belief.

Date Surveyed

Signature & Seal of  
Professional Surveyor

Original plat on file

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0