

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.

P O Box 2406 Farmington NM 87499 (505) 325-6900

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

1745' FSL & 1580' FWL Sec. 28, 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 #11

9. API Well No.

30-045-07153

10. Field and Pool, or Exploratory Area

Kutz Farmington

11. County or Parish, State

San Juan County, 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 Recomplete 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.)*

As per attached procedures. This Krause #11 recompletion replaces the Krause #11-A approved Fruitland Coal recompletion. This sundry notice is also a response to the March 4, 1994 letter from the BLM requesting this well be conditioned to a useful function.

RECEIVED
APR 01 1994
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
APR 01 1994
OIL CON. DIV.
DIST. 3

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

Signed

Kim H. McCon

Title

Petroleum Engineer

Date

3/24/94

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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

NMOCD

APPROVED
MAR 29 1994
DISTRICT MANAGER

R&G DRILLING COMPANY
KRAUSE #11

1745 FSL & 1580 FWL
NESW, SECTION 28, T28N R11W
SAN JUAN COUNTY, NEW MEXICO

FRUITLAND COAL RECOMPLETION PROCEDURE

CURRENT STATUS:

CASING:

Surface - 8 5/8" 28.0 #/ft @ 97 ft
Longstring - 5 1/2" 14.0 #/ft @ 1697 ft (CIBP above Pictured
Cliffs formation at 1693 ft)

TUBING:

Production - 2 3/8" 4.7 #/ft J55 8RD EUE @ 1115 ft (approx)

EXISTING PERFORATIONS:

Farmington 1105 - 1118 13 ft

1. Move in and rig up service unit. Nipple down wellhead. Nipple up BOP. Trip 2 3/8" tubing out of hole.
2. Pick up 5 1/2" fullbore packer. Trip packer and tubing in hole and set at +/- 700 ft.
3. Rig up pump truck. Pressure test annulus (casing) to 1000 psi.
4. Squeeze cement existing Farmington perforations (1105-1118) with 50 sx (59 ft³) of Class B cement with 2% CaCl. Squeeze perforations to 2000 psi. Allow cement to set overnight.
5. Trip out of hole with tubing and packer. Trip in hole with bit on tubing. Drill out squeezed area cement. Rig up pump truck and pressure test squeeze to 1000 psi. Re-squeeze if necessary.
6. Move tubing to 1692 ft (bottom Fruitland Coal perforation). Circulate hole clean with fresh water. Spot 250 gallons of 7 1/2% DI HCl acid across the Fruitland Coal perforation interval. Trip tubing and bit out of hole.
7. Rig up wireline. Run GR-CLL-CNL logs from PBTD to 1500 ft RKB. Perforate the Fruitland Coal interval with .50" holes at 4 JSPF using 4" casing guns as follows:

1643 - 1646	3 ft	12 holes
1660 - 1668	8 ft	32 holes
<u>1684 - 1692</u>	<u>8 ft</u>	<u>32 holes</u>
Total	19 ft	76 holes

NOTE: Perforations may change after cased hole log analysis.

8. Pick up a fullbore packer and 2 7/8" 4.7 #/ft N80 EUE tubing work string. Set packer at +/- 1570 ft RKB. Break down the Fruitland Coal perfs down the tubing. Record all rates and pressures.
9. Fracture stimulate the entire Fruitland Coal interval down the 2 7/8" tubing with 64,000 gallons of 70 quality nitrogen foam (fluid is 20# linear guar gel) containing 10,000 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
5,000 gals of 1 ppg 40/70 sand
5,000 gals of 70 quality foam spacer
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
400 gals of nitrogen flush

Desired rate: 20 BPM

Expected treating pressure: 2600 psi

NOTE: All water to contain 1% KCL, bacteriacide, PH buffer, and enzyme breaker.

10. Shut well in long enough to observe fracture closure.
11. Flow back well to the atmosphere through a 1/2" tapped bullplug until the well cleans up or dies.
12. Release packer and trip the 2 7/8" workstring and packer out of the hole, laying down the 2 7/8" tubing.
13. Trip in hole with a notched collar on the 2 3/8" tubing and a seating nipple 1 joint up. Circulate sand fill from the well as necessary.
14. Move tubing uphole and land with the end of the tubing at +/- 1685 ft RKB. Nipple down BOP and nipple up wellhead.
15. Swab well as necessary. Flow well to cleanup for AOF.

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10
Revised February 10, 1993
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-07153		2 Pool Code		3 Pool Name Basin Fruitland Coal	
4 Property Code		5 Property Name Krause			6 Well Number 11
7 OGRID No.		8 Operator Name R & G Drilling Company, Inc.			9 Elevation 5809'

10 Surface Location

UL or lot no. K	Section 28	Township 28N	Range 11W	Lot Idn	Feet from the 1745	North/South line South	Feet from the 1580	East/West line West	County San Juan
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	--------------------

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedication Acres 320		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO A LOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>15</div>				<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <i>Kevin H. McCord</i></p> <p>Printed Name: Kevin H. McCord, Agent</p> <p>Title: Petroleum Engineer</p> <p>Date: 5/24/94</p>			
				<div>18 SURVEYOR CERTIFICATION</div> <p>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 belief.</p> <p>Date of Survey:</p> <p>Signature and Seal of Professional Surveyer:</p> <p>Original Plat on file</p> <p>Certificate Number:</p>			