

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN  
(Other Instru-  
verse side)ACATE\*  
on re-Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-023855A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Arco-Federal #10

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Boyd (Morrow) Gas

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

Sec. 10, T-19-S, R-25-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3479.9 GR

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

COUNTY OR PARISH

Eddy

13. STATE

New Mexico

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.)\*

Morrow 9144'-51' - Filled casing w/12 bbls. 2% KCl water, pressured to 1800 psig, fractured down tubing w/1000 gals. gelled 2% KCl water, 1000 gals. My-T-Frac pad (2% KCl water), 500 gals. My-T-Frac (2% KCl water), w/1# per gal. 10-20 U-CAR props, 1000 gals. My-T-Frac (2% KCl water), with 1#/gal. 8-12 U-CAR props, 1500 gals. 2% KCl water with friction reducer. Break down press. 5400 psig, avg. treating press. 5250 psig @ 4 B/M, ISDP 3700 psig, 5 min. 2500, 10 mins. 1900, 15 mins. 1700, 30 mins. 840, 35 mins. 650, S.I. for frac fluid to break.

Morrow 9113'-19' - Broke down perms 9113'-9119' w/2% KCl water. Break down press. 3500 psig @ 2 1/2 B/M. S.D., loaded back side w/2% KCl water, pumped 1000 gals. My-T-Frac pad, 500 gals. My-T-Frac w/1# per gal. 12-20 U-CAR props, 1000 gals. My-T-Frac w/1# per gal. 8-12 U-CAR props, flushed w/30 bbls. 2% KCl water, 6.6 bbls. short of displacement. Avg. injection rate 4 B/M @ 5000 psig, max. press. 5900, 5 min. 2600, 15 min. 1600, S.I. overnight for gel to break.

Morrow 9085'-95' - Rigged up Halliburton, treated well w/1500 gals. 2% KCl water, 2000 gals. My-T-Frac pad, 1500 gals. My-T-Frac w/500# 12-20 glass beads & 800# 8-12 glass beads. Flushed w/36 bbls. KCl water. Max. press. 7000, avg. injection press. 6800, ISDP 6800. Lacked 1 bbl. having all displacement in when well screened out. Injection rate decreased from 4 1/2 B/M to 2 B/M, 5 min. SIP 5400, 15 min. SIP 4200, 5 hr. SIP - 1945, 17 hr. SIP - 0.

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

SIGNED

*Robert A. Angerwine*

TITLE

Agent

DATE

4-20-71

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

ACCEPTED FOR RECORD PURPOSES

ACTING

District Engineer

\*See Instructions on Reverse Side

Date

APR 21 1971

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.