

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on reverse side)Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla 146 Contract

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 146

9. WELL NO.

23

10. FIELD AND POOL, OR WILDCAT

Gonzales Mesa-Otero Chacra11. SEC. T., R., M., OR BLK. AND
SURVEY OR AREA**NW/4 NW/4 Section 9,****T-25-N, R-5-W**

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. ☐ OIL
WELL ☐ GAS
WELL ☒ OTHER

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

301 Airport Drive, Farmington, New Mexico 874014. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface**870' PNL & 790' PNL, Section 9, T-25N, R-5W**

14. PERMIT NO.

15. ELEVATIONS (Show whether LF, RI, GR, etc.)

6737' Gr.

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)

WELL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Perf & Frac**X**(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.) *

1-10-73: Spotted 500 gallons 15% HCl. Perf Point Lookout 5105-10, 5161-66, 5184-92, 5231-36, 5280-88, 5322-27 with 1 SPF. Sand-water fraced with 33,600 gallons treated water (1% KCl and 10 pounds Gel per 1000 gallons), 30,000 pounds 10-20 sand. Treating pressures: Maximum 2400, minimum 2150, average 2250, AIR 62 BPM. Set a 5-1/2" bridge plug at 5000'.

1-11-73: Perf Cliffhouse 4617-22, 4630-35, 4640-45, with 1 SPF. Spotted 500 gallons 15% HCl and displaced. Sand-water fraced with 23,016 gallons treated water (1% KCl and 10 lbs. Gel per 1000 gallons), 5,000 pounds 20-40, 10,000 pounds 10-20 and 5,000 pounds 8-12 sand. Treating pressures: Maximum 3400, minimum 3050, average 3200. AIR 32 BPM. SI 3 hours. Blow well with supply gas 26 hours and made 1-1/2" stream water. Shut off supply gas and well dead in 4 minutes.

1-13-73: Set a retrievematic packer at 4309' and squeezed perfs 4617-45 with 200 sacks Type "C" cement with 2% CaCl₂. Squeezed with maximum pressure at 3400 psi and held. WOC and retrieved packer. Ran tubing and drilled cement and cleaned out to bridge plug at 5000'. Drilled bridge plug and cleaned out to PBD.

1-16-73: Set a Model "D" packer with expendable plug at 4530'.

(see reverse side)

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

Original Signed by

SIGNED **J. ARNOLD STELL**

TITLE

Area Engineer

DATE

January 25, 1973

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

RECEIVED

JAN 26 1973

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
BUREAU, COLO.

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.

- 1-17-73:** Pressure tested casing and packer to 3400 psi OK. Perforated 3836-41 and 3849-54 with 1 JSPP. Sand-water fraced with 21,388 gallons treated water (1X KCl and 10 pounds Gal per 1000 gallons), 5,000 pounds 20-40, 10,000 pounds 10-20 and 5,000 pounds 8-12 sand. Pad injected at 33 BPM at 3400 psi and spearheaded with 15% HCl. After acid hit formation injection rate 18 BPM at 3400 psi. Injected 20-40 sand at 18 BPM and flushed with 4788 gallons treated water. Rate increased to 25 BPM and finished frac. During flush injection reached 35 BPM. Treating Pressures: Maximum 3400, minimum 3000, average 3300. AIR 25 BPM. Ran tubing and blew well and well made 3" stream water.
- 1-18-73:** Blew well 38 hours with supply gas and made 3-3-1/2" stream water. Set 5-1/2" retrievemantic packer at 3557'. Squeezed Chacra perfs 3836-41 and 3849-54 with 400 sacks Class "C" cement with 2% CaCl2. Squeezed to 3400 psi OK. WOC 4 hours.
- 1-19-73:** Drilled cement 3585-3857'. Tested casing with 1400 psi and bled to 600 in 4 minutes. Set a 5-1/2" packer at 3504'.
- 1-20-73:** Cement squeezed perfs 3836-54 with 75 sacks Class "C" cement with 2% CaCl2. Pressure built to 3400 psi with 56 sacks in perfs and 19 sacks in pipe. WOC 4 hours.
- 1-21-73:** Drilled cement and cleaned out to packer at 4530'. Milled over packer and ran tubing to 5366' and found packer on bottom. Landed the 2-3/8" tubing at 5310'.

U.S. GOVERNMENT
PRINTING OFFICE: 1967 O-885229
47-485

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