

5 - USGS

1 - McHugh

1 - File

Form 9-331  
Dec. 1973Form Approved.  
Budget Bureau No. 42-R1424UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other2. NAME OF OPERATOR  
Jerome P. McHugh3. ADDRESS OF OPERATOR  
P O Box 208, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 830' FNL - 2070' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

## SUBSEQUENT REPORT OF:

☒ Acid/frac

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

See reverse for acid 3-19-81 and frac 4-30-81.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Thomas A. DuganTITLE Agent

DATE

5-11-81

FOR RECORD

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

MAY 15 1981

NMOCC

FARMINGTON DISTRICT

BY [Signature]

5. LEASE

N00-C-14-20-4322

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Allotted

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chaco Plant

9. WELL NO.

18R

10. FIELD OR WILDCAT NAME

P.C. Undesignated

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

Sec 13 T26N R12W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

5990' GR

JEROME P. McHUGH  
Chaco Plant #18R

- 3-19-81 Rigged up the Western Co. Swabbed well down. 150' of water and small amount of gas recovered. Pressure test lines to 3000 psi. Pumped 250 gals of 15% inhibited HCL and displaced w/ 10 bbls of water. 10 balls dropped in acid at approx. 2 balls/bbl. No ball action noted. Breakdown pressure 2500 psi. Average pump pressure 1000 psi at 3½ BPM. ISDP 200 psi, vacuum in one min. Swabbed well; no gas noted, swabbing spent acid.
- 3-20-81 ± 700' of spent acid in hole before swabbing. Swabbed well; amount of gas produced increased after each run; spent acid decreasing. Last run less than 50' of spent acid after ½ hour wait. Well making small amount of gas. Shut in well.
- 4-28-81 Rigged up FWS and Southwest Surveys. Perf 1115' - 1119' and 1122' - 1126', 1SPF, 10 holes, w/ 2-1/8" bi-wire glass jets. Well swabbed down, after 3 runs, gassing between runs, gas increasing while swabbing. 90' of gas, cut water entered in 1/2 hr. Shut well in.
- 4-30-81 Rigged up the Western Co. Well making small amount of gas when well head opened. Pressure test lines to 4000 psi. Foam fraced the Pictured Cliffs and Fruitland Formations at 1214-1220 (6 holes), 1172-1176 (4 holes), 1122-1127 (5 holes) and 1115-11 (5 holes) w/ 70% quality foam.
- Pumped 5000 gals of 70% quality foam pad ahead of 5000 gals of 70% quality foam w/ 1 ppg of 10-20 sand and 5000 gals of 70% quality foam w/ 2 pps of 10-20 sand.
- IR during job 20BPM. Initial breakdown pressure 1300 spi, average treating pressure 1400; max 1700, min 1300. ISDP 800 psi. 15 min. shut-in pressure 450 psi. Dropped 2 balls after 6000# of sand placed; 25 psi ball action noted. Dropped 2 balls after 7000# of sand placed, 50 psi ball action noted. Dropped 2 balls after 8000# of sand placed; 50 psi ball action noted. Dropped 2 balls after 10,000# of sand placed; 50 psi ball action noted. Dropped 2 balls after 12000# of sand placed; 50 psi ball action noted, pressure broke back to 1500 psi, after balls were dropped.
- The following materials were used: ball sealers, 15,000# of 10-20 sand, 85,200 SCF of N<sub>2</sub>, 113.6 BBLS of water, 25 gals of adafoam & 205 HHP.
- Shut in well for 2 hrs and opened to atmosphere on 5/8" choke.