

6 - USGS

1 - McHugh

1 - File

Form Approved.
Budget Bureau No. 42-R1424

UNITED 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.)

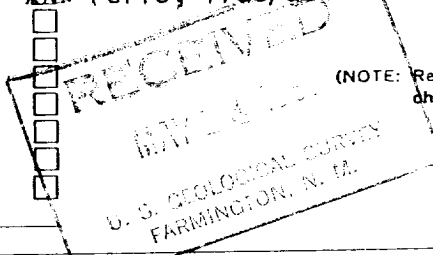
1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Jerome P. McHugh
3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1050' FNL - 1080' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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:

☒ Perfs, frac/acid



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

5. LEASE
N00-C-14-20-3629
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Allotted
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Chaco Plant
9. WELL NO.
#22
10. FIELD OR WILDCAT NAME
P.C. - undesignated
S Gallegos Fruitland
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24 T26N R12W
12. COUNTY OR PARISH
San Juan
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6020' GR

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 attached reports for perfs, 3-18-81; acid 3-19-81; 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. Dugan TITLE Agent DATE 5-11-81

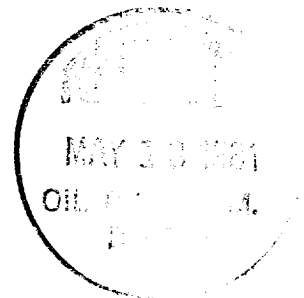
(This space for Federal or State office use)

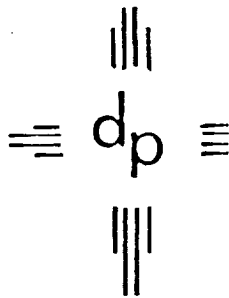
ACCEPTED FOR RECORD

APPROVED BY _____ TITLE _____ DATE MAY 15 1981
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

FARMINGTON DISTRICT
BY E. J. [signature]





dugan production corp.

JEROME P. McHUGH
Chaco Plant #22
1050' FNL - 1080' FEL
Sec 24 T26N R12W
San Juan County, NM

MORNING REPORT

- 2-27-81 MI & RU Morrow Drlg. Co. rig. Spudded 8-3/4" hole at 10:30 a.m. Drilled to 87' GL. Ran 2 jts. 7" OD, 23#, 8 Rd, "B" cond. csg. T.E. 85.37' set at 86' GL Cemented w/ 35 sx class "B" neat. Good cement to surface. POB at 1:00 p.m. 2-26-81.
- 2-28-81 Depth 260' - Down for rig repair
- 3-1-81 Depth 260' - Down for rig repair
- 3-2-81 260' - Down for rig repairs
- 3-3-81 260' - Down for rig repairs
- 3-4-81 560' - drilling 5" hole w/ wtr.
- 3-5-81 960' - drilling 5" hole
- 3-6-81 TD 1300' - Finished Drlg. 5" hole to 1300' TD. Prep to run logs.
- 3-7-81 Conditioned hole. Ran Gamma ray & Density log by Southwest Surveys. Laid down drill pipe and ran 52 jts. 2-7/8" OD, 6.4#, 10 Rd., NEUE tbg. for csg. T.E. 1277.86' set at 1275' GL. Cemented w/ 75 sx 2% Lodense followed by 50 sx neat. (Total slurry 230 cu. ft.). Good returns while cementing. Reciprocated pipe OK while cementing. P.O.B. at 4:30 p.m. 3-6-81. (trace of cement to surface)

DAILY REPORT

- 3-18-81 Rigged up F.W.S. swabbing unit and Southwest Surveys. PBTB 1249' Ran GR/CLL/Neutron log from TD to 600' GR/CLL/Neutron log depths are set back to the open hole log. Swabbed well down to ±1000'. Perf. 1172-1178', 6', 1 SPF, 6 holes w/ 2-1/8" bi-wire glass jets. Swabbed well down in two runs, waited 15 mins and swabbed again; no gas or water entry indicated. Perf. 1052-1056' and 1063-1068', 1 SPF, 9 holes, 16' total, 9' perf. w/ 2-1/8" bi-wire glass jets. Swabbed well dry - no water or gas entry noted.

- 3-19-81 Rigged up the Western Co. Pressure test lines to 3200. Pumped 250 gals of 15% inhibited HCL and displaced w/ 8 bbls. of water. Dropped 8 balls in acid at approx. 1 ball/bbl. Ball action noted after 2 bbls of water displaced; increase of 100 psi. Breakdown pressure 1500 psi, average treating pressure 500 psi at 3.5 BPM. ISDP 300 psi, vacuum in 30 sec. Rigged up F.W.S. swabbing unit. Swabbed well; small amount of gas ahead of spent acid.
- 3-20-81 ±800' of spent acid and formation water. Swabbed well down. Gas increasing. Swabbed 300' of gas-cut formation water after waiting ½ hr.
- 4-28-81 Rigged up FWS and Southwest Surveys. Swabbed well - 500' of water. Cannot keep well swabbed down. 100' of water entry in 10 mins. Small amt. of gas ahead of swab. Set 2-7/8" Baker P-1 Model Wireline Bridge plug at 1140'. Swabbed well. Lost swab in hole. Fished swab out. Well making small mount of gas, no water. 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 Fruitland Formation at 1052-1056 (4 holes) and 1063-1068 (5 holes) w/ 70% quality foam. Pumped 5000 gals of 70% quality foam pad ahead of 1000 gals of 70% quality foam w/ 1 ppg sand. Pressure increased to 3200 psi & nitrogen pump was unable to deliver required rate. Shut down, flowed well and waited for larger Nitrogen pump. ISDP 2100 psi with N₂. Pumped 5000 gals of 70% quality foam pad ahead of 5000 gals of 70% quality foam w/ 1 ppg, and 4500 gals of 70% quality foam at 2 ppg. Initial breakdown pressure 3850. IR 20 BPM. Ave. pressure 3600. Max. 4000 psi. Min 3200 psi. ISDP 2000 psi w/ N₂. 15 min shut in pressure 1550 psi.
- The following materials were used: 15,000# of 10-20 sand, 25,280 SCF of N₂, 180 bbls of water, 32 gals of adafoam, 529 HHP.
- Shut in well for 2 hrs and opened to atmosphere on ½" choke.