

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Santa Fe**
Lease No. **37-077968**
Unit **C. J. Holder**

SUNDRY NOTICES AND REPORTS ON WELLS

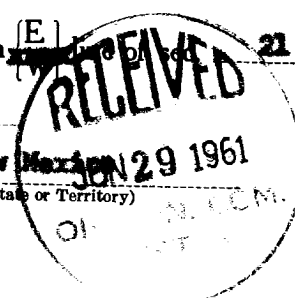
| | | |
|---|---|----------|
| NOTICE OF INTENTION TO DRILL..... | SUBSEQUENT REPORT OF WATER SHUT-OFF 4-1/2" | X |
| NOTICE OF INTENTION TO CHANGE PLANS..... | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... | |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF..... | SUBSEQUENT REPORT OF ALTERING CASING..... | |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... | |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE..... | SUBSEQUENT REPORT OF ABANDONMENT..... | |
| NOTICE OF INTENTION TO PULL OR ALTER CASING..... | SUPPLEMENTARY WELL HISTORY Core | X |
| NOTICE OF INTENTION TO ABANDON WELL..... | | |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

C. J. Holder

Farmington, New Mexico June 26, 19 61

Well No. **15** is located **510** ft. from **[N]** line and **1830** ft. from **[E]** line of **21**
NW/4 NE/4 of Section 21 T-28-N R-13-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Cha Cha Gallup San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)



The elevation of the derrick floor above sea level is **6054** ft. (RDS)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Core No. 1 5630-5645'. Recovered 15' as follows: 8' shale with Bentonite streak at 5632' with vertical fractures throughout; 2' shaly sand; 2' sand with fair porosity and permeability; 3' shaly sand. Oil and gas bleeds with vertical fractures at 5638-5645'.
 Core No. 2 5645-5694'. Recovered 49' as follows: 3' shaly sand; 29' shale; 4' shaly sand; 7' sand with good odor and oil and gas bleeds; 6' shaly sand. Vertical fractures at 5675-5690'.
 Total depth 5802'. Plug back depth 5754'. Set 4-1/2" casing at 5794' with 125 sacks cement containing 6 percent gel and 1-1/2 pounds medium tuf plug per sack, followed with 75 sacks neat cement. Failed to bump plug. Released rotary rig June 23, 1961. Moved in pulling unit. Ran tubing and tagged bottom at 5767'. Tested casing to 3000 psi which hold for 5 minutes then dropped to 750 psi after 15 minutes. Pumped in at 4 barrels per minute, at 1000 psi. Pulled tubing and ran full bore packer and

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Pan American Petroleum Corporation** (see reverse side)

Address **Box 480**
Farmington, New Mexico
Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY
 By **R. M. Bauer, Jr.**
 Title **Senior Petroleum Engineer**

tested below packer and pumped into formation at 6 barrels per minute at 2000 psi. Tested above packer to 3000 psi, which held with no indication of pressure drop. Reassembled below packer with 25 sacks cement. Maximum pressure 1100 psi. After displacing 10 sacks below packer reversed and excess cement and pulled tubing and packer. New tubing with 3-8/8" psi. Tested casing with 3000 psi, which held with no indication of pressure. Top cement at 575%.