

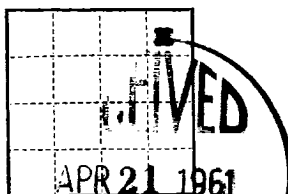
(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency .....

Navajo Tribal .....

Allottee .....

Lease No. **14-20-603-2178**

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<b>9-5/8" &amp; 4 1/2" x</b>
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 REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<b>Core results</b>	<b>I</b>

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

Navajo Tribal "H"

Farmington, New Mexico April 18, 1961

Well No. **2** is located **810** ft. from **[N]** line and **660** ft. from **[E]** line of sec. **24****NE 1/4, NE 1/4 of Section 24 T-29-N R-14-W N.M.P.M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)**Totah Gallup**  
(Field)**San Juan**  
(County or Subdivision)**New Mexico**  
(State or Territory)The elevation of the derrick floor above sea level is **5390** ft. (RDB)

## 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)

Drilled 12-1/4" hole March 26, 1961, and drilled to 210'. Set 8-5/8" casing at 210' with 180 sacks cement containing 2 percent Calcium Chloride. Circulated 55 sacks of cement. After waiting on cement, tested 8-5/8" casing with 500 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 210' and resumed drilling operations.

Core No. 1 — 5103-5169' Gallup — Recovered 60' as follows: 2' shale, vertically fractures, 17' shale with occasional sand partings, vertical fracture 5121-5122', 1-1/2' sandy shale, 11' sand, medium grained, good porosity, and permeability, with good odor, vertical fracture 5125-5126', and 5134-5135', bleeding oil and gas 5126-5134', 2-1/2' sandy shale with vertical fracture, 26' Black shale with vertical fracture.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.  
(See reverse side)Company **Pan American Petroleum Corporation**Address **Box 480****Farmington, New Mexico**Attn: **L. O. Speer, Jr.**

ORIGINAL SIGNED BY

**R. M. Bauer, Jr.**

By .....

Title **Senior Petroleum Engineer**

Total depth 5216'. Plug back depth 5175'. -- Run Electric Log. and 4-1/2" casing at 5211' with 125 sacks 6 percent gel cement containing 1-1/2 pounds cut plug per sack, followed by 75 sacks most cement. Replaced plug with 300 gallons 15 percent RMA and oil. Tested casing with 3000 psi for 15 minutes with no indication of pressure drop. Released the April 8, 1961.