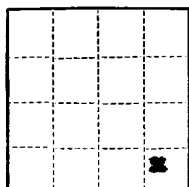


(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Santa Fe**  
Lease No. **SF 078902**  
Unit **Gallegos Canyon Unit**



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<b>8-5/8"</b> <b>4-1/2"</b>	<b>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 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.....	<b>Frac</b>	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL.....			

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

**Gallegos Canyon Unit**

**Farmington, New Mexico October 23, 1963**

Well No. **147** is located **900** ft. from **XXS** line and **990** ft. from **E** line of sec. **4**

**SE/4 SE/4 Section 4**  
(1/4 Sec. and Sec. No.)

**T-27-N**  
(Twp.)

**R-12-W**  
(Range)

**N.M.P.M.**  
(Meridian)

**Basin Dakota**  
(Field)

**San Juan**  
(County or Subdivision)

**New Mexico**  
(State or Territory)

The elevation of the derrick floor above sea level is **5796** ft.

DETAILS OF WORK

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

The above well was spudded on September 24, 1963, and drilled to a depth of 357'. 8-5/8" casing was set at that depth with 225 sacks of cement. Cement was circulated to surface. After waiting on cement tested casing with 500 psi. Test ok. Reduced hole to 7-7/8" and resumed drilling.

Well was drilled to a total depth of 6149' and 4-1/2" casing was set at that depth. Two stage tool set at 2126'. First stage cemented with 800 sacks cement. Second stage cemented with 350 sacks cement. Cement circulated to surface. After waiting on cement tested casing with 3000 psi. Test ok.

Perforated 6068-76', 6009-14', 6032-41' with 2 shots per foot. Sand-water fracked these perforations with 72,550 gallons water containing 4 pounds FR-4 per 1000 gallons, 1% Calcium Chloride and 60,000 pounds sand. Pressures were: Breakdown (See Reverse side)

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

Company **Pan American Petroleum Corporation**

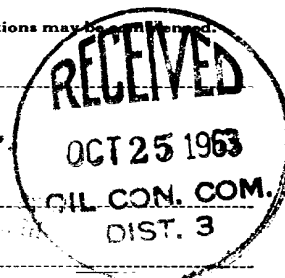
Address **P. O. Box 480**

**Farmington, New Mexico**

**Fred L. Nabors**  
District Engineer

By

Title



1500 psi, maximum crushing 3100 psi, minimum crushing 3000 psi. Average  
injection rate 30 mld. Dropped 20 psi earlier midway through test.

Testing operations were begun.

The 2-3/8" tubing landed at 5961'.