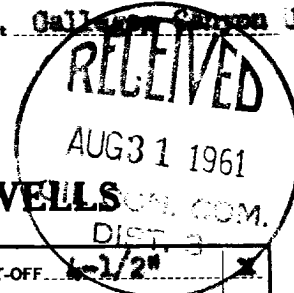


(SUBMIT IN TRIPLICATE)

X		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF-377966
Unit Gallegos Canyon Unit



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	<u>4-1/2"</u>	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	<u>Frac, core</u>	X
NOTICE OF INTENTION TO ABANDON WELL				

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

Gallegos Canyon Unit

Farmington, New Mexico August 28, 19 61

Well No. 103 is located 1250 ft. from [N] line and 1830 ft. from [W] line of sec. 23SE 1/4 NW 1/4 of Section 23
(1/4 Sec. and Sec. No.)T-26-N
(Twp.)R-13-W
(Range)N.M.P.M.
(Meridian)Cha Cha Gallup
(Field)San Juan
(County or Subdivision)New Mexico
(State or Territory)The elevation of the derrick floor above sea level is 6071 ft. (HDB)

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 Gallup 5690-5714'. Recovered 20' as follows: 20' shale highly broken.
Core No. 2 5714-5758' Gallup. Recovered 44' as follows: 2' shale to sandy shale; 1' shaly sand; 8' sand, fair to good porosity and permeability, occasional shale nodules 5717-5719', vertically fractured, good odor and bleed; 3' tight shaly sand; 30' shale with occasional thin sand laminations.
Core No. 3 5758-5793' Gallup. Recovered 35' as follows: 12' shale; 3' sandy shale; 5' very shaly sand, tight; 14' shaly sand, vertically fractured, fair odor and bleed; 1' shale.

Set 4-1/2" casing at 5878' with 2-stage tool at 1986'. Cemented first stage with 125 sacks 6 percent gel containing 1-1/2 pounds Tuf Plug per sack followed by 75 sacks neat cement. Cemented second stage with 150 sacks 6 percent gel cement. Tested 4-1/2" casing with 3000 psi for both stages, which held with no indication

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 CorporationAddress P. O. Box 480Farmington, New MexicoAttn: L. C. Speer, Jr.ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By _____

Title Senior Petroleum Engineer

of pressure drop.

Run Gamma Ray Correlation log. Perforated lower casing with 4 shots per foot 4779-4796'. Sand oil fracked lower casing with 3000 gallons of oil spreaded containing 50 pounds per 1000 gallons Admonte Mark II and 20,661 gallons oil containing 50 pounds per 1000 gallons Admonte Mark II and 20,000 pounds sand. Pressures were: breakdown 1750 psi, maximum treating 2900 psi, minimum treating 2500 psi, and average treating 2700 psi. Average injection rate 30 barrels per minute. Set Baker retirable bridge plug at 4765'.

Perforated upper casing with 6 shots per foot 5721-5728'. Sand oil fracked with 3000 gallons oil spreaded containing 50 pounds per 1000 gallons Admonte Mark II and 22,648 gallons oil containing 50 pounds per 1000 gallons Admonte Mark II and 20,000 pounds sand. Pressures were: breakdown pressure 0 psi; maximum treating 3200 psi, minimum treating 2950 psi; and average treating 3000 psi. Average injection rate 30 barrels per minute.

Potential test to be reported on final log.