

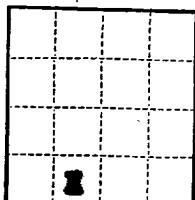
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Alamogordo Agency

Allottee _____

Lease No. Alamogordo Contract 140

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
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	

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

Alamogordo Contract 140Farmington, New Mexico October 22, 1958Well No. 20 is located 600 ft. from S line and 1700 ft. from W line of sec. 24SW 1/4 of Section 24

(1/4 Sec. and Sec. No.)

T-23-N

(Twp.)

R-5-W

(Range)

N.M.P.M.

(Meridian)

Undesignated Casing

(Field)

Rio Arriba

(County or Subdivision)

New Mexico

(State or Territory)

The elevation of the derrick floor above sea level is 7023.

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)

Alamogordo Contract 140 Well No. 20. On October 3, 1958, perforated with four shots per foot 7710 - 7730. Failed to breakdown formation with 3000 pounds. Ran 20000 LBS packer on 2" tubing and cut at 7645'. Pressured up and broke formation with 4000#. Displaced acid into formation at 5.5 barrels per minute with 4000#. Shut in pressure 1800# after 5 minutes 1800#. Failed packer. Attempted to pump down casing but could only obtain 2.5 barrels per minute injection rate at 2000#. Re-perforated 7710-7730 with four shots per foot. Ran packer and cut at 7647'. Acidized with 900 gallons HCl. Maximum treating pressure 4000#, minimum 1800# at 4 barrels per minute. Still unable to obtain sufficient injection rate down casing. Failed packer. Re-perforated 7720, 7725, 7728, 7729 with Union formation free tool. Pumped down casing at 4 barrels per minute with 2000#. Injection rate too small for water and sand free. Picked up 3-1/2" drill pipe with full bore packer. (See reverse side.)

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 CorporationAddress Box 407Farmington, New Mexico

ORIGINAL SIGNED BY

D. J. SCOTT

By _____

Title Field Clerk

Set packer at 9429'. Sand-water fracked with 21,200 gallons water and 20,000 pounds sand. Maximum treating pressure 3900#, average injection rate 20 barrels per minute. The Dakota formation proved to be non-productive. Set cast iron cement retainer at 7650 and squeezed off Dakota perforations 7710 - 7730' with 50 sacks cement. Spotted 500 gallons mud acid across Gilling interval. Tested casing to 3000# which held ok. Perforated Gilling with 2 shots per foot 6400-32, 6440-40, 6480-6700, 6700-24. Sand-oil fracked with 60,000 gallons oil and 60,000 pounds sand. Breakdown pressure 1800 pounds. Treating pressure 2200-2600#, average injection rate 40 barrels per minute. Injected total 60 perforated ball sealers in four equal stages for selective treatment. Two inch tubing was landed at 6617'. Well is currently being tested.

