Form 9-331a
(Feb. 1951)

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Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF 078905
Unit V. E. McManus

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 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	X
NOTICE OF INTENTION TO ABANDON WELL			

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

V. E. McManus Farmington, New Mexico March 9 1960

Well No. 1 is located 1065 ft. from {N/S} line and 890 ft. from {E/W} line of sec. 22

SW/4 of Section 22 (¼ Sec. and Sec. No.) T-28-N (Twp.) R-12-W (Range) N.M.P.M. (Meridian)

Undesignated Gallup and West Kutz Dakota (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5666 ft.

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)

Moved in completion unit on January 11, 1900 and killed well. Ran 2-7/8" drill pipe with Baker Model C retrievable bridge plug and full bore cementer. Set bridge plug at 5990' and packer at 5465'. Tested 7" casing below packer with 2000 psi for 30 minutes which held ok. Reset bridge plug at 5171' and packer at 5166'. Tested casing below packer with 2000 psi for 30 minutes, held ok. Attempted to set bridge plug at 5166' and failed. Set bridge plug at 5216' and packer at 5112'. Tested below packer with 2000 psi which leaked off. Re-ran bridge plug and packer and set bridge plug at 5166' and packer at 5112'. Pressure up and leaked off. Test showed 7" casing in good condition between Dakota and Gallup but leaking 5112-5166'. Spotted 500 gallons 15 percent acid followed by 10 barrels water and squeezed perforations at 5150 with 25 sacks cement. Drilled cement 5047-5108. Circulated 1-1/2 hours and tested squeezed perforations at 5150 with 2000 psi. Ran Baker full bore cementer and set at 5047'. Resqueezed perforations 5150 with 50 sacks cement and tested with 2500 psi which held ok. Drilled bridge plug and cleaned out to plug back depth at 6103. Drilled cement

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

Company Pan American Petroleum Corporation

Address P. O. Box 487

Farmington, New Mexico

Attn: L. G. Speer, Jr.

By

Title Area Engineer

GPO 862040

plug 6103-6188. Ran caliper log through open hole section 5959-6188 and found maximum hole diameter 12" with 9" diameter 6070-6080. Ran 5" liner on drill pipe with Baash Ross mend seal type casing hanger and set 5710-6181 with 75 sacks neat cement with 6-1/2 pounds. Medium tuf plug per sack. Tested top of liner with 2500 psi which held ok. Spotted 250 gallons MCA. Perforated Dakota with 6 shots per foot 6039-6045, 6076-6080. Ran Baker full bore cementer and set at 5760'. Attempted to sand water frac Dakota. Pumped 50 barrels water at 1.1 barrel per minute at 4000 psi. Spotted 500 gallons 15 percent MCA. Sand water fracked with 10,500 gallons water and 8000 pounds sand. Minimum pressure 3400 psi, average pressure 3700 psi, maximum pressure 4000 psi. Injection rate 8.6 barrels per minute. Flushed with 2100 gallons at 4000 psi. Pumped 6000 gallons water after flush in attempt to wash out sand. Reacidized with 500 gallons MCA. Attempted to refrac using 16,700 gallons water and 8000 pounds of sand. Minimum pressure 3700 psi. Maximum pressure 4500 psi. Injection rate 6 barrels per minute. Sanded out. Flushed with 2100 gallons water. Set packer 5786' and tubing at 6044'. After 16 hours flowed 805 MCFPD. Pulled packer. Ran Baker Model D Production Packer and set at 5768' with expendable plug. Baker Model "C" set at 5503'. Tested Production Packer with 2500 psi which held ok. Spotted 500 gallons 15 percent MCA. Perforated Gallup 5416-21 with 6 shots per foot. Sand oil fracked Gallup with 43,350 gallons oil and 40,000 pounds sand. Maximum treating pressure 2450 psi. Minimum pressure 2200 psi. Average injection rate 52 barrels per minute. Set Dakota tubing at 5768' with Baker Model B seal assembly. Set Gallup tubing at 5392'. Installed pumping equipment to recover load oil and test well.