

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SW-976772
Unit Rosa Unit

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
NOTICE OF INTENTION TO ABANDON WELL	

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

Rosa Unit

Farmington, New Mexico December 9, 1959

Well No. 36-11 is located 1890 ft. from N line and 790 ft. from E line of sec. 11

NE 1/4 of Section 11
(1/4 Sec. and Sec. No.)

T-31-W
(Twp.)

R-6-W
(Range)

N.M.P.M.
(Meridian)

Undesignated Dakota
(Field)

Rio Arriba
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 6437 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)

Total depth 8148, plug back depth 8117. Halliburton abrasijet cut 5" liner at 8101'. Spotted 400 gallons MCA at 8101'. Set Baker fall bore packer at 7985'. Sand water fracked with 20,000 gallons water and 20,000 pounds sand below packer. Breakdown pressure 5000 psi, treating pressure at start 3200 pounds increased to 4300 pounds. Pumped in 13,528 gallons water and 10,000 pounds sand. Pressure increased to 4800 pounds. Sanded off. Injection rate 13 barrels per minute. Started sand at 1/2 pound per gallon. Pumped 5 minutes, increased to 3/4 pounds per gallon. Pulled packer. Set bridge plug at 8075'. Made abrasijet cut at 8020' with 5000 pounds. Sand with 3900 - 3800 psi. Circulated sand and cleaned hole. Attempted frac. Unable to breakdown using 5000 psi. Found sand at 8009'. Cleaned out to 8075'. Abrasijet 4 holes at 8018'. Cleaned out. Set packer at 7984'. Sand water fracked with 50,000 gallons water and 25,000 pounds sand. Formation broke at 4050 to 3600 pounds. Maximum treating pressure (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 Corporation

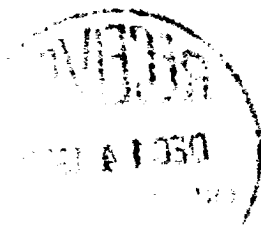
Address Box 487

Farmington, New Mexico

Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY
By R. M. Bauer, Jr.

Title Area Engineer



Pacific Northwest Pipeline Corporation assumed operation December 4, 1959.

Elmwood Reservoir Field Gas Well. Preliminary test December 4, 1959, 1948 MCFD. Total depth 6148', plug back depth 7956'. Completed December 4, 1959 as shut in free. Run 18' joints of 1-1/4 tubing and landed at 5817'. Released 148 12-3-59. Injected 160 rubber ball sealers in 8 batches at 5 minute intervals during 1900, average treating pressure 1000 psi, average injection rate 63 barrels per minute. Breakdown pressure 900 - 800 psi. Minimum treating pressure 50,000 pounds sand. Sand-water fracked with 100,000 gallons water and 5896 with 2 shots per foot. 5896-5640, 5690-5696, 5722-5744, 5760-5766, 5770-5786, 5802-5816, 5828-5836. Performed Reservoir 5620- out of retainer and reversed out 15 sacks at 7956'. Initial pressure 3700 psi and final 5000 psi. Failed 1/4 of 15 hr-4 retainer. Squeezed Dakota with 50 sacks regular cement containing packer. Did not obtain commercial production from Dakota. Run drillable cement barrels per minute. Well flowed 24 hours with gas too small to measure. Failed 5150 pounds. Minimum treating pressure 2600 pounds. Average injection rate 10