

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Santa Fe**
Lease No. **NM-04419**
Unit **Northeast Hogback 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	Frac X
NOTICE OF INTENTION TO ABANDON WELL		

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

Northeast Hogback Unit
Water well

Farmington, New Mexico **November 16**, 19**61**

Well No. **1** is located **2004** ft. from **N** line and **2580** ft. from **E** line of sec. **10**

NE/4 SW/4 of Section 10 **T-30-N** **R-16-W** **N.M.P.M.**

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

(Twp.)

(Range)

(Meridian)

Water Supply Source

San Juan

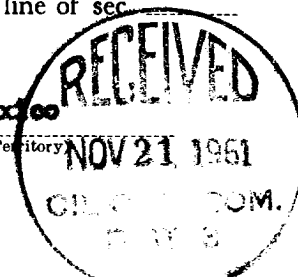
New Mexico

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is **5492** 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)

Perforated Morrison with 2 shots per foot 2312-2324', 2372-2378', 2388-2400', 2460-2470', 2493-2510', 2522-2533', 2561-2577', 2599-2627', 2660-2670', 2686-2704', 2722-2734', 2746-2760', 2774-2790', 2830-2838', 2852-2868', 2890-2900', and 2923-2933'. Ran 2-7/8" tubing and checked sand fillup at 2942'. Spotted 3,000 gallons of 15 percent MCA over perforations and left acid set 14 hours. Displaced acid into formation and reversed out until water clean. Pulled tubing and water fracked with 72,000 gallons of water and no sand. No breakdown pressure, average treating pressure 850 psi. Average injection rate 63 barrels per minute. Instantaneous shut-in pressure 800 psi, 5 minute shut-in pressure 500 psi and 10 minute shut-in pressure 350 psi. Released pressure and well flowed approximately 200 barrels of water in 2 hours and died. Ran Reda pump on tubing and landed 2-7/8" tubing at 893'. Started pump and released unit September 16, 1961.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations (see reverse side)

Company **Pan American Petroleum Corporation**

Address **P. O. Box 480**

Farmington, New Mexico

Attn: **L. O. Speer, Jr.**

ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By

Title **Senior Petroleum Engineer**

Total depth 2990', plug back depth 2959'. Completed as Harrison water supply well October 14, 1961. On October 13, 1961 pumped 3400 barrels of water per day, stabilized rate with fluid level at 528'.