



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **New Mexico**Lease No. **NM 04407-A**Unit **Northeast Hogback Unit**
Communication No. **6674**

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)

Northeast Hogback Unit**Farmington, New Mexico December 5, 1960**Well No. **4** is located **1850** ft. from **[S]** line and **1850** ft. from **[E]** line of sec. **14****NW/4 SE/4 Section 14**
(1/4 Sec. and Sec. No.)**T-30-N**
(Twp.)**R-16-W**
(Range)**N.M.P.M.**
(Meridian)**Horseshoe Gallup**
(Field)**San Juan**

(County or Subdivision)

New Mexico

(State or Territory)

The elevation of the derrick floor above sea level is **5377** ft. (RDB)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

Plug back depth 3662'. Ran correlation log. Perforated lower Gallup with 6 shots per foot 3591-97. Sand oil fracked with 5,040 gallons oil and 5,000 pounds sand. Breakdown pressure 2700 psi, treating pressure 3400 psi to 2900 psi, average injection rate 20 barrels per minute. Flashed in middle of job due to high pressure. Stabilized pressure in 4 hours, 100 psi. Set bridge plug at 3560'. Tested bridge plug with 3000 psi for 5 minutes, which held with no indication of pressure drop. Dropped junk basket. Perforated Upper Gallup with 4 shots per foot 3510-16, and 3524-29. Retrieved junk basket. Sand oil fracked with 33,100 gallons oil and 30,000 pounds sand. Breakdown pressure 2900 to 1900 psi, average treating pressure 2100 psi, average injection rate 43 barrels per minute. 5-minute shut in 950 psi, 30 minute shut in 800 psi, pulled bridge plug. Landed 2-3/8" tubing at 3630'. Ran pump and rods and released unit December 4, 1960. Currently recovering lead oil used during Gallup completion operations.

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 480****Farmington, New Mexico**Attn: **L. O. Speer, Jr.**ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By

Title **Area Engineer**