

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Jicarilla Tribal
Allottee Jicarilla Tribal
Lease No. Contract 146

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SUNDRY NOTICES AND REPORTS ON WELLS

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| NOTICE OF INTENTION TO DRILL | SUBSEQUENT REPORT OF WATER SHUT-OFF <u>8-5/8" & 4-1/2"</u> | X |
| 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 <u>Free</u> | X |
| NOTICE OF INTENTION TO ABANDON WELL | | |

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

Jicarilla Contract 146

Farmington, New Mexico June 23, 1961

Well No. 12 is located 1510 ft. from S line and 1734 ft. from W line of sec. 4
NE/4 SW/4 of Section 4 T-25-N R-5-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Otera Chacra Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6660 ft. (RMB)

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)

Jicarilla Contract 146 Well No. 12 -- Spudded 12-1/4" hole June 11, 1961, and drilled to 266'. Set 8-5/8" casing at 266' with 225 sacks cement containing 2 percent Calcium Chloride. Circulated cement. After waiting on cement, tested 8-5/8" casing for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 266' and resumed drilling operations. Set 4-1/2" casing at 3873' with 200 sacks cement containing 6 percent gel and 1-1/2 pounds medium tuf plug per sack and 100 sacks neat cement. After waiting on cement, tested 4-1/2" casing with 3000 pounds pressure for 30 minutes, which held with no indication of pressure drop.

Perforated with 6 shots per foot 3778-3782', 3786-3792'. Fracked these perforations with 30,000 gallons water containing 1 percent Calcium Chloride and 30,000 pounds sand. Pressures were: Breakdown 1900; maximum treating

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 (see reverse)
Address Box 480
Farmington, New Mexico
Attn: L. O. Spear, Jr.
By R. M. Bauer, Jr.
Title Senior Petroleum Engineer

25001 minimum treating 25001. Average injection rate 11 barrels per minute.