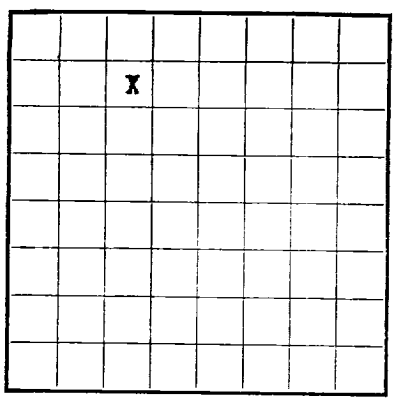
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER NM 01140
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PAN AMERICAN PETROLEUM CORPORATION Address Box 487, Farmington, New Mexico

Lessor or Tract Fred Phillips "E" Field Tapacito-Pictured Cliffs State New Mexico

Well No. 1 Sec. 10 T. 25N R. 3W Meridian N.M.P.M. County Rio Arriba

Location 990 ft. {N. / S.} of N Line and 1650 {E. / W.} of W Line of Section 10 Elevation 7193 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

ORIGINAL

Signed R. M. Ba

Date August 20, 1958 Title Field Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling July 25, 19 58 Finished drilling July 30, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3703 to 3728 (G) No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to

No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	22.7	Slip Joint	Ameco	205	Guide				Surface
5-1/2"	14	8RT	National	3804	Guide				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	213'	160 Sacks Halliburton 1 plug.			
5-1/2"	3784	160 Sacks Halliburton 2 plug			

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 3785 feet, and from feet to feet

DATES

Completed as shut in Tapacito-Pictured Cliffs Field Gas Well August 11, 19 58 Put to producing Shut in for pipeline connection August 11, 1958, 19

Preliminary test 5496 MCFD pitot tube measurement

The production for the first 24 hours was barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1030 (Shut in casing pressure 8 days)

EMPLOYEES

Cotton Gipson, Driller T. J. Buck, Driller

J. D. Coleman, Driller D. Davis, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3450	3450	Undifferentiated sand & shales.
3450	3698	248	Kirtland-Fruitland
3698	3730	32	Pictured Cliffs sand
3730	3785	55	Lewis shale

FOLD | MARK

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Fred Phillips "E" Well No. 1 was spudded on July 25, 1958, and on July 26, 1958, 8-5/8" casing was set at 213' with 160 sacks of cement. Circulated out 50 sacks. After waiting on cement, casing and water shut-off were tested with 400 pounds pressure for thirty minutes, which held with no drop in pressure. Resumed drilling operations.

5-1/2" casing was set at 3783' with 85 sacks of 4% gel cement, followed by 75 sacks neat cement. Top cement by temperature survey 3400'. Casing and water shut off were tested with 3000 pounds pressure for thirty minutes (special test) which held with no drop in pressure.

Perforated four shots per feet 3709-3728'. Spotted 200 gallons 15% acid. Sand-water fracked with 25,000 gallons water and 30,000 pounds sand. Breakdown pressure 1425#, treating pressure 1400#, injection rate 60.6 barrels per minute. 2" tubing landed at 3695'. Completed as shut in Tapacito Pictured Cliffs Field development gas well August 11, 1958. Preliminary test 5496 MCFD Pitot Tube Measurement.