Form 9-330

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

U. S. LAND OFFICE Jicarilla Apache
SERIAL NUMBER Jicarilla Contract 155
LEASE OR PERMIT TO PROSPECT

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

# LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Jicarilla Contract 155 Field South Blanco-Pictured Cliffs State New Mexico
Well No. 10 Sec. 30 T. 26N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 1000 ft. {N. / Sx} of S Line and 1090 ft. {E. / Wx} of W Line of Section 30 Elevation 6595 (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 BY
Signed R. M. Bauer, Jr.
Date December 18, 1958 Title Field Engineer

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

Commenced drilling November 23, 19 58 Finished drilling November 29, 19 58

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2923 to 2932 (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 | Armco | 204 | Guide | | | | Surface |
| 4-1/2" | 9.5 | 8 RT | National | 2982 | 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" | 211 | 160 sacks cement | Halliburton No. 2 Plug | | |
| 4-1/2" | 2974 | 250 sacks cement | Halliburton No. 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 0 feet to 2974 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

## DATES

Completed as shut in South Blanco-Pictured Cliffs Field Development Gas Well, December 7, 58 Put to producing Shut in for pipeline connection December 7, 19 58

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 3,008,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 960 Shut in casing pressure 10 days.

## EMPLOYEES

F. J. Buck, Driller John Wright, Driller
E. E. Estes, Driller Jackie White, Driller

## FORMATION RECORD

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|
| 0 | 2470 | 2470 | Surface sand & shale. |
| 2470 | 2703 | 232 | Kirtland sands & shale. |
| 2702 | 2919 | 217 | Fruitland Sands, shales & coals. |
| 2919 | 2974 | 55 | Pictured Cliffs |
| | | | (Tops from E log) |

FOLD MARK



16—43094-4

## FORMATION RECORD—Continued

| FROM— | TO— | TOTAL FEET | FORMATION |
|---|---|---|---|
| | | | |

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

## 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.

Jicarilla Contract 155 Well No. 10 was spudded on November 23, 1958, and on November 24, 1958, 8-5/8" casing was set at 211' with 160 sacks of cement. 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. Reduced hole to 7-7/8" at 211' and resumed drilling operations.

Four and one-half inch casing was set at 2974' with 200 sacks 4% gel cement followed by 50 sacks neat cement. Casing was tested with 3000 pounds pressure which held with no drop in pressure.

Swabbed casing dry and spotted 200 gallons of 15% mud clean out acid. Tested casing with 3000 pounds pressure for thirty minutes, which held with no drop in pressure. Perforated 2923-2932 with four shots per foot. Sand-water fraced with 15,000 gallons water and 20,000 pounds sand. Formation broke at 3000 pounds, treated with 1700 pounds, average injection rate 49 barrels per minute. Two inch tubing was set at 2923'. Completed as shut-in South Blanco-Pictured Cliffs field development gas well December 7, 1958. Preliminary test after blowing five hours, 3008 MCFPD, Pitot Tube Measurement. Released rig on December 7, 1958.

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