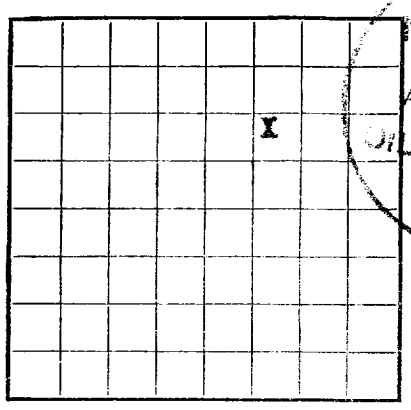
Form 9-330

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

U. S. LAND OFFICE Jicarilla Apache 102
SERIAL NUMBER
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 P. O. Box 480, Farmington, New Mexico
Lessor or Tract Jicarilla Apache 102 Field Basin Dakota State New Mexico
Well No. 9 Sec. 4 T. 26N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 1600 ft. {N.} of N Line and 1800 ft. {W.} of E Line of Section 4 Elevation 7244
(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.

Signed [signature]

Date July 29, 1963 Title Petroleum Engineer

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

Commenced drilling June 16, 1963 Finished drilling June 30, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 8193 to 8210 (G) No. 4, from to
No. 2, from 8330 to 8345 (G) 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
10-3/4	32.75	8RT	[illegible]	195	Guide				Surface
7-5/8	26.40	8RT	J-55	4279	Guide				Intermediate
4-1/2	10.5	8RT	J-55	8462	Guide				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	211	140	BJ - 1 Plug		
7-5/8	4256	100	BJ - 2 Plug		
4-1/2	841	500	BJ - 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 8416 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

July 16, 1963 Put to producing Completed as Shut in Gas Well July 16, 1963

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

If gas well, MCF per 24 hours 2326 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 575 (CPP)

EMPLOYEES

W. E. Stotzinger, Driller J. J. Clary, Driller
J. E. Peacock, Driller W. A. Pickett, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3995	3995	Surface sand and shale
3995	4090	95	Pictured Cliffs
4090	4955	865	Lewis Shale
4955	6255	1300	Mesaverde sand and shale
6255	7363	1108	Mancos shale
7363	7750	387	Gallup
7750	8111	361	Mancos shale
8111	8192	81	Greenhorn shale
8192	8330	138	Graneros Dakota
8330	8416	86	Main Dakota

[OVER]

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.

16—45094-2 U. S. GOVERNMENT PRINTING OFFICE