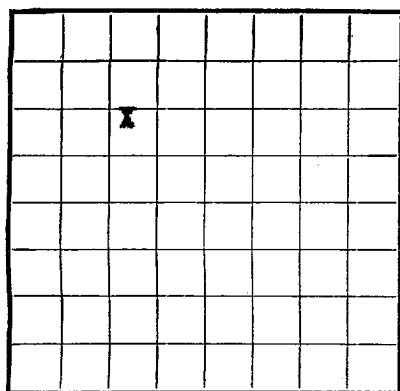


U. S. LAND OFFICE **Navajo Tribal**
SERIAL NUMBER **14-20-603-595**
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 187, Farmington, New Mexico**
Lessor or Tract **Navajo Tribal** Field **Wildcat** State **New Mexico**
Well No. **1** Sec. **10** T. **10N** R. **35W** Meridian **H. & P. M.** County **San Juan**
Location **1650** ft. **N** of **N** Line and **1650** ft. **E** of **W** Line of **Section 10** Elevation **4961**
(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 **L. O. Speed Jr.**
Date **October 18, 1957** Title **Field Superintendent**

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

Commenced drilling **June 27**, 19**57** Finished drilling **August 30**, 19**57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ 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 **1850** to **1900** 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		Purpose
							From—	To—	
13-3/8	36.7	511	Joint-Arrow	525	Guide				Surface
9-5/8	27.5	511	Joint-Arrow	4108	Guide	3193			Intermediate
5-1/2	14	511	National	27100	C&G	3193			Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	533	650 sacks	Halliburton 2 Plug		
9-5/8	4092	300 sacks	Halliburton 2 Plug		
5-1/2	7070	460 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 **0** feet to **7750** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Well was plugged & abandoned **September 26**, 19**57** Put to producing _____, 19____
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. _____

EMPLOYEES

A. B. Clemman _____, Driller **T. H. Darnell** _____, Driller
R. E. Luster _____, Driller **C. C. Bayten** _____, Driller

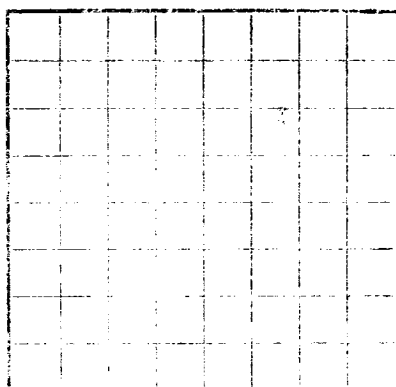
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	834	834	Surface sands & shales & Greenhorn
834	1034	200	Dakota
1034	2140	1106	Morrison
2140	2805	665	Wingate
2805	3725	920	Chinle
3725	4025	300	De Chelly
4025	5460	1435	Cutler
5460	6242	782	Hermosa
6242	7252	1010	Paradox
7252	7390	138	Molaa
7390	7668	278	Miss. (Leadville)
7668	7750	82	Devonian

U.S. LAND OFFICE
BUREAU NUMBER
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

RECEIVED
JAN 10 1968

[illegible]

100-443887-1000

the government on this point is not at all good. It is not at all good to have the government on this point is not at all good.

Encountered 3" to 4" water flow 1950 to 1900, during drilling operations. Water sample analyzed 1968 (1.04 ppm Hg).

OIL OR GAS SANDS OR ZONES

tested with 1500 pounds pressure for thirty minutes with no drop in pressure.

5-1/2" casing was set at 7070' with 360 sacks of cement, followed by 100 sacks of cement, grouting and water shut-off was

will not drop in pressure.

9-5/8" casing was set at 4092', with 200 yards of cement, and after waiting 24 hours, casing and water shut off and tested with 1200 pounds pressure for thirty minutes.

and water shut-off were tested with 500 pounds pressure for 15 minutes with no drop in pressure.

• **INVESTMENT**

[illegible]

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 the 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 dings or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

HISTORY OF OIL OR GAS WELL

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

[illegible]

MAIL: 3105

FORMATION RECORD—Continued