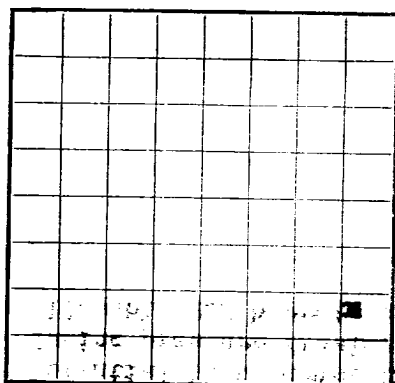


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF-080912**
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 480, Farmington, New Mexico**
Lessor or Tract **Wood Oil Unit** Field **Cha Cha Gallup** State **New Mexico**
Well No. **1** Sec. **17** T. **29N** R. **14W** Meridian **N.M.P.M.** County **San Juan**
Location **990** ft. **S.** of **N.** Line and **660** ft. **E.** of **W.** Line of **Section 17** Elevation **5174** (RDB)
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

R. M. Bauer, Jr.

Date **August 30, 1961**Title **Senior Petroleum Engineer**

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

Commenced drilling **July 24, 1961** Finished drilling **August 5, 1961**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **Notched** **4692** No. 4, from **4692**
No. 2, from **4639** to **4646** No. 5, from **4646**
No. 3, from **4646** to **4646** No. 6, from **4646** to **4646**

IMPORTANT WATER SANDS

No. 1, from **4646** to **4646** No. 3, from **4646** to **4646**
No. 2, from **4646** to **4646** No. 4, from **4646** to **4646**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	22.7#	31	STAC	200'	Guide				Surface
4-1/2"	9.3#	J-55	STAC	4785'	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"	212'	180	Halliburton	1 plug.	
4-1/2"	4773'	200	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 **4785** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as **Cha Cha Gallup** Flowing oil well
August 12, 1961

DATES

First new oil Put to producing **August 10, 1961**

The production for the first 24 hours was **246** barrels of fluid of which **99.8%** was oil; _____ % emulsion; _____ % water; and **.2%** sediment.

Gravity, °Bé. **41.3 API**

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

Rock pressure, lbs. per sq. in. **1070 psi (CPF)**

EMPLOYEES

Buck Varner _____, Driller **K. R. Runyon** _____, Driller
M. W. McDonald _____, Driller **Pete Estes** _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	200	200	Surface sands and shales.
200	505	305	Fruitland and Farmington sands and shales.
505	870	365	Pictured cliffs sands and shales.
870	1490	620	Lewis shale.
1490	1537	47	Cliffhouse sands and shales.
1537	3340	1803	Menefee sands and shales.
3340	4272	932	Mancos shale.
4272	4630	358	Gallup sands and shales.
4630	4785	155	Gallup pay sands and shales.
(Top from "E" log)			

UNITED STATES

treatment 2800 psi. Average injection rate 28.0.

100-446697

hole to 7-7/8" at 274'. Resumed drilling operations. IMPORTANT WATER SANDS.

Date	Where	Threats per Year	Males	Amount	Kind of ship	Crew and pulled from	Performed
1960							From

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[illegible]