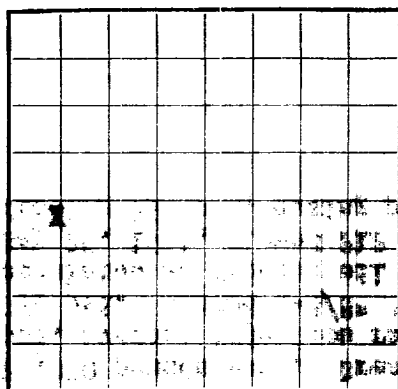


U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **SF 077968**

LEASE OR PERMIT TO PROSPECT

C. J. Holder

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Pan American Petroleum Corporation** Address **Box 450, Farmington, New Mexico**Lessor or Tract **C. J. Holder** Field **Cha Cha Gallup** State **New Mexico**Well No. **12** Sec. **36** T. **38N** R. **13W** Meridian **N.M.P.M.** County **San Juan**Location **493** ft. **S.** of **1** Line and **650** ft. **E.** of **4** Line of **Section 9** Elevation **5252'** (MSL)

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

Date **May 26, 1961** Title **Senior Petroleum Engineer**

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

Commenced drilling **April 29, 1961** Finished drilling **May 12, 1961**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5605** to **5612** No. 4, from _____ to _____

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

No. 3, from **5612** 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		Purpose
							From	To	
5/8"	27	8	5/8"	120'	5/8"	5/8"			Oil string
1-1/2"	45.5	6	1-1/2"	570'	6	6			Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5/8"	200'	150 sacks of cement	Halliburton 1 1/2"		
1-1/2"	574'	233 sacks of cement	Halliburton 1 1/2"		

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 **5770** feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as flowing oil well Cha Cha **DATES** Date first new oil produced.**Gallup Field** **May 25, 1961** Put to producing **May 18, 1961**

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %

emulsion; _____ % water; and _____ % sediment. **212** Gravity, °Bé. **99.8**If the well had flowed 24 hours it would have flowed **212** barrels of oil per day at **10/50** of time

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

Jim Speaker, Driller **Earl Babcock**, Driller**Jim Babcock**, Driller **Sam Kinney**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Surface sands and shales including Rio Alamo sands and shales.
270	1583	1313	Undifferentiated Kirtland - Fruitland sands, shales, and coals.
1583	1726	143	Pictured Cliffs sand and shale.
1726	2503	777	Lewis shale.
2503	4370	1867	Mesa Verde sands and shales.
4370	5253	683	Namoocho shale.
5253	5601	348	Gallup sands and shales.
5601	5770	169	Gallup gray sands and shales.

(Top from S-Log)

