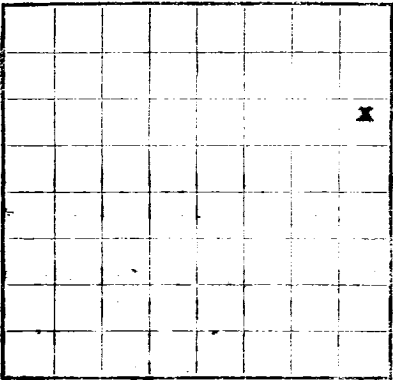


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **LF-077968**
LEASE **J. Holder** TO PROSPECT



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 **C. J. Holder** Field **Cha Cha Gallup** State **New Mexico**
Well No. **8** Sec. **16** T. **28N** R. **13W** Meridian **N.M.P.M.** County **San Juan**
Location **2940** ft. **S.** of **N.** Line and **510** ft. **E.** of **E.** Line of **Section 16** Elevation **6078**
(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 _____
Date **April 14, 1961** Title **Senior Petroleum Engineer**

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

Commenced drilling _____, 19____ Finished drilling _____, 19____

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **5740** to **5742** No. 4, from _____ to _____
No. 2, from **5800** to **5811** 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		Purpose
							From—	To—	
8-5/8"	20	8VT	CFLI	344	Guide				Surface
4-1/2"	9.5	8RT	CFLI	5903	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"	356	260	Halliburton	1 plug.	
4-1/2"	5287	200	Halliburton	2 plug.	

PLUGS AND ADAPTERS

Heaving plug—Material **0** Length **5290** 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 **5290** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as **Cha Cha Gallup Field** **DATES**
Development well. April 9, 19 **61** Put to producing April 9, 19 **61**

The production for the first 24 hours was **170** barrels of fluid of which **99.9%** was oil; _____% emulsion; _____% water; and **.1%** 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

_____, Driller **George Seal**, Driller
_____, Driller **Cotton Gibson**, Driller
R. H. Fleener
Donald Coleman

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	410	410	Surface sands and shales including ojo Alamo sand.
410	1732	1322	Kirtland-Fruitland sands, shales and coals.
1732	1888	156	Pictured Cliffs sand and shale.
1888	2636	748	Lewis sand and shale.
2636	2681	45	Cliffhouse sand and shale.
2681	4198	1517	Menefee sand and shale.
4198	4400	282	Point Lookout sand and shale.
4400	5385	905	Mancos shale.
5385	5736	351	Gallup sand and shale.
5736	5885	149	Gallup pay sands.
			(tops from E log)

