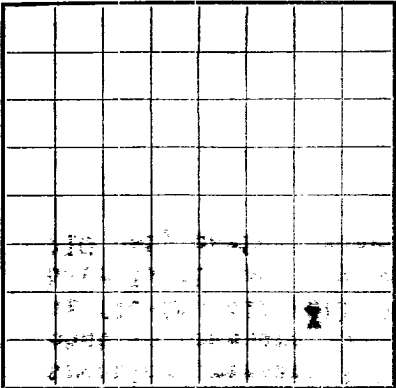


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF 077968**
LEASE OR PERMIT TO PROSPECT
C. J. Holder

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

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. **9** Sec. **8** T. **36N** R. **13W** Meridian **N.R.P.M.** County **San Juan**
Location **680** ft. **N** of **3** Line and **610** ft. **E** of **1** Line of **Section 8** Elevation **6934** (R.S.B.)
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 **K. M. Bauer**
Date **December 26, 1960** Title **Iron Engineer**

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

Commenced drilling **December 1**, 19 **60** Finished drilling **December 13**, 19 **60**

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

No. 1, from **5678** to **5690** No. 4, from _____ to _____
No. 2, from **5736** to **5750** 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"	24	8RT	J-55	195	Guide				Surface
4-1/2"	9.5	8RT	J-55	5841	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"	202	200 sacks of cement	B J Service 1 plug		
4-1/2"	5819	225 sacks of cement	B J Service 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 _____ feet, and from _____ feet to _____ feet
Cable tools were used from **0** feet to **5824** feet, and from _____ feet to _____ feet

DATES

Completed **December 27, 1960** as flowing oil well **Cha Cha Gallup Field** Put to producing **December 22**, 19 **60**
Potential production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. **232** Gravity, °Bé. **99.6**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas **44.7° API**
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	220	220	Surface sand and shale.
220	348	128	Ojo Alamo sand and shale.
348	1650	1302	Undifferentiated Kirtland-Fruitland sands, shales and coals.
1650	1895	245	Pictured Cliffs sand and shale.
1895	2565	670	Lewis sand and shale.
2565	2610	45	Cliffhouse sand and shale.
2610	4145	1535	Manefee sand and shale.
4145	4428	283	Point lookout sand and shale.
4428	5320	892	Mancos shale.
5320	5677	357	Gallup sand and shale.
5677	5824	147	Gallup pay sands.

