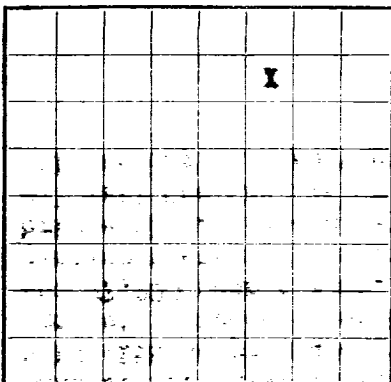




LOCATE WELL CORRECTLY.

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **NY 077962**
LEASE OR PERMIT TO PROSPECT
C. J. CollierUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Yan American Petroleum Corporation** Address **Box 46, Farmington, New Mexico**
Lessor or Tract **C. J. Collier** Field **Cha Cha Gallup** State **New Mexico**
Well No. **5** Sec. **16** T. **23N** R. **13W** Meridian **S., T. & M.** County **San Juan**
Location **660** ft. **S.** of **7** Line and **1130** ft. **W.** of **2** Line of **Section 16** Elevation **6056** (RDB)
(Denote 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 **D. M. R. M. R.**Date **January 27, 1961** Title **Senior Petroleum Engineer**

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

Commenced drilling **January 2**, 19 **61** Finished drilling **January 16**, 19 **61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5724** to **5737** No. 4, from **5737** to **5740**
No. 2, from **5746** to **5803** No. 5, from **5803** to **5810**
No. 3, from **5810** to **5810** No. 6, from **5810** to **5810**

IMPORTANT WATER SANDS

No. 1, from **5810** to **5810** No. 3, from **5810** to **5810**
No. 2, from **5810** to **5810** No. 4, from **5810** to **5810**

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	6VT	K-52	197	Guide				Surface
4-1/2"	9.5	6AT	J-55	5890	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"	207'	200 sacks of cement	Halliburton 1 plug		
4-1/2"	5869'	200 sacks of cement	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 _____ feet, and from _____ feet to _____ feet
Cable tools were used from **0** feet to **5870** feet, and from _____ feet to _____ feet

DATES

Completed **January 27, 1961** Gas flowing _____ Put to production **first new oil produced**, 19 _____
oil well Cha Cha Gallup Field **January 25**, 19 **61**

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. **124** Gravity, °Bé. **99.7**

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. **46.79** gas **1**

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	390	390	Surface sands and shales including Ojo Alamo Sands and shales.
390	1715	1325	Undifferentiated Pictured Cliffs sand and shale.
1715	1877	162	Pictured Cliffs sand and shale.
1877	2625	748	Lewis sand and shale.
2625	2667	42	Cliffhouse sand and shale.
2667	4180	1513	Menafee sand and shale.
4180	4470	290	Point Lookout sand and shale.
4470	5367	897	Mancoos shale.
5367	5744	377	Gallup sand and shale.
5744	5870	126	Gallup pay sands.
			(Taps from 1 log)

HISTORY OF OIL OR GAS WELL

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 its results. If there were any changes made in the casing, state fully, and if any casing was "side-tracked" 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 plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spended 12-1/2 hrs on January 2, 1968, and drilled to 207'. Set 5-1/2" casing at 207' with 200 sacks cement containing 2 percent calcium chloride. Estimated 25 sacks cement. After waiting for cement, tested 8-5/8" casing with 50 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 207' and resumed drilling operations.

Core No. 1 5710-5736 Gullup Creek, Bell County, Texas - recovered 28' as follows: 3' shale, 2' light shaly sand, 10' shale, 3' sandy shale, 1' light shaly sand, 1/2' sand with thin to bed sized shale nodules, 4-1/2' well cemented medium grained sand with occasional shale stringers, 1/2' porous, 2' shaly sand with faint color with 2' sandy shale.

Core No. 2 5738-5743 Gallip - Core bit pulled up and rotary table froze. Recovered 51 shale.

Core No. 3 5745-5792 Gallip - Recovered 691 in all: 621 black shale, 51 sandy shale, 21 shaly sand with light por and slight bleed.

Core No. 6 5792-5807 Gallop - recovered 15', as follows: 8' shaly sand - medium grained with bleeds throughout, 2' med. shaly sand, 5' black shale.

For 15 minutes, which held with no indication of pressure drop. Released 11-17-61.

Corroborated lower callup with 4 shots per foot 5750-5802. Send oil tracked lower callup with 15.001 gallons oil and 11,700 pounds sand. No breakdown pressure. Maximum treating pressure 2400 psi. Minimum treating pressure 2000 psi. Injection rate 29 barrels per minute. See Baker retrievable pump log at 5750-5802. No breakdown pressure, when held with no pressure drop. Corroborated upper callup with 6 shots per foot 5726-5733. Send oil tracked upper callup with 30.001 gallons oil with 750 pounds potassium alk II and 21,500 pounds sand. No breakdown pressure. Maximum treating pressure 2700 psi. Minimum treating pressure 2000 psi. Injection rate 22 barrels per minute. Called off well due the Gallup field. Potential west of 21-1961. Estimated 184 barrels oil per day on 18/64 choke. Tubing pressure 1200. Existing pressures are flowing 460.