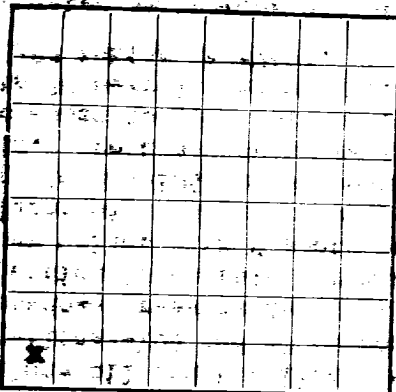
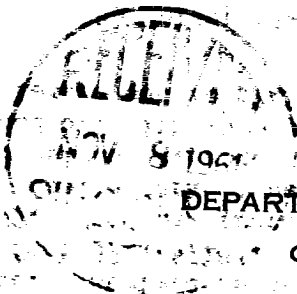




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **State of New Mexico**
SERIAL NUMBER **57-077966**LEASE OR PERMIT TO PROSPECT
Gallup Canyon Unit

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **San American Petroleum Corporation** Address **Box 450, Farmington, New Mexico**
Lessor or Tract **Gallup Canyon Unit** Field **Cha Cha Gallup** State **New Mexico**
Well No. **113** Sec. **14** T. **28N** R. **13W** Meridian **N.M.P.M.** County **San Juan**
Location **510** ft. **[N]** of **3** Line and **510** ft. **[E]** of **4** Line of **Section 14** Elevation **6050** (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 **A. M. Baber, Jr.**

Date **November 3, 1961**Title **Senior Petroleum Engineer**

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

Commenced drilling **September 18**, 19 **61** Finished drilling **September 28**, 19 **61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5722** to **5718** No. 4, from _____ to _____
No. 2, from **5713** to **5700** 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"	22.74	3 1/2	Reco	199'	Guide				Surface
4-1/2"	10.94	4 1/2	Reco	6874'	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"	210'	277	Halliburton 1 plug		
4-1/2"	5855'	340	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 **0** feet to **5865** feet, and from _____ feet to _____ feet

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

Completed as pumping oil well **Cha Cha Gallup Field** **November 1**, 19 **61**

DATES

First new oil

Put to producing **October 31**, 19 **61**The production for the first 24 hours was **62** barrels of fluid of which **99.9** % was oil; _____ % emulsion; _____ % water; and **.1** % sediment. Gravity, °Bé. **41.00** API

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

R. C. Cary, Driller**John D. Roe**, Driller**J. C. Brinkley**, Driller**Charles Lockhart**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1711	1711	Undifferentiated surface sands and shales.
1711	1856	145	Pictured Cliffs sand and shale.
1856	2622	766	Lewis shale.
2622	4487	1865	Mesaverde sand, shale, and coal.
4487	5359	872	Mancos shale.
5359	5682	323	Gallup sand and shale.
5682	5865	183	Gallup pay sand and shale.
			(Tops from "E" log)

FORMATION		TOTAL FEET	FORMATION
FORMATION RECORD			
DATE			
TOOL USED			
SHOOTING RECORD			
PLUGS AND ADAPTERS			
MUDGING AND CEMENTING RECORD			
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 "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, 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 balling. Spudded 12/1/76. Hole September 18, 1961. Set 8-5/8" casing at 2101 feet. 200 sacks of cement containing 2 percent Calcium Oxide. Circulated 35 sacks. Tested 5-5/8" casing with 500 psi for 15 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 2161.

Core No. 1 5690-5700'. Recovered 101' as follows: 3' shale; 2' sandy shale; 5' shale with occasional thin sand streaks. Core No. 2 5700-5760'. Recovered 60' as follows: 3-1/2' shale with occasional thin sand streaks; 1-1/2' sand, coarse grained and pebbled nodules; 9' sand, medium grained and fair permeability with vertical fractures at 5706-5708' and 5711-5713'. Oil blood at 5711'. 21' shale sand with vertical fractures; 44' sand with occasional sand streaks with vertical fractures at 5716-5718' and 5753-5760'. Core No. 3 5760-5790'. Recovered 30' as follows: 2' coarse 4' shaly sand with oil blood at 5764-5765'. 4' sand, medium grained with poor porosity and permeability; 5' shaly sand with vertical fractures at 5769-5776'; 19' shale. The summary on this page is for the condition of the well at above date.

Total depth 5865'. Reduced hole to 7-5/8" at 5790' and drilled to 5865'. Set 4-1/2" casing at 5865' with DV tool at 1960'. Cemented first stage with 125 sacks of cement containing 1-1/2 pounds per sack medium talc and 75 sacks of cement. Circulated 1-1/2" casing with 900 psi for 15 minutes, which held with no indication of pressure drop. Tested 4-1/2" casing with 3000 psi for 15 minutes, which held with no indication of pressure drop.

After waiting on cement 16 hours, drilled DV tool at 1960', displaced mud and water, and tested 4-1/2" casing with 1200 psi for 15 minutes, which held with no indication of pressure drop. Reduced hole to 7-5/8" at 5790'. Cemented first stage with 125 sacks of cement containing 1-1/2 pounds per sack medium talc and 75 sacks of cement. Circulated 1-1/2" casing with 900 psi for 15 minutes, which held with no indication of pressure drop. Tested 4-1/2" casing with 3000 psi for 15 minutes, which held with no indication of pressure drop. After waiting on cement 16 hours, drilled DV tool at 1960', displaced mud and water, and tested 4-1/2" casing with 1200 psi for 15 minutes, which held with no indication of pressure drop. Reduced hole to 7-5/8" at 5790'. Cemented first stage with 125 sacks of cement containing 1-1/2 pounds per sack medium talc and 75 sacks of cement. Circulated 1-1/2" casing with 900 psi for 15 minutes, which held with no indication of pressure drop. Tested 4-1/2" casing with 3000 psi for 15 minutes, which held with no indication of pressure drop.