

U. S. LAND OFFICE **Navajo Tribal**SERIAL NUMBER **14-20-609-2199**

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Pan American Petroleum Corporation** Address **Box 480, Farmington, New Mexico**
Lessor or Tract **Navajo Tribal "B"** Field **Undesignated Gallup** State **New Mexico**
Well No. **4** Sec. **21** T. **29N** R. **14W** Meridian **N.M.P.M.** County **San Juan**
Location **660** ft. **N** of **N** Line and **1890** ft. **E** of **W** Line of **Section 21** Elevation **5213** (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 **R. M. Bauer, Jr.**
Date **October 24, 1960** Title **Area Engineer**

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

Commenced drilling **September 28**, 19 **60** Finished drilling **October 21**, 19 **60**OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **4725** to **4736** No. 4, from **4725** to **4736**
No. 2, from **4736** to **4736** No. 5, from **4736** to **4736**
No. 3, from **4736** to **4736** No. 6, from **4736** to **4736**

IMPORTANT WATER SANDS

No. 1, from **4736** to **4736** No. 3, from **4736** to **4736**
No. 2, from **4736** to **4736** No. 4, from **4736** to **4736**

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"	22.7	31 1/2	Araco	212	Guide				Surface
5-1/2"	14	8RT	J-55	4882	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"	212	200 sacks	Pump and plug		
5-1/2"	4882	175 sacks	Pump and 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 **4882** feet, and from _____ feet to _____ feet

DATES

Completed **October 22, 1960** as flowing oil Put to producing **October 13**, 19 **60**
well, **Undesignated Gallup Field**
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. **203** Gravity, °Bé. **99.8**

If gas well, cu. ft. per 24 hours **42** Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
Cotton Gibson, Driller **James Smith**, Driller
M. O. Ebersold **Jackie White**

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	589	589	Surface sands and shales including Fruitland and Farmington zones.
589	610	21	Pictured Cliffs sands and shales.
610	2217	1607	Lewis shale.
2217	3448	1231	Mesaverde sands, shales and coals.
3448	4361	913	Mancos shale.
4361	4792	431	Gallup sand and shales.
4792	4882	90	Gallup pay sands and shales.
			Tops from E log.

REPORT OF THE OFFICE OF THE ATTORNEY GENERAL

DATE	TIME	LOCATION	DEPTH	TEMPERATURE	PRESSURE	FLOW	REMARKS
1941	10:00	Well No. 1	100	60	100	100	First production
1941	11:00	Well No. 1	100	60	100	100	Continued production
1941	12:00	Well No. 1	100	60	100	100	Continued production
1941	13:00	Well No. 1	100	60	100	100	Continued production
1941	14:00	Well No. 1	100	60	100	100	Continued production
1941	15:00	Well No. 1	100	60	100	100	Continued production
1941	16:00	Well No. 1	100	60	100	100	Continued production
1941	17:00	Well No. 1	100	60	100	100	Continued production
1941	18:00	Well No. 1	100	60	100	100	Continued production
1941	19:00	Well No. 1	100	60	100	100	Continued production
1941	20:00	Well No. 1	100	60	100	100	Continued production
1941	21:00	Well No. 1	100	60	100	100	Continued production
1941	22:00	Well No. 1	100	60	100	100	Continued production
1941	23:00	Well No. 1	100	60	100	100	Continued production
1941	24:00	Well No. 1	100	60	100	100	Continued production