

U. S. LAND OFFICE Navajo Tribal

SERIAL NUMBER _____

LEASE OR PERMIT TO PROSPECT _____

14-20-603-2198

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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 #11 Field Totah Gallup State New Mexico

Well No. 9 Sec. 23 T. 29N R. 14W Meridian N.M.P.M. County San Juan

Location 570 ft. S of N. Line and 670 ft. W. of E. Line of Section 23 Elevation _____

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.

ORIGINAL SIGNED BY _____
Signed L. O. Spear, Jr.

Date August 24, 1961 Title Area Superintendent

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

Commenced drilling June 24, 1961 Finished drilling July 8, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1876 to 1982 No. 4, from _____ to _____

No. 2, from _____ to _____ 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—	
<u>8-5/8"</u>	<u>205</u>	<u>8VT</u>	<u>CB&I</u>	<u>186</u>	<u>Chisel</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>9.58</u>	<u>8RT</u>	<u>CB&I</u>	<u>5126</u>	<u>Chisel</u>				<u>Oil string</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>205</u>	<u>195</u>	<u>Halliburton 1 Plug</u>		
<u>4-1/2"</u>	<u>5108</u>	<u>200</u>	<u>Halliburton 2 plug</u>		

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 5118 feet, and from _____ feet to _____ feet

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

DATES

Completed as Totah Gallup Field Well. First New Oil Put to producing July 14, 1961

The production for the first 24 hours was 166 barrels of fluid of which 99.9% was oil; _____ % emulsion; _____ % water; and .1 % sediment. Gravity, °Bé. 45.70

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

Rock pressure, lbs. per sq. in. 160

EMPLOYEES

K. R. Bunyar, Driller M. W. McDonald, Driller

Jackie White, Driller Pete Estes, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>885</u>	<u>885</u>	<u>Surface sands and shales including Kirtland, Farmington, and Fruitland zones.</u>
<u>885</u>	<u>1092</u>	<u>207</u>	<u>Pictured Cliffs.</u>
<u>1092</u>	<u>1853</u>	<u>761</u>	<u>Lewis shale.</u>
<u>1853</u>	<u>3690</u>	<u>1837</u>	<u>Mesaverde sands and shales.</u>
<u>3690</u>	<u>4609</u>	<u>919</u>	<u>Mancos shale.</u>
<u>4609</u>	<u>4977</u>	<u>368</u>	<u>Gallup sands and shales.</u>
<u>4977</u>	<u>5118</u>	<u>141</u>	<u>Gallup pay sands and shales.</u>

(Tops from "H" log)

