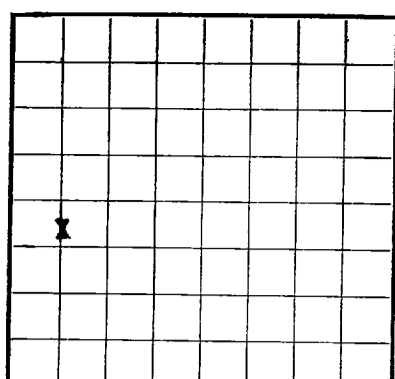


U. S. LAND OFFICE **New Mexico**  
SERIAL NUMBER **NM 04443**  
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 487, Farmington, New Mexico**  
Lessor or Tract **O. J. Hoover "B"** Field **Horseshoe Gallup** State **New Mexico**  
Well No. **3** Sec. **11** T. **30N** R. **16W** Meridian **N.M.P.M.** County **San Juan**  
Location **2260 ft. [N.] of S. Line and 660 ft. [E.] of W. Line of Section 11** Elevation **5475**  
(Derrick 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.  
ORIGINAL SIGNED BY **R. M. Bauer, Jr.**  
Signed

Date **December 4, 1958** Title **Field Engineer**  
The summary on this page is for the condition of the well at above date.

Commenced drilling **November 6**, 19**58** Finished drilling **November 19**, 19**58**

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

No. 1, from **1748** to **1774** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from **1841** to **1874** 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	
<b>8-5/8"</b>	<b>22.7</b>	<b>5</b>	<b>Slip Joint Arco</b>	<b>204</b>	<b>Guide</b>				<b>Surface</b>
<b>4-1/2"</b>	<b>9.5</b>	<b>8</b>	<b>National</b>	<b>1777</b>	<b>Guide</b>				<b>Oil string</b>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<b>8-5/8"</b>	<b>211</b>	<b>160 sacks cement</b>	<b>Halliburton</b>	<b>No. 1 Plug</b>	
<b>4-1/2"</b>	<b>1978</b>	<b>170 sacks cement</b>	<b>Halliburton</b>	<b>No. 2 Plug</b>	

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 **0** feet, and from \_\_\_\_\_ feet to **1980** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Completed as pumping oil well **Horseshoe Gallup Field** Date first new oil to tanks: **November 30**, 19**58**  
Put to producing **November 30**, 19**58**

The production for the first 24 hours was **185** barrels of fluid of which **99.8** % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment.

Gas-oil ratio **688** Gravity, °Bé. **40.1° API**  
Potential well on **November 30, 1958**, pumped **34** barrels oil with **2000** strokes per minute with **1 1/2"** pump.

EMPLOYEES

**George L. Hollowell**, Driller **A. Y. Old**, Driller  
**C. W. Flemmons**, Driller **V. C. Sartor**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<b>0</b>	<b>435</b>	<b>435</b>	<b>Surface sands &amp; shales.</b>
<b>435</b>	<b>1589</b>	<b>1154</b>	<b>Mancos shale.</b>
<b>1589</b>	<b>1734</b>	<b>145</b>	<b>Gallup sands &amp; shales.</b>
<b>1734</b>	<b>1840</b>	<b>106</b>	<b>Gallup pay sands &amp; shales.</b>
<b>1840</b>	<b>1980</b>	<b>140</b>	<b>Horseshoe Gallup sands &amp; shales.</b> <b>(Tops from E log.)</b>

(OVER)

FOLD MARK

