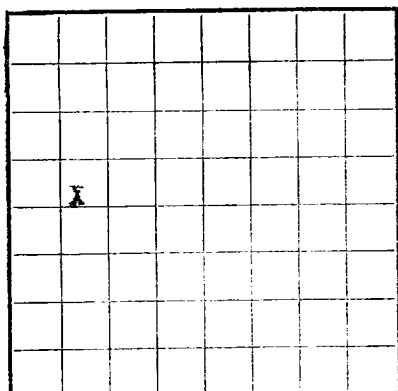


U. S. LAND OFFICE New Mexico
SERIAL NUMBER MM 04437
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 467, Farmington, New Mexico
Lessor or Tract J. K. Aidlin "B" Field Horseshoe Gallup State New Mexico
Well No. 1 Sec. 14 T. 30N R. 16E Meridian N.M.P.M. County San Juan
Location 1573 ft. S of N Line and 630 ft. E of W Line of Section 14 Elevation 433 (Derrick floor relative to 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

Signed

R. M. Bauer, Jr.Date June 7, 1960Title Area Engineer

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

Commenced drilling April 30, 1960 Finished drilling May 7, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2355 to 2400 No. 4, from _____ to _____
No. 2, from 2410 to 2422 No. 5, from _____ to _____
No. 3, from 2447 to 2453 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>22.7</u>	<u>Slip joint</u>	<u>88'</u>	<u>Culver</u>					<u>Surface</u>
<u>5-1/2"</u>	<u>14</u>	<u>8 RT</u>	<u>J-55</u>	<u>2551'</u>	<u>Guide</u>				<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount used
<u>8-5/8"</u>	<u>99'</u>	<u>80 sacks of cement</u>	<u>Halliburton 1 Plug</u>		
<u>5-1/2"</u>	<u>2546'</u>	<u>130 sacks of cement</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 _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2547 feet, and from _____ feet to _____ feet

DATES

Completed as pumping oil well, Horseshoe Gallup Field June 8, 1960. Put to production June 7, 1960
test showed 25 barrels of oil per day and _____ barrels of fluid of which _____% was oil; _____%
2 barrels water. The production for the first 24 hours was _____
emulsion; _____% water; and _____% sediment. 27 Gravity, °Bé. 92.4

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas 11.99
Gas oil ratio not yet available
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
A. Y. Old, Driller V. F. McKee, Driller
D. L. Hiley C. L. Hall

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>630</u>	<u>630</u>	<u>Surface sands and shales.</u>
<u>630</u>	<u>1018</u>	<u>388</u>	<u>Point Lookout sands and shales.</u>
<u>1018</u>	<u>2145</u>	<u>1127</u>	<u>Mancos shale.</u>
<u>2145</u>	<u>2335</u>	<u>190</u>	<u>Gallup sands and shales.</u>
<u>2335</u>	<u>2445</u>	<u>110</u>	<u>Upper Gallup sands and shales.</u>
<u>2445</u>	<u>2547</u>	<u>102</u>	<u>Low Gallup sands and shales.</u>
			<u>Tops from 5 log</u>

(OVER)

