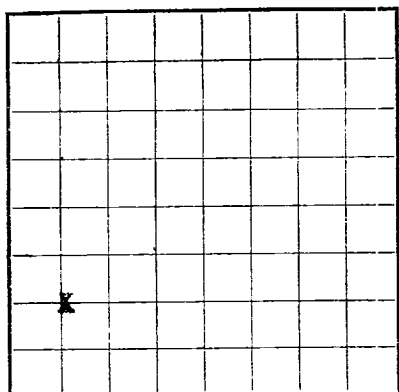


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-081299-1
LEASE OR PERMIT TO PROSPECT

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 J. J. Lomori, R. 1 Field Horseshoe Gallup State New Mexico
Well No. 3 Sec. 13 T. 30N R. 16W Meridian N.M.P.M. County San JuanLocation 1980 ft. [N.] of 8 Line and 660 ft. [E.] of 4 Line of Section 13 Elevation 5300
(Denote four 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.

Signed

ORIGINAL SIGNED BY

R. M. Bauer, Jr.Date July 9, 1959Title Area Engineer

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

Commenced drilling May 24, 1959 Finished drilling June 5, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3730 to 3766 No. 4, from _____ to _____
No. 2, from 3826 to 3858 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"	215			160 sacks of cement	Halliburton				1 Plug
5-1/2"	3998			130 sacks of cement	Halliburton				2 Plug

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	215	160 sacks of cement	Halliburton		1 Plug
5-1/2"	3998	130 sacks of cement	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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 4185 feet, and from _____ feet to _____ feet

DATES

Completed as pumping oil well Horseshoe Gallup Field June 19, 1959. Potential _____ Date first new oil produced, 19_____
Test pumped 67 barrels oil in 14 hours. Put to producing June 17 _____
13-36" production for first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. 115 Gravity, °Bé. 99.8
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Gas oil ratio, not yet available _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
Coy Flemmon _____, Driller _____, Driller
Orval Cook _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	215	215	Surface shales and sands.
215	530	315	Lewis shale.
530	2407	1877	Mesaverde sands, shales and coals.
2407	3682	1275	Mancos shale.
3682	3726	44	Verde Gallup shale.
3726	3826	100	Verde Gallup pay sands and shales.
3826	4185	359	Horseshoe Gallup pay sands and shales.
(tops from Electric Log)			
FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

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LOCATE WELL CORRECTLY

[illegible][illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reformation, 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, size, 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 bailing.

Depth	Interval	Pressure	Kind of plug	Time and in how many days	Notes

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 reworking, if any casing was added, and if 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, size, 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.

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