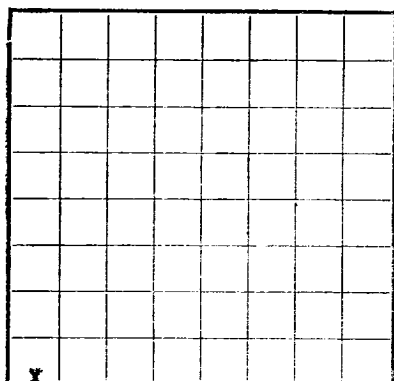


U. S. LAND OFFICE New Mexico
SERIAL NUMBER 677281
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address P. O. Box 427, Farmington, New Mexico
Lessor or Tract J. L. Adair Field Horseshoe Gallup State New Mexico
Well No. 4 Sec. 10 T. 30 R. 16 Meridian N. 10. 7. 30 County San Juan
Location 530 ft. N. of 5 Line and 365 ft. E. of 10 Line of Section 10 Elevation 5328 (202)
(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.

Signed _____

Date March 25, 1960Title Area Engineer

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

Commenced drilling March 9, 1960 Finished drilling March 11, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1312 to 1365 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	Purpose
8-5/8"	22	8	5-5 1/2	1168	1168	1168	Oil String
5-1/2"	14	8	5-5 1/2	1168	1168	1168	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"	95'	80 sacks of cement	S. L. Service	2 plug	
5-1/2"	1467'	130 sacks of cement	S. L. Service	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 0 feet to 1470 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as producing oil well Horseshoe DATES date 1st raw oil produced
Gallup Field March 24, 1960 Put to producing March 23, 1960

The production for the first 24 hours was 24 barrels of fluid of which 99.8% was oil; _____%
emulsion; _____% water; and 0.2% sediment. Gravity, °Bé. 42.2° API

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

A. T. Old, Driller V. P. Eches, Driller
C. L. Hall, Driller A. F. Wheeler, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1035	1035	Surface sands and shales.
1035	1311	276	Gallup sands and shales.
1311	1352	41	Upper Gallup pay sand.
1352	1470	118	Lower Gallup pay sands and shales.
			Topo from electric log.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]

The information given herewith is a complete and correct record of the well and all work done thereon.

Location of _____ ft. _____ of _____ line and _____ ft. _____ of _____ line of _____ Elevation _____

Well No. _____ R. _____ Township _____ County _____ State _____

Location of _____ Township _____ State _____

Address _____

Company _____

total depth 17.0'. The back haul was approximately 10%.
at 17.67' with 80 sacks 6 percent cement with 1-1/2 pounds nodules per sack
and followed by 50 sacks neat cement. After waiting on cement, tested casing with
1000 psi for 30 minutes which held with no indication of pressure drop.
The casing was set on March 25, 1960. Reported for completion operations.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, 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 "shattered," or left in the well, give its size and location. If the well has been dynamited, give date, shot 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.

Spended 1-1/4" rods on May 8, 1906 and drilled to 95'. At 95' it was noted
at 95' with 50 sacks of cement containing 25 gallons chloride of cement. After waiting on cement, setting rods and water pump and running down to
top 75 minutes which held with no indication of pressure drop. Reduced rate to
1-7/8" at 95' and resumed drilling operations.
No. 3 from

No. 1 from

RECEIVED

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