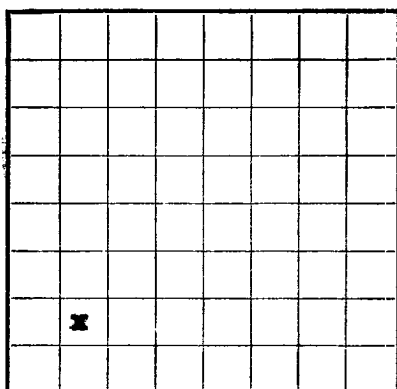
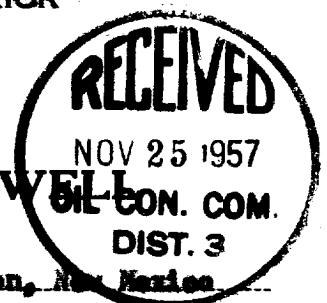


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 978349
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 187, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field Pictured Cliffs State New Mexico
Well No. 77 Sec. 12 T. 29N R. 12W Meridian N.M.P.M. County San Juan
Location 990 ft. N. of 3 Line and 1090 ft. E. of W Line of Section 12 Elevation 5533
(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 L. O. Spear, Jr.
Date November 19, 1957 Title Field Superintendent

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

Commenced drilling January 26, 1957 Finished drilling February 11, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1134 to 1428 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 none 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>32</u>	<u>8.25</u>	<u>National</u>	<u>261</u>	<u>Guide</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>21</u>	<u>8.25</u>	<u>National</u>	<u>1497</u>	<u>Guide</u>				<u>1428</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>260'</u>	<u>150</u>	<u>Halliburton 2 Plug</u>		
<u>5-1/2"</u>	<u>1500'</u>	<u>75</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 _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil, _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

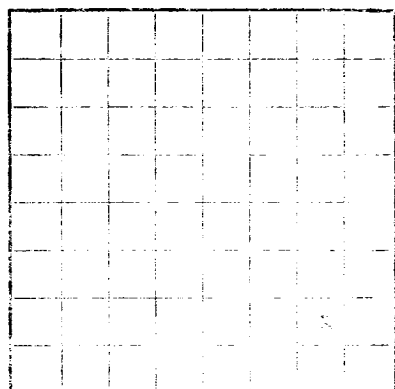
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>260</u>	<u>260</u>	<u>Surface sand & shale.</u>
<u>260</u>	<u>1135</u>	<u>875</u>	<u>Kirtland sands & shales.</u>
<u>1135</u>	<u>1428</u>	<u>293</u>	<u>Fruitland sands, shales & coals.</u>
<u>1428</u>	<u>1500</u>	<u>72</u>	<u>Pictured Cliffs sand.</u>

FORMATION RECORD—Continued

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Name
Person or Firm
Well Name
Location
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.

The summary on this page is for the condition of the well at above date.
The well was completed on August 6, 1927. Well head was removed and a plug was installed.
The well was temporarily abandoned August 6, 1927. Well head was removed and a plug was installed.

Formation broke at 2600 pounds. Average production rate was 50 barrels per minute.
The well was perforated with four jet holes at 1000, 1200, 1400, and 1600 feet. These perforations were then sand-packed with 20,000 gallons water and 30,000 pounds sand.

After waiting on cement for three days, plug was tested with 12 hour balling test. Test proved successful. Completion operations were begun.
Five and one-half inch casing was cemented with 75 sacks cement. After waiting on cement for three days, plug was tested with 12 hour balling test.

On January 26, 1927, this well was abandoned, and on January 29, 1927, a 5/8 inch casing was landed at 260', and cemented with 150 sacks cement. After waiting on cement for 24 hours, casing was tested with 500 pounds pressure for thirty minutes with no drop in pressure. Drilling operations were resumed.

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 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.

HISTORY OF OIL OR GAS WELL

Size of casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	To—	Purpose

Shooting record	Shots used	Depth shot	Depth of casing set

Tools used	Tool used	Depth of tool	Depth of tool

Dates	Production for the first 24 hours was	Production for the first 24 hours was

Employees	Driller	Driller

Formation record	Formation	Formation

Formation	Formation	Formation

Formation	Formation	Formation

Formation	Formation	Formation

Formation	Formation	Formation