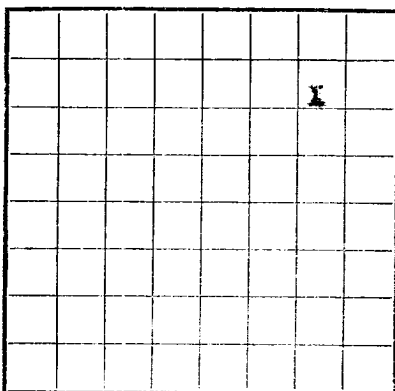
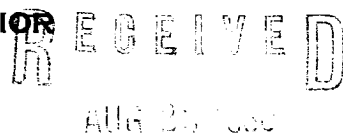




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 079244 A
LEASE OR PERMIT TO PROSPECT
Gallegos Canyon Unit

LOG OF OIL OR GAS WELL

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field Undesignated State New Mexico
Well No. 85 Sec. 19 T. 28N R. 12W Meridian N.M.P.M. County San Juan
Location 990 ft. S of R Line and 990 ft. E of E Line of Section 19 Elevation 5698 (RDB)
(Derriet 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 O. Speer, Jr.Date August 19, 1960 Title Area Superintendent

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

Commenced drilling November 20, 1959 Finished drilling December 1, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6180 to 6110 No. 4, from _____ to _____
No. 2, from 6125 to 6137 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—	
<u>9-5/8"</u>	<u>32.3</u>	<u>8RT</u>	<u>J-55</u>	<u>1641</u>	<u>Guide</u>	<u>6110</u>			<u>Oil String</u>
<u>7"</u>	<u>23</u>	<u>8RT</u>	<u>J-55</u>	<u>1641</u>	<u>Guide</u>	<u>6110</u>			<u>Oil String</u>
<u>7"</u>	<u>20</u>	<u>8RT</u>	<u>J-55</u>	<u>1641</u>	<u>Guide</u>	<u>6110</u>			<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>312</u>	<u>250 sacks of cement</u>	<u>B. J. Service 2 Plug</u>		
<u>7"</u>	<u>6230</u>	<u>550 sacks of cement</u>	<u>Halliburton 2 Stage</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

Completed August 14, 1960 as Single Shut-In for pipeline connection
In Undesignated Dakota Field Development Put to producing _____, 1960
Gas well The production for the first 24 hours was _____ barrels of fluid of which August 14 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

Preliminary well test _____ ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas _____
Test Rock pressure, lbs. per sq. in. 5496

Potential test will be furnished your office on Sundry Notice when available.

Lee Haylor

T. B. Gage

Driller

Driller

Clair Wilson

Glen Sanford

FORMATION RECORD

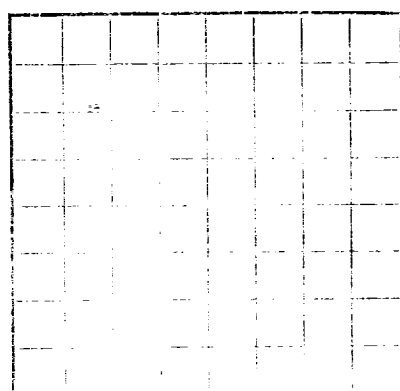
FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1428</u>	<u>1428</u>	<u>Surface sand and shale including Kirtland - Farmington - Fruitland.</u>
<u>1428</u>	<u>1591</u>	<u>163</u>	<u>Pictured Cliffs sands and shales.</u>
<u>1591</u>	<u>2370</u>	<u>779</u>	<u>Lewis shale.</u>
<u>2370</u>	<u>4196</u>	<u>1826</u>	<u>Mesaverde sands, shales and coals.</u>
<u>4196</u>	<u>5095</u>	<u>899</u>	<u>Mancos shale.</u>
<u>5095</u>	<u>5895</u>	<u>800</u>	<u>Gallup sands and shales.</u>
<u>5895</u>	<u>6003</u>	<u>108</u>	<u>Greenhorn sands and shales.</u>
<u>6003</u>	<u>6023</u>	<u>20</u>	<u>Graneros sands and shales.</u>
<u>6023</u>	<u>6080</u>	<u>57</u>	<u>Dakota sands and shales.</u>
<u>6080</u>	<u>6227</u>	<u>147</u>	<u>Dakota pay sand.</u>
<u>6227</u>	<u>6230</u>	<u>3</u>	<u>Morrison sands and shales.</u>
			<u>(Tops from 5-100)</u>

(OVER)

16-48094-4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

0321 1 5 1
MAG. NOC. JIC
E. JIC



Y 175-16-100 1 3M 17-100 1

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

Date of summary: 11/11/1977

Commenced drilling 19

Finished drilling 19

OIL OR GAS SANDS OR ZONES

(5) *no non singular* (1)

No. 1, from	to	No. 4, from	to
No. 2, from	to	No. 5, from	to
No. 3, from	to	No. 6, from	to

IMPORTANT WATER SANDS

to	from 2.5%	to	from 1.1%
to	from 1.6%	to	from 2.6%

CASING RECORD

Give credit	What is the cost	Time is not right	More	Amount	Kind of share	Get and hold for long	Exaggerated	Purpose
----------------	------------------------	-------------------------	------	--------	------------------	-----------------------------	-------------	---------

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 shotacked, or left in the well, give the size and location. If the well has been dynamited, give date, size, position, and manner of shooting. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

MINIMUM OF 1000 RECORDS

Case No.	Amount of cement	Weight used	Kind of gravity	Amount of cement
100	100	100	100	100
101	101	101	101	101

PLUGS AND ADAPTERS

Leaving plug - 1/4" lateral	Length	Depth
Adapters - 1/4" lateral	Size	

SHOOTING RECORD

[illegible]

TOOLS USED

1991	at feet	from and from	1991	to feet	from new shoot
1991	at feet	from and from	1991	to feet	from old shoot

DATE

The production for the first 24 hours was _____ barrels of fluid of which _____ was oil _____ Put to producing _____ 19 _____

Gravimetric analysis; _____ % water; and _____ % sediment	_____ Gravity, °Be.
---	---------------------

Rock pressure, lbs. per sq. in.

2370 HME

Driller	Driller	Driller	Driller
Driller	Driller	Driller	Driller

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued

$$E = \frac{1}{2} \rho \int_{-L}^L \dot{y}^2 dx$$