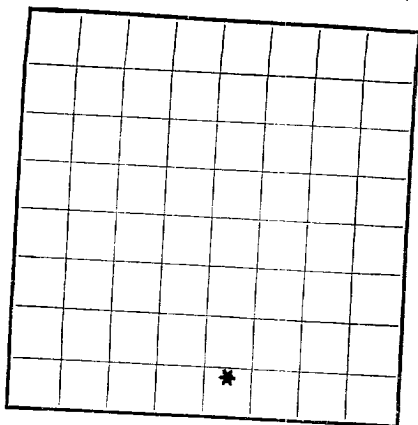


U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **LC 061783 (a)**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corp.** Address **Box 68 - Hobbs, New Mexico**
Lessor or Tract **R. F. Windfohr** Field **Empire Abo** State **New Mexico**
Well No. **3** Sec. **4** T. **18S** R. **16E** Meridian **NMPM** County **Eddy**
Location **330** ft. **N** of **S** Line and **1637.98** ft. **E** of **E** Line of **Section 4** Elevation **3566** RDB
(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.

Date **10-9-59** Signed **J. W. BROWN** Title **Area Superintendent**

The summary on this page is for the condition of the well at above date.
Commenced drilling **9-17**, 19**59** Finished drilling **10-4**, 19**59**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5285** to **5635**
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____
No. 5, from _____ to _____
No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, 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"	24#	8R	J-55	1482	Guide				
4-1/2"	9.5#	8R	J-55	5666	Guide		5540	5620	Surface 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"	1482	700	Pump		
4-1/2"	5666	850	Pump		

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 **5666 TD** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **10-7**, 19**59**
The production for the first **21** hours was **152** barrels of fluid of which **100**% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. **42°**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

B. J. Wright, Driller **R. E. Mills Jr.**, Driller
J. W. Martin, Driller **O. L. Jamison**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION	TOPS
0	350	350	Red Bed	T. Queen - 815'
350	545	195	Red Bed and Anhy.	T. San Andres - 1500'
545	827	282	Lime and Anhy.	T. Glorieta - 2930'
827	1330	503	Anhy., and Gyp	T. Abo - 5285'
1330	1482	152	Lime and Anhy.	
1482	3546	2064	Lime	
3546	3714	168	Lime and Sand	
3714	5046	1332	Lime	
5046	5259	213	Lime and Dolomite	
5259	5666 TD	407	Lime	

FROM	TO	TOTAL FEET	FORMATION
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—OL

TOTAL FEES

FORMATION

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, 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.

HISTORY OF OIL OR GAS WELL

16-48034-2 U. S. GOVERNMENT PRINTING OFFICE

TD 5666, BPD 5635 Completed 10-8-59, as an Empire Abo Field Development Well.
T Pay 5285'. Abo Formation, on potential test 10--8--59, flowed 152 barrels of
oil, no water, 165 MCFG in 21 hours on 15/64" choke, casing PKR. TPF 390
GOR 1086
Acidized with 5,000 gallons 15% Regular acid.

Acidized with 5,000 gallons 15% Regular acid.