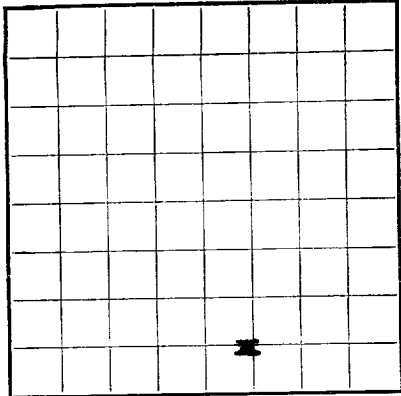


U. S. LAND OFFICE
SERIAL NUMBER **NM 025604**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Post Office Box 68 - Hobbs, New Mexico**
Lessor or Tract **Malco Refineries "E"** Field **Empire Abo** State **New Mexico**
Well No. **2** Sec. **3** T. **18S** R. **27E** Meridian **NMPM** County **Eddy**
Location **610** ft. **S.** of **S** Line and **1980** ft. **E.** of **E** Line of **Section 3** Elevation **3526** 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.
Signed **Ralph H. Pennington**

Date **1-15-59** Title **Field Superintendent**

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

Commenced drilling **11-30**, 19**58** Finished drilling **1-12**, 19**59**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **5345** to **5380** 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	Perforated		Purpose
							From—	To—	
3-5/8	24	8	J-55	989	Float				Surface
5-1/2	14	8	J-55	6094	Float		5345	5380	Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
3-5/8	983	700	HO-60		
5-1/2	6043	175	HO-60		

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 **6045** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed **1-11**, 19**59** Put to producing **1-10**, 19**59**
The production for the first 24 hours was **88** barrels of fluid of which **100** % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. **42.0**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. B. Butler, Driller **E. E. Foster**, Driller
P. F. Huffman, Driller **R. C. Sneed**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	813	813	Red Bed and Anhy. TOPS
813	1389	576	Anhy. T. San Andres - 1630'
1389	1518	129	Red Bed, Anhy. T. Abo - 4540'
1518	1775	257	Anhy.
1775	2082	307	Anhy., Lime
2082	4827	2745	Lime
4827	4880	53	Lime and Sand
4880	4929	49	Lime
4929	4958	29	Lime and Sand
4958	4985	27	Lime and Dolomite
4985	5056	71	Lime
5056	5096	40	Lime and Sand
5096	5113	17	Dolomite
5113	5152	39	Lime
5152	5188	36	Dolomite
5188	5273	85	Lime and Sand
5273	5395	122	Dolomite
5395	5485	90	Lime and Sand
5485	5591	106	Dolomite
5591	6048	457	Lime

FORMATION RECORD—Continued

[illegible]

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 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 bailing.

Well was perforated 5340-5365 with 4 shots per foot and acidized with 50 gallons 15% regular, well swabbed dry. Set retainer at 5300' and squeezed perforations with 100 sacks cement. Drilled plug 6012 and perforated 5345-5380 with 4 shots per foot, acidized perforations with 1,000 gallons 15% regular acid. On test well flowed 88 BO and no water on 7/64" choke in 24 hours.