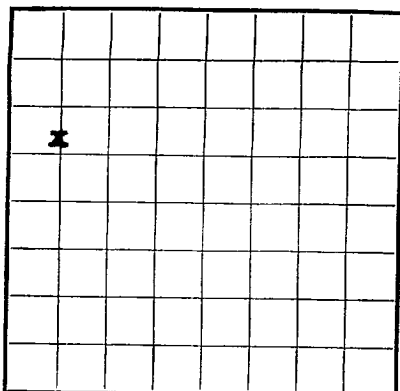




LOCATE WELL CORRECTLY

RECEIVED

MAY 22 1959

U. S. LAND OFFICE
SERIAL NUMBER **NM 085604**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

MAY 18 1959

U. S. GEOLOGICAL SURVEY
WELLS, NEW MEXICO

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 68 - Hobbs, New Mexico**
Lessor or Tract **USA Malco Refineries "G"** Field **Empire Abo** State **New Mexico**
Well No. **4** Sec. **10** T. **18S** R. **27E** Meridian **NMPM** County **Eddy**
Location **1880** ft. **S.** of **N** Line and **660** ft. **E.** of **W** Line of **Section 10** Elevation **3516** 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

Original Signed by
L. M. BROWNDate **May 14, 1959**Title **Area Superintendent**

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

Commenced drilling **April 8**, 19 **59** Finished drilling **May 9**, 19 **59**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5900** to **5950** 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—	
8-5/8	24	8E	J-55	1487	Float				Surface
5-1/2	24	8E	J-55	6600	Float		5900	5950	Oil string
									2 above per foot

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1493	800	HOWCO		
5-1/2	6000	715	HOWCO		

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 **Surface** feet to **6000** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed **May 10**, 19 **59** Put to producing **May 9**, 19 **59**

The production for the first 24 hours was **67** 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

H. L. Beutler, Driller **O. R. Arnold**, Driller
Adam Locke, Driller **R. C. Speed**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	903	903	Red Bed and Gyp
903	1135	232	Anhy.
1135	1605	470	Anhy., Gyp
1605	1754	149	San Andres
1754	1829	75	Abo
1829	2216	387	Lime and Shale
2216	2312	96	Abo Pay
2312	4607	2295	Lime
4607	4655	48	Dolomite
4655	4716	61	Lime
4716	4791	75	Chert and Dolomite
4791	5103	312	Chert, Lime
5103	5225	122	Chert and Dolomite
5225	5270	45	Lime and Chert
5270	5307	37	Chert, Dolomite
5307	5351	44	Lime Chert
5351	5357	6	Dolomite and Sand
5357	5385	28	Lime and Chert
5385	5441	56	Dolomite
5441	5472	31	Lime and Chert
5472	5512	40	Dolomite
5512	5540	28	Lime and Chert
5540	5610	98	Dolomite
5610	6000	390	Lime

[OVER]

FORMATION RECORD—Continued

FROM-	TO-	TOTAL FEET	FORMATION
			1. 0-1000 2. 1000-2000 3. 2000-3000 4. 3000-4000 5. 4000-5000 6. 5000-6000 7. 6000-7000 8. 7000-8000 9. 8000-9000 10. 9000-10000

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.

HISTORY OF OIL OR GAS WELL

Well was drilled to a TD of 6,000' and perforated 5800'-5950' with 2 shots per foot and acidized with 5,000 gallons 15% regular. On Test well flowed 67 BO, no water, 71 MCF Gas on 9/64" choke in 24 hrs. 7, 111 56 GOR 1053

2-10-68
2-10-68

100-443882-20

YOUNG, J. E. 1983. *Journal of Fish Biology* 23:1-10.

POTENTIAL OUTCOME
- ON THE WAY TO DEFEAT

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.