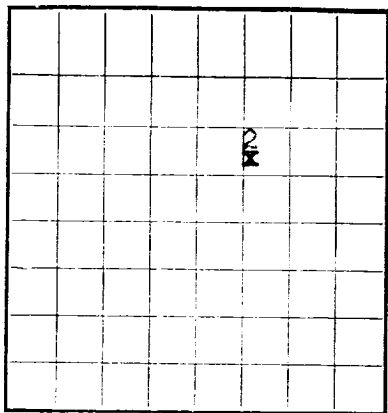


U. S. LAND OFFICE **New Mexico (Santa Fe)**
SERIAL NUMBER **NM 029141**

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **The Atlantic Refining Company** Address **Box 1038, Denver City, Texas**
Lessor or Tract **Federal A** Field **Bumont** State **New Mexico**
Well No. **2** Sec. **4** T19-S R.37-E Meridian **NMPM** County **Lea**
Location **1837** ft. **N** of **N** Line and **1650** ft. **E** of **E** Line of **Sec. 4** Elevation **3691** DF
(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

Date **February 11, 1957**Title **District Supt.**

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

Commenced drilling **Jan. 5**, 19**57** Finished drilling **Jan. 29**, 19**57**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3848** to **3862** No. 4, from **3974** to **3996**
No. 2, from **3872** to **3880** No. 5, from _____ to _____
No. 3, from **3904** to **3916** 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—	
8-5/8"	21#		LoneStar	412.41	Larkin				Surface
5 1/2"	15.5#		National	4001.22	HOMCO		3848	3862	Oil String
							3872	3880	
							3904	3916	
2" Tbg.	4.7#		National	3821.61					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	422.81	340	Pump		
5 1/2"	4010.72	1230	Pump		
2" Tbg.	3829.01				

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 **4010** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Feb. 11, 19**57** Put to producing **Feb. 8**, 19**57**

The production for the first 24 hours was **47.09** barrels of fluid of which **29.8**% was oil; _____% emulsion; _____% water; and **2**% sediment. Gravity, °Bé. **37.0**

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES (La Mance Drilling Co.)

F. E. Buffington, Driller **K. A. Head**, Driller
H. M. Chamley, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	713	713	Caliche, sand, redbed
713	1560	847	Redbed, shale
1560	2745	1185	Anhydrite, redbed, salt
2745	2890	145	Anhydrite, gyp
2890	3267	377	Gyp, lime, sand
3267	3286	19	Anhydrite, lime
3286	3331	45	Sandy lime, gyp, shale
3331	3385	54	Lime, gyp, anhydrite
3385	3704	319	Gyp, lime, shale
3704	4010	306	Lime, sand, gyp

(OVER)

16-43094-3

2 copies Simultaneous Radiation Log attached

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DENVER, COLORADO

	DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
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INTERFERING WITH THE PROSECUTION

The information given to you is a composite and not a copy of a single record. It may be determined from all available records.

The summary on this page for the condition of the well is as follows:

ON OF GAS SANDS IN ALBERTA

[illegible]

IMPORTANT WATER BODIES

$\alpha_1 = 1$ and $\alpha_2 = 0$ mod 8, $\beta_1 = 0$ and $\beta_2 = 1$ mod 8, $\gamma_1 = 1$ and $\gamma_2 = 0$ mod 8, $\delta_1 = 0$ and $\delta_2 = 1$ mod 8
 $\alpha_1 = 0$ and $\alpha_2 = 1$ mod 8, $\beta_1 = 1$ and $\beta_2 = 0$ mod 8, $\gamma_1 = 0$ and $\gamma_2 = 1$ mod 8, $\delta_1 = 1$ and $\delta_2 = 0$ mod 8

CASING RECORD

Serial	Weight in pounds	Threat- ing	Place	Amount	Kind of offense	Time of year	Season	Remarks
1	10							
2	10							
3	10							
4	10							
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 of explosion, and number of shots. If pins or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

HISTORY OF OIL OR GAS WELL

U.S. GOVERNMENT PRINTING OFFICE: 1969

[illegible]