

U. S. LAND OFFICE **Santa Fe**  
SERIAL NUMBER **077098-C**  
LEASE OR PERMIT TO PROSPECT


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 977, Farmington, New Mexico  
Lessor or Tract 12222 Field Alamo State New Mexico  
Well No. 3-A Sec. 11 T. 29R. 10<sup>th</sup> Meridian N. M. P. N. County Santa Fe  
Location 3994 ft. {N. of 9 Line and 1259 {E. of W. Line of Section 11 Elevation 5740'  
(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 \_\_\_\_\_ Title Petroleum Engineer  
Date January 5, 1952

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

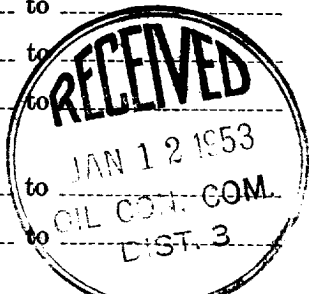
Commenced drilling 3-12, 19 51 Finished drilling 8-27, 19 52

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

No. 1, from 2153 to 2230 (G) No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 3777 to 4544 (G) 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>3-5/8</u>	<u>27.5</u>	<u>8</u>	<u>AMCO</u>	<u>1600</u>	<u>AMCO</u>	<u>0</u>			<u>Surface casing</u>
<u>2-1/2</u>	<u>19.5</u>	<u>8</u>	<u>AMCO</u>	<u>1500</u>	<u>AMCO</u>	<u>0</u>			<u>Production casing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>3-5/8</u>	<u>273</u>	<u>125</u>	<u>Circulated</u>		
<u>7'</u>	<u>3778</u>	<u>300</u>	<u>Single 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
<u>2-1/2</u>	<u>Reg.</u>	<u>R.M.B.</u>	<u>1600</u>	<u>8-27-52</u>	<u>3791-4621</u>	<u>4621</u>

TOOLS USED

Rotary tools were used from 0 feet to 3713 feet, and from 3713 feet to 4621 feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

8-29, 19 52 Put to producing \_\_\_\_\_, 19 \_\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours 357,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 973

EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller \_\_\_\_\_, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
<u>0</u>	<u>605</u>	<u>605</u>	<u>Varying sh w/ thin ss breaks.</u>
<u>605</u>	<u>770</u>	<u>165</u>	<u>Tan to gry cr-gr ss interbedded w/ gry sh.</u>
<u>770</u>	<u>1077</u>	<u>307</u>	<u>Ojo Alamo sandstone. Wk cr-gr sd. 2/Ojo Alamo 999.</u>
<u>1077</u>	<u>1850</u>	<u>773</u>	<u>Kirtland formation. Gry sh interbedded w/ tight gry f-gr sd. 2/Kirtland 1097.</u>
<u>1850</u>	<u>2153</u>	<u>303</u>	<u>Fruitland formation. Gry carb sh, scattered coal &amp; gry tight f-gr ss. 2/Fruitland 1090.</u>
<u>2153</u>	<u>2230</u>	<u>77</u>	<u>Pictured Cliffs formation. Gry f-gr tight vari soft ss. 2/Pictured Cliffs 2153.</u>
<u>2230</u>	<u>3777</u>	<u>1547</u>	<u>Lewis formation. Gry to sh dense sh w/ silty to shly ss breaks. 2/Lewis 2230.</u>
<u>3777</u>	<u>3934</u>	<u>157</u>	<u>Cliff House sandstone. Gry f-gr dense sil ss. 2/Cliff House 3777.</u>
<u>3934</u>	<u>4445</u>	<u>511</u>	<u>Manosco formation. Gry f-gr sd, carb sh &amp; coal. 2/Manosco 3934.</u>
<u>4445</u>	<u>4544</u>	<u>99</u>	<u>Point Lookout formation. Gry v f sil ss w/ freq sh breaks. 2/Point Lookout 4445.</u>
<u>4544</u>	<u>4621 23</u>	<u>77</u>	<u>Manosco formation. Gry carb sh. 2/Manosco 4544.</u>

FOLD | MARK

U. S. LAND OFFICE  
Serial Number  
Please see Permit to Prospect

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Grid for well location: 10 columns, 10 rows.

LOCATE WELL CORRECTLY

Company  
Lesson or Tract  
Well No.  
Location  
The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

Date  
Signed  
Title  
The summary on this page is for the condition of the well at above date

Commenced drilling  
Finished drilling

OIL OR GAS SANDS OR ZONES  
(Distinguish by (C))

Table with 2 columns: No. from, to. Rows for No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

IMPORTANT WATER SANDS

Table with 2 columns: No. from, to. Rows for No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

CASING RECORD

Table with columns: Casing, Weight per foot, Threads per inch, Make, Amount, Kind of steel, Cut and pulled from, Perforated, 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 "struck" or left in the well, give the date and reason. If the well has been dynamited, give date, size, position, and number of shots. If pipes 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

MUDDING AND CEMENTING RECORD

Table with columns: Casing, Weight, Water used, Number sacks of cement, Method used, Mud gravity, Amount of mud used.

PLUGS AND ADAPTERS

Table with columns: Adapter, Plug, Depth set.

SHOOTING RECORD

Table with columns: Size, Shot used, Explosives used, Quantity, Date, Depth shot, Depth cleaned out.

TOOLS USED

Table with columns: Rotary tools, Cable tools, Date, Depth.

NOTES

The production for the first 24 hours was...  
It gas well, out ft. per 24 hours...  
Rock pressure, lbs. per sq. in.

EMPLOYEES

Table with columns: Driller, Date.

FORMATION RECORD

Table with columns: FROM, TO, TOTAL FEET, FORMATION.

LOG MARK

