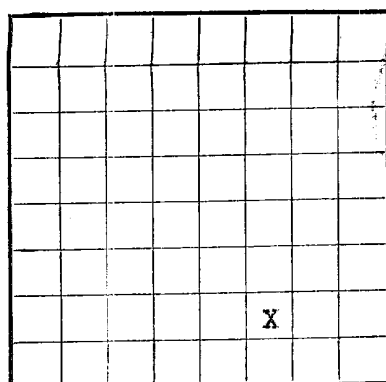




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Rincon Unit Field So. Blanco P.C. State New Mexico
Well No. 121 Sec. 23 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. (N.) of S Line and 1650 ft. (E.) of E Line of Section 23 Elevation 6694
(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.

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Signed Original Signed D. C. Johnston

Date July 11, 1958 Title Petroleum Engineer

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

Commenced drilling ----- 3-29-----, 19 53. Finished drilling ----- 4-3-----, 19 58.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3314 to 3392 (G) 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. 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	8 Rd.	J-55	3391'	Howe				Surface
5 1/2"	15.5	8 Rd.	J-55	3392'	Baker				Prod. msg.
1 1/4"	2.4	8 Rd.	Grade "A"	3391'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	132'	100	circulated		
5 1/2"	342'	150	single stage		

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
			See Well History			

TOOLS USED

Rotary tools were used from 0 feet to 3423 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

.....6-13....., 1958..... 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 1,850,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1073 A.O.F.--1901 MCF/D

EMPLOYEES

_____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	2620	2620	Tan to gry cr-grn ss interbedded w/gry sh.
2620	2834	214	Ojo Alamo ss. White cr-grn s.
2834	3035	201	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3035	3314	279	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3314	3392	78	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3392	3423	31	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.

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 "struck" 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 balling.

6-11-58 Perf. N.C. v/2 Dr./ft. Int. 3329-3345; 3354-3373; 3379-3385. Frac. w/27, 118 gal. water and 35,000# sand. Flush w/4928 gal. water. I.R. 51 B.P.M. B.D.P. 1450#, mix. 1450#, trtg. 1075#, 1200#, 1325#. Dropped one set of 20 balls and one set of 10 balls for 3 stages.

[illegible]

THE DEPT OF ENVIRONMENT

RECEIVED
JAN 10 1964

1. Introduction

2. **UNITED STATES DEPARTMENT OF AGRICULTURE**

100-44388-100

$$z = \frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix} \right) = \frac{1}{2} \begin{pmatrix} 1 & 1 \\ 1 & -1 \end{pmatrix}$$
[illegible]