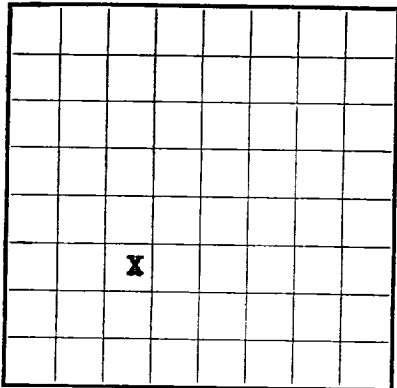


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **080537**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **El Paso Natural Gas Company** Address **Box 997, Farmington, New Mexico**
Lessor or Tract **San Juan 30-5 Unit** Field **Blanco** State **New Mexico**
Well No. **21-24** Sec. **24** T. **30N** R. **5W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1650** ft. **N** of **8** Line and **1700** ft. **E** of **W** Line of **Section 24** Elevation **7040'**
(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 R. G. MILLER**
Date **November 12, 1958** Title **Petroleum Engineer**

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

Commenced drilling **7-21-**, 19**58** Finished drilling **9-21-**, 19**58**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3778** to **4034 (G)** No. 4, from **6150** to **6418 (G)**
No. 2, from **5863** to **5932 (G)** No. 5, from to
No. 3, from **5932** to **6150 (G)** 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—	
10 3/4"	32.75	P.R.	S.V.	162'	Howco				Surface Intermediate Prod. Liner
7 5/8"	26.40	8 Rd.	J-55	4150'	Baker				
5 1/2"	15.50	8 Rd.	J-55	2411'	Baker				
2"	4.7	8 Rd.	J-55	6393'					Prod. tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	173'	120	Circulated		
7 5/8"	4161'	185	Single Stage		
5 1/2"	4073-6487'	300	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 **175** feet to **4161** feet, and from **4161** feet to **6490** feet
Cable tools were used from **0** feet to **175** feet, and from feet to feet

DATES

9-30-, 19**58** 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 **2,620,000** Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. **1174** **A.O.F.—4032 MCF/D**

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3106	3106	Tan to gry cr-grn ss interbedded w/gry sh.
3106	3313	207	Ojo Alamo ss. White cr-grn s.
3313	3610	297	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3610	3778	168	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3778	4034	256	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
4034	5863	1829	Levis formation. Gry to white dense sh w/silty to shaly ss breaks.
5863	5932	69	Cliff House ss. Gry, fine-grn, dense sil ss.
5932	6150	218	Manefee form. Gry, fine-grn s, carb sh & coal.
6150	6418	268	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
6418	6490	72	Mancos formation. Gry carb sh.

