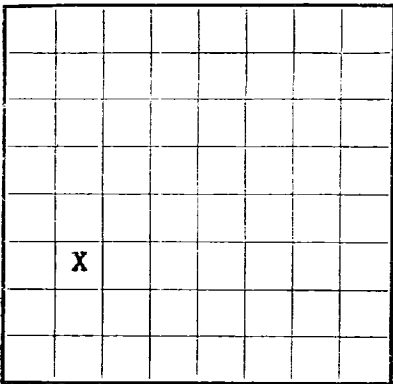


U. S. LAND OFFICE **Sante Fe**
SERIAL NUMBER **078739**
LEASE OR PERMIT TO PROSPECT



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 990 Farmington, New Mexico**
San Juan 30-5 Unit Field **Blanco Mesa Verde** State **New Mexico**
Lessor or Tract
Well No. **30-21** Sec. **21** T. **30N** R. **5 W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1840** ft. **N** of **S** Line and **890** ft. **E** of **W** Line of **Sec. 21** Elevation **6549**
(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 **R. H. MEANS**
Date **June 3, 1960** Title **Petroleum Engineer**

The summary on this page is for the condition of the well at above date.
Commenced drilling **4-17-60**, 19**60** Finished drilling **5-2-**, 19**60**

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

No. 1, from **3362** to **3618 (G)** No. 4, from **5708** to **5910 (G)**
No. 2, from **5392** to **5448 (G)** No. 5, from to
No. 3, from **5448** to **5708 (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"	38.75	P.E.	S.W.	161'	Henco				surface
7 5/8"	26.4	8 Rd.	J-55	3700'	Baker				Intermediate
5 1/2"	15.5	8 Rd.	J-55	2212'	Baker				Prod. liner
2 3/8"	4.7	8 Rd.	J-55	5830'					Prod. tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	173	185	Circulated		
7 5/8"	3732	180	single stage		
5 1/2"	3702-5914	212	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

TOOLS USED

Rotary tools were used from **0** feet to **3736** feet, and from **3736** feet to **5919** feet
Cable tools were used from feet to feet, and from feet to feet

DATES

5-8, 19**60** 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 **2,903,000** Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. **1166**

EMPLOYEES **A. O. E-3703 MCF/d**

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2593	2593	Tan to gry cr - grn ss interbedded w/gry sh.
2593	2788	195	Ojo Alamo ss. White cr-grn s.
2788	3115	327	Kirtland form Gry sh interbedded w/tight gry fine-grn ss.
3115	3362	247	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3362	3618	256	Pictured Cliffs form Gry, fine-grn, tight varicolored soft ss.
3618	5392	1774	Lewis formation. Gry, fine-grn, dense sil ss.
5392	5448	56	Cliff House ss. Gry, fine-grn, dense sil ss.
5448	5708	260	Manefee form. Gry, fine-grn s, carb sh & coal.
5708	5910	202	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5910	5919	9	Mancos formation. Gry carb sh.

[illegible]

Traced w/53,000 gal. water & 50,000 # sand. Flush 10,000 gal. water. I.R. 49.7 bbls/min. Max. pr. 3503 #, tr. pr. 2000-2300-2600 #. Used 2 sets of 10 balls. Set temp. bridge plug @ 5650'.

1954 1955 1956 1957 1958 1959