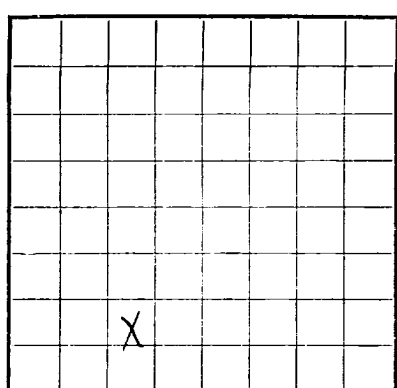


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078416-A**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **El Paso Natural Gas Company** Address **Box 997 Farmington, New Mexico**
Lessor or Tract **Hardie** Field **Blanco** State **New Mexico**
Well No. **5** Sec. **23** T. **29N** R. **8W** Meridian **N. M. P. M.** County **San Juan**
Location **990** ft. **N.** of **S.** Line and **1650** ft. **E.** of **W.** Line of **Section 23** Elevation **6428**
(Derrick float 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 **September 10, 1953**Title **Petroleum Engineer**

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

Commenced drilling **June 25**, 19**53** Finished drilling **July 17**, 19**53**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3020** to **3112 (G)** No. 4, from **5276** to **5377 (G)**
No. 2, from **4696** to **4894 (G)** No. 5, from _____ to _____
No. 3, from **4894** to **5276 (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—	
9-5/8"	25.4	S. W.	Armco	162'	Armco				Surface
7"	23	8	Armco	680'	Baker				Prod. Log.
7"	18	8	Armco	1493'	Baker				Prod. Log.
2"	4.7	8	Youngst.	5403'					Prod. Log.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	173'	130	Circulated		
7"	4765'	500	Sing. 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
4t.	Regular	S. M. G.	1746	7-18	4806-5510	5510

TOOLS USED

Rotary tools were used from _____ feet to **4765** feet, and from **4765** feet to **5510** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____ **July 19**, 19**53** 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 **5,690,000** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **1025**

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	960	960	Tan cr-grn ss w/thin sh breaks.
960	1895	935	Variegated sh w/thin ss breaks.
1895	2055	160	Tan to gry cr-grn ss interbedded w/gry sh.
2055	2200	145	Ojo Alamo ss. Wh cr-grn s. Top Ojo Alamo 2055.
2200	2630	430	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss. Top Kirtland 2200.
2630	3020	390	Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss. Top Fruitland 2630.
3020	3112	92	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss. Top Pictured Cliffs 3020.
3112	4696	1584	Lewis formation. Gry to wh dense sh w/silty to shaly ss breaks. Top Lewis 3112.
4696	4894	198	Cliff House ss. Gry, fine-grn, dense sil ss. Top of Cliff House 4696.
4894	5276	382	Menefee formation. Gry, fine-grn s, carb sh and coal. Top Menefee 4894.
5276	5377	101	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks. Top Point Lookout 5276.
5377	5510	133	Mancos formation. Gry carb sh. Top Mancos 5377.