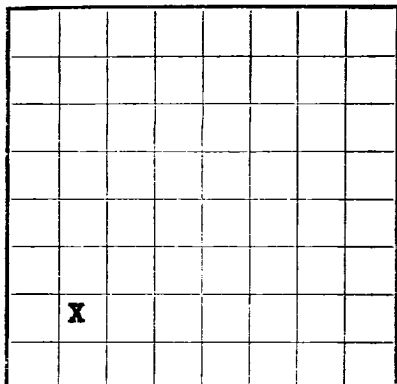


U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **078278**

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**
Lessor or Tract **San Juan 29-6 Unit** Field **Blanco Mesa Verde** State **New Mexico**
Well No. **31** Sec. **10** T. **29-N** R. **6-W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **890** ft. ^[N.] of **S** Line and **1100** ft. ^[E.] of **W** Line of **Section 10** Elevation **6559**
_(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. **W. G. MILLER**
Signed _____

Date **June 23, 1961**Title **Petroleum Engineer**

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

Commenced drilling **4-4**, 19**61** Finished drilling **4-18**, 19**61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3452** to **3595 (G)** No. 4, from **5610** to **5751 (G)**
No. 2, from **5241** to **5328 (G)** No. 5, from _____ to _____
No. 3, from **5328** to **5610 (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"	32.3	8 1/2	4-40	330	Reamer	Surface			Surface
7"	20	8 1/2	4-55	2705	Reamer	Intermediate			Intermediate
2 7/8"	6.4	8 1/2	4-55	5796	Reamer	Prod casing			Prod casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	292	320	circulated		
7"	3713	105	single stage		
2 7/8"	5808	230	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
5292-5304; 5316-5326;		Frac. Mesa Verde perfor. w/75,560 gallons water. BHP 1000#, max				
5616-5624; 5704-5712;		pr 4000#, avg tr pr 2500#. I.R. 13.7 BPM. 5 stages. Dropped				
5716-5726; 5732-5742;		110 balls				

TOOLS USED

Rotary tools were used from **0** feet to **3713** feet, and from **3713** feet to **5815** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

S.I. **5-2**, 19**61** 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 **1,746,000** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **1055** **A.O.F. 1797 MCF/D**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2500	2500	Tan to gry cr-grn ss interbedded w/gry sh.
2500	2747	247	Ojo Alamo ss. White cr-grn s.
2747	3110	363	Kirtland form, Gry sh interbedded w/tight gry fine-grn ss.
3110	3452	342	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3452	3595	143	Pictured Cliffs forms Gry, fine-grn, tight, varicolored soft ss.
3595	5241	1646	Lewis form. Gry, fine-grn, dense sil ss
5241	5328	87	Cliff House ss. Gry, fine-grn, dense sil ss.
5328	5610	282	Manefee form. Gry, fine-grn s, carb sh & coal.
5610	5751	141	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5751	5815	64	Mancos form. Gry carb sh.