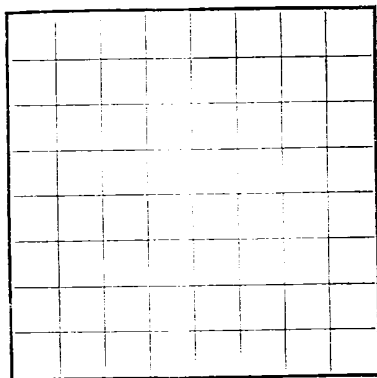


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **079354**
LEASE OR PERMIT TO PROSPECT



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 990, Farmington, New Mexico**
Lessor or Tract **Rincon Unit** Field **Basin Dakota** State **New Mexico**
Well No. **177** Sec. **31** T. **27N** R. **6W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **990** ft. **XX** of **N** Line and **1180** ft. **XX** of **E** Line of **Section 31** Elevation **6659**
(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 _____

Date **December 5, 1962** Title **Petroleum Engineer**

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

Commenced drilling **8-13**, 19**62** Finished drilling **9-6**, 19**62**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **7300** to **7428 (G)** No. 4, from _____ to _____
No. 2, from **7428** to **7520 (G)** No. 5, from _____ to _____
No. 3, from _____ to _____ 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 rd	H-40	303	Howco				Surface
5 1/2"	15.5	7.20 8 rd	J-55, N-80	7718	Baker				Prod. casing
2 3/8"	4.5	8 rd	J-55	7532					Prod. tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	317	210	circulated		
5 1/2"	7729	440	3 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
Acidizing: Perfs 7670-88 (2 SFF); Spotted 500 gal HCL, BD 1800#, Pumped acid in @ 2300#						
Perf 7542-48 (2 SFF); 7515-21; 7504-08 (3 SFF); 7460-66; 7374-80 (2 SFF); Frac w/59,704 gal water, 75,000# sd. Flush w/7500 gal water, IR 47.3 BPM. Max pr 3800#, BDP 700#, tr pr 260-3800, 4 drops of 12 balls.						

TOOLS USED

Rotary tools were used from **0** feet to **7729** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

10-23, 19**62** 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 **5,664,000** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **2280 csg.** A.O.F. **7083 MCF/D**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2429	2429	Tan to gry cr-grn ss interbedded w/gry sh.
2429	2515	87	Ojo Alamo ss. White cr-grn s.
2515	2894	378	Kirtland form. Gry sh interbedded w/tight gry fin grn ss.
2894	3115	222	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3115	3151	35	Pictured Cliffs forms. Gry, fine-grn & tight, varicolored soft ss.
3151	4772	1621	Lewis form. Gry, fine-grn, dense sil ss.
4772	4921	149	Cliff House ss. Gry, fine-grn, dense sil ss.
4921	5350	429	Menefee form, Gry, fine-grn s, carb sh & coal.
5350	5472	122	Point Lookout form, Gry, very fine sil ss w/frequent sh breaks.
5472	5475	1004	Mancos form, Gry carb sh.
5475	7243	767	Gallup form, Lt gry to brn calc carb micac glauco very fine gry ss w/irreg interbed sh.
7243	7300	57	Greenhorn form, Highly calc gry sh w/thin lmst.
7300	7428	128	Greenhorn form. Dk gry shale, fossil & carb w/grite incl.
7428	7520	192	Dakota form. Lt to dk gry foss carb sl calc sl wilty ss w/grite incl thin sh bands clay & shale breaks.
7520	7729	109	Morrison form. Interbed grn brn and red waxy sh & fr to cr grnsand.

