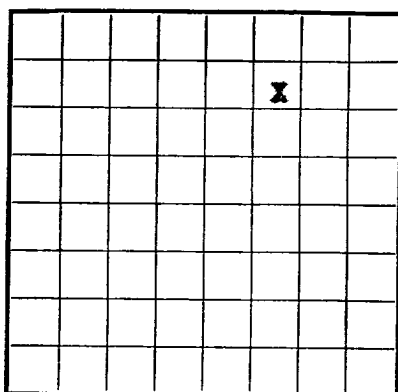




LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Ludwick Field Basin Dakota State New Mexico
Well No. 19 Sec. 5 T. 29N R. 10W Meridian N.M.P.M. County San Juan
Location 890 ft. 655 [S.] of 1 Line and 1800 ft. 655 [W.] of 1 Line of Section 5 Elevation 5911
(Permit foot 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.

Original Signed R. G. MILLER

Signed _____

Date **October 17, 1961** Title **Petroleum Engineer**

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

Commenced drilling 8-21-....., 19 61 Finished drilling 9-11-....., 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6747 to 6951 (a) No. 4, from _____ to _____
 No. 2, from _____ to _____ 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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5/8"	303	200	circulated		
1 1/2"	6951	470	2 stages		

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
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6904-6896;6859-51; Frac Dakota w/37,500 gal water, 20,000# sd. IR 9 BPM. Flush w/4494 gal.
6832-24;6814-06; MP 3800#, BDP 3700#, w p 3800#
6692-6700;6716-24; Frac w/54,400 gal water, 60,000# sd. FI w/4440 gal. IR 41 BPM. MP
6710-18;6751-59; 4000#, BDP 1500#, w p 3800-3600-3900-4000#.

Rotary tools were used from 0 feet to 6951 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing	19
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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 2,31,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2,231 (1,210) 1,075 2,206 (1,210)

EMPLOYEES

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

FORMATION RECORD

FORMATION RECORD			
FROM-	TO-	TOTAL FEET	FORMATION
0	1229	1229	Tan to gry cr-grn ss interbedded w/gry sh.
1229	2059	830	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2059	2323	264	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2323	3961	1638	Pictured Cliffs forms. Gry, fine-grn, tight varicolored soft ss.
3961	4071	110	Cliff House form. Gry, fine-grn, dense sil ss
4071	4600	529	Mogessie form. Gry, fine-grn, s carb sh & coal.
4600	4700	100	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4700	5840	1140	Mancos form. Gry carb sh.
5840	6632	792	Gallup form. Lt gry to brn calc barb micac glance very fine gry s w/irreg interbed sh.
6632	6747	115	Greenhorn form. Highly calc gry sh w/thin lmst.
6747	6951	204	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/write incl thin sh bancs clay & shale breaks.

[OVER]

Figure 1