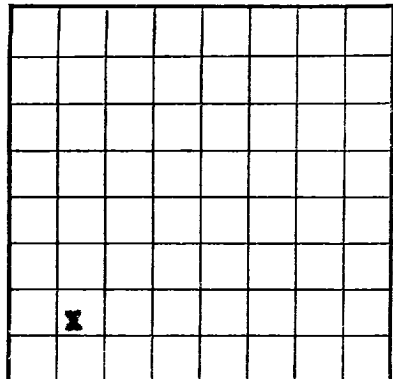


Form 9-330

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 078835  
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 P. O. Box 997, Farmington, New Mexico  
Lessor or Tract Howell Field Blanco State New Mexico  
Well No. 1-F Sec. 1 T. 27N R. 3W Meridian N.M.P.M. County San Juan  
Location 990 ft. N. of 3 Line and 990 ft. E. of W Line of Section 1 Elevation 6635  
(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 L. F. Stone  
Title Petroleum Engineer

Date April 4, 1952

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

Commenced drilling July 13, 1951 Finished drilling August 22, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2290 to 3025 (G) No. 4, from 5234 to 5370 (G)  
No. 2, from 4620 to 4690 (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	36	8	NATL	298	Ballb				Surface
6-5/8	20	8	NATL	4587	Ballb				Prod
2	4.7	8		9347					Prod
2				5347					Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	303	150	Single		
6-5/8	300	300	Single		

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
4 1/2	Bag	BBG	1350	3-22-51	4646-5366	5370

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from Gas Circulation \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

\_\_\_\_\_ 1952 Put to producing \_\_\_\_\_, 19\_\_\_\_  
April 1

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 324,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. 942 psig

EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
Pool \_\_\_\_\_, Driller  
Over \_\_\_\_\_, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	420	420	Tan coarse gr ss w/thin sh breaks.
420	975	555	Variog sh w/thin ss breaks.
975	2091	1116	Tan to gry cr-gr ss interbedded w/gry sh.
2091	2222	131	Ojo Alamo ss. White cr-gr sd. T/Ojo Alamo 2091.
2222	2755	533	Kirtland formation. Gry sh interbedded w/tight gry f gr ss. T/Kirtland 2222.
2755	2990	235	Fruitland formation. Gry carb sh, scattered coals & tight gry, f-gr ss. T/Fruitland 2755.
2990	3025	35	Pictured Cliffs Formation. Gry, f-gr, tight, varie soft ss. T/Pictured Cliffs 2990.
3025	4620	1595	Levis formation. Gry to white dense sh w/silty to shly ss breaks.
4620	4690	70	Cliff House sandstone. Gry f-gr, dense silic ss. T/CH 4620.
4690	5234	544	Manefee formation. Gry, f-gr sd, carb sh & coal. T/Manefee 4690.
5234	5370 TD	136	Point Lookout formation. Gry, v f silic ss w/frequent sh breaks. T/PL 5234.