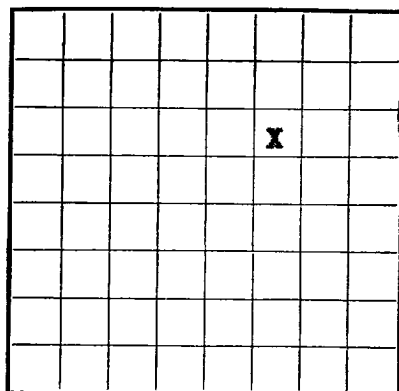
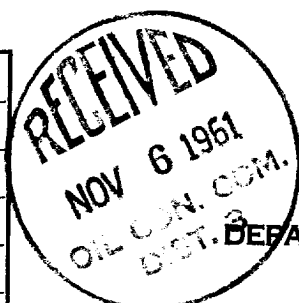




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078387**
LEASE OR PERMIT TO PROSPECTUNITED 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 **Howell "D"** Field **Blanco-LaPlata** State **New Mexico**
Well No. **4** Sec. **33** T. **31N** R. **8W** Meridian **N.M.P.M.** County **San Juan**
Location **1650** ft. **XXX** of **N** Line and **1650** ft. **XX** of **E** Line of **Section 33** Elevation **6272**
(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 **Original Signed R. G. MILLER**

Date **November 1, 1961** Title **Petroleum Engineer**

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

Commenced drilling **8-29-**, 19**51** Finished drilling **10-12-**, 19**51**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4838** to **5042 (G)** No. 4, from _____ to _____
No. 2, from **5042** to **5460 (G)** No. 5, from _____ to _____
No. 3, from **5460** to **5536 (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"	35	8	H-40	250	Baker				Surface
7"	26	8	J-55	1800	Baker				Intermediate
4 1/2"	10.5	8	J-55	5825	Baker				Intermediate
2 3/8"	4.7	8	J-55	5479	Baker				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"	263	150	circulated		
7"	4855	300	single stage		
4 1/2"	5536	530	2 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
5326-34; 5342-50;	Frac Mass Verde w/77,600 gal water, 80,000# sand. Flushed w/5000 gal					
5362-70; 5392-5400;	water. IR 50 BPM. Max pr 2500#, BDP 1500#, tr pr 2000#. Dropped					
5432-40; 5470-78;	6 of 16, 1 of 10 balls - 7 stages. Spotted 300 gal BDA acid across perf.					

TOOLS USED

Rotary tools were used from **0** feet to **4920** feet, and from **4920 (Gas)** feet to **5536** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

9-21-, 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 **3,115,000** Gallons gasoline per 1,000 cu. ft. of gas _____

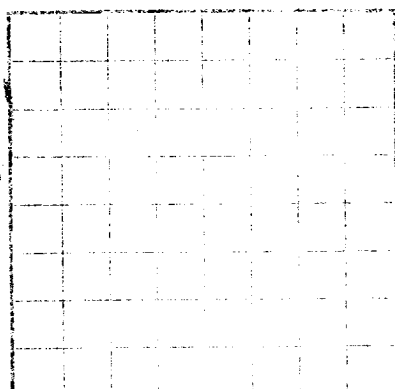
Rock pressure, lbs. per sq. in. **927 (csg)** **A.O.F. 4872 MCF/D**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3120	3120	Tany to gry cr-grn ss interbedded w/gry sh.
3120	3235	115	Pictured Cliffs forms. Gry, fine-grn, tight varicolored soft ss.
3235	4838	1603	Lewis form. Gry, fine-grn dense sil ss.
4838	5042	204	Cliff House ss. Gry, fine-grn dense sil ss.
5042	5460	418	Menafee form. Gry, fine-grn s, carb sh & coal.
5460	5536	76	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.



TOG OF OF

X. 1977-1980, 11, 1977, 21

Name _____
 Address _____
 City _____ State _____ Zip _____
 Telephone _____
 E-mail _____
 Date _____

1. THESE ARE THE QUESTIONS TO BE ASKED OF THE COMMISSIONER OF THE REVENUE DEPARTMENT IN THE STATE OF NEW YORK IN THE YEAR 1917 AND 1918 AND 1919 AND 1920 AND 1921 AND 1922 AND 1923 AND 1924 AND 1925 AND 1926 AND 1927 AND 1928 AND 1929 AND 1930 AND 1931 AND 1932 AND 1933 AND 1934 AND 1935 AND 1936 AND 1937 AND 1938 AND 1939 AND 1940 AND 1941 AND 1942 AND 1943 AND 1944 AND 1945 AND 1946 AND 1947 AND 1948 AND 1949 AND 1950 AND 1951 AND 1952 AND 1953 AND 1954 AND 1955 AND 1956 AND 1957 AND 1958 AND 1959 AND 1960 AND 1961 AND 1962 AND 1963 AND 1964 AND 1965 AND 1966 AND 1967 AND 1968 AND 1969 AND 1970 AND 1971 AND 1972 AND 1973 AND 1974 AND 1975 AND 1976 AND 1977 AND 1978 AND 1979 AND 1980 AND 1981 AND 1982 AND 1983 AND 1984 AND 1985 AND 1986 AND 1987 AND 1988 AND 1989 AND 1990 AND 1991 AND 1992 AND 1993 AND 1994 AND 1995 AND 1996 AND 1997 AND 1998 AND 1999 AND 2000 AND 2001 AND 2002 AND 2003 AND 2004 AND 2005 AND 2006 AND 2007 AND 2008 AND 2009 AND 2010 AND 2011 AND 2012 AND 2013 AND 2014 AND 2015 AND 2016 AND 2017 AND 2018 AND 2019 AND 2020 AND 2021 AND 2022 AND 2023 AND 2024 AND 2025 AND 2026 AND 2027 AND 2028 AND 2029 AND 2030 AND 2031 AND 2032 AND 2033 AND 2034 AND 2035 AND 2036 AND 2037 AND 2038 AND 2039 AND 2040 AND 2041 AND 2042 AND 2043 AND 2044 AND 2045 AND 2046 AND 2047 AND 2048 AND 2049 AND 2050 AND 2051 AND 2052 AND 2053 AND 2054 AND 2055 AND 2056 AND 2057 AND 2058 AND 2059 AND 2060 AND 2061 AND 2062 AND 2063 AND 2064 AND 2065 AND 2066 AND 2067 AND 2068 AND 2069 AND 2070 AND 2071 AND 2072 AND 2073 AND 2074 AND 2075 AND 2076 AND 2077 AND 2078 AND 2079 AND 2080 AND 2081 AND 2082 AND 2083 AND 2084 AND 2085 AND 2086 AND 2087 AND 2088 AND 2089 AND 2090 AND 2091 AND 2092 AND 2093 AND 2094 AND 2095 AND 2096 AND 2097 AND 2098 AND 2099 AND 2100 AND 2101 AND 2102 AND 2103 AND 2104 AND 2105 AND 2106 AND 2107 AND 2108 AND 2109 AND 2110 AND 2111 AND 2112 AND 2113 AND 2114 AND 2115 AND 2116 AND 2117 AND 2118 AND 2119 AND 2120 AND 2121 AND 2122 AND 2123 AND 2124 AND 2125 AND 2126 AND 2127 AND 2128 AND 2129 AND 2130 AND 2131 AND 2132 AND 2133 AND 2134 AND 2135 AND 2136 AND 2137 AND 2138 AND 2139 AND 2140 AND 2141 AND 2142 AND 2143 AND 2144 AND 2145 AND 2146 AND 2147

AMONG 50, 20, 240, 50, 70

From	To	Amount	Balance
100.00	100.00	100.00	100.00
100.00	100.00	100.00	100.00
100.00	100.00	100.00	100.00

IMPORTANT WANTED BANNER

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	2. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	3. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	4. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
5. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	6. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	7. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	8. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

0800.00 01184

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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of retiling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was detached, or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-43084-2

[illegible]