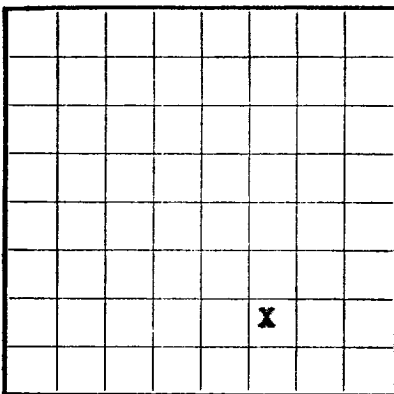
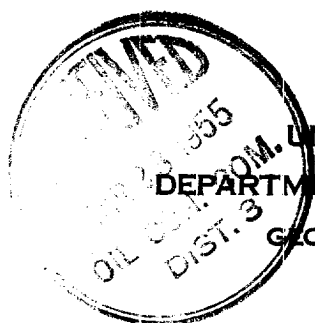
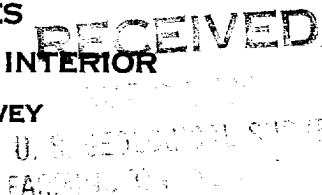


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078095
LEASE OR PERMIT TO PROSPECT _____

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 997, Farmington, New Mexico
Lessor or Tract Case Field Blanco State New Mexico
Well No. 4 Sec. 18 T. 31N R. 11W Meridian NBPM County San Juan
Location 990 ft. N. of S Line and 1750 ft. E. of S Line of Section 18 Elevation 6104'
(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 Emil H. WalshDate March 17, 1955 Title Petroleum Engineer

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

Commenced drilling February 6, 1955 Finished drilling February 27, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2687 to 2782 (G) No. 4, from 4805 to 5060 (G)
No. 2, from 4265 to 4430 (G) No. 5, from _____ to _____
No. 3, from 4430 to 4805 (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	25.4#	S.W.	Armco	162'	Howco				Surface
7	23	8 RD	Armco	1671'	Howco				Surface
7	23	8 RD	Armco	1713'	Howco				Surface
2 3/8	4.7#	8 RD	Youngstown	507'	Howco				Producing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	172'	125	Circulated		
7	4800'	500	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
		See Well History.				

TOOLS USED

Gas DrilledRotary tools were used from 0 feet to 4800 feet, and from 4800 feet to 5060 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 1, 1955 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 3,400,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1052

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	555	555	Tan cr-grn ss w/thin sh breaks.
555	1276	721	Variegated sh w/thin ss breaks.
1276	1872	596	Tan to gry cr-grn ss interbedded w/gry sh.
1872	1948	76	Ojo Alamo ss. White cr-grn s.
1948	2222	274	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2222	2687	465	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2687	2782	95	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2782	4265	1483	Lewis form. Gry to white dense sh w/silty to shaly ss breaks.
4265	4430	165	Cliff House ss. Gry, fine-grn, dense sil ss.
4430	4805	375	Maneue form. Gry, fine-grn s, carb sh & coal.
4805	5060	255	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5060	5080	20	Mancoes formation. Gry carb sh.

PLEASE OR PERMIT TO PROCEED
SERIAL NUMBER
U.S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WITH CORRECTION

[illegible]

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 _____

Location ft [S] of [N] line and [W] of [E] line of _____ Pine of _____ Elevation _____

Well No. _____ Sec. _____ T. _____ R. _____ N. _____ E. _____

Lessor or Trust _____ Right _____ State _____ County _____

Company _____ Address _____

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

Finished drilling 19--

Completed drilling 19--

Base of hole 19--

Top of hole 19--

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

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Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

CONFIDENTIAL

..... 63 $\text{mol}^{-1} \text{C}_2\text{H}_5\text{O}^{\text{H}}$ 63 $\text{mol}^{-1} \text{C}_2\text{H}_5\text{O}^{\text{H}}$ 63

Rate 6.4 bps./min. Flush with 1200 gallons. Natural 98 MCF/D. and 12,000 sand. Breakdown pressure 2750 psi. Maximum pressure 2600 psi, Injection 4710 (697). Interval tested 1000 - 2000 with 12,000 gallons. 2 diesel oil 4710 (697). Total depth 5000. Sandalled point lookouts. Retainer set at 1000.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, 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 "sidetracked" 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

[illegible]