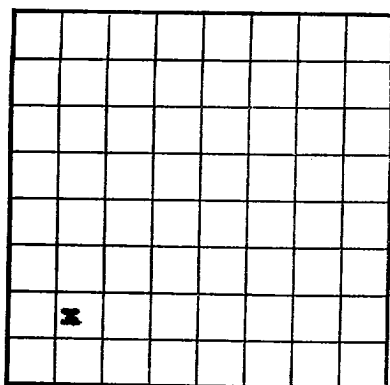


U. S. LAND OFFICE Santa FeSERIAL NUMBER 078046

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 Hughes Field Blanco State New Mexico
Well No. 4 Sec. 20 T. 29 R. 8 Meridian N.M.P.M. County San Juan
Location 990 ft. ^[N.] of S. Line and 990 ft. ^[E.] of W. Line of Section 20 Elevation 6485
(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 H. E. LockertDate April 22, 1953Title Petroleum Engineer

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

Commenced drilling 3-2-53, 19____ Finished drilling March 16, 1953

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3053 to 3088 (G) No. 4, from _____ to _____
No. 2, from 4696 to 4804 (G) No. 5, from _____ to _____
No. 3, from 5286 to 5411 (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—	
<u>9 5/8</u>	<u>25.4</u>	<u>8 R</u>	<u>S. W.</u>	<u>162</u>	<u>ARCO</u>				<u>Surface</u>
<u>7</u>	<u>25</u>	<u>8 R</u>	<u>Spang</u>	<u>4597</u>	<u>DAKER</u>				<u>Production</u>
<u>2</u>	<u>4.5</u>	<u>8 R</u>	<u>Nat.</u>	<u>5358</u>					<u>Tubing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9 5/8</u>	<u>173'</u>	<u>150</u>	<u>Circulated</u>		
<u>7</u>	<u>4607</u>	<u>300</u>	<u>Sing. Stage</u>		

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
<u>Quart</u>	<u>Regular</u>	<u>3.N.G.</u>	<u>1770</u>	<u>3-17-53</u>	<u>4651-5431</u>	<u>5431</u>

Natural Gas 486 MCF.

TOOLS USED

Rotary tools were used from 0 feet to 4607 feet, and from 4607 feet to 5431 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ 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 4,687,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1039 psi

EMPLOYEES

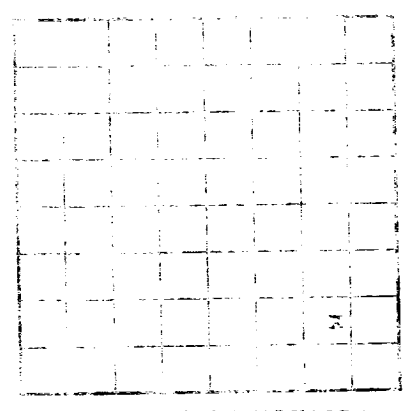
_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>645</u>	<u>645</u>	<u>Tan cr-grn ss w/thin sh breaks.</u>
<u>645</u>	<u>1426</u>	<u>781</u>	<u>Variegated sh w/thin ss breaks.</u>
<u>1426</u>	<u>2000</u>	<u>574</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>2000</u>	<u>2150</u>	<u>150</u>	<u>Ojo Alamo ss. Wh cr-grn s. Top Ojo Alamo 2000.</u>
<u>2150</u>	<u>2750</u>	<u>600</u>	<u>Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss. Top Kirtland 2150.</u>
<u>2750</u>	<u>3053</u>	<u>303</u>	<u>Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss. Top Fruitland 2750.</u>
<u>3053</u>	<u>3088</u>	<u>35</u>	<u>Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss. Top Pictured Cliffs 3053.</u>
<u>3088</u>	<u>4656</u>	<u>1568</u>	<u>Lewis formation. Gry to wh dense sh w/silty to shaly ss breaks. Top Lewis 3088.</u>
<u>4656</u>	<u>4804</u>	<u>148</u>	<u>Cliff House ss. Gry, fine-grn, dense sil ss. Top of Cliff House 4656.</u>
<u>4804</u>	<u>5286</u>	<u>482</u>	<u>Mansfee formation. Gry, fine-grn s, carb sh and coal. Top Mansfee 4804.</u>
<u>5286</u>	<u>5411</u>	<u>125</u>	<u>Point Lookout formation. gry, very fine sil ss w/frequent sh breaks. Top Point Lookout 5286.</u>
<u>5411</u>	<u>5431</u>	<u>20</u>	<u>Mancos formation. Gry carb sh. Top Mancos 5411.</u>

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES



Locate well correctly
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: *H. E. Roberts*
Title: *Geologist*

OIL OR GAS SANDS OR ZONES

100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top

IMPORTANT WATER SANDS

100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top
100 ft. from top	to	100 ft. from top

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, the type, and if any casing was "detached" or left in the well, give its size and location. If the well has been dynamited, give its size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and reason for plugging or bailing.

HISTORY OF OIL OR GAS WELL

DATE	DESCRIPTION	DEPTH	FORMATION
1900	Drilled to 100 ft.	100	Shale
1901	Drilled to 200 ft.	200	Shale
1902	Drilled to 300 ft.	300	Shale
1903	Drilled to 400 ft.	400	Shale
1904	Drilled to 500 ft.	500	Shale
1905	Drilled to 600 ft.	600	Shale
1906	Drilled to 700 ft.	700	Shale
1907	Drilled to 800 ft.	800	Shale
1908	Drilled to 900 ft.	900	Shale
1909	Drilled to 1000 ft.	1000	Shale
1910	Drilled to 1100 ft.	1100	Shale
1911	Drilled to 1200 ft.	1200	Shale
1912	Drilled to 1300 ft.	1300	Shale
1913	Drilled to 1400 ft.	1400	Shale
1914	Drilled to 1500 ft.	1500	Shale
1915	Drilled to 1600 ft.	1600	Shale
1916	Drilled to 1700 ft.	1700	Shale
1917	Drilled to 1800 ft.	1800	Shale
1918	Drilled to 1900 ft.	1900	Shale
1919	Drilled to 2000 ft.	2000	Shale
1920	Drilled to 2100 ft.	2100	Shale
1921	Drilled to 2200 ft.	2200	Shale
1922	Drilled to 2300 ft.	2300	Shale
1923	Drilled to 2400 ft.	2400	Shale
1924	Drilled to 2500 ft.	2500	Shale
1925	Drilled to 2600 ft.	2600	Shale
1926	Drilled to 2700 ft.	2700	Shale
1927	Drilled to 2800 ft.	2800	Shale
1928	Drilled to 2900 ft.	2900	Shale
1929	Drilled to 3000 ft.	3000	Shale
1930	Drilled to 3100 ft.	3100	Shale
1931	Drilled to 3200 ft.	3200	Shale
1932	Drilled to 3300 ft.	3300	Shale
1933	Drilled to 3400 ft.	3400	Shale
1934	Drilled to 3500 ft.	3500	Shale
1935	Drilled to 3600 ft.	3600	Shale
1936	Drilled to 3700 ft.	3700	Shale
1937	Drilled to 3800 ft.	3800	Shale
1938	Drilled to 3900 ft.	3900	Shale
1939	Drilled to 4000 ft.	4000	Shale
1940	Drilled to 4100 ft.	4100	Shale
1941	Drilled to 4200 ft.	4200	Shale
1942	Drilled to 4300 ft.	4300	Shale
1943	Drilled to 4400 ft.	4400	Shale
1944	Drilled to 4500 ft.	4500	Shale
1945	Drilled to 4600 ft.	4600	Shale
1946	Drilled to 4700 ft.	4700	Shale
1947	Drilled to 4800 ft.	4800	Shale
1948	Drilled to 4900 ft.	4900	Shale
1949	Drilled to 5000 ft.	5000	Shale
1950	Drilled to 5100 ft.	5100	Shale
1951	Drilled to 5200 ft.	5200	Shale
1952	Drilled to 5300 ft.	5300	Shale
1953	Drilled to 5400 ft.	5400	Shale
1954	Drilled to 5500 ft.	5500	Shale
1955	Drilled to 5600 ft.	5600	Shale
1956	Drilled to 5700 ft.	5700	Shale
1957	Drilled to 5800 ft.	5800	Shale
1958	Drilled to 5900 ft.	5900	Shale
1959	Drilled to 6000 ft.	6000	Shale
1960	Drilled to 6100 ft.	6100	Shale
1961	Drilled to 6200 ft.	6200	Shale
1962	Drilled to 6300 ft.	6300	Shale
1963	Drilled to 6400 ft.	6400	Shale
1964	Drilled to 6500 ft.	6500	Shale
1965	Drilled to 6600 ft.	6600	Shale
1966	Drilled to 6700 ft.	6700	Shale
1967	Drilled to 6800 ft.	6800	Shale
1968	Drilled to 6900 ft.	6900	Shale
1969	Drilled to 7000 ft.	7000	Shale
1970	Drilled to 7100 ft.	7100	Shale
1971	Drilled to 7200 ft.	7200	Shale
1972	Drilled to 7300 ft.	7300	Shale
1973	Drilled to 7400 ft.	7400	Shale
1974	Drilled to 7500 ft.	7500	Shale
1975	Drilled to 7600 ft.	7600	Shale
1976	Drilled to 7700 ft.	7700	Shale
1977	Drilled to 7800 ft.	7800	Shale
1978	Drilled to 7900 ft.	7900	Shale
1979	Drilled to 8000 ft.	8000	Shale
1980	Drilled to 8100 ft.	8100	Shale
1981	Drilled to 8200 ft.	8200	Shale
1982	Drilled to 8300 ft.	8300	Shale
1983	Drilled to 8400 ft.	8400	Shale
1984	Drilled to 8500 ft.	8500	Shale
1985	Drilled to 8600 ft.	8600	Shale
1986	Drilled to 8700 ft.	8700	Shale
1987	Drilled to 8800 ft.	8800	Shale
1988	Drilled to 8900 ft.	8900	Shale
1989	Drilled to 9000 ft.	9000	Shale
1990	Drilled to 9100 ft.	9100	Shale
1991	Drilled to 9200 ft.	9200	Shale
1992	Drilled to 9300 ft.	9300	Shale
1993	Drilled to 9400 ft.	9400	Shale
1994	Drilled to 9500 ft.	9500	Shale
1995	Drilled to 9600 ft.	9600	Shale
1996	Drilled to 9700 ft.	9700	Shale
1997	Drilled to 9800 ft.	9800	Shale
1998	Drilled to 9900 ft.	9900	Shale
1999	Drilled to 10000 ft.	10000	Shale