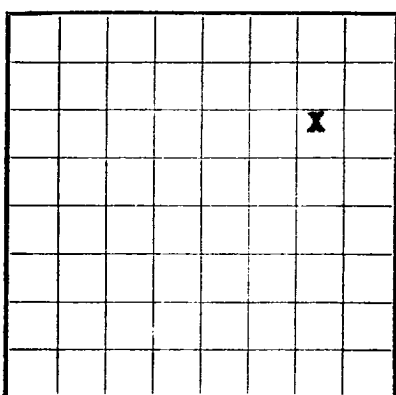


U. S. LAND OFFICE **Santa Fe**SERIAL NUMBER **078096**

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 **Mudge** Field **Blanco** State **New Mexico**
Well No. **14** Sec. **21** T. **31N** R. **11W** Meridian **NMPN** County **San Juan**
Location **1500** ft. **S.** of **N** Line and **800** ft. **E.** of **E** Line of **Section 21** Elevation **5951'**
(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 **J. J. J. J. J.** Title **Petroleum Engineer**Date **April 4, 1955**

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

Commenced drilling **February 24**, 19**55** Finished drilling **March 9**, 19**55**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2563** to **2635 (G)** No. 4, from **4788** to **4945 (G)**
No. 2, from **4160** to **4324 (G)** No. 5, from _____ to _____
No. 3, from **4324** to **4788 (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"	25.44	8 W.	Araco	161'	Howco				Surface
7"	20.4	8 W.	Araco	1011'	Howco				Producing
2"	4.7	8 RD	Youngstown	4980'					Prod. Tbg.

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"	4690'	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 Drilled

Rotary tools were used from **0** feet to **4690** feet, and from **4690** feet to **4980** feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 10, 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 **4,295,000** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **1037**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	985	985	Tan cr-grn ss w/thin ss breaks.
985	1173	188	Variegated sh w/thin ss breaks.
1173	1507	334	Tan to gry cr-grn ss interbedded v/gry sh.
1507	1607	100	Ojo Alamo ss. White cr-grn s.
1607	2126	519	Kirtland form. Gry sh interbedded v/tight gry fine-grn ss.
2126	2563	437	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2563	2635	72	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2635	4160	1525	Lewis form. Gry to white dense sh w/silty to shaly ss breaks.
4160	4324	164	Cliff House ss. Gry, fine-grn, dense sil ss.
4324	4788	464	Manefee form. Gry, fine-grn s, carb sh & coal.
4788	4945	157	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
4945	4990 T.D.	45	Mancos formation. Gry carb sh.
	4980	35	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY.

[illegible]

The company on this page is for the collection of the well as above.

ONE OF THE RANGE FIRE TOWNS

1900-1901

1902-1903

1904-1905

1906-1907

1908-1909

1910-1911

1912-1913

1914-1915

1916-1917

1918-1919

1920-1921

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2100-2101

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2104-2105

2106-2107

2108-2109

2110-2111

2112-2113

2114-2115

2116-2117

2118-2119

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2160-2161

2162-2163

2164-2165

2166-2167

2168-2169

2170-2171

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2178-2179

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2196-2197

2198-2199

2200-2201

2202-2203

2204-2205

2206-2207

2208-2209

2210-2211

2212-2213

2214-2215

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2218-2219

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2222-2223

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2234-2235

2236-2237

2238-2239

2240-2241

2242-2243

2244-2245

2246-2247

2248-2249

2250-2251

2252-2253

2254-2255

2256-2257

2258-2259

2260-2261

2262-2263

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2268-2269

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2482-24

100-443887-100

WISL 0309 TWENTY .071

March 2, 1957 sand-oil with retainer set at 4602. Interval 4690. 4900-
Point Lookout with 12,760 gallons diesel and 15,000 sand, Breakdown pressure
1400 psi, Minimum pressure 1350 psi, Maximum pressure 1400 psi. I.R. 0.4 cps./min.

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

16-48094-3 U. S. GOVERNMENT PRINTING OFFICE

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