

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078389-A
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 32-9 Unit Field Blanco State New Mexico
Well No. 21 Sec. 11 T 31N R 10W Meridian NMPM County San Juan
Location 990 ft. N. of S. Line and 990 ft. E. of W. Line of Sec. 11 Elevation 6241'
(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 D. C. JohnstonDate March 11, 1955 Title Petroleum Engineer

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

Commenced drilling January 26, 1955 Finished drilling February 20, 1955

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3038 to 3128 (G) No. 4, from 5263 to 5412 (G)
No. 2, from 4767 to 4941 (G) No. 5, from _____ to _____
No. 3, from 4941 to 5263 (G) No. 6, from _____ to _____
No. 7, from _____ to _____ No. 8, from _____ to _____
No. 9, from _____ to _____ No. 10, from _____ to _____
No. 11, from _____ to _____ No. 12, from _____ to _____
No. 13, from _____ to _____ No. 14, from _____ to _____
No. 15, from _____ to _____ No. 16, from _____ to _____
No. 17, from _____ to _____ No. 18, from _____ to _____
No. 19, from _____ to _____ No. 20, from _____ to _____
No. 21, from _____ to _____ No. 22, from _____ to _____
No. 23, from _____ to _____ No. 24, from _____ to _____
No. 25, from _____ to _____ No. 26, from _____ to _____
No. 27, from _____ to _____ No. 28, from _____ to _____
No. 29, from _____ to _____ No. 30, from _____ to _____
No. 31, from _____ to _____ No. 32, from _____ to _____
No. 33, from _____ to _____ No. 34, from _____ to _____
No. 35, from _____ to _____ No. 36, from _____ to _____
No. 37, from _____ to _____ No. 38, from _____ to _____
No. 39, from _____ to _____ No. 40, from _____ to _____
No. 41, from _____ to _____ No. 42, from _____ to _____
No. 43, from _____ to _____ No. 44, from _____ to _____
No. 45, from _____ to _____ No. 46, from _____ to _____
No. 47, from _____ to _____ No. 48, from _____ to _____
No. 49, from _____ to _____ No. 50, from _____ to _____
No. 51, from _____ to _____ No. 52, from _____ to _____
No. 53, from _____ to _____ No. 54, from _____ to _____
No. 55, from _____ to _____ No. 56, from _____ to _____
No. 57, from _____ to _____ No. 58, from _____ to _____
No. 59, from _____ to _____ No. 60, from _____ to _____
No. 61, from _____ to _____ No. 62, from _____ to _____
No. 63, from _____ to _____ No. 64, from _____ to _____
No. 65, from _____ to _____ No. 66, from _____ to _____
No. 67, from _____ to _____ No. 68, from _____ to _____
No. 69, from _____ to _____ No. 70, from _____ to _____
No. 71, from _____ to _____ No. 72, from _____ to _____
No. 73, from _____ to _____ No. 74, from _____ to _____
No. 75, from _____ to _____ No. 76, from _____ to _____
No. 77, from _____ to _____ No. 78, from _____ to _____
No. 79, from _____ to _____ No. 80, from _____ to _____
No. 81, from _____ to _____ No. 82, from _____ to _____
No. 83, from _____ to _____ No. 84, from _____ to _____
No. 85, from _____ to _____ No. 86, from _____ to _____
No. 87, from _____ to _____ No. 88, from _____ to _____
No. 89, from _____ to _____ No. 90, from _____ to _____
No. 91, from _____ to _____ No. 92, from _____ to _____
No. 93, from _____ to _____ No. 94, from _____ to _____
No. 95, from _____ to _____ No. 96, from _____ to _____
No. 97, from _____ to _____ No. 98, from _____ to _____
No. 99, from _____ to _____ No. 100, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and	Perforated	Purpose
9 5/8	36#	8 RD	J-55	158'	Howco			Surface
7"	23#	8 RD	J-55	1003'	Howco			Prod. Plug
7"	23#	8 RD	J-55	1003'	Howco			Prod. Plug
2"	4.7#	8 RD	Youngstown	5301'	Howco			Prod. Plug

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	169'	125	Circulated		
7"	4745'	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

Rotary tools were used from 0 feet to 4745' feet, and from 4745' feet to 5425' feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____ February 23, 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 9,396,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1041

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	825	825	Tan cr-grn ss w/thin sh breaks.
825	1553	728	Variegated sh w/thin ss breaks.
1553	2360	807	Tan to gry cr-grn ss interbedded w/gry sh.
2360	2406	46	Ojo Alamo ss. White cr-grn s.
2406	2614	208	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2614	3038	424	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3038	3128	90	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3128	4767	1639	Lewis form. Gry to white dense sh w/silty to shaly ss breaks.
4767	4941	174	Cliff House ss. Gry, fine-grn, dense sil ss.
4941	5263	322	Manefee formation. Gry, fine-grn s, carb sh and coal.
5263	5412	149	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5412	5425	13	Mancos formation. Gry carb sh.

U.S. LAND OFFICE
Special Agent in Charge
Federal Bureau of Investigation

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

Date _____
 Title _____
 Signed _____
 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.
 Location _____
 Well No. _____ Section _____ Township _____ Range _____
 Person or Firm _____
 State _____
 County _____
 Elevation _____
 (Indicate the elevation to the top of the well)

Continued drilling _____ 19 _____
_____ finished drilling _____
_____ The summary on this page is for the condition of the well at above date.

OIL OR GAS SANDS OR ZONES

(D) $\forall x \exists y \text{ stores}(x, y)$

February 22, 1955. Sand-oil point lookout with 14,400# sand, interval 5185' - 5425'. Retainer set at 5185'. Breakdown pressure 900 psi. Mini-
gallons. Natural range 200 MCF. Maximum pressure 1500 psi. 14.2 bbls./min. Flush 2200
gallons. Natural range 200 MCF. Maximum pressure 1500 psi. 14.2 bbls./min. Flush 2200

[illegible]

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 "sideracked," or left in the well, give the 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 16-43891-2

RECORDING AND INDEXING RECORD

Year	Number of cases of gonorrhea	Number of cases of syphilis	Number of cases of venereal disease	Number of cases of other diseases
1910	1,000	1,000	2,000	1,000
1911	1,000	1,000	2,000	1,000
1912	1,000	1,000	2,000	1,000
1913	1,000	1,000	2,000	1,000
1914	1,000	1,000	2,000	1,000
1915	1,000	1,000	2,000	1,000
1916	1,000	1,000	2,000	1,000
1917	1,000	1,000	2,000	1,000
1918	1,000	1,000	2,000	1,000
1919	1,000	1,000	2,000	1,000
1920	1,000	1,000	2,000	1,000

FLUGS AND ADAMS

[illegible]

SHOOTING IN ORDER

[illegible]

GERALD EICOT

Cable tools were used from		Rearry tools were used from	
feet to	feet and from	feet to	feet and from

DETAILS

It gas well, on ft. per 24 hours	emulsion; and	of water; and	of sediment.
Colloidal gasoline per 1,000 cu. ft. of gas	Gravity, °184.	Barrels of fluid of which	% was oil; %
		lost to producing	

243 004943

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	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	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	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399</
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

ORDER 1012-70H

FROM-	TO-	TOTAL FEET	FORMATION
1	0.0	0.0	1.00-1.01
2	0.0	0.0	1.02-1.03
3	0.0	0.0	1.04-1.05
4	0.0	0.0	1.06-1.07
5	0.0	0.0	1.08-1.09
6	0.0	0.0	1.10-1.11
7	0.0	0.0	1.12-1.13
8	0.0	0.0	1.14-1.15
9	0.0	0.0	1.16-1.17
10	0.0	0.0	1.18-1.19
11	0.0	0.0	1.20-1.21
12	0.0	0.0	1.22-1.23
13	0.0	0.0	1.24-1.25
14	0.0	0.0	1.26-1.27
15	0.0	0.0	1.28-1.29
16	0.0	0.0	1.30-1.31
17	0.0	0.0	1.32-1.33
18	0.0	0.0	1.34-1.35
19	0.0	0.0	1.36-1.37
20	0.0	0.0	1.38-1.39
21	0.0	0.0	1.40-1.41
22	0.0	0.0	1.42-1.43
23	0.0	0.0	1.44-1.45
24	0.0	0.0	1.46-1.47
25	0.0	0.0	1.48-1.49
26	0.0	0.0	1.50-1.51
27	0.0	0.0	1.52-1.53
28	0.0	0.0	1.54-1.55
29	0.0	0.0	1.56-1.57
30	0.0	0.0	1.58-1.59
31	0.0	0.0	1.60-1.61
32	0.0	0.0	1.62-1.63
33	0.0	0.0	1.64-1.65
34	0.0	0.0	1.66-1.67
35	0.0	0.0	1.68-1.69
36	0.0	0.0	1.70-1.71
37	0.0	0.0	1.72-1.73
38	0.0	0.0	1.74-1.75
39	0.0	0.0	1.76-1.77
40	0.0	0.0	1.78-1.79
41	0.0	0.0	1.80-1.81
42	0.0	0.0	1.82-1.83
43	0.0	0.0	1.84-1.85
44	0.0	0.0	1.86-1.87
45	0.0	0.0	1.88-1.89
46	0.0	0.0	1.90-1.91
47	0.0	0.0	1.92-1.93
48	0.0	0.0	1.94-1.95
49	0.0	0.0	1.96-1.97
50	0.0	0.0	1.98-1.99
51	0.0	0.0	2.00-2.01
52	0.0	0.0	2.02-2.03
53	0.0	0.0	2.04-2.05
54	0.0	0.0	2.06-2.07
55	0.0	0.0	2.08-2.09
56	0.0	0.0	2.10-2.11
57	0.0	0.0	2.12-2.13
58	0.0	0.0	2.14-2.15
59	0.0	0.0	2.16-2.17
60	0.0	0.0	2.18-2.19
61	0.0	0.0	2.20-2.21
62	0.0	0.0	2.22-2.23
63	0.0	0.0	2.24-2.25
64	0.0	0.0	2.26-2.27
65	0.0	0.0	2.28-2.29
66	0.0	0.0	2.30-2.31
67	0.0	0.0	2.32-2.33
68	0.0	0.0	2.34-2.35
69	0.0	0.0	2.36-2.37
70	0.0	0.0	2.38-2.39
71	0.0	0.0	2.40-2.41
72	0.0	0.0	2.42-2.43
73	0.0	0.0	2.44-2.45
74	0.0	0.0	2.46-2.47
75	0.0	0.0	2.48-2.49
76	0.0	0.0	2.50-2.51
77	0.0	0.0	2.52-2.53
78	0.0	0.0	2.54-2.55
79	0.0	0.0	2.56-2.57
80	0.0	0.0	2.58-2.59
81	0.0	0.0	2.60-2.61
82	0.0	0.0	2.62-2.63
83	0.0	0.0	2.64-2.65
84	0.0	0.0	2.66-2.67
85	0.0	0.0	2.68-2.69
86	0.0	0.0	2.70-2.71
87	0.0	0.0	2.72-2.73
88	0.0	0.0	2.74-2.75
89	0.0	0.0	2.76-2.77
90	0.0	0.0	2.78-2.79
91	0.0	0.0	2.80-2.81
92	0.0	0.0	2.82-2.83
93	0.0	0.0	2.84-2.85
94	0.0	0.0	2.86-2.87
95	0.0	0.0	2.88-2.89
96	0.0	0.0	2.90-2.91
97	0.0	0.0	2.92-2.93
98	0.0	0.0	2.94-2.95
99	0.0	0.0	2.96-2.97
100	0.0	0.0	2.98-2.99