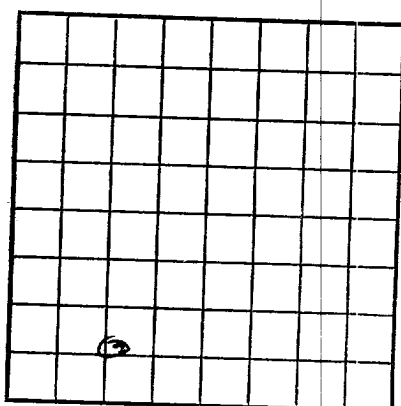




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078002
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Farmington, New Mexico
Lessor or Tract Schoon Field Blanco-La Plata State New Mexico
Well No. 1 Sec. 27 T. 30N R. 10W Meridian N. M. P. M. County San Juan
Location 790 ft. N. of S. Line and 1430 ft. E. of W. Line of Section 27 Elevation 6067
(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 E. KarlDate November 5, 1952 Title Petroleum Engineer

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

Commenced drilling May 23, 1952 Finished drilling September 14, 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4151 to 4322 No. 4, from _____ to _____
No. 2, from 4820 to 4950 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 1300 to 1403 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>2 1/8</u>	<u>26</u>	<u>8</u>	<u>Arco</u>	<u>150</u>	<u>150</u>	<u>150</u>			<u>Surface</u>
<u>2 1/8</u>	<u>26</u>	<u>8</u>	<u>Arco</u>	<u>150</u>	<u>150</u>	<u>150</u>			<u>Production</u>
<u>2 1/8</u>	<u>26</u>	<u>8</u>	<u>Arco</u>	<u>150</u>	<u>150</u>	<u>150</u>			<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>2 1/8</u>	<u>165</u>	<u>185</u>	<u>Regular</u>		
<u>2 1/8</u>	<u>4107</u>	<u>300</u>	<u>Regular</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>4</u>	<u>Regular</u>	<u>S.H.G.</u>	<u>1740 qts.</u>	<u>9-15</u>	<u>4210-4957</u>	<u>4967</u>

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from Gas Circulation feet
Cable tools were used from 0 feet to 4107 feet, and from 4107 feet to 4967 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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1,840

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1300</u>	<u>1300</u>	<u>Tan coarse-grn. ss. w/thin shale breaks.</u>
<u>1300</u>	<u>1403</u>	<u>103</u>	<u>Ojo Alamo Sa. White coarse-grn. sand. T/Ojo</u>
<u>1403</u>	<u>2265</u>	<u>862</u>	<u>Alamo 1300.</u>
<u>2265</u>	<u>2554</u>	<u>319</u>	<u>Kirtland Fm. Gray shale interbedded w/tight grs</u>
<u>2554</u>	<u>2670</u>	<u>86</u>	<u>fine-grn. ss. T/Kirtland 1403.</u>
<u>2670</u>	<u>4151</u>	<u>1481</u>	<u>Fruitland Fm. Gray carb. shales, scattered coal</u>
<u>4151</u>	<u>4322</u>	<u>171</u>	<u>& gray, tight, fine-grn. ss. T/Fruitland 2265.</u>
<u>4322</u>	<u>4820</u>	<u>498</u>	<u>Pictured Cliffs Fm. Gray, fine-grained, tight,</u>
<u>4820</u>	<u>4967</u>	<u>147</u>	<u>varicolored soft ss. T/Pictured Cliffs 2554.</u>
	<u>4950 T.D.</u>	<u>130</u>	<u>Lewis Fm. Gray to white dense shale w/silty to</u>
			<u>shaly sandstone breaks. T/Lewis 2670.</u>
			<u>Cliff House Fm. Gray, fine-grn. dense sil. ss.</u>
			<u>T/Clf. Hse. 4151.</u>
			<u>Manatee Fm. Gray, fine-grn. sands, carb. shales</u>
			<u>& coals. T/Manatee 4322.</u>
			<u>Point Lookout Fm. Gray, very fine sil. ss. w/fr</u>
			<u>shale breaks. T/Point Lookout 4820.</u>

1991-1992
1993-1994

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2. second of these is the fact that the
3. third of these is the fact that the

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATED IN THE NORTH

[illegible]

1000

SECRET OF COMBAT INFORMATION

$$f_{\text{eff}} = \frac{1}{2} \left(\frac{1}{\sqrt{1 - \beta^2}} + \frac{1}{\sqrt{1 - \beta'^2}} \right) \quad (10)$$

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	2400	2401	2402	2403</
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100-1, from _____
to _____

IMPORTED WATER SANDS
_____ 170.8, from _____
to _____

OFFICIAL RECORD

Page 10

Category	Weight per foot	Dimensions	Volume	Weight	Value	Remarks

It is of the greatest importance to have a complete history of the well. Please state in detail the nature of the work and if any casing was 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 the size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and reasons of putting in. Pulling of shot.

U.S. GOVERNMENT PRINTING OFFICE 16-45084-1

CONFIDENTIAL - EYES ONLY CONFIDENTIAL - EYES ONLY					
1. Name of the person	2. Date of birth	3. Place of birth	4. Address to which mail should be sent	5. Date of birth	6. Date of birth

[illegible]

CHETTANIA 012 000000

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CROSS SECTION					
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1. Name of the person or organization	2. Address	3. City	4. State	5. Zip
6. Name of the person or organization	7. Address	8. City	9. State	10. Zip
11. Name of the person or organization	12. Address	13. City	14. State	15. Zip
16. Name of the person or organization	17. Address	18. City	19. State	20. Zip
21. Name of the person or organization	22. Address	23. City	24. State	25. Zip
26. Name of the person or organization	27. Address	28. City	29. State	30. Zip
31. Name of the person or organization	32. Address	33. City	34. State	35. Zip
36. Name of the person or organization	37. Address	38. City	39. State	40. Zip
41. Name of the person or organization	42. Address	43. City	44. State	45. Zip
46. Name of the person or organization	47. Address	48. City	49. State	50. Zip
51. Name of the person or organization	52. Address	53. City	54. State	55. Zip
56. Name of the person or organization	57. Address	58. City	59. State	60. Zip
61. Name of the person or organization	62. Address	63. City	64. State	65. Zip
66. Name of the person or organization	67. Address	68. City	69. State	70. Zip
71. Name of the person or organization	72. Address	73. City	74. State	75. Zip
76. Name of the person or organization	77. Address	78. City	79. State	80. Zip
81. Name of the person or organization	82. Address	83. City	84. State	85. Zip
86. Name of the person or organization	87. Address	88. City	89. State	90. Zip
91. Name of the person or organization	92. Address	93. City	94. State	95. Zip
96. Name of the person or organization	97. Address	98. City	99. State	100. Zip

1. Name of the person or organization	2. Address	3. City	4. State	5. Zip
6. Name of the person or organization	7. Address	8. City	9. State	10. Zip
11. Name of the person or organization	12. Address	13. City	14. State	15. Zip
16. Name of the person or organization	17. Address	18. City	19. State	20. Zip
21. Name of the person or organization	22. Address	23. City	24. State	25. Zip
26. Name of the person or organization	27. Address	28. City	29. State	30. Zip
31. Name of the person or organization	32. Address	33. City	34. State	35. Zip
36. Name of the person or organization	37. Address	38. City	39. State	40. Zip
41. Name of the person or organization	42. Address	43. City	44. State	45. Zip
46. Name of the person or organization	47. Address	48. City	49. State	50. Zip
51. Name of the person or organization	52. Address	53. City	54. State	55. Zip
56. Name of the person or organization	57. Address	58. City	59. State	60. Zip
61. Name of the person or organization	62. Address	63. City	64. State	65. Zip
66. Name of the person or organization	67. Address	68. City	69. State	70. Zip
71. Name of the person or organization	72. Address	73. City	74. State	75. Zip
76. Name of the person or organization	77. Address	78. City	79. State	80. Zip
81. Name of the person or organization	82. Address	83. City	84. State	85. Zip
86. Name of the person or organization	87. Address	88. City	89. State	90. Zip
91. Name of the person or organization	92. Address	93. City	94. State	95. Zip
96. Name of the person or organization	97. Address	98. City	99. State	100. Zip

1. The first step in the process of the investigation is to identify the problem.	2. The second step is to gather information about the problem.	3. The third step is to analyze the information.	4. The fourth step is to develop a plan of action.	5. The fifth step is to implement the plan.	6. The sixth step is to evaluate the results.	7. The seventh step is to report the findings.	8. The eighth step is to draw conclusions.	9. The ninth step is to make recommendations.	10. The tenth step is to follow up on the recommendations.
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4. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

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FROM-	TO-	TOTAL FEET	FORMATION
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FORMATION RECORD—Continued