

F. Loc. 990/S; 1450/W Elev. 5787DF Spd. 4/4/53 Comp. 4/29/53 TD 2159 PB
 Casing 8-5/8 @ 135 W 100 Sx. Int. @ W Sx. Fr. 52 @ 2090 W 150 Sx. T. 1 @ 2155
 Csg. Perf. Prod. Stim.

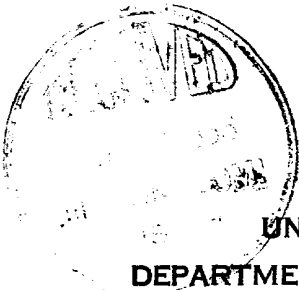
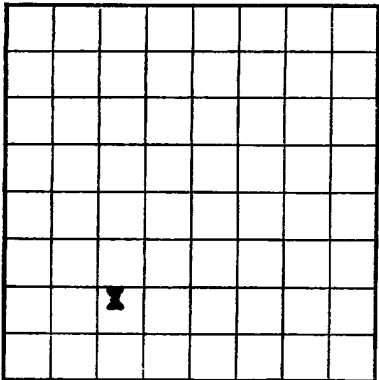
Shot 158 qts 2096-2159

I.P. 396 ~~HEAD~~ MCF/D After 3 Hrs. Sic. P. 650 PSI After 13 Days GOR Grav. Ist Del. 7/30/53 T r a n s EP

TOPS	NFPD	X	Well Log	X	TEST DATA						
Kirtland	<u>747</u>	C-102	Flat	X	Schd.	PC	Q	PW	PD	D	AIL
Fruitland	<u>1775</u>	C-103	Electric Log	X							
Pictured Cliffs	<u>2090</u>	C-104	X C-110	X	<u>54</u>	<u>522</u>	<u>60</u>	<u>241</u>	<u>250</u>	<u>59</u>	
Cliff House			Remarks							<u>58</u>	
Mencee					<u>4/14/53</u>	<u>405</u>	<u>43</u>	<u>213</u>	<u>203</u>	<u>44</u>	
Point Lookout											
Mancos											
Tocito											
Dakota											
Morrison											
Entrada											
	<u>362</u>										

P Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.
 °Aztec PC Co. San Juan s 20 T 30N R 11W U N Oper. EPNG Lsc. Morris No. 1-A

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078138
LEASE OR PERMIT TO PROSPECT _____



UNITED 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 Morris Field Antes Pool State New Mexico
Well No. 1-A Sec. 20 T. 30N R. 11W Meridian N.M.P.M. County San Juan
Location 990 ft. [N.] of S. Line and 1450 ft. [E.] of W. Line of Section 20 Elevation 5787'
(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 [Signature] Title Petroleum Engineer.

Date May 8, 1953

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

Commenced drilling April 6, 1953 Finished drilling April 13, 1953

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2090 to 2150 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ 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 V.</u>	<u>ARCO</u>	<u>122'</u>	<u>ARCO</u>				<u>Surface</u>
<u>5 1/2</u>	<u>16.5</u>	<u>8</u>	<u>ARCO</u>	<u>2089'</u>	<u>ARCO</u>				<u>Prod. Log.</u>
<u>1"</u>	<u>1.66</u>	<u>8 RD</u>	<u>Std. Bk</u>	<u>2155'</u>					<u>Prod. Log.</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>131'</u>	<u>100</u>	<u>Circulated</u>		
<u>5 1/2</u>	<u>2089'</u>	<u>150</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>S.M.G.</u>	<u>158</u>	<u>4/13/53</u>	<u>2096-2159'</u>	<u>2159'</u>

TOOLS USED

Rotary tools were used from 0 feet to 2089 feet, and from _____ feet to _____ feet
Cable tools were used from 2089 feet to 2159 feet, and from _____ feet to _____ feet

DATES

April 16, 1953 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 396,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 650

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>355</u>	<u>355</u>	<u>Tan cr-grn ss w/thin sh breaks.</u>
<u>355</u>	<u>455</u>	<u>100</u>	<u>Variegated sh w/thin sandstone breaks.</u>
<u>455</u>	<u>662</u>	<u>207</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>662</u>	<u>747</u>	<u>85</u>	<u>Ojo Alamo ss. Wh cr-grn s. Top Ojo Alamo 662.</u>
<u>747</u>	<u>1775</u>	<u>1028</u>	<u>Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss. Top Kirtland 747.</u>
<u>1775</u>	<u>2090</u>	<u>315</u>	<u>Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss. Top Fruitland 1775.</u>
<u>2090</u>	<u>2150</u>	<u>60</u>	<u>Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss. Top Pictured Cliffs 2090. Lewis formation. Gry to wh dense sh w/silty to shaly ss breaks. Top Lewis...2150.</u>

FOLD | MARK

FORMATION RECORD—Continued

FROM-	TO-	TOTAL FEET	(GAIN)	FORMATION
				1. 1000-1001
				2. 1001-1002
				3. 1002-1003
				4. 1003-1004
				5. 1004-1005
				6. 1005-1006
				7. 1006-1007
				8. 1007-1008
				9. 1008-1009
				10. 1009-1010
				11. 1010-1011
				12. 1011-1012
				13. 1012-1013
				14. 1013-1014
				15. 1014-1015
				16. 1015-1016
				17. 1016-1017
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				81. 1080-1081
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				85. 1084-1085
				86. 1085-1086
				87. 1086-1087
				88. 1087-1088

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 balling.

HISTORY OF OIL OR GAS WELL

16-43084-1 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES PATENT OFFICE

20 NOV 2007 0000Z

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

LOG OF OFFICIALS

DEPARTMENT OF THE ARMY
WASHINGTON, D. C. 20315

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, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

The information given hereon is a complete and correct copy of the original as the same can be determined from all available records.