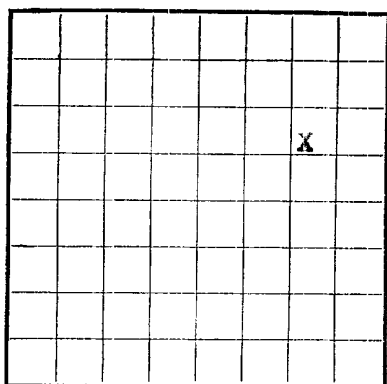


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078972
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 28-7 Unit Field BLanco & So. Blanco State New Mexico
Well No. 79(PM) Sec. 11 T 27N R 7W Meridian N.M.P.M. County Rio Arriba
Location 1570 ft. XX of N Line and 1008 ft. XX of E Line of Section 11 Elevation 6241'
(S. W. (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 Original Signed D. C. Johnston

Date October 22, 1957 Title Petroleum Engineer

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

Commenced drilling 9-9, 19 57 Finished drilling 9-18, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2829 to 2928 (G) No. 4, from 5050 to 5240 (G)
No. 2, from 4510 to 4608 (G) No. 5, from _____ to _____
No. 3, from 4608 to 5050 (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—	
10 3/4	32.75	8 Rd.	S. W.	161"	Howco				Surface
7 5/8	26.4	8 Rd.	J-55	2986"	Baker				Prod. Csg.
5 1/2"	19.3	8 Rd.	J-55	2150"	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	4852"					Prod. Tubing
1 1/4"	2.3	8 Rd.	Grade "B"	2869"					Siphon

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	3 3/4"	172'	150	Circulated		
7	5/8"	2998'	250	Single Stage		
5	1 1/2"	2931-3281'	300	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material ----- Size ----- **Baker RCJ Pkr. at 2980'**

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 3000 feet, and from 3000 feet to 5285 feet. ^{Gas drilled}

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

9-25, 1957 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 1,593,000 Gallons gasoline per 1,000 cu. ft. of gas _____

N.C: 1,593,000
N.V: 3,922,000

[illegible]

SOURCE: U.S. DEPARTMENT OF COMMERCE

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1987) using a Shimadzu UV-1601U ultraviolet-visible spectrophotometer.

10-10-68
10-10-68

[illegible]

Journal of Management Studies, 36(7), 809–824.

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

[illegible]

9-20-57. C.O.D. 5200. Port. v/2DU/lt. Int. 4992-5008; 5042-70; 5086-96; 5126-38. Water trac. P. L. v/64,000 gal. water, flush w/9000 gal. water. IR 52.0 RPM. BD-800; tr. dr. 1000; 1350; 1500; 1700; 1950. Dropped 20 balls 5 times 6 stages.

9-21-57. BP @ 4720. Port. w/2DU/lt. Int. 4506-84; 4544-66; 4576-66; 4596-4600. Water trac. C. H. v/64,000 gal. water, flush w/9000 gal. water. IR 37.5 RPM. BD-home; tr. dr. 2600, max. dr. 3000. Dropped one set of balls - balled off and released - one stage.

9-21-57. BP @ 3500. Port. w/2DU/lt. Int. 2834-70; water trac. P. C. v/37,900 gal. water; 40,000 gal. water, flush w/6000 gal. water. IR 55.9 RPM. BD 2000. tr. and max dr. 1500.

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

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	REMARKS
1961-01-01	Balance	100.00			
1961-01-15	Deposit	50.00	101		
1961-02-01	Withdrawal	25.00	102		
1961-02-15	Deposit	75.00	103		
1961-03-01	Withdrawal	30.00	104		
1961-03-15	Deposit	60.00	105		
1961-04-01	Withdrawal	40.00	106		
1961-04-15	Deposit	80.00	107		
1961-05-01	Withdrawal	20.00	108		
1961-05-15	Deposit	90.00	109		
1961-06-01	Withdrawal	10.00	110		
1961-06-15	Deposit	110.00	111		
1961-07-01	Withdrawal	5.00	112		
1961-07-15	Deposit	120.00	113		
1961-08-01	Withdrawal	15.00	114		
1961-08-15	Deposit	130.00	115		
1961-09-01	Withdrawal	20.00	116		
1961-09-15	Deposit	140.00	117		
1961-10-01	Withdrawal	25.00	118		
1961-10-15	Deposit	150.00	119		
1961-11-01	Withdrawal	30.00	120		
1961-11-15	Deposit	160.00	121		
1961-12-01	Withdrawal	35.00	122		
1961-12-15	Deposit	170.00	123		
1961-12-31	Balance	180.00			