



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

June 4, 1996

SWD - 483

PDEV0020900483

Manzano Oil Corporation
P.O. Box 2107
Roswell, New Mexico 88202-2107

Attn: Mr. David Sweeney

**RE: Injection Pressure Increase, Texaco Federal (SWD) Well No.2
Lea County, New Mexico**

Dear Mr. Sweeney:

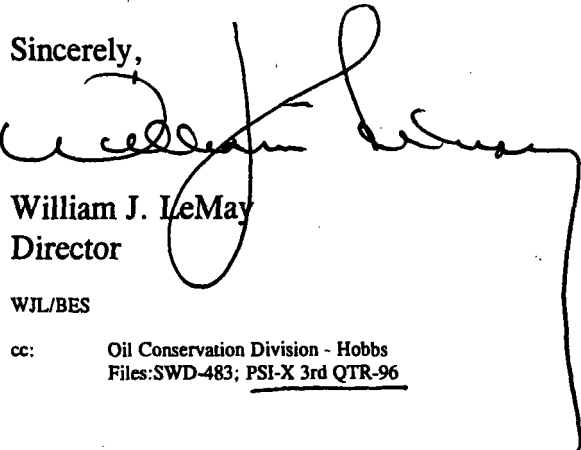
Reference is made to your request dated March 27, 1996 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on March 22, 1996. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure</i>
Texaco Federal (SWD) Well No.2	1620 PSIG
Located in Unit Letter 'G', Section 14, Township 19 South, Range 33 East, Lea County, New Mexico.	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,


William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Hobbs
Files:SWD-483; PSI-X 3rd QTR-96



OIL CONSERVATION DIVISION
RECEIVED

'96 APR 10 AM 8 52

Manzano Oil Corporation

P.O. Box 2107
Roswell, New Mexico 88202-2107
(505) 623-1996
FAX (505) 625-2620

March 27, 1996

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: David Catanach

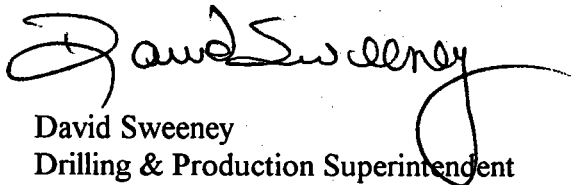
Re: Texaco Fed (SWD) Well #2
Unit G, Sec 14, T19S, R33E
Lea County, New Mexico

Dear Mr. Catanach:

Manzano Oil Corporation is requesting an increase in injection pressure on the above captioned well per your review of the attached step rate test. The original injection pressure per Order SWD-483 is 1252 psi.

If you need any further information or have any questions, please call.

Thank you,


David Sweeney
Drilling & Production Superintendent

DS:ah

Enclosure

cc: Jerry Sexton
NMOCD
P.O. Box 1980
Hobbs, NM 88241-1980

WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: MANZANO OIL COMPANY

DATE: MARCH 22, 1996

WELL NAME: TEXACO FEDERAL NO. 2-G
LEA COUNTY, NEW MEXICO

WO#: 96-14-0368

PERFS = 6260-7811

PACKER DEPTH =

BHP GAUGE DEPTH = SURFACE ONLY

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	10:00	664.7				664.7		
	10:05	1438.4	0.6	172.8	0.884	1437.5	5.04	
	10:10	1502.1	1.2	172.8	0.884	1501.2	5.04	
	10:15	1531.3	1.9	201.6	1.175	1530.1	5.88	
2	10:20	1588.9	3.1	345.6	3.186	1585.7	10.08	
	10:25	1601.4	4.3	345.6	3.186	1598.2	10.08	
	10:30	1616.5	5.4	316.8	2.712	1613.8	9.24	
	10:35	1645.3	7.1	489.6	6.068	1639.2	14.28	
3	10:40	1656.7	8.7	460.8	5.424	1651.3	13.44	
	10:45	1660.5	10.4	489.6	6.068	1654.4	14.28	
	10:50	1694.2	12.7	662.4	10.615	1683.6	19.32	
	10:55	1703.0	15.0	662.4	10.615	1692.4	19.32	
4	11:00	1708.0	17.4	691.2	11.484	1696.5	20.16	
	11:05	1728.0	20.3	835.2	16.298	1711.7	24.36	
	11:10	1723.0	23.3	864.0	17.353	1705.6	25.20	
	11:15	1720.4	26.3	864.0	17.353	1703.0	25.20	
5	11:20	1744.2	30.0	1065.6	25.579	1718.6	31.08	
	11:25	1751.7	33.7	1065.6	25.579	1726.1	31.08	
	11:30	1752.9	37.3	1036.8	24.315	1728.6	30.24	
	11:35	1791.6	41.7	1267.2	35.245	1756.4	36.96	
6	11:40	1800.3	46.0	1238.4	33.777	1766.5	36.12	
	11:45	1794.1	50.4	1267.2	35.245	1758.9	36.96	
				1257.6				

207 00700 274 000

991 33-40687-3140

WOLFGANG S. KOEHLER

1650

2020-2021 2021

2 - 6 On 11/25/85 07:00Z
 100000Z 11/25/85 07:00Z

3140 125

: (48% - 68%) = 20%

0706 998054

* 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, 2679, 2680, 2681, 26

[illegible]

9 3535

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
FALLOFF	11:46	1690.4				1690.4		
	11:47	1666.7				1666.7		
	11:48	1640.5				1640.5		
	11:49	1618.0				1618.0		
	11:50	1599.2				1599.2		
	11:55	1531.8				1531.8		
	12:00	1484.3				1484.3		

