

EL PASO NATURAL GAS COMPANY

Memorandum

To: Mr. Ed E. Alsup
From: Gas-Production Department

Date: February 6, 1958
Place: Farmington, N.M.

Re: Back Pressure Test Data on the El Paso Natural Gas Products
Company Well, Chimney Rock No. 2, San Juan County, New Mexico.

Location 660'N, 660'E, Sec. 15-T31N-R17W

Shut-In Pressures SIPT - 162.7 psig
SIPC - 162.9 psig

Stabilized A.O.F. 2420 MCF/D at 15.025 Psia,
SP GR = .600, T = 60°F

The absolute open flow was determined by plotting a bottom hole curve from the following data:

<u>Point 1</u>	<u>Point 2</u>	<u>Point 3</u>
1/4" orifice	3/8" orifice	7/16" orifice
Q = 228 MCF/D	Q = 444 MCF/D	Q = 584 MCF/D
P _w = 156.4 Psig	P _w = 148.5 Psig	P _w = 144.2 Psig
Flow Period - 1-1/2 hrs.	Flow Period - 1-1/2 hrs.	Flow Period - 1-1/2 hrs.
Producing Formation	Lower Gallup (Perforated 871'-890')	
Field	Wildcat	
Stimulation	Natural, 250 Gallons Mud Acid	

REMARKS:

The well began unloading liquid on the initial plate and this condition continued through the first 15 minutes of flow on the second plate size. This liquid production affected the test very little, as fairly good point alignment was obtained on three points.

A wellhead curve was plotted in the field and since alignment of the first three points was good, a fourth point was not obtained.



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ISO ROYAL BACK PRESSURE TEST

Company EL PASO PRODUCTS CO. Lease CHIM EY ROCK Well No. 2
 New Well ☒ Retest ☐ Date of Test 2-6 19 58
 Field WILDCAT County SAN JUAN Area NAME
 Sec. 15 T31N R17W 660N 660E
 Casing 5 1/2" Wt. 15.5 I.D. 4.75 Set at 948 Perf. TO
 Liner 1 1/2" Wt. 2.75 I.D. 1.31 Set at 890 Perf. TO
 Tubing 1 1/2" Wt. 2.75 I.D. 1.31 Set at 890 Perf. TO
 Gas Pay From 876 To 890 L 883 G 600 S 530 Barometric 12
1.0374 ρ_g Well Shut in Hours before Test
 Size of Prover 2" Size of Meter Run Type of Connection
 REMARKS: FORMATION - LOWER GALLUP

Observed Data

Run No.	SIZE METER RUN OR PROVER ORIFICE	METER PRESSURES			Run No.	WELLHEAD		Duration of Run in Hours
		Static P _{sig}	P _m P _{ola}	Differential inches-H ₂ O		W _P P _{sig}	P _m P _{ola}	
1	1/4"				1	157.1	163.2	1/2
2	1/4"				2	157.1	162.5	1
3	1/4"				3	157.1	162.9	1 1/2
4								
5								

Flow Calculations

Run No.	Coeff. $\sqrt{P}$ (20 SS.)	$\sqrt{P_m}$	$\sqrt{P_{ola}}$	Working Pressure of Prover		Flow Rate	Flow Rate	Flow Rate
				P _{sig}	P _{ola}	Q _{sc}	Q _{std}	Q _{act}
1	1.400			157.2	163.2	1.0374	1.0374	1.0374
2	1.400			157.1	162.5	1.0374	1.0374	1.0374
3	1.400			157.1	162.9	1.0374	1.0374	1.0374
4								
5								

Pressure Calculations (All pressures in PSI)

SIP 162.9
 + Bar 12.0
 P_m 174.9
 P_{ola} 177.9
 OIL CONSERVATION DISTRICT OF NEW MEXICO
 No. 177
 (1) (2) (3) (4) (5)

$$S = \frac{C \cdot \sqrt{P_m} \cdot \sqrt{P_{ola}}}{P_m - P_{ola}} = \frac{6.0575 \times 530}{340} = .0368$$

$$e^S = 1.0374$$

Run No.	P _{sig}	P _m	P _{ola}	Q _{sc}	Q _{std}	Q _{act}
1	157.1	163.2	163.2	1.0374	1.0374	1.0374
2	157.1	162.5	162.5	1.0374	1.0374	1.0374
3	157.1	162.9	162.9	1.0374	1.0374	1.0374
4						
5						

Transporter

all

Angle of Curve: 0

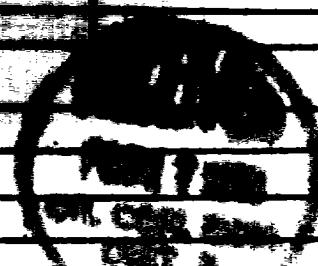
Absolute Open Flow: MCF/Day

R. R. COMPANY

Company:

Pipe Line:

Other:



SECRET

$\frac{1}{2} \log \frac{1}{2}$

10

2007-2008 年度

17A4 401
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GRAVITY
FACTOR

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, 2679, 26

Figure 1 is a line graph illustrating the percentage of the total sample for various age groups over time. The x-axis represents years from 1950 to 2000, and the y-axis represents the percentage of the total sample, ranging from 0 to 100. The age groups are: 0-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, and 75+. The graph shows a clear trend of aging over time, with the 0-14 age group decreasing from approximately 25% in 1950 to 10% in 2000, and the 75+ age group increasing from approximately 5% in 1950 to 20% in 2000.

100-443887-100

Concentration of inhibitor	Rate of polymerization
0.0	1.0
0.2	0.8
0.4	0.6
0.6	0.4
0.8	0.2
1.0	0.1

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