

50000057

BAG 3041

TARGET 30402-5

LEUNA

GASIFICATION

(J.G. FARREN)

He - Lohr - Mith.

85

Exkursion

6. 2. Wärmeausnutzung
f. Winkler - Wasserges sowie
die vorz. v. h. Behälter
bei Umstellung auf 40. 10.
Wärmegewinn

50000059

3041-30/4.02-5

Opfer

7/85.

C- und Wärmeausnutzung
für Winklerwassergas

sowie

die voraussichtlichen Betriebsänderungen
bei Umstellung auf
Winklerwassergasbetrieb.

Braunk- Vergas. Lahon	29.4.23	Nr. 29358
-----------------------------	---------	-----------

I n h a l t.

	Seite
I. Analysen	2
a). Grade	2
b). Bindschlaggas	2
c). Blasegas	2
d). Wassergas (Windler-)	3
e). Gemisch aus Bindschlaggas + Blasegas	3
f). Wassergas (Koks-)	7
Grundbestand	4
A). Bindschlag + Blasegas	4
B). Wassergas	4
III. 8. 1. Winderlauf	
A). Gasdruckverhältnis 2 : 7,5	5
B). " " 1 : 4	6
IV. Berechnung von H ₂ -Wassergas auf Koks-Wassergas	7
V. Wirtschaftlich notwendige Betriebsänderungen	8
A). Verdrickungsstofffabrik	8
B). Kohlenstoffreinigung	8
C). Wasserstoffreinigung	8

Leunawerke, den 24. IV. 29.

I. Analyse

2. Probe (6 aus 29 Analysen 1928)

S	E	Geh.	Wt.	Asche	H ₂ O	Hu	Mo
30.7	2.0	7.0	1.4	22.2	4.0	5700	5910

3. Analyse

15° 735

Wt.	O	H	N	P	AgNO ₃ /cm	Hu	Mo	Menge
22.7	12.0	22.0	0.4	12.0	0.127	909	1004	1.-
13.2	14.0	40.0	0.4	52.2	0.135	339	937	1.-
14.0	15.0	47.0	0.4	52.4	0.150	336	959	1.-
13.4	14.0	15.0	0.4	64.0	0.146	791	859	1.-
13.0	14.0	14.7	0.4	52.0	0.140	371	950	(4)

4. Analyse (6 aus 29 Analysen 1928)

Wt.	O	H	N	P	AgNO ₃ /cm	Hu	Mo	Menge
13.0	13.0	1.3	0.4	64.0	0.120	517	553	1.-
13.1	13.2	1.0	0.7	61.0	0.137	646	677	1.03
13.0	13.0	1.0	0.3	69.1	0.143	712	732	1.06
13.0	13.0	1.3	0.7	69.1	0.147	774	797	1.09
13.0	13.0	1.0	0.7	69.0	0.147	803	822	1.12
13.0	13.0	1.1	0.7	69.7	0.145	830	850	1.15
13.0	13.0	1.0	0.7	69.0	0.132	860	880	1.18
13.0	13.0	1.0	0.7	69.0	0.140	742	760	(7.62)

III. 3. a W a r m e b i l a n z

A) Stoichiometrisches Verhältnis 1 : 7,5

$$\text{1 Mol H}_2 - \text{H}_2\text{O} - \text{gas} = 7,5 \cdot 0,320 = 2,400 \text{ kg Grube}$$

$$\text{3 Mol H}_2 - \text{gas} = 1 \cdot 0,376 = 0,376 \text{ " "}$$

$$\text{zus.} = 2,776 \text{ kg Grube}$$

$$\text{1 Mol H}_2 - \text{H}_2\text{O} - \text{gas} = 7,5 \cdot 795 = 5960 \text{ Kcal}$$

$$\text{3 Mol H}_2 - \text{gas} = 1 \cdot 2257 = 2257 \text{ Kcal}$$

$$\text{zus.} = 6217 \text{ Kcal}$$

B) Zusammensetzung

$$\text{Anteil H}_2\text{O am W G} = \frac{0,225}{0,225 + 0,874} = \frac{0,225}{1,099} = 20,5\%$$

$$\text{Anteil H}_2\text{ am W G} = \frac{0,5}{0,5 + 0,874} = \frac{0,5}{1,374} = 36,4\%$$

$$\text{Anteil H}_2\text{O am Gesamtgas} = \frac{0,225}{0,225 + 0,874} = \frac{0,225}{1,099} = 20,5\%$$

C) Zusammensetzung

$$\text{Anteil H}_2\text{O am W G} = \frac{2257}{2257 + 5960} = \frac{2257}{8217} = 27,5\%$$

$$\text{Anteil H}_2\text{ am W G} = \frac{5960}{5960 + 2257} = \frac{5960}{8217} = 72,5\%$$

$$\text{Anteil H}_2\text{O am Gesamtgas} = \frac{2257}{2257 + 5960} = \frac{2257}{8217} = 27,5\%$$

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

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States. They are interested in the history of the United States because they want to know more about the United States. They want to know more about the United States because they want to know more about the United States.

10-10-68

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1. The purpose of this report is to provide information on the

results of the study conducted by the author.

The study was conducted in the following manner:

The data was collected from the following sources:

The data was analyzed using the following methods:

The results of the study are as follows:

The study found that the following factors are significant:

The study also found that the following factors are not significant:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important:

The study recommends that the following actions be taken:

The study also recommends that the following actions be taken:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important:

The study recommends that the following actions be taken:

The study also recommends that the following actions be taken:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important:

The study recommends that the following actions be taken:

The study also recommends that the following actions be taken:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important:

The study recommends that the following actions be taken:

The study also recommends that the following actions be taken:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important:

The study recommends that the following actions be taken:

The study also recommends that the following actions be taken:

The study concludes that the following factors are the most important:

The study also concludes that the following factors are the least important: