

III. INFORMATION OF NO TECHNICAL VALUE

ITEM 6: NAPHTHA REFINING  
(Cont'd. from Reel 8)

<u>Frame</u>	<u>Subject</u>
1	Second page of an article on refining of gasoline with sulfuric acid (first page missing)
2	Refining of Raw Gasoline 54 in Unit 21 (Bottrop-Boy, Feb. 10, 1939)
3-4	Distillation Experiments on Gasoline (Bottrop-Boy, Sept. 26, 1939) (2 copies)
5-10	Distillation of Coal Tar and Shale Tar (Bottrop-Boy, Feb. 9, 1939) (3 copies)
11-12	Distillation of Mud (Bottrop-Boy, Dec. 28, 1938) (2 copies)
18-19	Refining of Gasolines Recovered from Middle Oil Converted during Extraction (Bottrop-Boy, Dec. 22, 1941)
20	Duplicate of frame 3
21-23	Refining Experiments on High-Cut Gas-Phase Gasolines (Bottrop-Boy, May 6, 1941)
24-27	Blending Experiments with Gasolines Having Different Aromatic Contents (Bottrop-Boy, Jan. 21, 1941)
28-32	Pyridines from Gas-Phase Gasoline (Bottrop-Boy, Dec. 11, 1940) (Frames 30 and 31 are duplicates of frame 28; frame 32 is a duplicate of frame 29.)
33-34	Refining Tests on Gasolines Recovered over Catalyst 391 (Bottrop-Boy, Nov. 9, 1940)
35-40	Refining of Leaded Gasoline from Chamber 54 (Bottrop-Boy, Oct. 12, 1940)
41	Refining of a Dehydrogenation Gasoline (Bottrop-Boy, Sept. 24, 1940)
42-43	Refining Tests on Crude Gasoline from Gelsenberg-Benzin A. G. (Bottrop-Boy, Sept. 17, 1940)
44	Refining and Redistillation of Scholven-Benzin CV2b (Bottrop-Boy, Sept. 18, 1940)
45-46	Refining Tests on Technikum Gasoline Recovered over Catalyst 7019, February 1940 (Bottrop-Boy, July 9, 1940)
47-49	Refining Tests on Technikum Gasolines (Bottrop-Boy, July 3, 1940)

ITEM 7: PITCH COMPARTMENT CHLORINE BALANCE SHEETS

<u>Frame</u>	<u>Subject</u>
2-26	Monthly Chlorine Balances for Pitch Compartments (Bottrop 1942-4)
27-28	Contribution to the Knowledge of Chlorine Compounds in Ruhröel Products (Ruhröel G.m.b.H., Sept. 2, 1940)
29	Chlorine and Sulfigran Balance for July 1939 and March 1940 (Bottrop-Boy, April 15, 1940)
30	Chlorine Determinations in Welheim Products (Main Laboratory, Welheim, Feb. 18, 1939)

ITEM 8: PITCH COMPARTMENT BALANCE SHEETS

<u>Frame</u>	<u>Subject</u>
2-11	Monthly Product Balances for Sump-Phase Chambers (Bottrop, 1943 and 4)
12	Decomposition of Solids in Sump-Phase Chambers during 1943 (Bottrop, Sept. 17, 1943)
13-19	Monthly Product Balances for Sump-Phase Chambers (Bottrop, 1942 and 3)
20	Decomposition of Solids in Sump-Phase Chambers during 1942 (Bottrop, Jan. 16, 1943)
21	Product Balance for Sump-Phase Chambers 52 and 108 for November, 1942 (Bottrop, Dec. 22, 1942)
22-23	Composition of Gasified Material from Sump-Phase Chambers 52 and 108, October 12-22, 1942 (Bottrop, Dec. 4, 1942)
24-33	Monthly Product Balances for Sump-Phase Chambers (Bottrop, 1942)
34-37	Composition of Gasified Material from Sump-Phase and from Gas-Phase Chambers, November, 1941 (Bottrop, March 2, 1942)
38-52	Monthly Product Balances for Sump-Phase Chambers (Bottrop, 1940 and 41)
53-56	Carbon and Hydrogen Balance, Chamber 17 (Bottrop, Sept. 12, 1940)
57-61	Monthly Product Balances for Sump-Phase Chamber 17 (Bottrop-Boy, 1940)
62-64	Composition of Gasified Material from Sump-Phase and from Gas-Phase Chambers, March, 1940 (Bottrop-Boy, June 26, 1940)
65-66	Product Balances for Sump-Phase Chamber 17, January and February, 1940 (Bottrop-Boy, 1940)

Item 8 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
67-69	Composition of Gasified Material from Sump-Phase and from Gas-Phase Chambers, January, 1940 (Bottrop-Boy, April-3, 1940)
70-84	Monthly Product Balances (Bottrop-Boy, 1938-9)
85	Chlorine and Soda Balance for August 1938 (Bottrop-Boy, Sept. 21, 1938)
86	Product Balance Based on Data for August, 1938 (Bottrop-Boy, Sept. 16, 1938)
87	Hydrogen Balance for August, 1938
88	Hydrogen Balance for Oil Products, August, 1938
89	Product Balance Based on Data for April (Bottrop-Boy, May 27, 1938)
90	Hydrogen Balance for April, 1938
91	Hydrogen Balance for Oil Products, April, 1938

ITEM 9: VAPOR PHASE BALANCE SHEETS

<u>Frame</u>	<u>Subject</u>
8-39	Monthly Product Balances for Vapor-Phase Chambers (Bottrop, 1941-4)
40-43	Hydrogen Balance for Chamber 54a (Bottrop, Jan. 26, 1942)
44	Investigation of Charge and of Liquid from Liquid Separator
45-50	Monthly Product Balances for Vapor-Phase Chamber 54a (Bottrop-Boy, Jan. 10, 1942)
51-54	Hydrogen Balance for Chamber 54a (Bottrop-Boy, June 17, 1941)
55-73	Monthly Product Balances for Vapor-Phase Chamber 54a (Bottrop-Boy, 1939-41)

ITEM 10: MISCELLANEOUS INFORMATION AT 700 ATMOSPHERES

<u>Frame</u>	<u>Subject</u>
1-3	Letter, dated April 1, 1941, from I. G. Farbenindustrie A.-G. to Ruhroel G.m.b.H., Hugo Stinnes Plant. Subject: Measurement of Preheater Outlet Temperatures
9-10	Letter, dated Jan. 14, 1942, from I. G. Farbenindustrie A.-G. to Ruhroel G.m.b.H., Hugo Stinnes Plant. Subject: Conference on Gas Hydrates at Ludwigshafen, Dec. 4, 1941

Item 10 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
11	Names of people attending conference on gas hydrates at Ludwigshafen, Dec. 4, 1941
12	Agenda of conference on gas hydrates at Ludwigshafen, Dec. 4, 1941
13-35	Minutes of conference on gas hydrates at Ludwigshafen, Dec. 4, 1941
36-42	Gas Circulation for 700-Atmosphere Hydrogenation Chambers, with Special Reference to Measurement Technic (Ludwigshafen, Dec. 4, 1941)
45-46	Letter, dated Dec. 15, 1941, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop. Subject: Conference in Ludwigshafen Dec. 4, 1941
47	Letter, dated Nov. 26, 1941, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop. Subject: Conference in Ludwigshafen Dec. 4, 1941
48	Letter, from Dr. Pier to Ruhroel, Bottrop, concerning conference in Ludwigshafen Dec. 4, 1941
49	Precipitation in Coal Chambers 13 and 15 at Poelitz (Poelitz, Nov. 21, 1941)
50-51	Letter, dated Feb. 20, 1945, from Ruhroel, Bottrop, to I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein. Subject: Conference on Heat Exchangers
52-53	Letter, dated Feb. 2, 1945, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Bottrop. Subject: Conference on Heat Exchangers
54	Letter, dated Nov. 10, 1944, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop. Subject: Pressure Stabilization of Condensate. (Secret)
55-58	Liquid separation systems for sump- and vapor-phase operations (Stettin-Poelitz, Oct. 12, 1944)
59	Letter, dated Sept. 30, 1944, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop. Subject: Use of Gas-holders
66	Letter from Ruhroel G.m.b.H. to I. G. Farbenindustrie A.-G. (Illegible)

Item 10 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
67-68	Letter, dated March 30, 1944, concerning lubricants, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhröel G.m.b.H., Hugo Stinnes Plant, Bottrop
69	Handwritten note to Vollmer, signed "R"
70-75	Report on saving of lubricants in hydrogenation plants (Wesseling, Dec. 22, 1943)
76-90	Calculations concerning gas hydrate formation (I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, July 29, 1942)
91	Handwritten distribution sheet
92	Small record sheet
93-100	Report on Two Accidents at Poelitz (I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, July 17, 1942)
109	Short Discussion of Material in the 700-Atmosphere Chamber
110-118	Comparison of Washing and Expansion at 700 Atm. (Ruhröel G.m.b.H., April 24, 1939)
119-124	Data on Operation of 700-Atmosphere Unit: Corrosion by Chlorine, Addition of Sulfigran, and Increased Partial Pressure of Hydrogen Sulfide (Ruhröel G.m.b.H., April 24, 1939)
125-128	Letters etc. relating to celebration of Dr. Matthias Pier's 60th birthday, July, 1942
129	Transmittal letter, relating to pages 130-137, dated March 29, 1938, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Gewerkschaft Matthias Stinnes, Bottrop-Boy
130-133	K-Values for the Regeneration Unit and the Preheater of the Extract-Hydrogenation Chambers at Welheim (March 26, 1938)
134-137	Resistance Coefficients for Extract-Hydrogenation Chambers at Welheim (March 26, 1938)
138-144	Establishment of Standard Methods for Examining Raw Materials, Intermediates, and Products in Coal Hydrogenation (Gelsenberg Benzin A.-G., Gelsenkirchen-Horst, July 23, 1940)
145-152	System of Analysis of Raw Materials, Intermediates, and Products in Coal and Pitch Hydrogenation Used by Ruhröel G.m.b.H., Bottrop (Feb. 5, 1941)

Item 10 (Cont'd)

<u>Frame</u>	<u>Subject</u>
163-166	Prevention of Explosions in Air Fractionation Units (I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, Nov. 9, 1943)
167	Transmittal letter, relating to pages 168-171, dated May 1944, from I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein, to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop
168-171	Report on a fire in a gasholder (Union Rheinische Braunkohlen Kraftstoff A.-G., Wesseling, March 3, 1944)

ITEM 11: YIELDS AND BALANCES

<u>Frame</u>	<u>Subject</u>
1	Sulfur Balance (Ruhroel G.m.b.H., Bottrop, July 18, 1944)
2-5	Sulfur balances (March 1944)
6-7	Accumulation of Hydrogen Sulfide and Ammonia (Bottrop-Boy, Jan. 12, 1939)
8-11	Calorific Value of Residual Gas from the Linde Unit (Bottrop-Boy, Aug. 15 and 26, 1938)

ITEM 12: PLANT EXTRACTION BALANCES

1-2	Extraction Report for May and June, 1944 (Ruhroel G.m.b.H., Bottrop, July 6, 1944)
3	Extraction Calculation for May 1944 (Ruhroel G.m.b.H., Bottrop, June 8, 1944)
4	A-Middle Oil Charged to Extraction and A-Middle Oil Consumed during 1943 (Ruhroel G.m.b.H., Bottrop, May 11, 1944)
5-12	Monthly extraction reports (Ruhroel G.m.b.H., Bottrop, 1944)
13-15	Extraction Report for the Year 1943 (Ruhroel G.m.b.H., Bottrop, Jan. 14, 1944)
16-24	Monthly extraction reports, 1943 (Ruhroel G.m.b.H., Bottrop, 1944)
25	Solvent Stocks (Ruhroel G.m.b.H., Bottrop, Sept. 22, 1943)
26-42	Monthly extraction reports, 1943 (Ruhroel G.m.b.H., Bottrop)
43	Personnel report (Welheim, Aug. 8, 1937)

Item 12 (Cont'd)

<u>Frame</u>	<u>Subject</u>
44	Extraction Report for January and February 1943 (Ruhroel G.m.b.H., Bottrop, March 11, 1943)
45	Personnel report (Welheim, Aug. 7, 1937)
46	Continuation from frame 44
47	Extraction Report for Period Dec. 31, 1942, to Feb. 9, 1943 (Ruhroel G.m.b.H., Bottrop, Feb. 17, 1943)
48-50	Balance sheets for coal extraction (Bottrop, Feb. 3, 1943)
51-73	Extraction reports, 1942 (Ruhroel G.m.b.H., Bottrop, 1942 and 1943)

ITEM 13: LABORATORY ANALYSES OF GASES, OILS, AND SOLID EXTRACTIONS

<u>Frame</u>	<u>Subject</u>
1-3	Examination of Gas from Extraction Process before and after Oil Wash (Ruhroel G.m.b.H., July 22, 1942)
6	Analysis of Gas from Extraction (Ruhroel G.m.b.H., June 4, 1942)
7	Examination of Dry Residual Coal from the Extraction Process at Welheim Dec. 24, 1942 (Essen-Karnap, Dec. 30, 1942)
8	Ultimate Analysis of Coal of Extract, and of Residual Coal, on Ash-Free Basis (Ruhroel G.m.b.H., April 25, 1942)
9	Examination of Dried Ground Coal Charged to Extraction (Ruhroel G.m.b.H., Feb. 13, 1942)
10	Examination of Coal Extract (Ruhroel G.m.b.H., Feb. 13, 1942)
11	Examination of Gas 7 (Ruhroel G.m.b.H., Feb. 10, 1942)
12	Examination of Extraction Off-Gas (Ruhroel G.m.b.H., Feb. 3, 1942)
13	Examination of Dried Ground Coal Charged to Extraction (Ruhroel G.m.b.H., Jan. 15, 1942)
14	Examination of Coal Extract (Ruhroel G.m.b.H., Jan. 15, 1942)
15	Analysis of Gas 7 (Ruhroel G.m.b.H., Jan. 10, 1942)
16-21	Forms for reporting analyses of middle oil
22-23	Examination of Coal Extract (Ruhroel G.m.b.H., Jan. 10, 1942)



Item 13 (Cont'd)

<u>Frame</u>	<u>Subject</u>
24-25	Examination of Dry Ground Coal Charged to Extraction (Ruhroel G.m.b.H., Jan. 10, 1942)
26	Ash contents and melting points (Bottrop, Nov. 26, 1941)
27	Examination of A-Middle Oil from Pitch Liquefaction, (Bottrop, Nov. 10, 1941)
28	Distillate from Preconcentration (Bottrop, Nov. 26, 1941)
29	Distillate from After-Concentration (Bottrop, Nov. 26, 1941)
30	Data on residual coal (Bottrop, Nov. 26, 1941)
31	Moisture and ash contents of coal (Bottrop, Nov. 26, 1941)
32	Data on coal-decomposition products (Bottrop, Nov. 26, 1941)
33	Data on coal oil from an extraction chamber (Bottrop, Nov. 26, 1941)
34	Analysis of Welheim Extract Coke (Ruhroel G.m.b.H., Nov. 4, 1941)

ITEM 14: ERECTION COSTS, ETC.

<u>Frame</u>	<u>Subject</u>
17-18	Letter, dated Feb. 20, 1945, from Ruhroel G.m.b.H. to I. G. Farbenindustrie A.-G., Ludwigshafen am Rhein. Subject: Heat Exchangers
19-26	Regeneration of Extraction Middle Oil at High Pressure in a Special Gas-Phase Chamber (Ruhroel G.m.b.H., Bottrop, Aug. 24, 1943)
27	Letter, dated Aug. 4, 1941, from Ruhroel G.m.b.H. to Gelsenberg Benzin A.-G. Subject: Coal Extraction
28	Same as frame 27, but addressed to Scholven Hydrogenation Plant, Gelsenkirchen
29	Elevation of electrode coke plant (Ruhroel G.m.b.H.)
31-34	Letter, dated Jan. 10, 1941, from Heinrich Koppers G.m.b.H. to Ruhroel G.m.b.H., Hugo Stinnes Plant, Bottrop. Subject: Extract Recovery Plant, Welheim
36	Cost Estimate for Electrode Coke Production (Ruhroel G.m.b.H., Bottrop, Oct. 24, 1939)
37	Estimates for Coal Extraction (Ruhroel G.m.b.H., Bottrop, Aug. 4, 1941)

Item 14 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
38-41	Cost Estimates for Coal Extraction (Bottrop, July 17, 1942)
49	Letter, dated Oct. 25, 1941, from Ruhroel G.m.b.H. to Reichsauftragten f. Kohle, Berlin. Subject: Electrode Coke
50-52	Expansion of Extract Plant (Ruhroel G.m.b.H., Bottrop, Jan. 27, 1942)
53-57	Estimates for Expansion of Electrode Coke Plant (Ruhroel G.m.b.H., Bottrop, July 22, 1942)
58-59	Estimates for Expansion of Electrode Coke Plant (Ruhroel G.m.b.H., Bottrop, Sept. 28, 1942)
60-61	Protection of Electrode Coke Plant from Air Attacks (Ruhroel G.m.b.H., Bottrop, Sept. 28, 1942)
62-63	Amendment to the Cost Estimate of July 17, 1942, for Extract (Bottrop, Sept. 2, 1942)
64-65	Charging Middle Oil to the 700-Atmosphere Sump-Phase Chambers (Bottrop, Feb. 8, 1943)
66	Letter, dated June 9, 1943, to Reichskommissar for Prices, signed "Hess". Subject: Price of Extract
67	Payment for Residual Coal from Extraction (Ruhroel G.m.b.H., Bottrop, July 15, 1943)
68	Letter, dated July 24, 1943, from Ruhroel G.m.b.H., Hugo Stinnes Plant, to Chemische Werke Huels G.m.b.H. Subject: Coal Extract
69	Evaluation of Extract (Essen, July 24, 1943)
70-78	Letter (3 copies), dated July 30, 1942, from Ruhroel G.m.b.H. to Reichsamt fur Wirtschaftsausbau, Berlin. Subject: Second Expansion of Extraction Plant; Extract Coke.
79-87	Estimates for Expansion of Coal Extraction Plant (Ruhroel G.m.b.H., Bottrop, July 22, 1942)
88	Prices for Electrode Coke and Extract (Ruhroel G.m.b.H., Bottrop, Aug. 20, 1943)
89	Cost Estimates for Regeneration Chamber for Extract Middle Oil (Bottrop, Aug. 18, 1943)
90	Flow Sheet for Coal Extraction Process

ITEM 15: ANALYTICAL METHODS, FISCHER-TROPSCH, RUHRCHEMIE

91 frames

Note: - Determination of iron carbonyl, frame 54, was abstracted. See page 52 of this report.

ITEM 16: EXPERIMENTAL - GENERAL

<u>Frame</u>	<u>Subject</u>
1-4	Corrosion Experiments with Middle Oil and Phenols (Ruhrcoel G.m.b.H., Bottrop, June 23, 1942)
8-9	Expulsion of Solvent from Moist Residual Coal, with and without Addition of Water Vapor (Ruhrcoel G.m.b.H., Bottrop, April 24, 1942)
10-16	Orientation Experiments on Polymerization of Ethylene and of Gas Oil (Bottrop-Boy, Jan. 9, 1940)

ITEM 17: LIQUID PHASE - EXPERIMENTAL

<u>Frame</u>	<u>Subject</u>
1-13	Hydrogenation Experiments with Welheim Sump-Phase Middle Oil

ITEM 18: FILTRATION EXPERIMENTS

<u>Frame</u>	<u>Subject</u>
1	Filtration Experiments with Crude Decomposition Product and Mud (Ruhrcoel G.m.b.H., Bottrop, May 5, 1942)
2-4	Treatment of Pitch-Coke Oil from Rauxel Pitch-Coke Plant (Ruhrcoel G.m.b.H., Bottrop, Feb. 24, 1942)
5	Precipitation from Pure Filtrate at Various Temperatures (Bottrop-Boy, April 11, 1940)
6-7	Regeneration of Filter-Candle Stones (Bottrop-Boy, Oct. 18, 1937)

ITEM 19: EXTRACTION EXPERIMENTS

<u>Frame</u>	<u>Subject</u>
1-2	Summary of Experiments on Catalytic Pressure-Refining of Light Oil from the Coke Plant (Technikum Welheim, July 14, 1938)
4	Analyses from the Hydrogenation Division (Welheim, Jan. 14, 1938)
5	Flow Sheet for Production and Hydrogenation or Extract
6-7	Extraction (Bottrop, July 23, 1940)

Item 19 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
8-10	Examination of Extraction Solvent before and after Passage through the Extraction Chamber, in the Presence and in the Absence of Hydrogen (Ruhroel G.m.b.H., April 17, 1940)
11-12	Extraction Experiments, March 14 to April 5, 1940 (Bottrop-Boy, April, 1940)
13-14	Extraction (Bottrop-Boy, Nov. 21, 1939)
15	Coal Decomposition with Middle Oil
16-19	Extraction Calculations, October 26 to November 23, 1938 (Ruhroel G.m.b.H., Bottrop, Dec. 23, 1938)
20	Letter requesting comments on a report (Ruhroel G.m.b.H., Bottrop, Dec. 22, 1938)
21-22	Plan for Extraction Experiment with Special Solvent (Ruhroel G.m.b.H., Bottrop, Dec. 21, 1938)
23-26	Continuous Coal Extraction (Sept. 24, 1938. Almost illegible.)
27, 29-30	Balance for Coal Extraction (Karnap, Dec. 5, 1938)
31-36	Experiments on Preparation of Extraction Paste in Unit 14 (Bottrop-Boy, July 7, 1938. Three copies)
37-38	Engler Distillations (routine)
39	Properties of Filtrate
40	Solidification-Point Curves for Extract Mixtures
41-50	Coal Decomposition with Welheim Heavy Gasoline (Essen-Karnap, July 5, 1938)
51-56	Separation of Part of the Solvent from an Extract-Solvent Mixture by Distillation in a Hempel Column (Bottrop-Boy, June 22, 1938. Three copies.)
57-59	Decomposition with Welheim Distillate from the First Period of Operation (Essen-Karnap, June 1, 1938)
60-62	Hydration of Extraction Naphthalene (Essen, May 28, 1938)
63	Anthracene Oil from Tar Plant M. St. 1/2 for Welheim (Essen, May 28, 1938)
64-65	Composition of and Distillation Products from Material from Liquid Trap during the Period of Successful Operation, April 15 and 16, 1938 (Welheim, April 26, 1938)

Item 19 (Cont'd.)

<u>Frame</u>	<u>Subject</u>
66	<u>Distribution of Chlorine among Fractions of the Material from the Liquid Trap (Welheim, April 13, 1938)</u>
67	<u>Precipitation of Extract from Pure Filtrate with Normal Gasoline (Essen-Karnap, April 13, 1938)</u>
68-77	<u>Crude Decomposition Product, Chamber 12 (Bottrop-Boy, 1938)</u>
78-85	<u>Comments on Dr. Mueller's Reports of November 29 and December 12, 1938 (Bottrop-Boy, Jan. 3, 1938. Four copies)</u>
86-89	<u>Conducting of Pressure Extraction Experiments in Accordance with the Instructions of Dr. Thomas and Dr. Maeschenborn (Bottrop-Boy, Aug. 15, 1937)</u>
90	<u>Engler distillation of an oil (July 30, 1937)</u>
91-107	<u>Experiments on Extraction of Coal in the Absence of Acid Oils (Four copies and transmittal letter, Welheim, July 1, 1937)</u>
108	<u>Solvent Distribution among Crude Decomposition, Filtration, Distillation, and Cooling (Essen-Karnap, Sept. 9, 1936)</u>

ITEM 20: BOTTRUP ANALYTICAL

<u>Frame</u>	<u>Subject</u>
1-49	<u>Specifications for Properties and Examination of the Products of the Verkaufvereinigung fuer Teererzeugnisse G.m.b.H. Essen (Loose-leaf manual)</u>
50-79	<u>Organic Reagents for Metals, E. Merck, Darmstadt (Copy belonging to main laboratory of Ruhroel G.m.b.H., Hugo Stinnes Plant)</u>