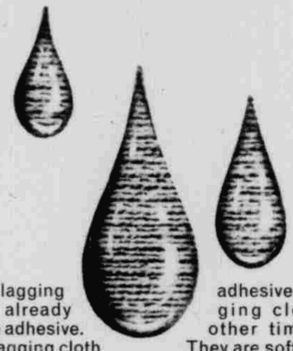
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ASBESTOS

VOLUME 49 JULY 1967 NUMBER 1

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COUNTING THE COST IN ASBESTOS OPERATIONS

By: W. E. Sinclair*

Even though the principal factors involved in the determination of the cost of any work are similar for the same work in most instances, there is, nevertheless, a difference due to price elasticity. The only exception is the production of a commodity of a fixed standard value, such as gold, whose value is stable. In all other cases, price elasticity and variable values, and possibly a large number of diverse steps in processing operations, all tend to somewhat complicate the question. Asbestos production obviously falls into this category, with the additional problems of the variation in value and the uncertain and variable demand for the large number of different grades produced.

However, there is a common basis in arriving at the unit cost of each job or all of any work by the simple formula that working costs are a division of expenditure for some unit. It may not be and mostly is not possible to adopt a common unit basis in arriving at cost factors. However, where these constitute a basic working cost figure of labor and materials, plus power used and other immediate and direct charges, the results are used primarily for comparative purposes to determine the efficiency of the work done. Nevertheless, the wide variations in physical and economic environment are so likely to vitiate conclusions from comparison, that the greatest care is necessary in their application.

In addition to these direct charges in working costs, there must be reckoned the cost items known as overhead or fixed charges that vary in each case depending on factors peculiar to certain operations. These expenses do not decrease or increase relatively to output, where as direct working costs are a direct coefficient of the output or the work done. Yet another expense charge usually associated with direct working costs consists of a division of development charges and the cost of new equipment and so on. These proportional costs are extracted from what is usually

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a suspense account and spread proportionately over the job concerned.

General operating expenses of any undertaking or part thereof depend on the following three distinct expenditure groups:

1. Direct costs of labor employed, supplies used (both consumable and spare parts, etc.) and power consumed.
2. Suspense account charges, made up of mine development, equipment purchased and depreciation on plant, etc., charged out proportionately to all primary jobs.
3. Indirect costs are made up of proportional charges known generally as "overheads". These ususally consist of a fixed amount comprising a part of the costs of administration, rents, taxes, local expenses and other general expenses. Also included are proportional charges of the redemption of capital expended.

In this way, every unit produced bears its contribution to the return of the investment as well as a share of the profits. In large scale operations where the original capital outlay was high, the indirect overhead charges add considerable to operational costs. Conversely, however, large scale workings normally effect lower working costs (direct) when methods employed are economically controlled. This opposition of direct costs and overheads constitutes the first step in economy, since this expenditure is reflected directly in a cost per unit basis, whereas the overhead amount is unaffected. The aim then is to increase output and lower the labor and stores costs. However, it might, in some cases, be economical to actually raise the cost per day (that is mainly labor) if the output can be increased in greater proportion. This again depends on the value of the asbestos produced.

The amount of proportional overheads (mainly redemption of capital expended) is usually fixed in the early stages of an enterprise. An analysis of the initial capital expenditure, with other expenses, forms the basis of the amounts to be written off on routine production jobs. It is simply a matter for treatment in the incipient establishment of the project.

Working costs sheets, if not too complicated, although allowing for the limitations in accuracy of direct working costs, do furnish statistical data that assists in disclosing

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the standard of efficiency of the work being done. Such a dissection of the expenditure on various jobs, enables one to determine the feasibility of labor adjustments to effect greater efficiency and economy, also it provides a means of checking a possible source of wastage or excess expenditure.

EXPLORATION

Production patterns change according to various changing economic factors, but the insistent demand for raw materials continues and, judging by the industrial advance, is likely to be greater in future years because of the growing utilization of asbestos; a mineral that is already a wasting asset according to the estimates of world resources. This then points to the importance and urgency for the exploration of new fields.

At first sight it might seem that the primary work involved in locating and exploring the extent and value of a mineral deposit would hardly enter into the sphere of economics, viewed in the sense of comparative unit costs, as is usual in productive operations. Nontheless, it will be clearly seen that even without a yardstick, such as cost per ton, or any other standard unit, care is essential to avoid waste and high costs.

By whatever means employed to prove whether a deposit is payable or otherwise, exploration involves in engaging in a somewhat hazardous and risky business where a considerable and unknown capital outlay is inevitable. This is a point that strengthens the need for the strictest economy in directing the expenditure of time and labor judiciously and without waste, under conditions where the element of chance is ever prevalent.

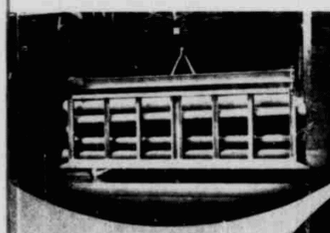
The sum total spent on such work, in most cases, is redeemed during the life of the mine, if the result of exploration proves a payable proposition. The capital spent is usually redeemed by the simple process of appropriation of a portion of the annual income to a sinking fund, that is, it amounts to a system of amortization. Alternatively, a proportional amount of the total capital may be borne as an overhead on working costs in the same manner as subsequent development expenditure is proportionately charged to operating costs, as a fixed charge.

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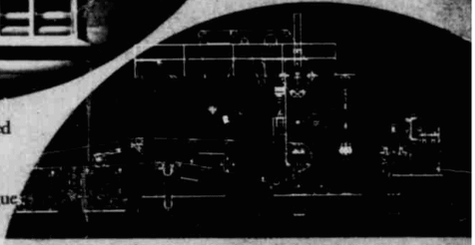


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In these circumstances, it is obvious that to alleviate these overhead charges in the ultimate working life of the mine, it is essential that every care be exercised in the preliminary exploratory operations. In work of this kind it is often found that waste and slackness are frequently synonymous, simply because of the absence of the competitive urge in productive standards.

DEVELOPMENT

When it comes to a stage of the opening up and exploitation of any newly discovered proposition, it is natural that the fostering of a productive capacity large enough to meet the capital outlay according to the calculated life of the mine will be studied from many different angles. Besides the methods decided upon to attain the desired output, several economic factors, not only in actual mining but in complementary and ancillary operations, all play an important part.

The primary consideration in this respect is, of course, the matter of development to establish the necessary openings to achieve economic extraction methods.

The likely ultimate depth of any shaft is an important consideration in the matter of design and capacity. Provision must be allowed for altered conditions in the form of the orebody at depth notwithstanding the results of exploratory drilling. Any extension of orebodies must be considered as tentative and therefore, the planning of extremes should be made to allow for possible eventual changes. The average cost of development openings such as shafts, tunnels, winzes and raises are extremely variable because of the varied nature of such development openings.

All development is a costly business and more especially the cost of equipment necessary in shafts, the main point that makes shaft sinking nearly four times the cost of driving. However, the acquisition of plant and equipment is a useful investment until it wears out, by which time it has been duly written off by systematic depreciation. Development openings are also a necessary item until such time as the mine is worked out. The capital expended on such work, plus the interst on it, is redeemed during the life of the mine.

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Nevertheless, because of the initial heavy outlay on development, such as shafts, that must serve the full life of the mine, extreme economies must be practiced in this work, mainly because hoisting is faster and less time is taken in filling and emptying skips.

Some of the factors influencing costs may be briefly noted by the following conditions: (a) the nature of the rock formation; (b) size and depth of shafts; (c) type of shaft, whether vertical or inclined or compound; (d) speed of sinking or driving. These conditions may affect all primary development except that costs vary considerably according to the equipment necessary.

EXPLOITATION

Extraction systems demand careful deliberation because of the many different conditions affecting efficient recovery consistent with calculated requirements.

As a general rule, production costs depend entirely on the mining methods employed and on the fundamentals of efficient operations. Generalization of the many factors that either directly or indirectly influence efficiency and economic extraction will be found to include both the practical and mechanical aspect in every sphere, and the control of operations of every kind. As already suggested, higher and cheaper productivity depends also on the judicious direction of labor, time and money, and the absolute avoidance of waste of materials. It is the cautious employment of these factors, to obtain positive results, that constitute the basis of productive efficiency and low costs.

*Deceased

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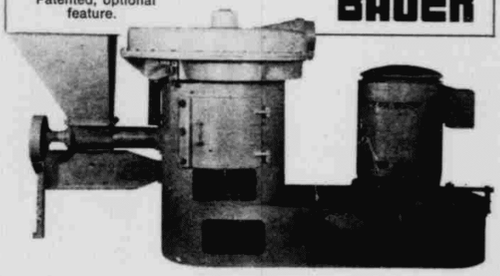
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BRAKE SAFETY

(With all the controversy over automotive safety, Raybestos-Manhattan's Grey-Rock Division, a leading manufacturer of brake linings, has issued a brake safety kit containing six fact sheets of accurate technical material on brakes—one of the most vital safety features of a vehicle. Grey-Rock's experts will be glad to elaborate on any of this material or answer questions, that might arise, particularly at the time that state or federal safety standards might be imposed on all automobiles sold in the United States.)

(Fact Sheet No. 3 on Lack of Uniform Brake Lining Standards is published below. The remaining fact sheets will appear in future issues of ASBESTOS and will cover what mechanics should check and repair in inspecting brakes, tips on using brakes safely, and quotes from experts on brakes. Fact Sheet No. 1—Brake Types appeared in March 1967 ASBESTOS. Fact Sheet No. 2—Brake Lining Test Failures appeared in May 1967 ASBESTOS.)

No. 3—Lack of Uniform Brake Lining Standards

Less than half of the states of the United States require periodic inspection of motor vehicles. Only four (and these very recently) have set minimum standards for replacement brake linings. Laws requiring brake lining standards of Kentucky, Massachusetts, New York and Pennsylvania are not uniform and, for the most part, are inadequate or not yet in force.

Some states, for example, provide for testing of small "swatches" of brake lining material on machines designed, not to simulate driving conditions, but to test uniformity of materials. These machines do not test complete brake linings as installed in a vehicle. Heat is imposed from the outside instead of being generated by the lining itself as the result of the friction of braking action. The many variables of driving conditions cannot be simulated by the machines.

Only Pennsylvania required that replacement brake linings pass severe road tests in order to be authorized for sale in the state after January 1st, 1967.

The Pennsylvania test could become a model for other states and the federal government. In this test, brake drums are first checked to see that they meet the car manufacturer's specifications. Linings and other components are installed properly and in good condition. The linings are then subjected to a series of many stops at different speeds and under various operating conditions.

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The linings must be capable of stopping the vehicles within prescribed distances and must survive mechanically throughout the tests. The tests include stopping when brakes are hot and when they are cold, and when linings are wet—as in actual driving conditions.

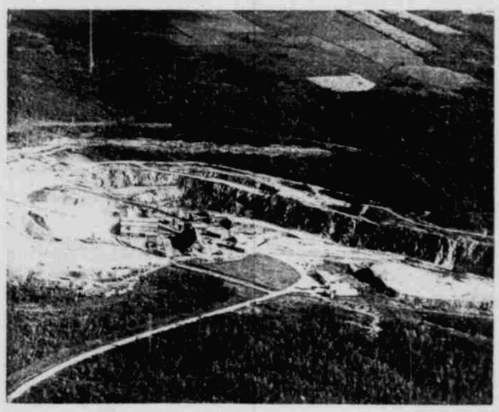
In view of the fact that many replacement brake linings have been found inadequate for today's driving conditions (See Fact Sheet No. 2 on Brake Lining Test Failures), provisions for stringent road testing seem imperative for the public safety. Federal legislation could have an advantage over legislation by individual states in that it could impose uniform standards nationwide in the least possible time.

(Note: Copies of a highly effective brake lining road test are available on request from the Grey-Rock Division of Raybestos-Manhattan).

PRODUCERS' COUNCIL ANNUAL MEETING — Workshops on the "Impact of Building Systems on Construction in the '70's" and "Cities—New and Renewed" will highlight the 46th annual meeting of the Producers' Council, a national organization of building products manufacturers, scheduled for September 19th through 22nd, 1967, at the Hotel America, Houston, Texas. In announcing the program, Council President Earl F. Bennett said the overall theme would be "Planning for the '70's . . Will today's products meet the needs?"

CERTAIN-TEED PRODUCTS CORPORATION has issued a four-page brochure introducing its "new look". The purpose of this brochure is to point out as graphically and simply as possible the broad scope of Certain-teed today and the extent of its services to the building and construction industry. The company has also adopted a new corporate symbol to reflect its new capabilities. Certain-teed today includes five divisions (building materials, pipe, plastics, Gustin-Bacon, and Cameron wholesale) and a nationwide network of manufacturing facilities and offices.

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A-C Sheet As Canal Bulkhead

Corrugated asbestos-cement sheet exposed for five years as a canal bulkhead was recently removed, examined, and found to be in excellent condition. Details of this test program were presented at a recent meeting of the Research Subcommittee of ASTM Committee C-17 on Asbestos-Cement Products by G. R. Munger of the Mineral Fiber Products Bureau.

In the test program, sponsored by MFPB, samples of sheet from four manufacturers were subjected to five years as bulkheads in the Brielle-Manasquan, New Jersey, Inlet, and then removed for examination and testing. No surface delamination or cracking was seen on any of the sheets. Normal-cured sheets showed no surface deterioration. Steam-cured sheets showed some surface softness and abrasion to a maximum depth of about 20 mils. Under these exposure conditions, the asbestos fibers apparently tend to develop a protective surface over the binder, if they are not disturbed, and penetration of surface softness is retarded.

Barnacle and vegetable growth on the sheets did not penetrate the surface. A steel scraper used to remove the marine growth did not damage the surface. Finally, the strength properties of the sheets were not significantly affected by this long-term salt-water exposure in a freeze-thaw climate. In some cases, in fact, apparent strength increases were noted.

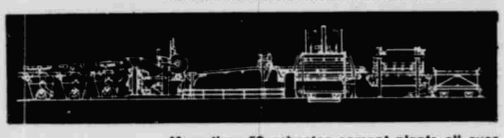
Additional sheets are still in place and will be examined and tested after more exposure.

(Reprinted from Materials Research & Standards—June 1967)

EDGAR R. GERVAIS, 68, retired industrial relations manager for Johns-Manville Corporation, died June 16th, 1967, after a long illness. Mr. Gervais joined J-M in 1937 as assistant industrial manager at Nashua, New Hampshire. In 1939, he was placed in charge of all industrial relations functions at the Nashua and Billerica plants of the company.

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JOHNS-MANVILLE AT EXPO '67—Johns-Manville Corporation and its varied products play a number of roles in Canada's Expo '67. As a leading mining and industrial company in Canada, J-M has its own exhibit, located in the Pavilion of Quebec Industries, on the MacKay Pier. This exhibit tells the story of J-M contributions to Canadian economic growth and shows the diversity of products produced and marketed by J-M in Canada and overseas.

Through its membership in the Quebec Asbestos Mining Association, J-M is also a parteipant in the 4,000 square foot plaza sponsored by the asbestos industry, between the Canadian Pavilion and the Engineers' Plaza on Notre-Dame Island.

Numerous J-M building materials were selected for use in many of the Expo Pavilions and J-M people helped in their construction. Among these are the Canadian Pavilion, Netherlands Pavilion, Art Gallery, Czechoslovak Pavilion, Expo Stadium, and the CBC Broadcasting Center.

J-M DATA PROCESSING CENTER—Johns-Manville Corporation will consolidate its corporate financial functions, systems planning, and data processing in a new Data Processing and Accounting Center now under construction at Finderne, New Jersey. The new two-story, 40,000 square-foot building, adjacent to the company's Research and Engineering Center, incorporates the most recent developments in computer installation. It will have precise temperature and humidity controls and a back-up emergency power system. The Data Processing Center will coordinate administrative procedures for more than 100 J-M plants and sales offices throughout the United States and Canada. In addition to preparation of financial and accounting data, the company's almost 300 personnel now in nearby buildings who will be assigned to the new Center are applying computer technology to inventory and production control, research and engineering projects, marketing studies and other advanced applications. The building will also be a showcase for the company's own building materials which are being used throughout.

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Asbestos Textile Institute

The June 8th and 9th, 1967, meeting of the Asbestos Textile Institute was held at the Lucerne Motel, Montreal, Canada. The several committees met on Thursday morning, then all members, many of whom were accompanied by their respective wives, boarded special chartered buses for Expo '67 to attend a reception and luncheon at the Quebec Pavilion. The hosts were the five companies in Canada who are members of the Institute. Following the luncheon, the afternoon and evening were spent viewing the many interesting exhibits at the Expo.

On Friday morning the general meeting was held and the principal speaker, Mr. Harold R. Lynch, of Davis & Furber Machine Company, spoke on "Researching A Fresh Approach for the Carding of Asbestos Fibers, and the Promising New Rubber Design for Condensing Asbestos Roving."

Mr. J. L. Rainey, president of ATI, presented a Certificate of Appreciation in the form of a handsome plaque, to Mr. Staton J. Peele, Jr., of Uniroyal, Inc., as a token of appreciation for his faithful service in furthering the work of the Institute and the asbestos textile industry. Mr. Peele will no longer be actively associated with ATI as his duties at Uniroyal have been realigned and he is no longer responsible for their asbestos textile products.

THE NEXT MEETING of the Institute will be held at the William Hilton Inn, Hilton Head Island, South Carolina, October 5th and 6th, 1967.

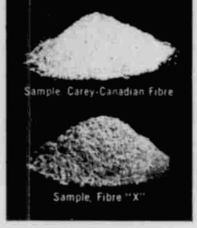
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Brooklyn, N.Y.	Smith Chemical & Color Company
Buffalo, N.Y.	Commercial Chemicals, Inc.
Chicago, Ill.	Chicago Firebrick Company
Cleveland, Ohio	Donald McKay Smith, Inc.
Dallas, Texas	Thompson-Hayward Chemical Company
Davenport, Iowa	Thompson-Hayward Chemical Company
Des Moines, Iowa	Thompson-Hayward Chemical Company
Detroit, Mich.	A. E. Fleming Company
Garwood, N.J.	Asbestos Corporation of America
Houston, Texas	Thompson-Hayward Chemical Company
Indianapolis, Ind.	Thompson-Hayward Chemical Company
Kansas City, Mo.	Thompson-Hayward Chemical Company
Knoxville, Tenn.	A. G. Heins Company
Little Rock, Ark.	Thompson-Hayward Chemical Company
Los Angeles, Calif.	E. S. Browning Company
Memphis, Tenn.	Thompson-Hayward Chemical Company
Milwaukee, Wisc.	Sprinkmann & Sons
Minneapolis, Minn.	Thompson-Hayward Chemical Company
New Orleans, La.	Thompson-Hayward Chemical Company
Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

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Bell Asbestos Mines Ltd.

Bell Asbestos Mines Ltd., of Thetford Mines, Quebec, Canada, a wholly-owned subsidiary of Turner & Newall Limited, Manchester, England, has purchased a 22-acre tract of land in the greater Vancouver, British Columbia, area on which it is planned to erect a plant for the manufacture of asbestos-cement products. The site was purchased from Columbia Estate Company Limited and is located on the main line of the British Columbia Hydro Railway.

Atlas Asbestos Company, a division of Bell Asbestos Mines Ltd., manufactures asbestos-cement products at 5600 Hochelaga Street, Montreal, and presently has a sales office and warehouse on Annacis Island in Vancouver.

Cassiar Asbestos Corporation Limited, owners of the Cassiar Mine in British Columbia and the Clinton Creek Mine in the Yukon, were instrumental in suggesting that Turner & Newall establish an asbestos-cement products factory in British Columbia.

MINING RESEARCH LAB/ALASKA—Immediate establishment of a new mining research laboratory on Juneau Isle, Alaska, has been announced by the U.S. Bureau of Mines. It is being set up to help further the research and development necessary for realizing the 49th State's potential as a source of essential minerals and fuels. Overcoming the natural barriers that hinder expansion of mineral production in Alaska will be a primary objective of the new facility. The mining research and development work to be conducted there will effectively supplement the economic evaluations of Alaska's mineral resources, which the Bureau has been making for many years. The laboratory's first project will be to test a new approach to the mining problems caused by permafrost.

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A6

Automobile Sales

APRIL 1967 motor vehicle factory sales from plants in the United States totaled 792,137 (passenger cars—659,790; trucks and buses—132,347). The total for April 1966 was 963,222. The total for the first four months of 1967 was 3,082,990 compared to 3,920,725 for the same 1966 period.

Motor vehicle factory sales from plants in Canada totaled 84,020 in April 1967 compared to 83,724 in April 1966.

QUEBEC ASBESTOS/EXPO '67—Not noted by the millions of visitors who each week stream through the Expo turnstiles, asbestos is there. Here are some of the countries using Quebec's asbestos in their national exhibits: Russian Pavilion uses asbestos-cement pipe; Australian Pavilion employs sprayed-on asbestos fibre; Netherlands Pavilion has an asbestos-cement sheet exterior; Thailand Pavilion's suspended ceiling is of asbestos-cement sheet; and, the British Pavilion alone uses over 181 tons of construction, piping and insulating materials containing asbestos. Other Expo exhibits and facilities in which Quebec's asbestos is used include: Habitat 67, Place d'Accueil, Quebec Industries Pavilion, the World Broadcasting Centre at the MacKay Pier; security buildings, St. Helen's Island, the International Nickel Pavilion Company (Inco) Pavilion; Man the Worker Theme Pavilion; concessionaires' warehouse, marine maintenance depot, numerous electrical service facilities, and in a host of the buildings at the fabulous La Ronde amusement area. Asbestos is even featured in the Expo-Express cars that whisk its riders from the Place d'Accueil to the Expo grounds. In short, when you visit Expo, don't bother looking for asbestos—it is all around you.

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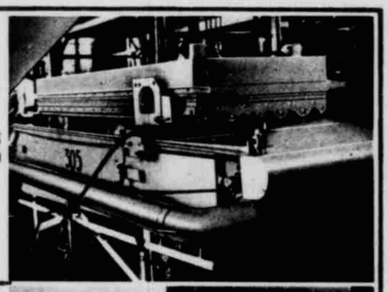
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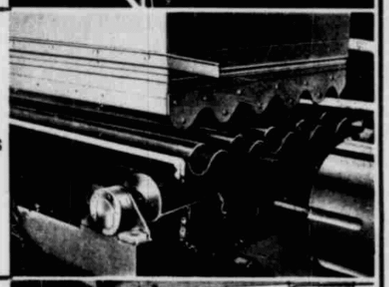
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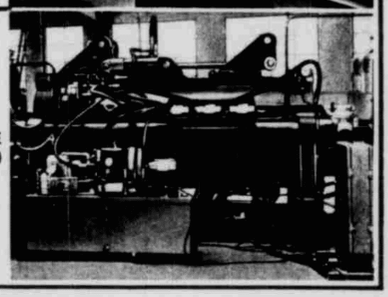
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Building

MAY 1967 was a big month for the construction industry as a solid gain in housing pushed the month's total of construction contract value over the $5-billion mark. Total May contract value for future building and other construction work climbed to $5,094,827,000—within 1% of the year-ago total. Last May was the biggest construction month on record. This May's very strong advance brought the rate of contracting for new construction back almost to the level that had been reached early in 1966, before the severe contraction began. The recovery, which has been under way for only about half a year, has been rapid. For the most part, it has been a matter of revival in housing as mortgage funds became available, but at the same time, the construction market as a whole has had the support of a steady flow of nonresidential projects at last year's record level.

Residential contract value, at $2,002,413,000, was 2% higher than the year-ago total and included contracts for nonhousekeeping residential (hotels, motels, and dormitories) buildings. A strong advance in one-family home building, up 10%, was the most significant development in May's housing surge.

Nonresidential building construction contract value totalled $1,807,602,000, within 1% of the solid year-ago value. Educational building contracts advanced 12%, commercial and industrial projects eased slightly, and hospital and religious building contracts showed substantial declines.

Nonbuilding construction contract value totalled $1,284,812,000, a 4% decline from last May. Highways, utilities, and dams and reservoirs each showed substantial percentage decreases, though these categories were running against very heavy year-ago volume. Sewer and water contracts, ahead by 25%, are becoming the most important source of expansion within the 1967 nonbuilding construction markets.

FIRST FIVE MONTHS 1967: Nonresidential $7,883,535,000 down 1%; Residential $7,182,248,000 down 18%; and, Nonbuilding $4,863,402,000 down 6%—total construction $19,929,185,000 down 9% from the first five months of 1966. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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MARKET CONDITIONS

General Business.

The situation in general business is still very confusing. Corporate earnings for the first half of 1967 are almost uniformly off, in many cases rather substantially, from those of a year ago. Inventories are still at a high level despite rather drastic efforts on the part of many companies to prevent any further buildup and to achieve substantial reductions in view of generally shortened lead times on many raw and semi-finished materials and reduced demand for finished products in many lines. Economists, in general, are cautiously optimistic and few are predicting anything in the way of a severe recession despite the many uncertainties in the current situation.

The world political situation seems to have taken several turns for the better. The almost unbelievably quick victory of Israel over the alliance of Middle Eastern countries has led to a halt in the shooting war, almost before it started. The "shouting" in the United Nations promises to continue much longer. The aftermath of the abbreviated conflict has led to the attendance of Premier Kosygin at United Nations meetings in New York and to the face to face meetings of the Premier and President Johnson at Glassboro, New Jersey. As this is written, the second summit conference is in session and, while no hard and fast agreements can come directly from such meetings, there is no doubt they can lead to an improvement in the general atmosphere of Russian-American relations, and this can be of tremendous importance to every citizen of every country on this planet.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during May 1967 totalled 110,867 tons, an increase of 23,761 tons or approximately 27% over the same period last year.

Year to date shipments at 442,745 tons are still running 28,133 tons or approximately 6% lower than the same period 1966.

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Asbestos—Manufactured Goods.

Asbestos Textiles. The demand for asbestos textiles continues on a high level. Some grades of fibre preferred for use in textiles are now in relatively tight supply, however the overall supply is still adequate for the majority of spinning fibre grades. There is ample justification for optimism in respect to volume of orders expected during the third quarter, although shipments may be adversely affected in some degree by plant vacation periods during July and August.

Asbestos Brake Lining. Sales volume was slow in the first quarter but on the increase in the second quarter and expected to continue to improve through the third quarter. As usual, volume of sales is expected to taper off during the last quarter of 1967.

Asbestos Paper & Millboard. Demand for these materials is steady and this condition is expected to continue during the coming months.

Asbestos Felt. Volume of business is higher than this time last year but a pressure on prices has resulted from discounting from list prices. An excellent year in volume of business is anticipated for 1967 but pricing is expected to continue on a downward trend.

Corrugated. This market continues at a rate almost identical to that for last year and shows signs of an increase in strength. Large jobs which are projected plus Federal requirements provide the basis for mild optimism and an increase in demand, as much as 5%, is expected for this year over 1966.

Flat. Sales are slightly below the 1966 volume and present indications are that 1967 will be about 10% below last year.

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High Pressure Insulation. The market for this material is very strong and bids for work are coming in at a steadily increasing rate. New prices are firm and the rest of the year should be very good, with a large backlog of orders.

Asbestos-Cement Shingles, Roofing & Siding. The new construction market is seriously depressed and the long-awaited upsurge does not seem to be materializing. Activity is expected to be on the increase but not at a rate which will "salvage" the year. The tight money situation and uncertainties in the military-political arena seem to be fostering a "wait and see" attitude on the part of homeowners and prospective new home buyers.

Asbestos-Cement Pipes. This general market is about at the same level as last year but it is anticipated that demand will improve during the last half of the year and should be slightly ahead of the second half of 1966.

The above comments have been made by various informed executives in the Industry. All comments are welcome.



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PRODUCTION

Canada—MARCH 1967 asbestos production amounted to 120,190 tons (Quebec—112,215; Newfoundland, Ontario, and British Columbia—7,975). This compares with the March 1966 total of 116,404. Total for the first three months of 1967 is 282,860 tons compared to 302,588 for the same period in 1966. (Dominion Bureau of Statistics, Ottawa)

Australia—SECOND QUARTER 1966 asbestos production amounted to 4,172 short tons: Chrysotile—215, Crocidolite—3,957. (Bureau of Mineral Resources)

Australia Imports/Exports—SECOND QUARTER 1966 asbestos imports amounted to 10,764 short tons: Amosite—2,365; Chrysotile—7,931; Other—468. Asbestos exports amounted to 1,314 short tons for all types and grades. (Bureau of Mineral Resources)

The Mineral Industry of Australia (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 15¢)—Production of asbestos in 1965 (preliminary) reached 10,566 metric tons, 28% below the 1964 level. Output of crocidolite (blue) totaled 9,428 tons—the principal producer being Australian Blue Asbestos Pty. Ltd., Wittenoom Gorge, Western Australia. Chrysotile production in 1965, at 1,138 tons, was credited to Asbestos Mines Pty. Ltd., at Baryulgil, New South Wales, and a few hundred tons were also reported from Lionel, Western Australia. Export statistics for the years 1964-1965 are not available. Imports of asbestos for 1964-1965 totaled 41,696 metric tons—chrysotile 31,358, amosite 7,756, other 2,582. Principal sources were Canada, United States, South Africa, Mozambique and U.S.S.R.

Exploration activities have been conducted in asbestos areas of Western Australia by geologists of the Western Australia Geological Survey. In New South Wales, a new company, White Asbestos (Mining) Pty. Ltd., formed by United States and Australian interests, is developing leases in the Barraba area. The deposits in this area are believed to have potential for more than 18-million tons of chrysotile asbestos.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census) — Short Tons

Unmanufactured Asbestos:	MARCH 1967	APRIL 1967
Amosite, Crude, Mozambique	25	..
South Africa	1,242	453
Crocidolite (Blue), Crude, South Africa	829	350
Chrysotile, Crude, Canada	48	..
France	15	..
South Africa	15	..
Chrysotile, Spinning Fibers, Canada	1,372	1,382
Chrysotile, Other, Canada	55,676	39,418
South Africa	5	..
Yugoslavia	672	..
Asbestos, Other, Bolivia	1	..
Canada	3,449	2,878
Finland	121	394
Portugal	10	..
South Africa	95	..
	63,575	44,875

March 1967 valued at: $6,547,115

April 1967 valued at: $4,514,308

Manufactured Asbestos Goods:		MARCH 1967	
Asbestos Yarn, Slivers, etc.	Lb	192,115	$115,038
A-C Pipes, Tubes & Fittings	Lb	3,111,612	138,859
Asbestos-Cement Articles, Other	Lb	2,384,976	343,834
Asbestos Articles, Other		..	68,030
			$665,761

		APRIL 1967	
Asbestos Yarn, Slivers, etc.	Lb	168,092	$101,201
A-C Pipes, Tubes & Fittings	Lb	1,730,237	78,084
Asbestos-Cement Articles, Other	Lb	1,116,467	152,224
Asbestos Articles, Other		..	72,030
			$403,539

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Exports From U.S.A.

(Figures from U.S. Bureau of the Census) FEBRUARY 1967

Unmanufactured Asbestos:

Crude & Spinning Fibers	s.tons	10	$ 5,022
Non-Spinning Fibers	s.tons	2,505	358,651
Waste & Refuse	s.tons	2,249	163,855
		4,764	$ 527,528

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	1,520,394	$ 130,673
Other A-C Articles	Lb	387,798	47,964
Gaskets & Packing	Lb	301,498	412,738
Textiles & Yarns	Lb	118,971	109,700
Mfrs. other than Friction Materials	..	..	371,631
Clutch Facings, including Linings	No	122,829	117,205
Brake Linings for automotive use	Lb	270,624	218,583
Brake Linings, Other	Lb	454,670	306,466
			$1,714,960

Exports From Canada

(Published by Dominion Bureau of Statistics) FEBRUARY 1967

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	10	1,421	15,776	32,504
United Kingdom	..	1,180	1,176	350
South America	..	..	484	85
Central America & Mexico	..	35	1,865	350
Europe	..	265	10,989	2,061
Japan	..	211	1,960	1,726
Other Countries	..	285	755	104
	10	3,397	33,005	37,180

Total Unmanufactured Asbestos—73,592 Valued at—$9,620,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 43,000
Asbestos-Cement Building Materials	59,000
Asbestos Basic Products, Other	26,000
	$ 128,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

John F. D. Rohrbach, Chairman of the Board, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
George J. Sampson, District Sales Manager-Floor Covering, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, July 18.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
C. J. Backstrand, Chairman, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.
Albert G. Kovacs, Manager-Labor Relations, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, July 21.
Seymour Milstein, Director, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, July 21.
William S. Simpson, President & Chief Executive Officer, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 21.
Roscoe E. Tallman, Director, Tallman McCluskey Fabric Company, Kirkwood, Missouri, July 22.
Richard D. Deininger, Vice President-Operations, Nicolet Industries, Inc., Florham Park, New Jersey, July 24.
Mrs. Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, July 25.
George C. Anderson, Vice President of Sales-Roofing Granules, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, July 29.
Clinton B. Burnett, President, Johns-Manville Corporation, New York City, July 29.
Thomas A. Dent, Vice President-Operations, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, July 30.
C. B. Brown, Director, Beli Asbestos Mines Ltd., Thetford Mines, Canada, August 1.
Desmond Kirkness, Consultant, The Universal Asbestos Manufacturing Company Limited, Tolpits, Watford, England, August 1.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.
A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.
Arthur C. Smith, Vice President for Research, Development and Engineering, Johns-Manville Corporation, New York City, August 8.
J. M. Dunn, Executive Vice-President, Standco Industries, Inc., Houston, Texas, August 9.

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Melvin H. Baker, Honorary Chairman, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.
Leo J. Monahan, Product Promotion Manager-Building Products, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, August 13.
Hunter Corbett, General Sales Manager-Floor Covering, The Ruberoid Co., division of General Aniline & Film Corporation, New York City, August 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

The Mineral Industry of Canada (preprint from the 1965 U.S. Bureau of Mines Minerals Yearbook, 15¢)—Asbestos accounted for 3.7% of the total value of Canada's 1965 minerals output. Production totalled 1,259,000 tons in 1965, slightly below the record output of 1,288,000 in 1964, but well above that of any previous year. Exports of crude asbestos totaled 112 metric tons in 1965 and the 1965 figure for all grades of milled fiber reached 1,197,000 metric tons. Principal destinations were France, Japan, United States, and the United Kingdom.

Although Canadian asbestos producers are confronted with growing competition from foreign producers, new properties under development are expected to raise Canadian production within the next few years. At Asbestos Hill, Asbestos Corporation Limited is developing a 20-million ton deposit that is scheduled for 90,000 ton-per-year production beginning in 1970. At Lake Roberge, a deposit containing more than 150-million tons with a fiber content averaging 4% has been outlined by McAdam Mining Corporation Limited. Canadian Johns-Manville Company Limited is developing a prospect for an underground mining operation in Reeves Township. Cassiar Asbestos Corporation Limited is expected to begin production at 36,000 tons per year at Clinton Creek, and to double this output by 1970. Ore reserves are estimated at 13-million tons with a fiber content in the 6-7% range.

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Sphere Development Corporation Limited, Vancouver, British Columbia, has staked twenty-four more asbestos claims in the Yukon Territory. The claims tie on to the southwest side of the company's Caley option property, forty miles northwest of Dawson City. In all, Sphere has 190 claims in the Clinton Creek area and is well into an initial offering of shares to finance initial development of the asbestos properties.

McAdam Mining Corporation is to proceed as soon as possible with a program of shaft sinking and underground development at its asbestos property in McCorkill Township, east of Chibougamau, Northwestern Quebec, Canada. Adequate funds to initiate the program are on hand. The project involves sinking a two-compartment vertical shaft to a depth of 250 feet and cross cutting in the C-D zone at that horizon. This work will provide substantial tonnages of fresh, uncontaminated material for bulk testing to allow determination of grades and quality of the chrysotile fiber present in the zone. From 1961 to 1965, McAdam completed 60,976 feet of surface drilling in 91 holes to indicate 158,188,000 tons in four distinct deposits, minable by open pit methods.

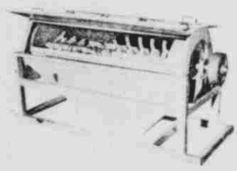
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TURNER & NEWALL GROUP

R. M. BATEMAN—became chairman of Turner & Newall Limited on July 1st, 1967; was deputy chairman.

R. G. SOOTHILL—president of Turner & Newall Limited; remains on the board in a consulting capacity; retired as chairman effective July 1st, 1967.

G. S. SUTCLIFFE—deputy chairman of Turner & Newall Limited effective July 1st, 1967; was formerly a joint managing director.

H. D. S. HARDING—appointed a director of Turner & Newall Limited.

M. C. BENTALL—retired the end of 1966 as export sales director of Turner Brothers Asbestos Co. Ltd.

T. R. EARNSHAW—succeeded Mr. Bentall as export sales director of Turner Brothers Asbestos Co. Ltd.

JOHNS-MANVILLE CORPORATION

KARL V. LINDELL—director; is vice president and general manager of J-M's Asbestos Fibre Division and chairman of Canadian J-M.

ARTHUR C. SMITH—director; is vice president for research, development and engineering.

FRANCIS E. DUTCHER—director; is vice president, Building Materials Division.

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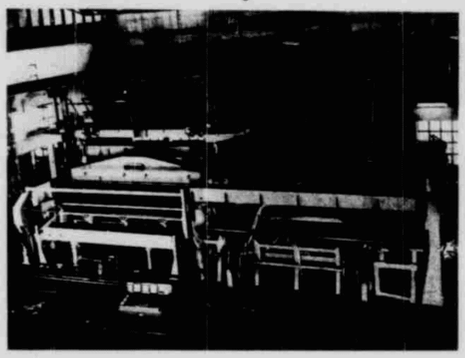
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ASBESTOS PRICES

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton of 2,000 lbs. f.o.b. Mine

(As of April 1, 1967) Canadian Currency

Crude No. 1	$ ..	$1,410.00
Crude No. 2	..	760.00
Group No. 3 (Spinning Fibre)	360.00 to	588.00
Group No. 4 (Shingle Fibre)	198.00 to	335.00
Group No. 5 (Paper Fibre)	140.00 to	165.00
Group No. 6 (Waste, Stucco or Plaster)	..	101.00
Group No. 7 (Refuse or Shorts)	47.00 to	85.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. North Vancouver, B.C.

(As of April 1, 1967) Canadian Currency

AAA grade (non-ferrous spinning fibre)		$ 810.00
AA grade (non-ferrous spinning fibre)		643.00
A grade (non-ferrous spinning—Canadian Group 3)		484.00
AC grade (asbestos-cement—Canadian Group 4)		345.00
AD grade (asbestos-cement—Canadian Group 4)		284.00
AK grade (shingle fibre—Canadian Group 4)		241.00
AS grade (shingle fibre—Canadian Group 4)		200.00
AX grade (shingle fibre—Canadian Group 5)		177.00
AY grade (shingle fibre—Canadian Group 5)		126.00

VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(As of April 1, 1967) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 342.00
Group No. 4 (Shingle Fibre)	183.00 to	296.00
Group No. 5 (Paper Fibre)	129.00 to	153.00
Group No. 6 (Waste, Stucco or Plaster)	..	93.00
Group No. 7 (Shorts & Floats)	40.50 to	78.00

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ASBESTOS STOCK QUOTATIONS

Close—June 30, 1967

Abex	33½	Gen Aniline (pfd)	29¾
Abitibi	*9⅝	Glen-Alden	14⅞
Advocate	*$2.72	G-Alden (pfd-3.15)	94¾
Asarco	70¼	G-Alden (pfd-2.25)	52
Armstrong Cork	51⅝	Gulf&Western	57½
Armstrong Cork (pfd)	74¼	G&W (pfd-3.50)	223
Asbestos Corp	*22⅝	G&W (pfd-5.75)	75⅝
Cassiar Asbestos	*$16.12	Johns-Manville	51½
Certain-teed	16	National Gypsum	38⅜
Certain-teed (pfd)	17¼	Nat Gypsum (pfd)	81
Conwest	*$5.45	Newmont Mining	54⅛
Fibreboard	33¼	Patino	*$8.05
Flintkote	21¾	Porter (pfd)	90¾
Flintkote (pfd-A)	80	Raybestos-Manhattan	56¼
Flintkote (pfd-B)	40½	Unarco	13⅜
Garlock	17¾	Uniroyal	37⅝
Gen Aniline	22½	Uniroyal (pfd)	135½

*Canadian currency

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington 25, D.C., at a cost of 50 cents each. Remittance should be in coin, currency, or check, and the number(s) of the patent(s), name(s) of inventor(s), and date(s) of issue should be shown.

U.S. Patents issued from May 16th through June 6th, 1967.

3,322,549—Inorganic Molding Compositions of the Asbestos-Orthophosphoric Acid Type and Products Produced Therefrom, V. Abolins & R. M. Lukes (assigned to General Electric Company, Schenectady, New York), May 30, 1967.

3,324,073—Transparent, Stress-Crack Resistant Polyhydroxy-Ether Compositions, G. H. Potter, C. J. Whitworth, Jr., & N. L. Zutty (assigned to Union Carbide Corporation, a corporation of New Jersey), June 6, 1967.

Scandura, Inc., the United States subsidiary of BBA Group Limited, broke all previous records during 1966 for both sales and profit. A heavy backlog of orders for "Scandura" conveyor belting was carried forward into this year and it is proposed to expand production capacity.

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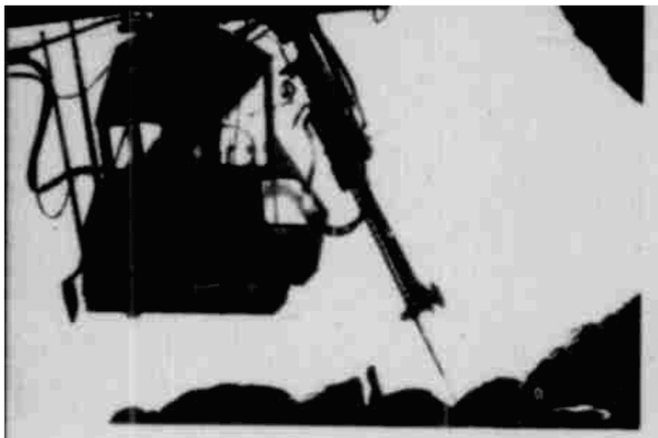
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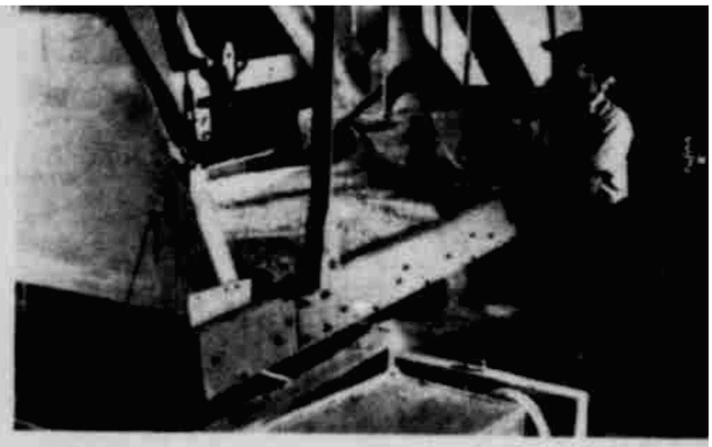
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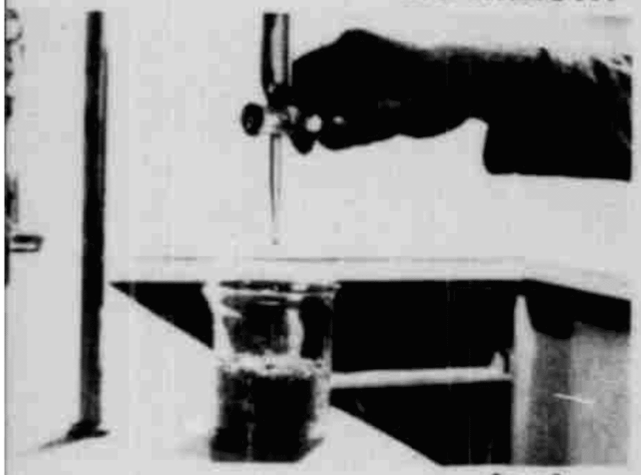
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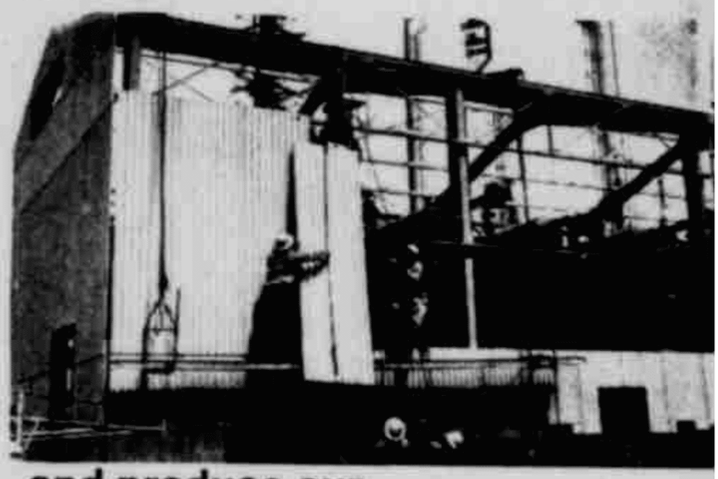
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