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THE CLINTON MINE

Cassiar Asbestos Corporation Limited

(The following article is based on a series of articles on the Clinton Mine of Cassiar Asbestos Corporation Limited that appeared in the September 1969 issue of the "Western Miner." In this same edition (which was dubbed "The Clinton Mine Issue"), Mr. James R. Murdoch, General Superintendent of the Clinton Mine, was named "Mining Man of the Month." Various statistics on production and the value of asbestos fiber sales were brought current, via the files of ASBESTOS, as certain figures were issued after publication of the series in Western Miner. We gratefully acknowledge the assistance and interest of Mr. A. C. Beguin, Manager of Operations, Cassiar Asbestos Corporation Limited, and Mr. Fred H. Stephens, Associate Editor of the Western Miner, in preparation of this article.)

* * *

The Clinton Mine, currently the most northerly open-pit mining operation in Canada, is situated about 48 air miles northwest of Dawson City, Yukon Territory, on the south slope of Clinton Creek, 5 miles upstream from its confluence with the Fortymile River. The exposed part of the orebody lies near the top of a northeast-southwest trending ridge some 500 feet above the valley of Clinton Creek. Maximum relief in the vicinity is about 700 feet and slopes are gentle and covered by vegetation and permafrost. The area is unglaciated.

The Clinton Mine commenced production April 1, 1968, and for the six-month period ended June 30, 1969, it recorded asbestos sales to a value of $7,245,916. Original expectations from Clinton Creek were for a fiber production of 80,000 tons annually. The mine is now exceeding an annual rate of 90,000 tons and is, in fact, approaching the 100,000-ton mark. It is estimated that $26-million was invested up to the start of milling and this figure is increasing substantially as Cassiar Asbestos continues a program of community and home construction.

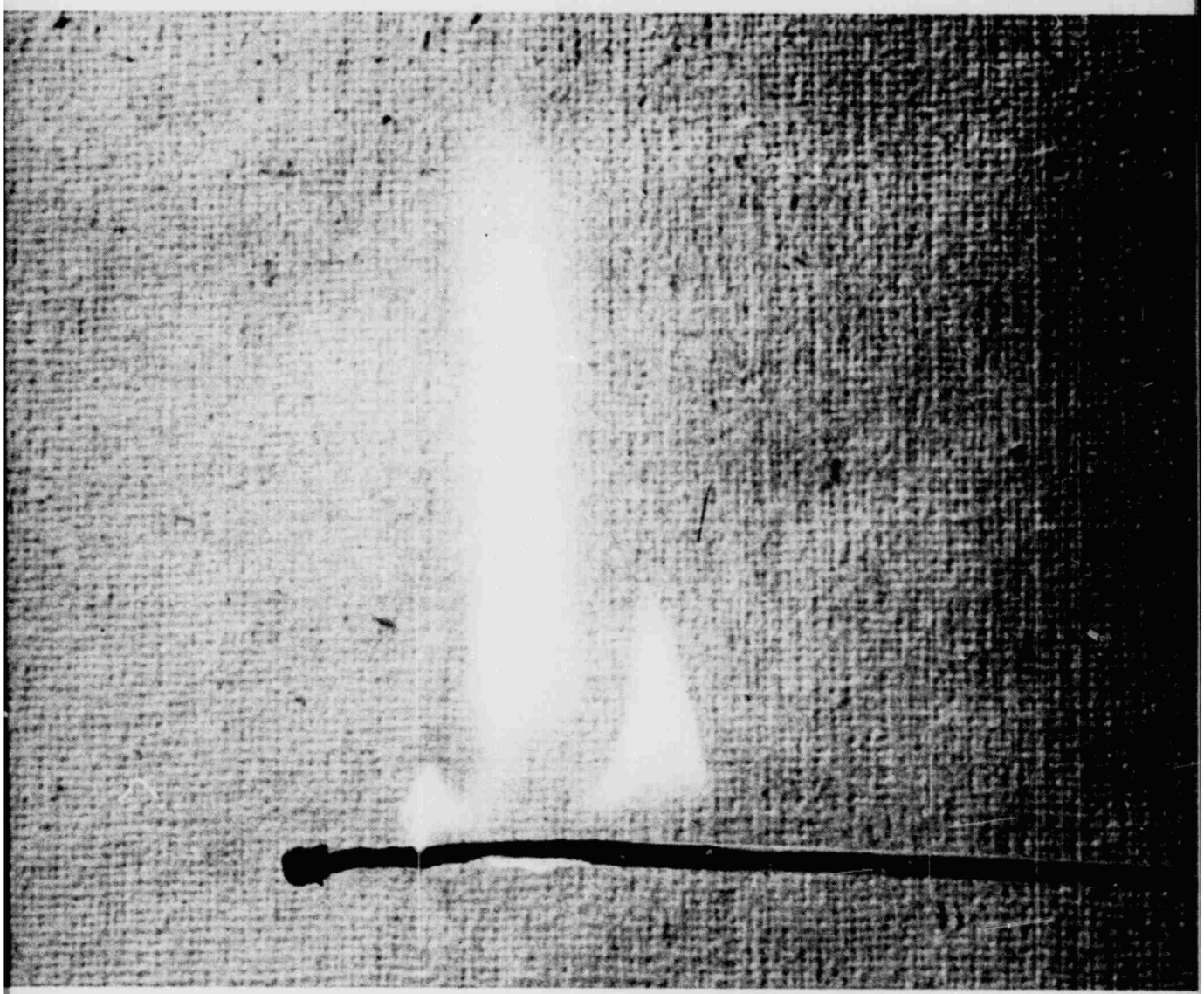
GEOLOGY

The orebody occurs along the northwest margin of an ultramafic pluton which intrudes metamorphic rocks of the Yukon Group. The rocks consist of a mixed sedimentary and volcanic assemblage including thin-bedded phyllites, graphitic argillites, limey argillites, impure limestone, quartz-

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mica schists, chlorite schists, andesite and quartz biotite schists, and gneisses. The ultramafic has been traced by surface diamond drilling over a strike length of 4,500 feet but the fiber-bearing zone has been outlined over a length of about 1,600 feet. However, a second zone of fiber-bearing serpentine is present southwest of the main zone which requires further exploratory drilling to evaluate. Fiber quality and grade are similar to the main zone which is currently being mined.

The ore-bearing portion of the ultramafic is bounded on the hangingwall by a rusty-brown, quartz-carbonate-alteration zone and on the footwall by highly-sheared barren serpentine. The ore consists of veins of cross-fiber Chrysotile asbestos cutting massive and blocky jade-green serpentine. Fiber veins are distributed in a random orientation and simple veins range in width from 1/16" to 1⅛" but compound fiber veins up to 2" in width and made up of various fiber lengths, are also present. The majority of the veins would be in the ¼" to ⅜" category. The longest fiber seems to be concentrated near the hangingwall of the ore zone.

The color of the fiber is primarily pale green but isolated patches of iron-stained ore occur along the hangingwall

Photograph: Looking down from the upper benches of the Clinton open-pit mine.

adjacent to the quartz-carbonate contact. The fiber is quite harsh but fluffs up readily when rolled between the fingers. True width of the ore zone varies between 80 and 250 feet. Strong shears up to 2 feet wide, filled with talc and magnesite, are common throughout the orebody. Picrolite, or slip fiber, is also present in minor amounts. Magnetite occurs in egg-sized nodules and also in thin veins on partings between the various fiber lengths in compound fiber veins. The serpentinite was derived from peridotite and numerous remnant pyroxene-ghost crystals or "bastites" are visible. The serpentine has a resinous or waxy luster and a hardness of about 3.

ORE RESERVES

The main Clinton orebody on Porcupine Hill, across Clinton Creek from the mill and plant site, contains some

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coverable. Five and a half tons of waste must be removed for each ton of ore delivered to the tramline for conveyance to the mill. The ore zone in the Porcupine orebody is 400 feet wide and has been drilled to a depth of 900 feet. The orebody is confined to the crest and hangingwall side of the dyke and consists of Chrysotile-filled joints in a conjugate pattern. The ore zone is bounded on the footwall by a wide zone of sheared serpentine and on the hangingwall by a quartz-carbonate zone, an alteration of the dyke. Overlying the alteration are black sedimentary rocks, mainly schistose argillites and carbonaceous limestone.

CRUSHING PLANT

Both the mine and the primary crushing plant are situated at a lower horizon than the mill and plant site. A short downhill haul connects the pit with the big primary crushing plant which is heated by hot-air circulation. An apron feeder carries the ore over a bar grizzly with 4" openings into the 48" x 60" jaw crusher. A 350-ton-per-hour-capacity belt conveyor carries ore from the primary crusher to a 6 foot x 14 foot Tyrock screen. Oversize is directed to a 5½ foot standard-head Symons crusher discharging to a 60" belt leading to the tramway feeder.

TRAMLINE

The tramline reaches a height of 250 feet above ground and one unsupported span is 2,200 feet between anchor stations. The ore is elevated 500 feet in the 5,281-foot length to the plant site and is delivered at the rate of 300 tons per hour.

DRYER BUILDING & DRY ROCK STORAGE

The ore is unloaded in the dryer building where it is dried, again crushed, and concentrated by rejection of much of the coarse, barren material, conveyed to the dry rock storage, and belt-conveyed to a Tyrock screen with 1" x 4" openings. There are two 80" x 60 foot rotary dryers—one for coarse ore and the other for fine ore. After the moisture content is reduced to a suitable level, the coarse ore is again screened over ⅝" x 4" openings. After tertiary crushing, the product is again screened on double-deck ¾" and ⅝" screens. The "fines" then go to storage and the coarse material is either rejected or again crushed.

The dry rock storage has a capacity of 30,000 tons and

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provides grade-control facility. Ore is distributed into separate piles, depending on grade, to permit segregation or blending as required. The ore is moved to hoppers and flows to feeders over sub-floor conveyors to supply the mill.

MILLING

The Clinton mill building is 102 feet high and is the tallest building in the Yukon. The plant was designed to produce 60,000 tons of fiber a year but the target has since been raised to 80,000 tons. The treatment is a dry process consisting of five stages of fiberizing and screening for recovery of the desired quality and grade of fiber for packaging. Three 125,000 cfm fans provide suction lift for fiber released from the rock, transportation of dust and cyclone collectors and hygiene dust lifts.

The mill consists of a rock line and three fiber lines. The rock line has successive stages of screening, fiber lifting, crushing and fiberizing. Longer fiber is lifted during early stages and shorter fiber progressively thereafter. Final fiber product is fed to pressure packers, bagged under 2,000 pounds of pressure into 100-pound-capacity jute bags, conveyed to the palletizing machine and strapped in one-ton units for temporary storage and transport. The fiber storage, which is attached to the main mill building, has a capacity of 1,400 tons of palletized fiber and a three-bay truck-loading facility.

POWER PLANT

The Clinton operation is equipped with a four-unit 1,400 kilowatt Ruston diesel generator plant that generates at 4,160 volts and transmits 33,000 kilowatts to the transformers. Waste-heat boilers produce steam, and are supplemented in coldest weather by two 300-horsepower steam boilers in the power house to supply the townsite. Cooling water is drawn from a well in the river bed by turbine pumps.

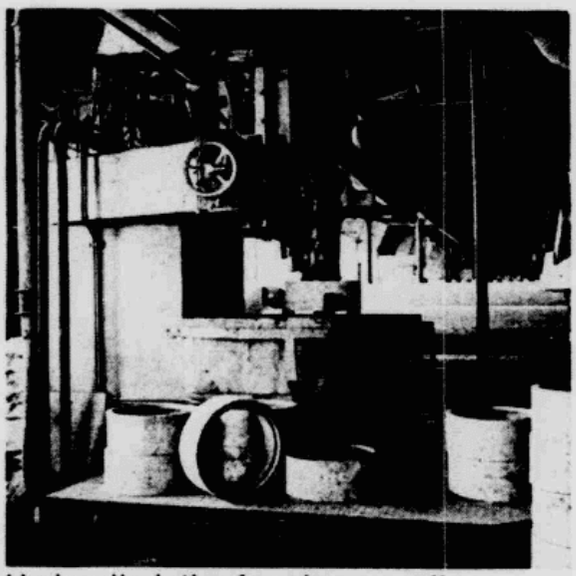
The modern sewage treatment plant located below the townsite houses is believed to be the only such plant in the Yukon and provides encouraging evidence of Cassiar's effort toward the control of pollution.

TRANSPORTATION

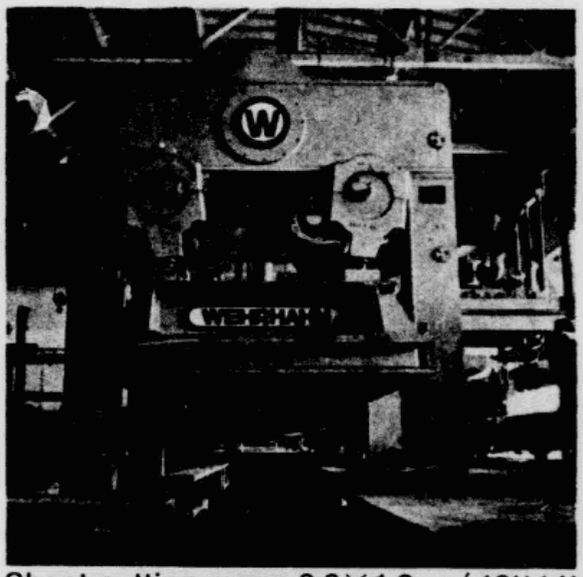
The Transport Division of Cassiar, which has headquarters in Whitehorse, hauls an average load of 23 tons

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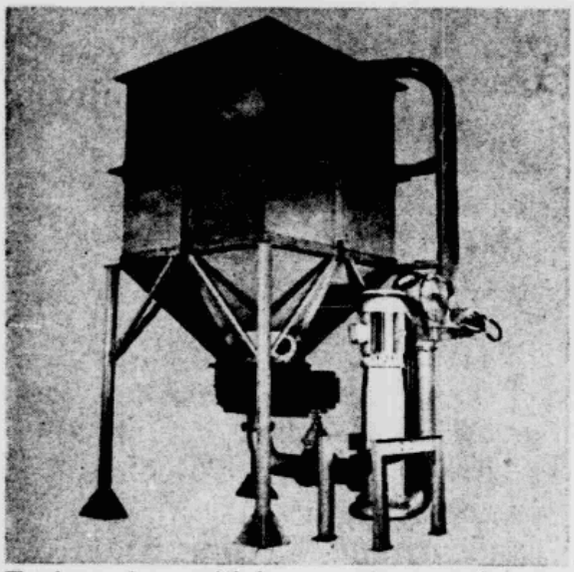
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of fiber over gravel road and excellent bridges, all constructed within the past ten years over the Stewart and Yukon Rivers*. The containerized fiber is off-loaded to the rail cars of the White Pass & Yukon Route at Whitehorse and is then hauled the 110 railroad miles to Skagway, Alaska, for yet another transfer to the modern new White Pass liners which carry the containers to North Vancouver.

A company report quotes prices for fiber products, f.o.b. Vancouver, at $234.00 per ton for CP Grade, $211.00 for CT Grade and $136.00 for CY Grade. Through sales agreements the product reaches 25 countries on five continents.

*The Yukon River is unbridged at Dawson City where a ferry serves for about five months, a highline for three months and an ice bridge for the remaining four months of each year.

H. K. PORTER COMPANY, INC., Thermoid Division, announced it is in full production of its lint-free asbestos cloth. Installation of additional treating equipment, which permits the expanded production, was needed to help meet the strong demand for the line. The equipment is also utilized to produce a companion line of lint-free rewettable asbestos lagging.

NATIONAL GYPSUM COMPANY, Buffalo, New York, and *DMH Corporation*, St. Louis, Missouri, have announced an agreement in principle for National to acquire DMH. Terms call for National to exchange 1,522,094 common shares for all of DMH's outstanding stock.

The agreement is subject to confirmation of representations made by the companies and approval of a definitive contract by both concerns' directors and by shareholders of DMH.

DMH is a maker of mobile homes and factory-manufactured housing and operates mobile home communities in California, Arizona and Florida.

NATIONAL GYPSUM COMPANY declared a regular quarterly dividend of $1.12½ per share on its preferred

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Postgraduate Course on Asbestosis

A postgraduate course on Asbestosis will be held June 15-18, 1970, at the Mount Sinai School of Medicine, New York City. Co-sponsored by the United States Public Health Service, the American Thoracic Society and the American College of Chest Physicians, the course is intended for physicians and other scientists interested in and with responsibilities for clinical management, research investigation, teaching or program administration in Pneumoconioses, especially Asbestosis.

The subjects to be reviewed and discussed at the individual sessions are concerned with pulmonary Asbestosis including ecological perspectives of the 1970's, and neoplastic and non-neoplastic complications of asbestos including multiple-factor etiology in environmental cancer.

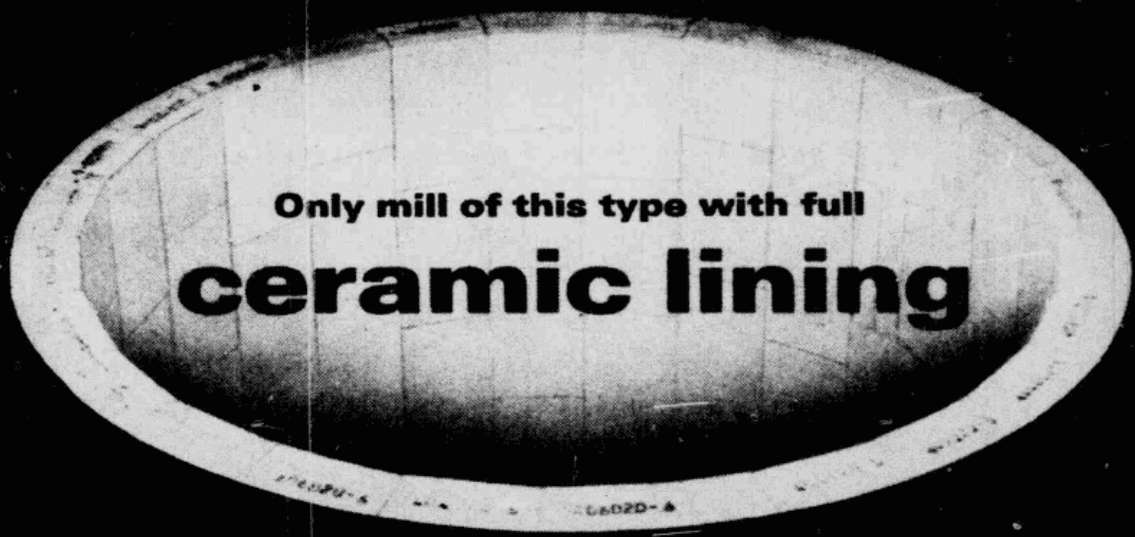
Four field trips will be available and each participant in the course will select the area of his greatest interest. They will include a visit to the Johns-Manville plant, Manville, New Jersey; a trip to various construction sites in the New York/New Jersey area to view the application of insulation materials; a visit to Canadian Johns-Manville's Jeffrey Mine, Asbestos, Quebec; or a survey of laboratory techniques at the Environmental Sciences Laboratory in New York City.

Registrations are limited to fifty entrants and the registration fee of $400.00 will cover all charges including course materials and luncheons.

IIHRP REPORT—The Insulation Industry Hygiene Research Program has issued its Spring, 1970, report. Items of particular interest concern successful preliminary field testing of the new plastic bag for shipping and mixing asbestos cement, the use of special enclosure procedures during spraying of mineral fiber on steel framing of the new World Trade Center in New York and the installation of a second electron microscope to be used exclusively for the IIHRP at the Environmental Sciences Laboratory of Mount Sinai School of Medicine.

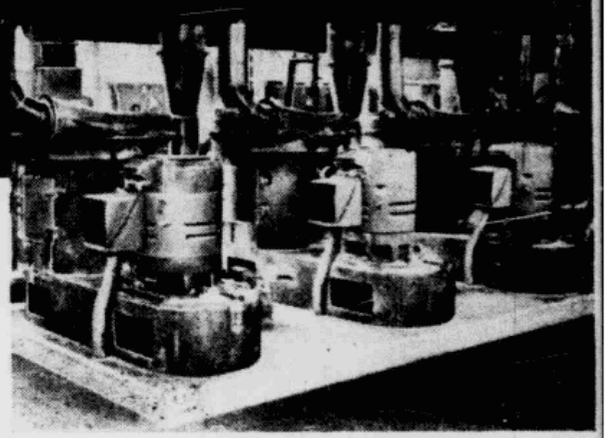
Copies of the report containing complete details of the above and several other interesting items concerning progress of the overall program are available on request.

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Reduces Costs: Are you emphasizing quality control, greater productivity, or researching new or improved products? If so, the Hurricane can help you. This heavy duty, high capacity, air attrition mill with integral classifier and patented impurity extraction is compact in size **and** cost. It provides greater utilization of floor space and, in many cases, out-produces larger, more expensive equipment. Two models: 24" dia. up to 75 HP; 30" dia. up to 150 HP. Ask for Bulletin G-4. **The Bauer Bros. Co.,** Springfield, Ohio 45501, and Brantford, Ontario.

BAUER

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J-M Insulated Pipe System

"Super Temp-Tite" is a new factory-fabricated, pre-insulated pipe system developed by Johns-Manville Corporation. It reduces installation costs of underground lines for conveying steam, hot water and certain other fluids and gases by as much as 50% and is recommended for service to 400 psig at temperatures up to 450°F.

The system consists of a steel core pipe to confine and convey the working medium, a Transite asbestos-cement casing pipe, a unique insulating material which fills the space between core pipe and casing and special couplings for joining the lengths of core pipes and casings in the field.

The insulation, Thermofoam, is a combination of conventional lime-silica-asbestos (Thermobestos) covered with a high-temperature polyurethane foam which completely fills the cavity between the core pipe and the casing to which it is bonded.

Joints in the core pipe utilize Ring-Tite couplings which are fluid-tight at designed working pressures but allow for expansion and contraction of the pipe, eliminating the need for expansion joints, loops or other auxiliary equipment to accommodate changes in pipe length with varying temperatures. These couplings are incorporated in a specially-fabricated and machined component which serves as a watertight seal between the ends of adjacent Transite casings when the core pipes are properly joined.

The Transite casing, with these special couplings, seals against infiltration of ground water thus keeping the insulation dry and protecting the core pipe from water-induced corrosion and also eliminates the need for cathodic protection.

Because the Ring-Tite couplings are, in effect, slip-joints, it is essential that means be provided to prevent internal pressure from separating the joints longitudinally. This is accomplished by provision for use of either tie rods or thrust blocks. The anchor plates provided on fittings such as ells and tees provide large bearing surfaces against which to construct thrust blocks. Tie rods may be used where thrust blocks are impractical because of soil conditions, space considerations or on above-ground installations.

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QAMA OFFICERS—At the annual general meeting of the Quebec Asbestos Mining Association, Dr. *R. J. Merrill,* President of Carey-Canadian Mines Limited, was elected President of the Association for the year 1970. Other newly-elected officers are *W. W. Oughtred,* Vice President (President of Asbestos Corporation Limited); *George Robinson,* Treasurer; and *Paul Filteau,* General Manager. The Directors of QAMA for 1970 include *Dr. K. V. Lindell,* Chairman of Canadian Johns-Manville Co. Ltd.; *M. J. Messel,* President of Lake Asbestos of Quebec Ltd.; *F. P. Smith,* President of Bell Asbestos Mines Ltd.; *R. S. Coleman,* Vice President of National Asbestos Mines Ltd.; and *M. C. Carpenter,* Flintkote Mines Ltd.

ACBA OFFICERS—At its annual meeting in January, The *Asbestos Contractors Boston Association* re-elected the following officers and committee members to serve for the year 1970: Walter F. Peterson, President; Albert L. Sargent, Secretary-Treasurer; William Slade, William Hinman and Walter Peterson, Joint Trade Board; Herbert Noyes (Chairman), Frank Jones and Dean Perkins, Joint Apprenticeship Committee; and Albert L. Sargent, Norman Johnsen and Theodore H. Brodie, Employer Trustees-Health, Welfare & Pension Fund.

The companies represented among the officers and committee members include Eastern Refractories Company, Inc., P. S. Thorsen Company of Massachusetts, Hinman Asbestos Corporation, ACandS, Inc., Noyes Insulating Contracting Company, O. M. Johnsen Company and New England Insulation Company.

CAPE REVIEW 1969, the first issue of an annual review of the affairs of *The Cape Asbestos Company Limited,* has been published. It is a very well-written and beautifully illustrated piece of literature on Cape's growth and activities since the company's beginning in 1893. The 38-page booklet covers factory expansion and mine development, research, development and marketing, data on Cape's activities throughout the world, and many other items of interest.

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SOLVING THE MONEY DILEMMA is the theme of a special one-day conference for building products manufacturers on the impact of tight construction money on sales, earnings and profits in 1970, to be held May 14, 1970, at the Mayflower Hotel, Washington, D.C.

Further information may be obtained from the sponsors: *The Producers' Council, Inc.*, 1717 Massachusetts Avenue N.W., Washington, D.C. 20036.

BETTER LIVING EXPO/70 will open at the New York Coliseum on May 29 and will run through to June 7, 1970. The exposition will offer special opportunities to manufacturers to display their most advanced products. Many and diversified consumer products will be displayed including recreation facilities, building materials, appliances and housewares, gourmet utensils and foods, hardware, swimming pools, safety products, etc.

DON'T FORGET—The 9th International Mineral Processing Congress, including the Symposium on Agglomeration, will take place at Congress Hall (Sjezdovy palac), Prague 7, Czechoslovakia, June 1-6, 1970.

EUROPLASTIC 70 (The Third International Rubber and Plastic Exhibition) will be held at Porte de Versailles, Paris, France, June 2-10, 1970. Sponsored by French rubber and plastic manufacturers, the exhibition will stress the increasing inter-relationship between these two industries and will feature three main sections—chemical, machinery and equipment, and manufactured products. It will be part of "Technical Fortnight" which includes four other international technical exhibitions: "Electrical Equipment," "Mechanical Engineering Industries Exhibition," "Mesucora" (measuring and testing equipment), and "Expomat" (public works and building equipment).

ASTM ANNUAL MEETING—The American Society for Testing and Materials will hold its 73rd Annual Meeting and the 19th Materials Testing Exhibit at the Royal York Hotel, Toronto, Ontario, Canada, June 21-26, 1970.

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Automobile Sales

JANUARY 1970 motor vehicle factory sales from plants in the *United States* totaled 716,641 (passenger cars, 571,403; trucks and buses, 145,238). The total for January 1969 was 976,469.

Motor vehicle factory sales from plants in *Canada* totaled 101,023 for JANUARY 1970 compared to 110,253 in January 1969.

RAYBESTOS-MANHATTAN, INC., Bridgeport, Connecticut, has begun construction of a new corporate distribution center in Bensalem Township, Bucks County, Pennsylvania, thus continuing its program of expansion and consolidation of sales and distribution facilities to better serve growing markets. When ready for occupancy in June, it will be the corporation's eighth new distribution facility. Other recently-established centers are located in Chicago (Elmhurst), Atlanta, Los Angeles, Dallas, Portland, Denver and San Francisco.

Raybestos-Manhattan is a major manufacturer of automotive friction materials, plastics, asbestos textiles, sintered metal, rubber products and mechanical packings.

NFPA ANNUAL MEETING—Fire safety standards affecting a wide range of industrial, commercial and public interests are due for action at the 74th Annual Meeting of the *National Fire Protection Association*. The five-day conference will begin May 18 at the Royal York Hotel, Toronto, Canada. Principal business of the conference will be action on approximately 70 proposed codes and standards that will affect fire safety legislation and regulations as well as industrial practices throughout the United States and Canada.

Program and registration information is available from NFPA, 60 Batterymarch Street, Boston, Massachusetts 02110.

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Asbestos down on the farm.

There are a lot of contented cows and dairymen today because J-M Flexboard® asbestos-cement sheets are lining more and more dairy barns and milk houses.

These flexible boards are reinforced with asbestos fibers to increase strength and fire protection.

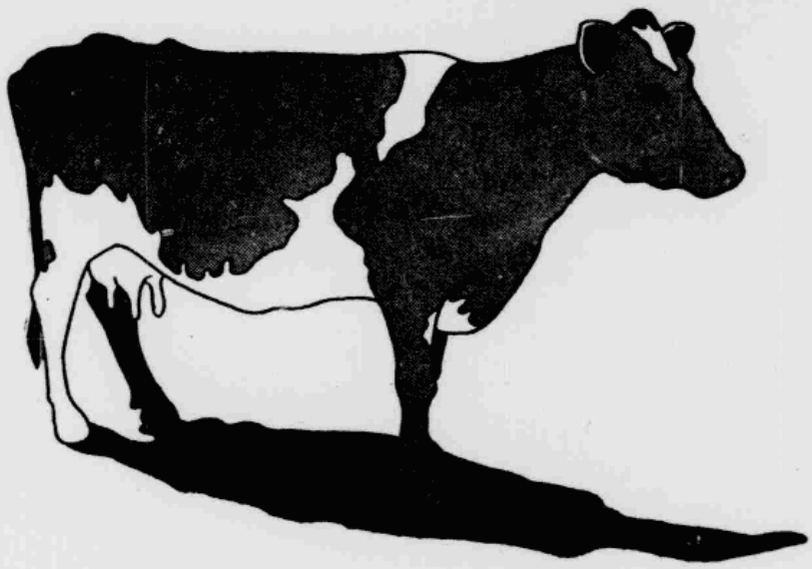
Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

Back in the city, you'll find asbestos hard at work in durable, easy-to-erect Flexboard walls and ceilings in many modern apartment buildings.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fiber Sales, Manville, N.J. 08835 U.S.A.

JM

Johns-Manville



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Building

From: McGraw-Hill Information Systems Company

FEBRUARY 1970—Contracting for new construction remained very strong in February. Contracts totaled $5,248,-575,000, a 9% gain over February 1969. The seasonally-adjusted Dodge Index rose 5% from January's 205 to 215 (1957-59=100).

According to George A. Christie, Dodge Vice President and Chief Economist, "February's tabulation of contracts for future construction work showed no change in the pattern which has persisted for the past few months—a mix consisting of an exceptionally high volume of non-residential construction, including many very large projects, and a depressed housing market. Under these circumstances, it seems a strange time to lift last September's restrictions on Federally funded construction work, as was done two weeks ago. The avowed aims of that 'freeze' on certain types of public construction were to relieve some of the strain on non-residential markets in order to make more resources available for housing, as well as to ease inflationary pressures generally. As yet there is no clear sign of any real progress toward either of these goals."

Nonresidential building contracts, valued at $2,269,146,-000, led the year-ago total by 20%. Most of the gain was in commercial and industrial buildings.

Nonbuilding construction, consisting largely of highway and utility projects, totaled $1,497,757,000 in new contracting and was ahead of last February by 36%.

Residential building contracts remained far below last year's level. The latest month's total, $1,481,672,000, was 19% behind the strong February 1969 total and reflected across-the-board declines in one-family housing, apartment and nonhousekeeping structures.

H. K. PORTER COMPANY, INC., declared a quarterly dividend of 25¢ per share on the common stock, payable March 31, to stockholders of record March 11. This compares with a 40¢ quarterly dividend paid previously. The Company stated the dividend was reduced because of the present tight money situation and the current business outlook.

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NEWS

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MARKET CONDITIONS

General Business.

Biggest business news of the past month was the cut in the prime interest rate to 8 percent, initiated by Irving Trust Company and followed, within a few days, by all leading banks. Encouraged by this slight loosening of credit, the stock market rose sharply. Whether the gains registered can be held is open to question since much of the buying was purely psychological and, with few exceptions, corporate sales and earnings are not such as to warrant any great ebullience in the market.

Meanwhile, key indicators show downward trends in general business are continuing. The Administration now finds itself on the horns of a dilemma. While it has been demonstrated that the general economy can be slowed by exercise of fiscal and monetary controls, it remains to be seen whether continuation of such controls can bring a halt, or an appreciable slowdown, to price inflation, without plunging the country into a full-blown recession.

In this election year a recession of any real magnitude would adversely affect the position of the party in power. Hence the Administration is forced, by political considerations, to take steps to insure against a recession. Obviously, any steps such as lifting the six-month freeze on Federally aided construction projects and making additional funds available for home mortgages are in direct opposition to the anti-expansion, anti-inflation policies already in effect. It is to be regretted that the experiment designed to prove the efficacy of Governmental control in achieving a "balanced" economy has been, to a great extent, aborted, due to the exigencies of practical politics. It may be many years before we have an equally good opportunity to carry the experiment through without interruption to demonstrate the validity of the economists' theories.

Asbestos Fiber.

In review, *Canadian* shipments of asbestos fiber in 1969 reached the record level of approximately 1,598,000 tons as compared to 1,580,000 tons in 1968. In 1960, Canadian

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asbestos fiber production totalled 1,118,500 tons and therefore the increase in the ten-year period is 480,000 tons or 43%. The ten years just ended have thus proved to be a period of extraordinary growth and progress in the Asbestos Industry. Advanced technological innovation by asbestos producers combined with correct forecasting into world market requirements are responsible, in part, for this spectacular growth record.

During the past decade, increased capacity in worldwide asbestos production facilities kept pace with the growth in consumption. However, it is probable that demand may exceed supply of certain grades of fiber during the seventies unless new ore bodies are discovered or existing facilities can be expanded. Individual asbestos producers are, in fact, expanding existing operations or are working on the development of new ore bodies to take care of future increases in demand.

As the first quarter of 1970 comes to an end, it is apparent that the economic slowdown in the United States and Canada is affecting asbestos fiber sales adversely. In particular, the automotive and construction industries, both very important consumers of asbestos fiber, are lagging behind 1969 levels. However, a higher level of economic activity in the second half of 1970 could occur and result in increased asbestos sales.

The market for *Arizona* filter fiber is steady and promises to remain so. Present indications are that a shortage of some grades may occur later this year.

Asbestos—Manufactured Goods.

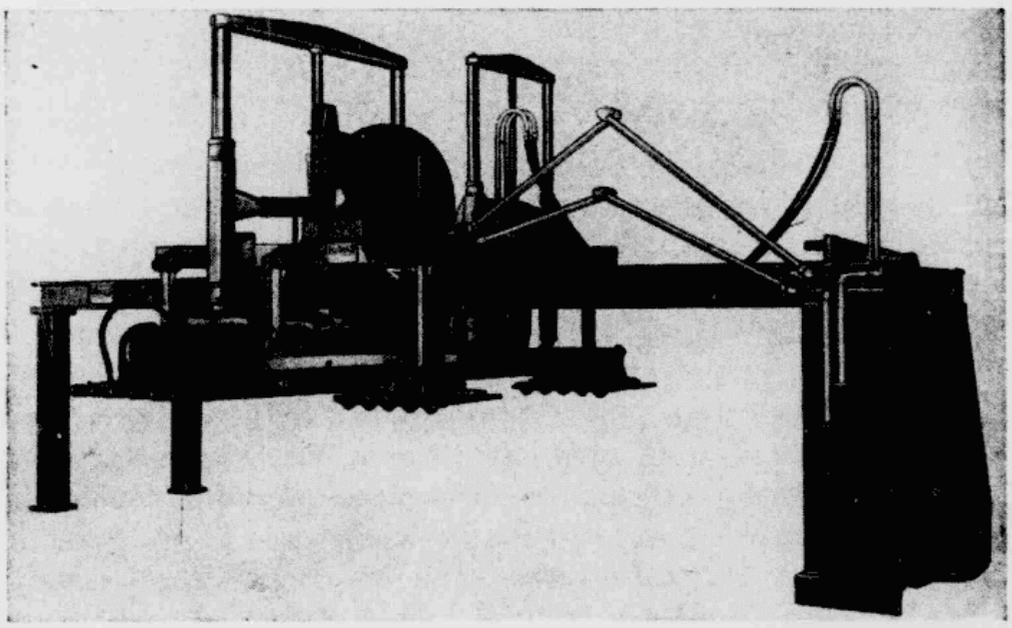
Asbestos Textiles: Demand for textiles continues to be heavy and the Industry has not yet felt pressure from the predicted general downturn in the economy. Continued short supply of better grade fibers has caused critical shortages of high grade yarn and cloth. Both conditions can be expected to continue for the rest of 1970. Prices are firm.

Asbestos Brake Lining: The contraction in new car sales is reflected in the decrease in shipments of brake linings to the original equipment manufacturers. Up to now, the normal increase in replacement business has not made up for this drop but, should new car production continue at current,

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reduced levels an upsurge in the after-market business should take place.

Asbestos Felt: Demand for this product is good and sales volume is ahead of last year's levels. However, a slowdown is expected and it is doubtful 1970 volume will equal that of 1969. Prices are rather weak and subject to negotiation on particularly large projects.

Asbestos Corrugated: Since most corrugated is used in industrial and public utility projects and the volume of such projects remains at a relatively high level, sales of this material are about the same as for the comparable 1969 period. Should industry's capital expenditures be cut back, sales of corrugated would be adversely affected.

Asbestos Flat: Volume is holding steady but the outlook for the future is uncertain. If anything, a contraction in sales will probably occur later in the year.

High Pressure Insulation: The continuing requirement on the part of industry and public utilities for more and more power plants is contributing to the relatively good market for insulating materials of the high pressure type. The outlook for this year is favorable.

Asbestos-Cement Pipes: The drop in housing starts, due to the tight money situation, has led to a decline in new development projects which are normally large consumers of asbestos-cement pipes. The present market for such pipes is not strong and the outlook for the balance of 1970 is unfavorable. The saving grace could be a Federal push for more housing (which is badly needed) and the recent lifting of the freeze on projects employing Federal funds for financing.

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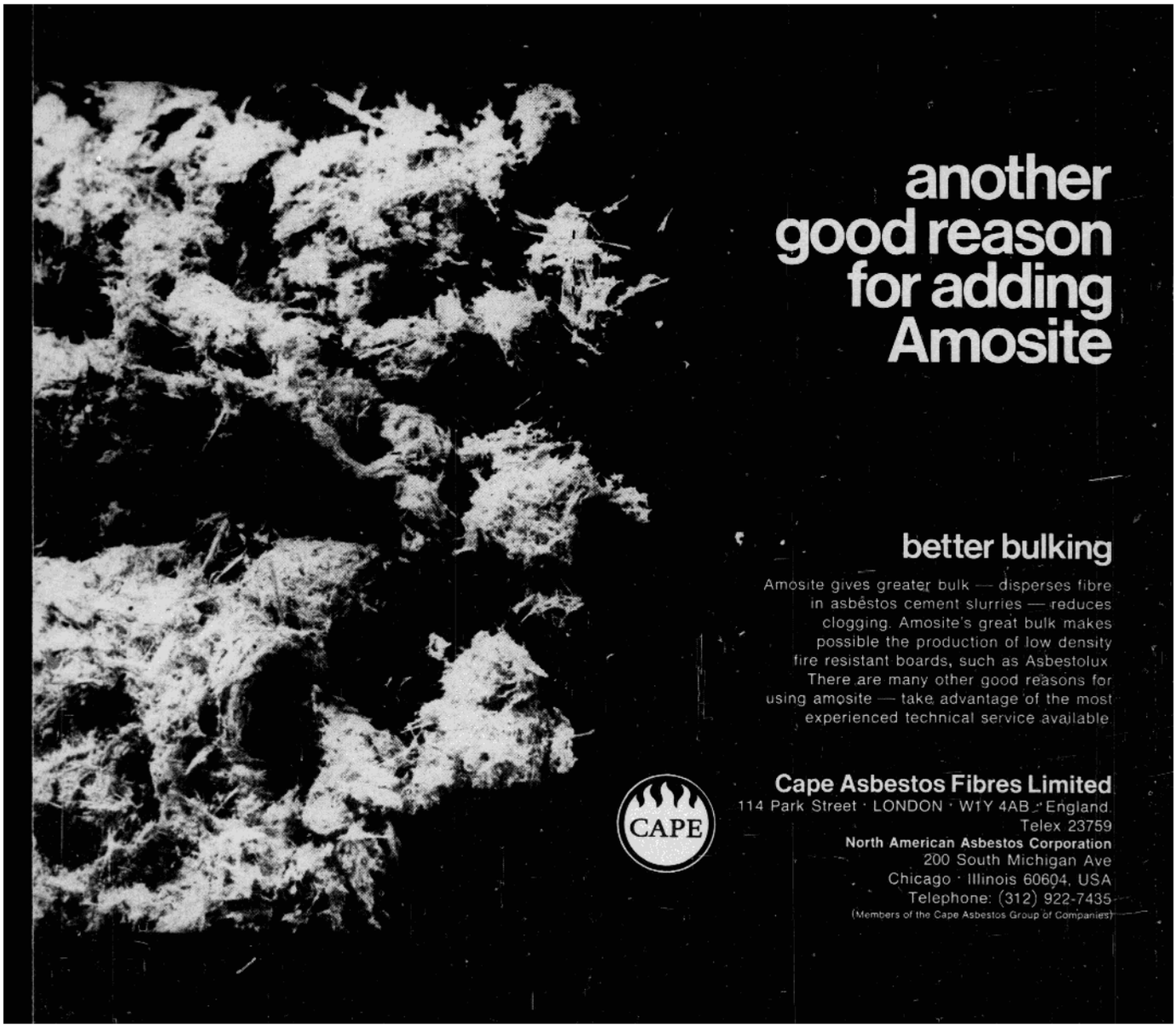
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PRODUCTION - IMPORTS - EXPORTS

Canada—Producers' shipments of asbestos during *November 1969* totaled 160,133 short tons (136,206 tons from Quebec plants and 23,927 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for November 1968 was 150,016 tons.

Canada produced 41,648,123 square feet (19,204 tons) of vinyl-asbestos tile during the *Fourth Quarter of 1969*. Shipments for the same period amounted to 40,014,356 square feet (18,014 tons).

For the *Year 1969*, production totaled 188,750,488 square feet (87,647 tons) and shipments reached 182,048,495 square feet (85,095 tons).

Imports of vinyl-asbestos floor and wall tile amounted to 1,771,506 square feet, valued at $114,000, for the *First Nine Months of 1969*.

The five reporting firms were American Biltrite Rubber Company (Canada) Ltd., Armstrong Cork Canada Ltd., Building Products Ltd., Dominion Oilcloth & Linoleum Co. Ltd., and The Flintkote Company of Canada Ltd.

(The above quoted figures on production of Canadian asbestos fiber and production and imports of vinyl-asbestos tile were supplied by the Dominion Bureau of Statistics, Ottawa.)

South Africa exported 65,142 short tons of asbestos fiber, valued at R7,181,167, during the *3rd Quarter 1969*. The breakdown is as follows: Amosite, 25,977, R2,615,657; Chrysotile, 5,835, R454,903; Cape Blue, 32,348, R3,974,562; Transvaal Blue, 982, R136,045.

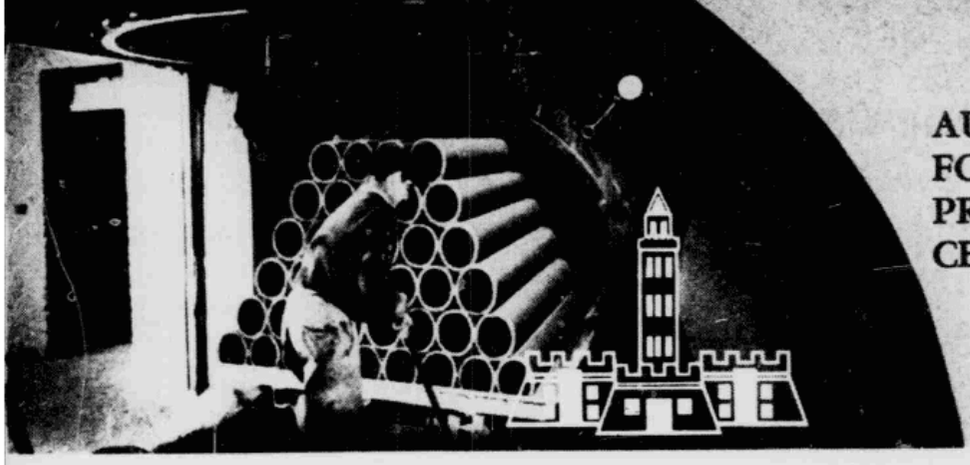
Production of asbestos during the *3rd Quarter 1969* totaled 73,888 tons: Amosite 26,291; Chrysotile, 12,433; Cape Blue, 33,927; Transvaal Blue, 1,237.

(The above figures were supplied by the Department of Mines, Johannesburg.)

General Review of the Mineral Industries (Mines, Quarries and Oil Wells) for the Years 1964 and 1965 has been issued by the Dominion Bureau of Statistics, Ottawa, Canada, as Catalog No. 26-201.

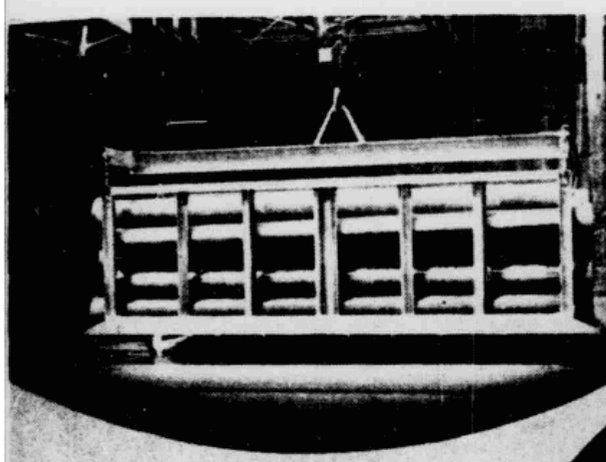
The statistics recorded for asbestos in 1965 are as follows. Total production amounted to 1,388,212 short tons, valued at $146,188,473 (65,626 tons in Newfoundland, 1,234,977 tons in Quebec, 1,758 tons in Ontario and 85,851 tons in British Columbia). Yearly tonnage of ore mined and rock quarried from 1924 through 1965 are given and show 53,399,988 tons for the year 1965. There were 10 establishments employing 6,536 people and salaries and wages totaled $38,681,000. 18,042,800 kilowatt hours of electricity were generated for the industry's own use. Cost of fuel and electricity totaled $8,320,000 and cost of materials and supplies reached $24,934,000.

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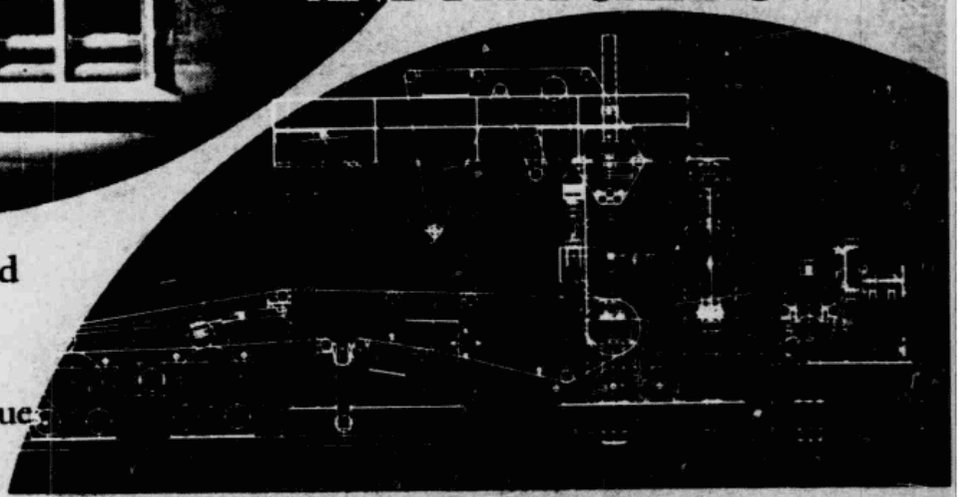


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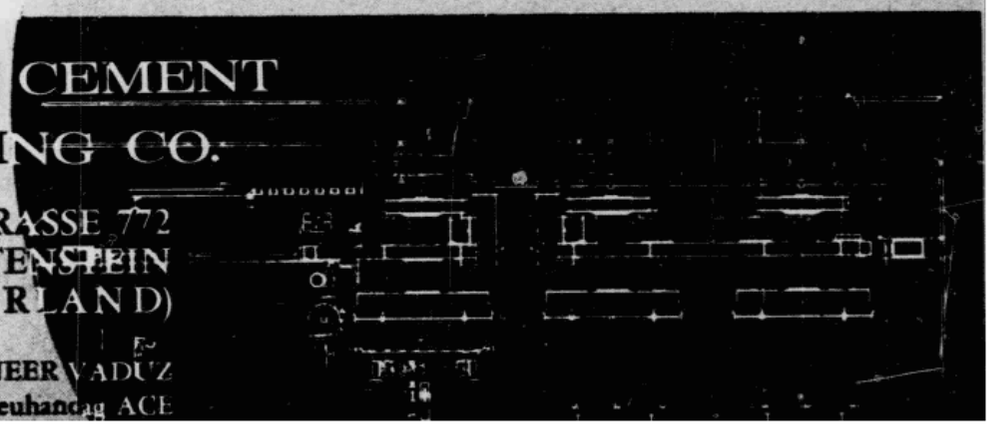


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Exports From Canada

(Published by Dominion Bureau of Statistics) Short Tons

Unmanufactured Asbestos: **DECEMBER 1969**

	Crude	Milled Gp. 3	Milled Gp. 4&5	Shorts Gp. 6-9
Eastern Europe	..	104	1,359	429
Western Europe	2	2,154	30,932	24,455
Middle East	..	..	900	31
Africa	..	..	957	143
Asia	13	607	11,924	23,465
Oceania	..	..	5,724	980
S. & Cen. America & Antilles	..	129	8,273	2,660
United States	..	1,682	17,455	30,706
	15	4,676	77,524	82,869

The total amount of unmanufactured asbestos exported in *December 1969* was 165,084 short tons, valued at $23,317,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$215,000
Asbestos-Cement Building Materials	77,000
Asbestos Basic Products, Other	112,000
	$404,000

Unmanufactured Asbestos: **YEAR 1969**

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	2,064	24,391	1,593
Western Europe	24	16,093	292,837	180,318
Middle East	..	..	15,848	2,939
Africa	..	390	6,215	1,435
Asia	69	2,995	88,934	137,282
Oceania	..	33	43,161	10,780
S. & Cen. Amer. & Antilles	20	803	70,996	22,532
United States	22	17,370	196,511	429,107
	135	39,748	738,893	785,986

The total amount of unmanufactured asbestos exported in the *Year 1969* was 1,564,762 short tons, valued at $216,275,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$1,246,000
Asbestos-Cement Building Materials	1,564,000
Asbestos Basic Products, Other	1,251,000
	$4,061,000

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PREPRINTS—1968 U.S. BUREAU OF MINES MINERALS YEARBOOK

The Mineral Industries of Arizona, California, North Carolina & Vermont—

Arizona—The value of mineral production in Arizona was $617.5 million, an increase of $152.3 million over that of 1967. Chrysotile asbestos fiber was produced from underground mines in Gila County by three companies. Most of the processed material was used in the manufacture of products for the construction industry. Jaquays Mining Corporation, Arizona's major producer, prepared and shipped Crude No. 1, 3Z filter fiber, 5K shorts, 7MF shorts and sand and waste. Metate Asbestos Corporation prepared and shipped LZ-222 filter fiber and No. 7 shorts from the Lucky Seven Mine. Asbestos Manufacturing Company prepared and shipped 3Z filter fiber and 5K shorts and waste from the Phillips Mine.

California—The value of California's mineral production, at an all-time high of $1.81 billion, was 7% higher than in 1967 with nonmetals accounting for 30% of the total. California, the leader of the four asbestos-producing States in the United States, reported a total production of 75,592 short tons of asbestos, valued at $6,139,000. The figure for 1967 was 77,091 short tons, valued at $6,726,000. Since California normally produces approximately two-thirds of domestic asbestos, the decline was of national significance. Exploration for metals and nonmetals continued at a high level, with three active asbestos-exploration projects reported to the Bureau of Mines. Four companies produced Chrysotile fibers in California: Pacific Asbestos Corporation in Calaveras County, Atlas Asbestos Company and Coalinga Asbestos Company in Fresno County, and Union Carbide Corporation in San Benito County (processed at the company's plant in Monterey County). Pacific Asbestos, the largest producer, prepared and shipped fibers that fall within Groups 4 through 7. The other companies produced Group 7 fibers only.

North Carolina—Mineral production in North Carolina was valued at $83 million, an increase of $6 million, or 7%, over that of 1967. Powhatan Mining Company, Baltimore, Maryland, produced asbestos, via open-pit method, near Burnsville, Yancey County, North Carolina. Output was somewhat less than in 1967 although quantity and value figures were withheld to avoid disclosing confidential data.

Vermont—Mineral production in Vermont was valued at $28.7 million, 5% more than that of 1967 and almost 5% more than the previous record year of 1965. GAF Corporation is the sole asbestos producer in Vermont. The Chrysotile asbestos, open-pit mine is situated on Belvidere Mountain in Orleans County. Most of the output was shipped to GAF plants in South Bound Brook, New Jersey; St. Louis, Missouri; and Dallas, Texas, for the manufacture of asbestos-cement roofing and siding, industrial board and corrugated sheets. Asbestos papers were made at the company's plant in Erie, Pennsylvania. Compared with 1967 levels, the tonnage of asbestos produced declined 4% and the value was reduced 3%, reflecting slightly higher unit prices.

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INDUSTRY NEWS

HAPPY BIRTHDAY

Richard H. Jaffer, President, York Insulation Co., Inc., Hillside, New Jersey, May 1.

Sidney S. Goodwin, Director, Hedman Mines Ltd., New York City, May 3.

Herbert L. Abrons, Corporate Secretary, GAF Corporation, New York City, May 4.

Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., New York City, May 4.

E. C. Hildebrandt, Secretary, MacArthur Co., St. Paul, Minnesota, May 4.

W. S. Cowell, President, Albion Asbestos Packings Ltd., Montreal, P.Q., Canada, May 5.

J. William Duncan, Vice President-Corporate Development, Industry Relations, National Gypsum Co., Buffalo, New York, May 8.

John P. Hayes, President, Building Products Division, & Corporate Group Vice President, National Gypsum Co., Buffalo, N.Y., May 9.

F. Parker Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, P.Q., Canada, May 10.

C. R. Elliott, Vice President & Secretary-Treasurer of Cassiar Asbestos Corp. Ltd., Toronto, Ont., & President of Conwest Exploration Co. Ltd., Vancouver, B.C., Canada, May 11.

R. B. Todd, Vice President-Manufacturing, Atlas Asbestos Co., Montreal, P.Q., Canada, May 11.

G. R. Pushman, Managing Director, Newalls Insulation & Chemical Co. Ltd., Washington, County Durham, England, May 12.

Frank C. Waters, Marketing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, May 12.

R. M. Bateman, Chairman, Turner & Newall Ltd., Manchester, England, May 15.

W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.

J. R. M. Hutcheson, Operations Manager, Asbestos Fibre Division, Canadian Johns-Manville Co. Ltd., Asbestos, Canada, May 17.

L. O. Montpetit, Assistant to the President, Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, May 19.

Kurt Schwarz, Vice President, Supradur Manufacturing Corp., Wind Gap, Pennsylvania, May 19.

M. L. Trepanier, Plant Manager, King-Beaver Mine, Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, May 19.

R. L. Johnson, Treasurer, MacArthur Co., St. Paul, Minnesota, May 20.

J. A. Goodwin, Manager in Training, Jeffrey Mine, Johns-Manville Corp., Asbestos, P.Q., Canada, May 21.

John R. Owens, Managing Director, Cape Asbestos Fibres Ltd., London, England, May 21.

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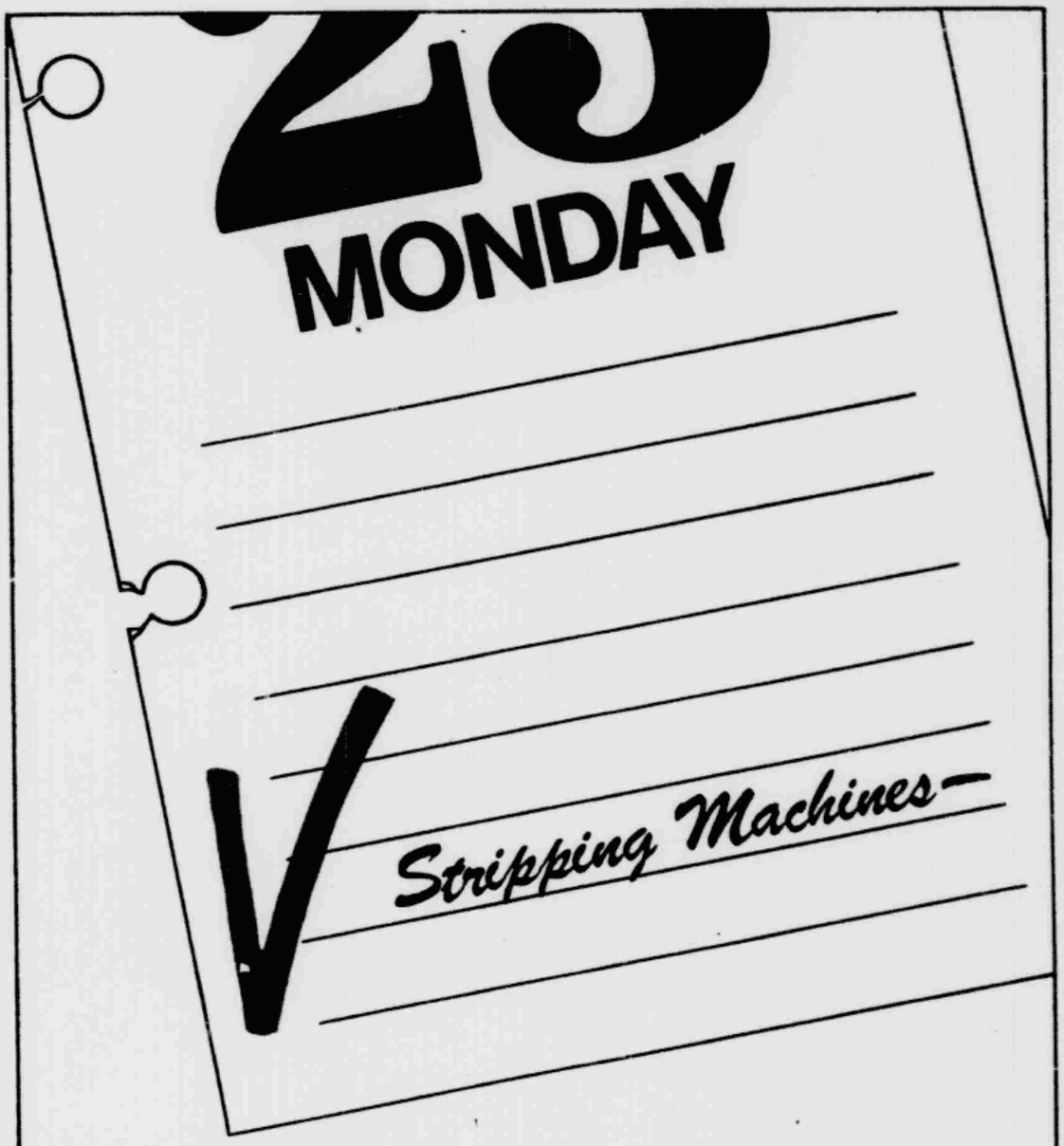
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E. Gaskell, Managing Director, Cape Insulation Ltd., London, England, May 22.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Co., Chicago, Illinois, May 25.
A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.
Henry N. Bates, Vice President for Administrative Services, Johns-Manville Corp., New York City, May 28.
Kenneth M. Eden, Assistant to President, Nicolet Industries, Inc., New York City, May 28.
Edward C. Koch, Vice President, Orangeburg Mfg. Co., division of The Flintkote Company, Orangeburg, New York, May 28.
Lionel C. Piuze, Vice President, Lake Asbestos of Quebec Ltd., Black Lake, P.Q., Canada, May 30.
Frederick A. Wagner, Vice President-Administration, National Gypsum Co., Buffalo, New York, May 30.
Charles M. Wiley, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, June 1.
Byron M. Snyder, Staff Manager, Asbestos Fibre Dept., Johns-Manville International Corp., New York City, June 2.
Leo J. Bartolanzo, Treasurer, Johns-Manville Corp., New York City, June 3.
Bert I. Bertelsen, Manager, Industrial Products Div., GAF Corporation, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Ltd., Cincinnati, Ohio, June 3.
Gordon C. Scowcroft, Vice-Chairman of the Board, Carey-Canadian Mines Ltd., East Broughton Station, P.Q., Canada, June 3.
F. O. Schweizer, Vice President & General Manager of Building & Industry Products Operations, Armstrong Cork Co., Lancaster, Pennsylvania, June 4.
William T. Kelly, Jr., Director, Abex Corporation, New York City, June 5.
Yvan Couture, Director of Public Relations, Canadian Johns-Manville Co. Ltd., Asbestos, P.Q., Canada, June 6.
Murray F. MacDonald, General Sales Manager, Building & Flooring Materials Div's., Johns-Manville Corp, New York City, June 6.
Joseph N. Yorke, Vice President-Finance, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, June 6.
M. A. F. Newton, Director, The Cape Asbestos Co. Ltd., London, England, June 7.
Stuart K. Brigham, Assistant to the Presidents, Cassiar Asbestos Corp. Ltd., Toronto, Ont., & Conwest Exploration Co. Ltd., Vancouver, B.C., Canada, June 8.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corp., New York City, June 9.
Robert F. Deerfield, Director-Market Services, Building Products Div., GAF Corporation, New York City, June 9.
W. B. Evans, President & General Manager, Miami-Carey Div., & Vice President, Philip Carey Corp., Monroe, Ohio, June 10.
Joseph T. Hepp, President, R/M International, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, June 11.

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Ernest C. Bratt, Works Manager, Charlotte Works, Thermoid Div., H. K. Porter Co., Inc., Charlotte, North Carolina, June 12.
G. S. Sutcliffe, Deputy Chairman, Turner & Newall Ltd., Manchester, England, June 12.
A. H. Bagenstose, Vice President-Sales, Carey-Canadian Mines Ltd., Cincinnati, Ohio, June 14.
A. C Caron, General Superintendent, Cassiar Mine, Cassiar Asbestos Corp. Ltd., Cassiar, B.C., Canada, June 14.
William S. Hough, Secretary-Treasurer, Mechanical Packing Association, Brielle, New Jersey, June 14.

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

St. Matthews Pulp Company, a division of Howard Zuker Associates, Chicago, Illinois, plans to reopen the Palmer Asbestos & Rubber Company plant at St. Matthews, Kentucky.

Paul J. Krez Company and its wholly-owned subsidiaries, Asbestos-Spray Contractors, Inc. and Spray Insulations, Inc., will occupy a new circular-style building by mid-1970 in Tam-O-Shanter Industrial Park, Niles, Illinois. The Krez firm is in the insulation-contracting business.

J. W. Roberts Limited, Bolton, England, (a Turner and Newall company), opened its first overseas manufacturing unit in Victoria, Australia. The factory will manufacture Sprayed LIMPET Asbestos to meet the increasing demand from Australian licensees.

Swaziland—According to the Ministry of Commerce, Industry and Mines, Swaziland, underground prospecting work being undertaken by Lonrho Limited on asbestos deposits near Emlembe is expected to be completed within the next two or three years. (Standard Bank Review, February 1970 issue.)

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

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Canadian Johns-Manville Co. Ltd. has awarded a $1.3 million contract to Pentagon Construction Co. Ltd., Montreal, for the construction of adequate facilities to accommodate Canada's largest gyratory crusher. The construction is part of the $75 million, five-year mining program taking place at the Jeffrey Mine. (Plans for the program were briefly described in February 1970 ASBESTOS on page 44.)

The contract provides for the sinking of a 40-foot by 40-foot shaft to a depth of 115 feet and the excavation of a 115-foot-long underground gallery and a 400-foot-long by 10-foot-diameter tunnel. Scheduled for completion before the winter of 1970, the project will also involve obtaining necessary production and maintenance equipment and constructing a building over the crusher. The crusher, which will be placed in the shaft, has a 72-inch opening, weighs 1,200,000 pounds, can directly and simultaneously receive the loads from two, 200-ton trucks, and has the capacity to handle 3,000 tons of ore per hour.

(Last year, C.J-M announced the implementation of an accelerated overburden removal program that required the purchase of 200-ton trucks and 15-cubic-yard electric shovels and the relocation of all surface facilities except the mill. The mill daily produces some 2,000 tons of asbestos fiber.)

Asbestos Fiber in Grouting Material—The project of sinking a 1,645 foot development shaft deep into the Penhale orebody (*Asbestos Corporation Limited*) is being undertaken by *Cementation Company of Canada*. To prevent the shaft from filling with ground-water, the shaft-sinkers are lining it with concrete. Since water finds its way through the tiniest of cracks in concrete, a technique known as "grouting" is used to fill in such cracks. To achieve the best possible seal against water infiltration, Cementation is adding short-grade asbestos fiber to thicken and strengthen the cement-based grouting material. The fiber also makes the grouting material more "workable" during application and offers longer-lasting adherence to the concrete. (Asbestos Producer, February 1970)

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ASBESTOS FIBRES

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NOTES FROM 1969 ANNUAL REPORTS

RAYBESTOS-MANHATTAN, INC.

1969 marked Raybestos-Manhattan's 40th year of operation. After a very strong first half, Raybestos began feeling the results of the slowdown in industrial activity. As a result of the slowing economy, increased labor and other costs, and certain abnormal start-up and moving expenses, net income for the year was $4,422,157 as compared to $4,532,961 for 1968 before extraordinary items. Although sales for 1969 were $149,319,200, or 9.6% ahead of last year, sales in the second half of 1969 were below those of the first half of 1969. In view of the continuing drop off in industrial activity, steps are being taken to reduce costs and tighten financial controls.

The many changes made during the year coupled with an $11,497,000 investment in new assets for plants and equipment, including acquisitions, will be effective in 1970. To insure that these forces of change contribute to improved profits in 1970, the corporate staff at the newly-established offices in Bridgeport, Connecticut, was strengthened to provide greater corporate direction of the principal control areas.

In May, R/M acquired the frictional material company, Breku Reibbelag G.m.b.H. & Company, Radevormwald, West Germany. A European sales office will be opened by R/M International in 1970. The acquisition of Milford Rivet & Machine Company was announced in August, thus providing diversification in the rivet and rivet-setting machine fields. Milford operates five plants in the United States and ground has been broken by the subsidiary for a new plant at Elyria, Ohio. In October, Johns-Manville Corporation's asbestos textile plant in Marshville, North Carolina, was acquired, providing greater capacity for R/M in the asbestos textile and clutch facing fields.

Major plant expenditures were made in the past year to provide increased manufacturing facilities for clutch facings, fluorocarbon hose, rubber-covered rolls, V-belts, sintered metal parts, brake lining and other products. In addition, R/M opened a new plant in Lakewood, New Jersey, and a new distribution center and brake relining plant in Elmhurst, Illinois. The plant at Fullerton, California, was completely retooled to become the industry's most modern production facility for passenger car brake lining.

Several new products were pioneered which should contribute to sales progress and strengthen R/M's position in existing markets. NOVATEX is a class of new asbestos textile products being developed for use in areas where asbestos yarns and cloth, as well as other high temperature materials, are now being employed. The product will initially enter the industrial safety glove market. New applications for SPM V-BELTS are now being tested. The belts are made by a patented process giving precise dimensional uniformity for superior operation. RED DEMON is a new high-performance, automotive brake lining now in production. The product will be sold to the growing performance-minded market and for racing cars. Also, a lead-rubber, woven asbestos sheet with exceptional sound-deadening properties has been developed. The new material will be offered to the

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Raybestos-Manhattan technology is described as "Creative Compositry," meaning the ability to blend materials previously considered incompatible into a composite material utilizing the most desirable properties of each component. A recent product development, REFSET, has contributed to this reputation. The National Aeronautics and Space Administration was exceptionally pleased with the product's performance as a non-combustible material in its application in Apollo 12. NASA, therefore, planned several conferences to seek commercial applications for the product. To date, such applications have been limited to low volume sales and it is not expected that the material will have any noticeable effect on sales or earnings in the forseeable future.

R/M reported good personnel relations with a minimum of labor disturbances. The Manhattan Industrial Rubber Workers Union presented a plaque to the Passaic, New Jersey, Division in memory of R/M's past President, Mr. John F. D. Rohrbach—a unique example of union recognition of its personal relationship with Management.

UNIROYAL, INC.

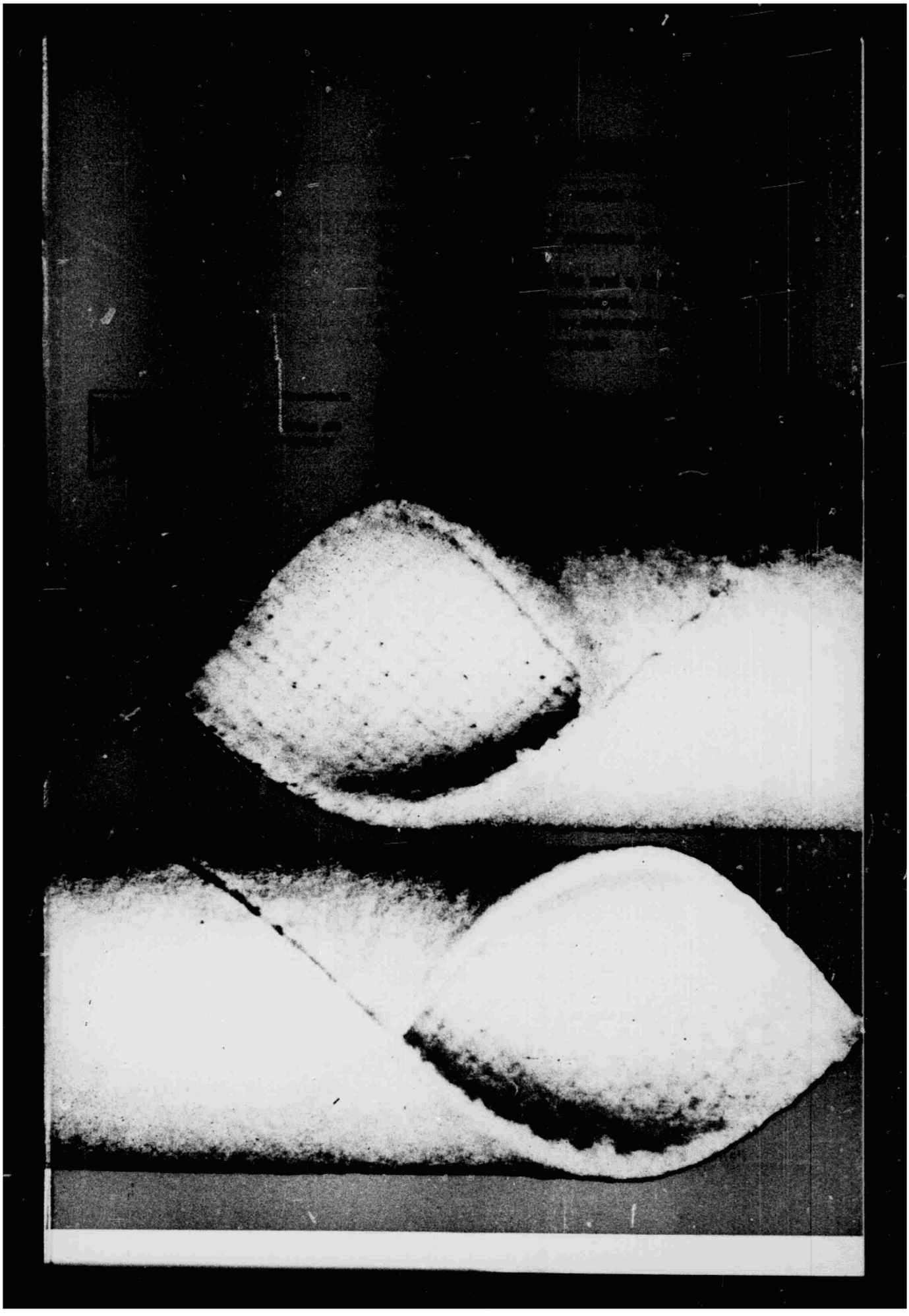
Sales and operating revenues of Uniroyal, Inc., for the year 1969 were $1,553,826,000—the highest in the company's history and 8.7% above 1968 (the previous record year). Although net income of $46,568,000 was the second highest in Uniroyal's history, it was 18.2% below the record 1968 earnings of $56,946,000. Programs of capital expansion and plant improvement continued. Capital additions in 1969 increased to approximately $137 million, from the $101 million invested in 1968. A number of product lines which had become unprofitable were discontinued or sold during 1969. This process of divestment is being accelerated in 1970 to release cash for more productive purposes. Both sales and profits of Uniroyal's operations outside the United States showed increases during the year.

Uniroyal is diversified, but it is also integrated. Its capabilities extend from basic raw materials—natural and synthetic rubbers, chemicals, plastics and textiles—through semi-finished and finished products, and on to a strong and growing merchandising organization. The foundation for innovation exists in a strong research and development program currently functioning at the corporate Wayne Research Center and in over twenty other locations throughout the world. Expenditures for research and development have steadily risen to a point where they now exceed $50 million annually. Today Uniroyal holds more patents than any other company in its field.

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PERSONNEL NEWS

CASSIAR ASBESTOS CORPORATION LIMITED

Stuart K. Brigham has been appointed Assistant to the Presidents of Cassiar Asbestos Corporation Limited and of Conwest Exploration Company Limited. His experience in the Asbestos Industry includes 23 years in Engineering, Planning and Development in the Asbestos Fibre Division of Canadian Johns-Manville Company Limited, and 10 years as Project-Manager for several major asbestos mining developments and expansions.

THE FLINTKOTE COMPANY

Harding L. Taylor is now Vice President-Sales for "Flintite" asbestos-cement pipe and PVC (polyvinyl chloride) pipe products in the Pipe Products Group. Sales and marketing headquarters for both product lines are located at Ravenna, Ohio. Mr. Taylor had been General Sales Manager for Flintite products. Before joining Flintkote in 1953, he was on the staff of the Health Department of the State of Arkansas.

RAYBESTOS-MANHATTAN, INC.

I. H. Weaver has been named Corporate Director of Environmental Control, a new position established to centralize R/M's program for the prevention and control of air and water pollution. Mr. Weaver will maintain offices at the company's operating division at Manheim, Pennsylvania, and will work with the engineering departments of all R/M manufacturing divisions and depots to determine where interior and exterior environmental problems exist and recommend measures to correct them. He joined Raybestos in 1947 and from 1953 had been Division Engineer, responsible for the control of air and water pollution.

George E. Quandt was appointed Corporate Director of Industrial Relations. His last post was Manager of Employee Relations with General Dynamics. Prior to that he had been Director of Employee Relations with the Dictaphone Corporation.

Harry Christianson, Vice President and General Manager, Raybestos Division, was promoted to Vice-President-Special Assignments. He joined R/M in 1930 and his latest position with the company was as Vice President.

SIMPLICITY ENGINEERING COMPANY

Simplicity Engineering has announced the appointment of *Robert B. Armstrong* as Manufacturing Manager, with direct responsibility for production, maintenance, plant engineering and quality control. For eleven years, Mr. Armstrong had been with General Motors in various divisions in the United States and in Mexico.

Charles A. Schirmer was appointed Sales Representative for the Alabama and Mississippi area. Prior to joining Simplicity, Mr. Schirmer was a Foundry Project Engineer.

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ASBESTOS STOCK QUOTATIONS

Close—March 20, 1970

Abitibi Asbestos	*$6.05	G-Alden (pfd 3)	55 7/8
Advocate	*$2.27	G-Alden (pfd 2.25)	33
Asarco	33 3/8	Grace	21 5/8
Armstrong Cork	31 5/8	Gulf & Western	17 3/8
Armst Cork (pfd 3.75)	55	G&W (pfd 1.75)	56
Asbestos Corporation	*$26.00	G&W (pfd 3.50)	71 1/2
Bendix	27 7/8	G&W (pfd 3.87)	48
Bendix (pfd 3)	48	G&W (pfd 5.75)	63 3/8
Briggs Mfg	4 1/8	Illinois Central	29 5/8
Carlisle	13	Ill. Central (pfd 3.50)	51
Cassiar	*$17.87	Johns-Manville	32 1/4
Certain-teed	23 7/8	Maremont	11 5/8
C-teed (pfd .90)	25	National Gypsum	22 5/8
Conwest	*$14.50	Natl Gypsum (pfd 4.50)	63
Flintkote	23 3/8	Patino	*$51.50
F-kote (pfd-A 4.50)	76 1/2	Porter (pfd 5.50)	69 1/4
F-kote (pfd-B 2.25)	33 3/4	Raybestos-Manhattan	46 1/2
GAF	12 3/4	Unarco	10 7/8
GAF (pfd 1.20)	20 5/8	Union Carbide	36 1/2
Garlock	17 5/8	Uniroyal	17
Glen-Alden	8 1/2	Uniroyal (pfd 8)	102
G-Alden (pfd 3.15)	64	United Asbestos	3-15/16

*Canadian currency
(Sources: The Wall Street Journal and the New York Times)



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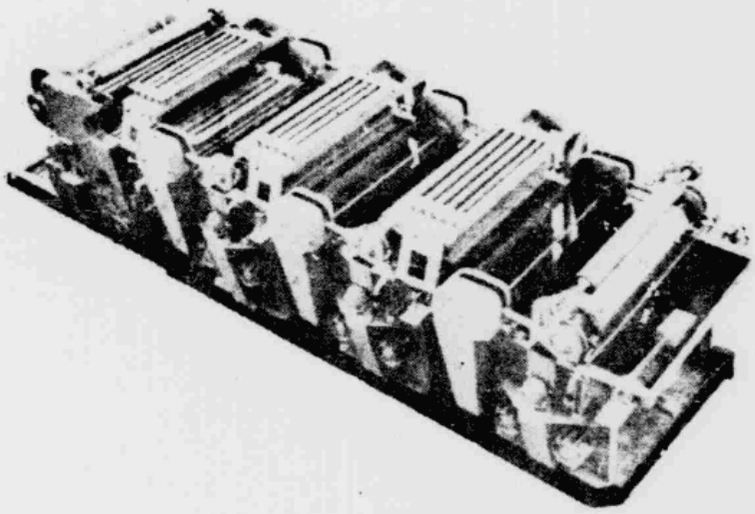
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ASP-HAC-39

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ASBESTOS PRICES

ARIZONA

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

(As of August 1, 1968) — U.S. Dollars

No. 1 Crude	$1,410.00 — $1,650.00
No. 2 Crude	700.00 — 950.00
AAA	.. 800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	425.00 — 700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	400.00 — 500.00
Group No. 5 (Non-Ferrous Filtering-Plastic)	385.00 — 425.00
Group No. 6 (Non-Ferrous Plastic)	.. 250.00
Group No. 7 (White Shorts)	65.00 — 90.00

CANADA

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

(As of January 1, 1970) — Canadian Currency

Crude No. 1	$ .. $1,525.00
Crude No. 2	.. 825.00
No. 3 (Spinning Fiber)	397.00 — 650.00
No. 4 (Shingle Fiber)	218.00 — 369.00
No. 5 (Paper Fiber)	157.00 — 184.00
No. 6 (Waste)	.. 114.00
No. 7 (Refuse, Shorts)	48.00 — 95.00

CASSIAR

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

(As of January 1, 1969) — Canadian Currency

AAA Grade (Non-Ferrous Spinning Fiber)	$ 845.00
AA Grade (Non-Ferrous Spinning Fiber)	673.00
A Grade (Non-Ferrous Spinning Fiber—Canadian Group 3)	508.00
AC Grade (Asbestos-Cement—Canadian Group 4)	363.00
AK Grade (Shingle Fiber—Canadian Group 4)	249.00
CP Grade (Shingle Fiber—Canadian Group 4)	234.00
AS Grade (Shingle Fiber—Canadian Group 4)	217.00
CT Grade (Shingle Fiber—Canadian Group 4)	211.00
AX Grade (Shingle Fiber—Canadian Group 5)	193.00
CY Grade (Shingle Fiber—Canadian Group 5)	136.00
AY Grade (Shingle Fiber—Canadian Group 5)	136.00

VERMONT

Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of January 1, 1970) — U. S. Dollars

Group No. 3 (Spinning & Filtering Fiber)	$ 366.50 — $ 393.50
Group No. 4 (Shingle Fiber)	201.00 — 341.00
Group No. 5 (Paper Fiber)	145.00 — 170.00
Group No. 6 (Waste)	.. 105.00
Group No. 7 (Shorts, Floats)	48.00 — 87.50
Hooker No. 1 (Packaged in 50-lb. Burlap Bags)	.. 402.00
Hooker No. 2 (Packaged in 100-lb. Burlap Bags)	.. 201.00

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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 D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from February 17 through March 10, 1970.

3,496,057—Aluminized Fabric and Method of Forming the Same, J. D. McCluer (assigned to H. K. Porter Company, Inc., Trenton, New Jersey), February 17.

3,497,419—Method of Orienting Fibers by Means of Alternating Current and Direct Current Voltages, A. A. Winer & H. M. Woodrooffe (assigned to Canadian Patents & Development Limited, Ottawa, Canada), February 24.

3,499,788—Method in the Manufacture of an Exchanger Packing for Two Fluids, O. Glav (assigned to Carl Munters & Company, Stocksund, Sweden), March 10.

3,499,812—Method in the Manufacture of an Exchanger Packing for Two Fluids, O. Glav, March 10.

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Remember When?

(April 1920 ASBESTOS)

New Advertisers: Asbestos Limited

H. F. Watson Company

The Provincial Export Tax on Asbestos was set at 5%, effective March 15, 1920, an increase over the previous rate of 3½%.

A short biography of Arnold W. Koehler appeared in this issue. Early in 1915 Mr. Koehler organized and became President of Asbestos Textile Co., Inc., with a plant at Reynoldsville, Pa. and offices in New York City. In 1919 the company purchased a much larger plant at North Brookfield, Mass., which was to be put in running order to increase asbestos textile capacity four times that of the original mill.

Jacob A. Jacobs was reported as having purchased the property of Boston Asbestos Co. at East Broughton, Quebec, and some adjoining properties. The Boston mill was being repaired under the direction of W. A. Rukeyser. Mr. Jacobs was also reported to have offered to purchase the controlling interest in Black Lake Asbestos & Chrome Co. Ltd.

An increase in Canadian asbestos miners' pay was announced. The increase of $1.00 per day brought wages of surface workers up to $4.00 per day and those of pitmen up to $4.25 per day.

The plant of the Baltimore Roofing & Asbestos Mfg. Co. was sold at auction to A. E. Van Bibber, representing the Congoleum Co. It was planned to convert the plant for the manufacture of rag felt for use in floor coverings and roofings.

Mr. E. B. Knowles severed his connection with Thermoid Rubber Co. to become Secretary and General Manager of Staybestos Mfg. Co., Philadelphia, Pa.

J. F. P. Kuchenbecker, formerly with Keasbey & Mattison Co., established the American Asbestos & Magnesia Co. in Chicago to engage in the sale of various asbestos products and the application of insulations.

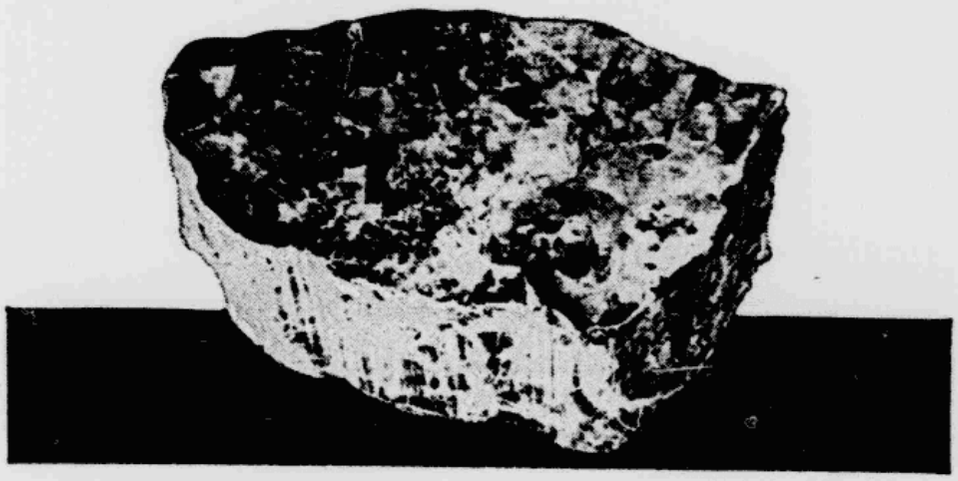
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Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

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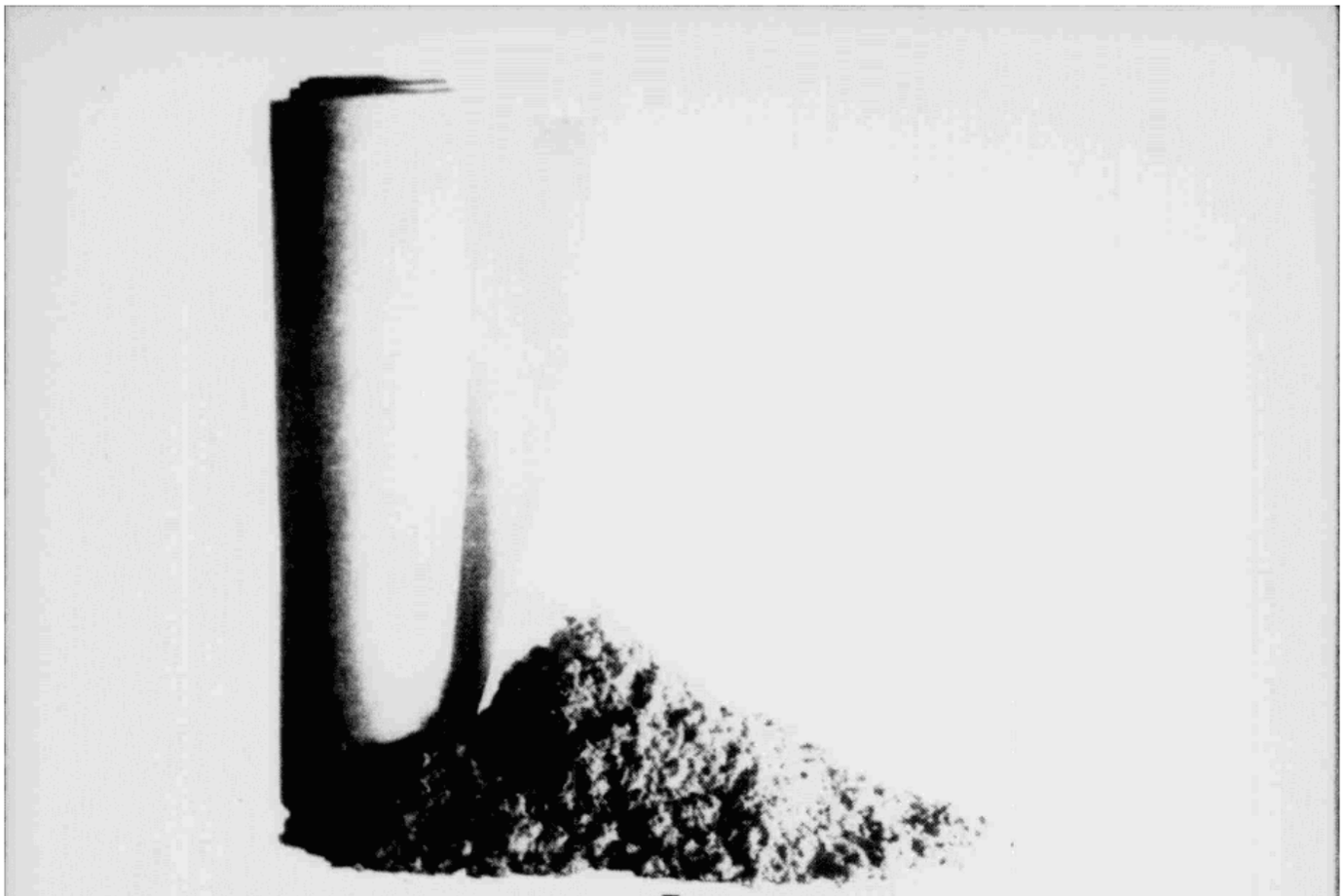
Speedlag is fitted and cut, then water-dipped to activate the integral adhesive, and placed in position—that's all. No coating of pipe and duct insulation with adhesive. And Speedlag's 100% inorganic adhesive serves as a filler, eliminating the need for sizing before painting. Speedlag is soft, pliable, lint-free.

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