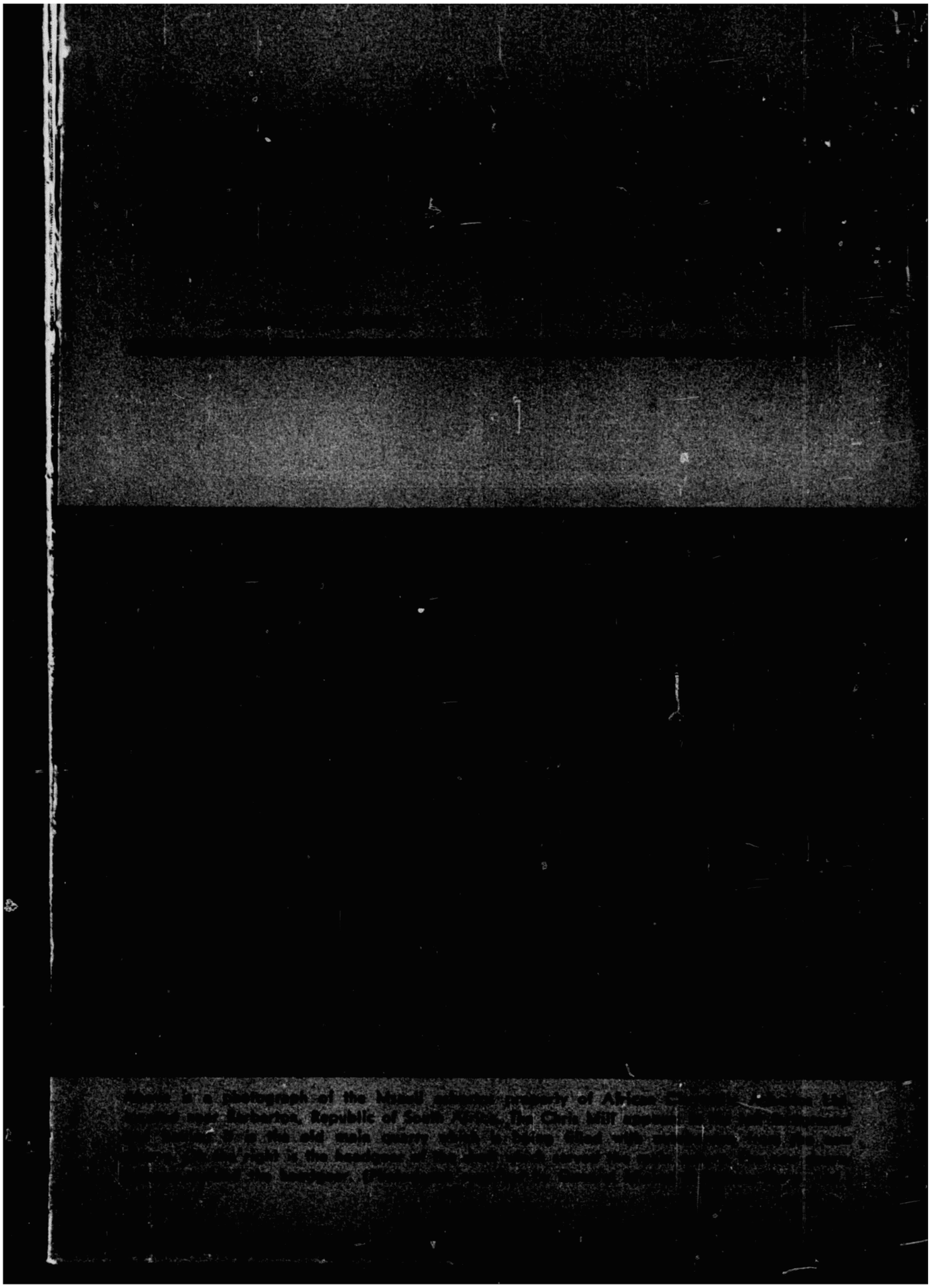


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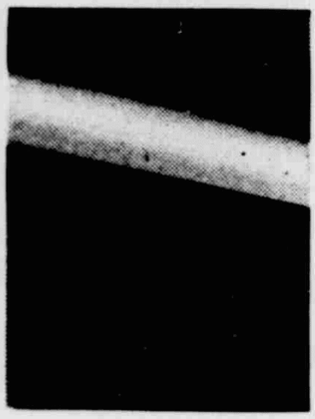




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Manheim, Pa. 17545

ASBESTOS

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AFRICAN CHRYSOTILE ASBESTOS LTD.

Msauli Mine

Following is the first of a series of articles concerning the asbestos activities of General Mining and Finance Corporation Limited, Johannesburg, Republic of South Africa.

The Msauli Mine of African Chrysotile Asbestos Ltd. is situated some 15 miles south-southeast of Barberton near the Swaziland Border in the northern extremity of the Steynsdorp Valley of the Republic of South Africa, the distance by road from Barberton being 35 miles.

The deposit was first worked in 1942 when 148 tons fiber were produced. Continuous production dates from 1944 and, up to December 1967, Msauli Mine produced a total of 230,894 tons of Chrysotile fiber.

Because of poor transportation facilities, including the lack of a bridge over the Komati River, very little asbestos was produced at first. An aerial tramway was constructed to carry the asbestos over the river, from where it was transported by truck to the railhead at Breyten. In 1948 there was a change of ownership and name to African Chrysotile Asbestos. The new company staked a large additional area surrounding the original claim area of the Diepgezet Asbes Company, and good progress has since been made.

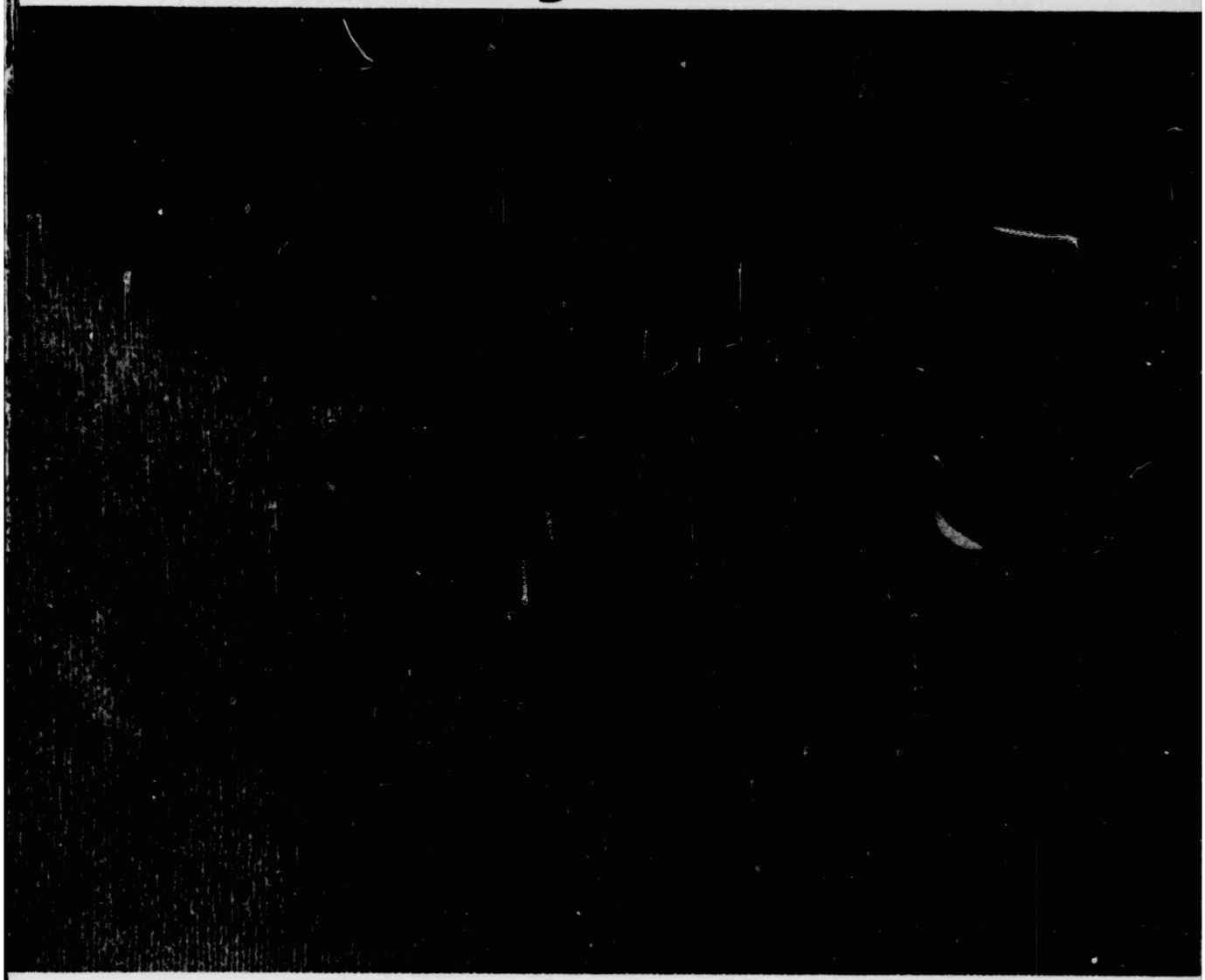
In 1950 the concern became a wholly-owned subsidiary of Msauli Asbes Beperk, a public company and in 1962, Federale Mynbou Beperk acquired a controlling interest in the latter company. The African Chrysotile Asbestos Company now mines the deposit as a whole, but 129 claims are still owned by Diepgezet Asbes Company and are worked under tribute agreement.

Near the New Quarry is the 510-foot-deep Vertical Chris Shaft and the Bridge Adit, which originally gave access to the underground workings situated beneath the Main Quarry. Ore was extracted from the underground workings by means of a system of sub-level caving from 8 sub-levels some 30 feet apart. Underground operations were discontinued in 1965, and mining was confined to open pit working of the existing "Anna" and "New" Quarries at the northern and southern extremities of the orebody. Both quarries are situated on the eastern bank of the Msauli River and the

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Anna Quarry is approximately 5,000 feet north of the New Quarry.

Msauli presently employs 600 people all of whom are housed on the mine property. The mine has a clinic which is visited by a doctor from Barberton every week. Clinic staff includes a male nurse and a staff nurse.

The mine has a recreation hall, a golf course, swimming pool, tennis courts, snooker room and a badminton court. Jukskei is also played and moving pictures are shown twice a week.

Power for the mine has been obtained from the ESCOM network since 1967. Prior to that the mine relied on three hydroelectric plants, the last unit erected using water impounded in a 15-foot by 400-foot weir in the Komati River and delivering an output of 1,200 KVA generated at 6.6 KV.

GEOLOGY

The general strike of the formations in the area is slightly east of north and dips are to the east at 55° to 70°, averaging about 65°.

The workings are situated on a body of serpentinite which can be traced southwards for a distance of 12,500 feet as far as the north bank of the Komati River. The thickness of the serpentinite body varies from 160 feet to 700 feet, averaging approximately 450 feet. The serpentinite occurs as a sill-like body in a zone of talcose, carbonate-rich and chloritic schists and chert belonging to the Swaziland system.

These schists can be traced for a distance of 27 miles virtually continuously from Havelock Mine, southwards through Diepgezet and along the eastern flanks of the Steynsdorp Valley to the Usushwana Valley in Swaziland.

The zone of schist and serpentinite varies in thickness from 1000 feet to 4000 feet with an average of 2500 feet, being underlain by Onverwacht Lava and overlain by shale and chert of the Fig Tree Series along its entire strike within the Transvaal.

The serpentinite mass is broadly concordant and detailed surface and underground mapping suggests the body to be intrusive.

The main orebearer, which dips at 55°-70° to the east, is a granular, apple-green serpentinite, while short fiber also

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occurs very sporadically in dark green, denser serpentinite in the hanging- and foot-wall. Although the two distinctive types of serpentinite are as a rule spatially well-defined, gradational contacts occur locally, especially in portions of the hanging-wall.

Mineralization occurs as a stockwork of cross fiber Chrysotile seams from 1/32" to ¾" in width, the latter very rarely exhibiting fracturing with consequent reduction in fiber length. Fiber development exhibits much variation from one section of the orebody to another, but as a whole the fiber content of the ore ranges from 4% to 22%.

Post-mineralization faulting is evidenced by barren, generally longitudinal shear zones within the serpentinite, with magnesite veins occurring sporadically in the rock. In very rare instances magnetite may occur as veinlets associated with fiber seams and as minute grains within the serpentinite.

Three basic intrusions, two dykes and a contorted sheet-like body, cut the northern part of the orebody and have locally converted the Chrysotile to brittle fiber along parts of the contact zone.

Structural control of fiber formation appears to have been exercised by confining strike faults located in the deep hanging- and foot-wall. The resultant differential shearing stress and accompanying pressure followed by dilation, are thought to have created a favorable environment for fiber growth within the serpentinite.

Slides of typical light apple-green serpentinite show an abundance of serpophite, antigorite and chrysotile with brucite and a little magnetite as accessories. As a rule brucite occurs as discrete grains occupying the centers of serpentine pseudomorphs while magnetite is interstitial and in isolated instances appears as minute veinlets.

MINING

Prospecting

Prospecting is done by diamond core drills to enable the geologists to ascertain the fiber content of the ore. Drill core fiber is extracted in a laboratory plant which is in fact a miniature mill.

Extensive diamond drilling is carried out in the quarries, and holes are drilled on a 50-foot grid pattern to an average depth of 200 feet in order to evaluate the ore to be mined

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The **R. C. M. Company** - *known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems:*

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during the next five years. The uneven distribution of fiber in the orebody necessitates a dense drilling pattern. The results of this drilling are used for short-term planning and for grade control of ore supplied to the mills.

To determine the shape and size of the orebody, additional deep holes are drilled through the orebody and into the country rock. The data obtained from all the drill hole results are programmed for computer input to determine ore reserves and stripping ratios.

Layout

Quarry benches are 40 feet high and slope at 65°. The quarries are designed for depths at which the instantaneous stripping ratio reaches 10 to 1 at an average slope of 40°. Instantaneous stripping ratios of 14 or 15 to 1 will probably be possible before economics will force a resort to underground mining.

The final depth at which open pit working will be abandoned in favor of underground mining is also dependent on average side-wall slope which may be steepened as more experience is gained regarding rock stability.

At present, both quarries are worked at average stripping ratios of 6 to 1 which allows wide roadways for easy and safe operation of heavy equipment, and average slopes considerably less than 40°. Work is concentrated on a few benches only and the upper benches are moved to their final positions as quickly as possible.

Drilling & Blasting

Drilling for blasting purposes is done by mobile drills with swivel heads. These are capable of drilling holes at various dips and do not depend on a central compressed air supply as every drill has its own air compressor unit.

Holes are drilled 50 feet deep at a 65° dip. Until recently, medium sized rotary drills were used. The average spacing of the holes was 10 feet with an 8 foot burden, and they were charged with standard 40% dynamite cartridges.

As the policy at Msauli is to replace existing equipment, as units wear out, with larger and more efficient units, new drills capable of drilling 4 to 6 inch holes have been put into operation. These units incorporate primary and secondary dust extraction units and water injection to facilitate drilling

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and control dust. In softer serpentinite rock, rotary tricone bits are used. but in harder rock, such as dolerite intrusions, down-the-hole hammer drilling is employed.

Since the new drills have been placed in operation only recently and the mine has switched to the use of Anfex as a blasting agent, the optimum spacing of drill holes for most economic fragmentation has not yet been determined. Experiments are continuing but the following spacings have given good results: (1) Dyke: 14-foot spacing with 12-foot burden yields 3 tons of broken rock per pound of explosive, (2) Serpentinite: 18-foot spacing with 15-foot burden yields 5 tons of broken rock per pound of explosive.

As stated above, the mine is now using Anfex for blasting. Porous ammonium nitrate prills and diesoline are mixed mechanically on site, in a machine which discharges directly into the hole. Detonation is obtained with cordtex and pentolite boosters.

Loading & Transport

Until recently quarry equipment consisted solely of 15-ton trucks, 2-cubic-yard front-end loaders and a 2½-cubic-yard mechanical shovel. These are gradually being replaced by 5¼-cubic-yard front-end loaders and 35-ton trucks.

To produce the required ore tonnage of 35,000 tons per month from both quarries necessitates the removal of approximately 220,000 tons of overburden per month.

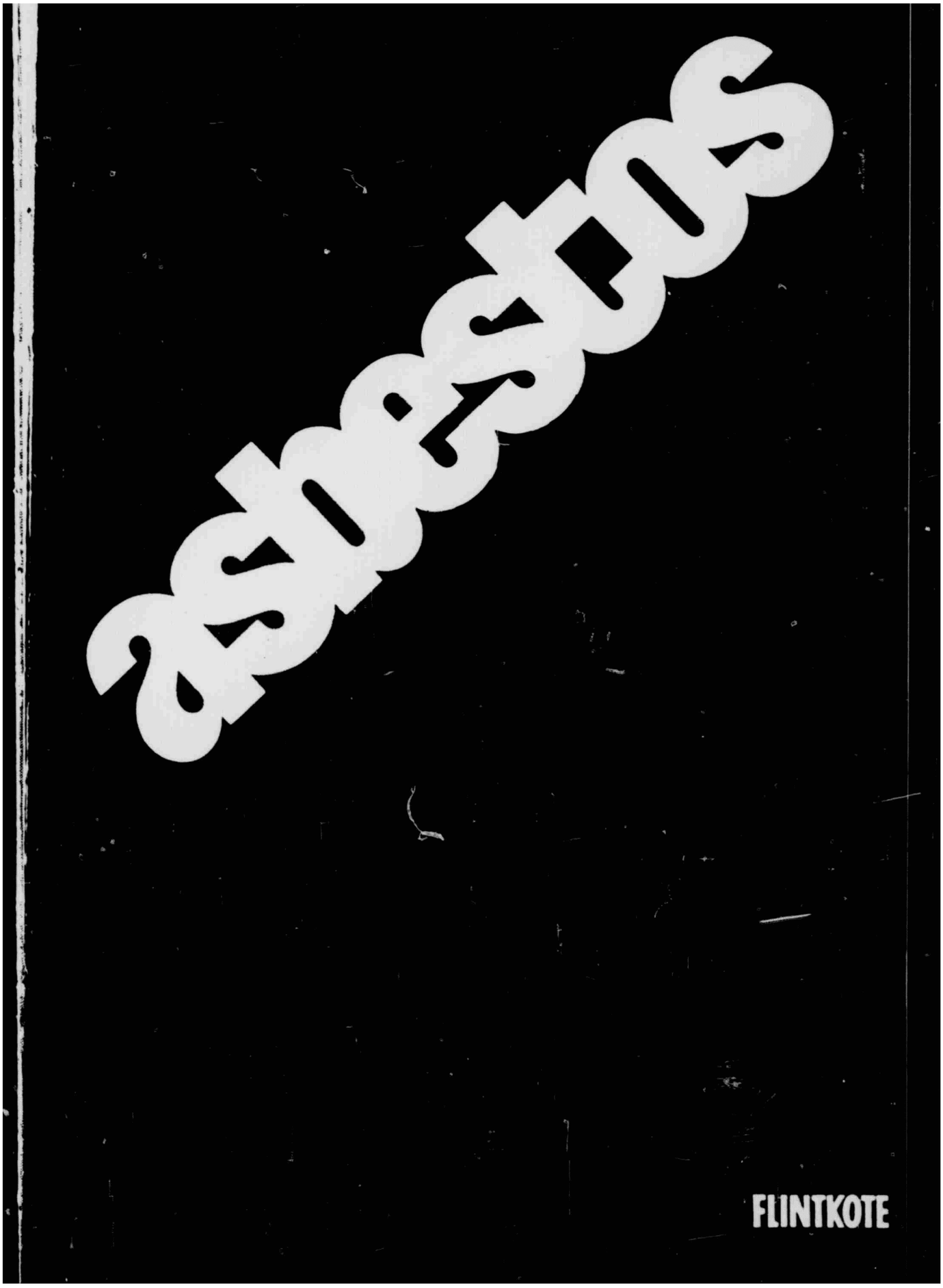
MILLING

Two of the existing three mills are situated at the Anna Quarry with the third mill near the New Quarry.

A new mill is at present being erected south of the orebody to replace all the existing mills which are old and inefficient. This mill will be commissioned in July, 1969.

NATIONAL GYPSUM COMPANY terminated its previously announced plan (see page 14, October 1968 ASBESTOS) to acquire *Ervin Industries, Inc.* Joint studies made by the two companies led to a mutual conclusion to

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R/M Asbestos Cloth in Saturn IB Booster Vehicle

When the Apollo 7 spacecraft was launched from NASA's Cape Kennedy pad on October 11, 1968, asbestos metallic cloth played a key role in shielding vital equipment on the Saturn IB booster vehicle. In various forms, the cloth served as a heat barrier against return flow of 2000°F gases between and around Saturn's eight engines and as insulation for electric cable against zero degree cold adjacent to the conduit for liquid oxygen. This material has proven successful in 15 Saturn flights.

The booster is 21½ feet in diameter and 80 feet high and is powered by a cluster of eight H-1 engines providing a total thrust of 1.6-million pounds. The two-stage Saturn IB vehicle, which stands 224 feet high, was also used in the early stages of the Apollo program to test spacecraft systems and train astronauts.

In the insulation around the engines, the thrust chambers, chamber rings, heat exchanger and exhaust duct (aspirator) as well as the joint between the heat exchanger and the aspirator are protected by Inconel wire-inserted, aluminized asbestos cloth. Manufactured and marketed by *Raybestos-Manhattan, Inc.*, the cloth (Style #10M351) in this application is laminated with an aluminized film and fabricated into heat shields which are assembled on the engines and engine parts.

There are four layers of AAA-grade asbestos metallic cloth in the heat shield construction—each layer, .070-inch thick. Each layer provides protection against temperatures up to 1000°F.

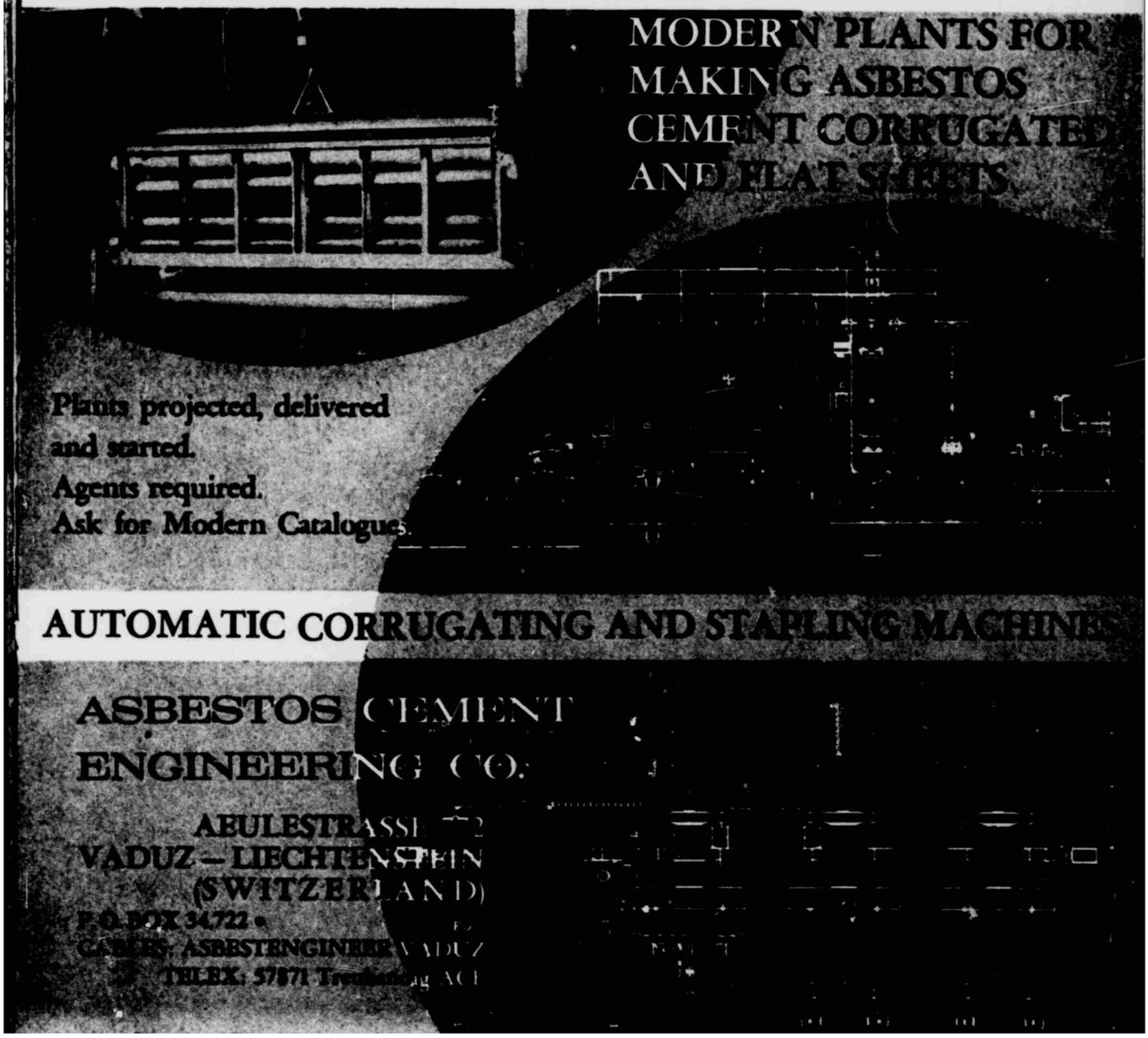
The heat shields on the reinforcing rings of the thrust chamber are of AAA grade asbestos cloth of the same metallic-reinforced construction. The cloth is in a single layer, .070-inch thick, and provides protection against temperatures up to 1750°F. The heat shields on the rings lie beneath the shields on the thrust chambers so that all components have full protection against return flow of gases ranging between 1500°F and 2000°F in temperature and reaching velocities of 300 to 500 feet per second during blastoff.

In other applications, the same asbestos metallic cloth is used as a flame shield insulating batt between inboard engines, as a seal between the flame shield back-up structure and the engine retaining band, as a sheath around the engine retaining

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ASBESTOS CEMENT ENGINEERING CO.



band (including an asbestos strip filler), and as insulation for the heat shield beams.

Fabrication of the individual shields and seals involves precision layout and cutting of the cloth to achieve the desired configurations and stitching, where required, is done with asbestos yarn reinforced with Inconel wire.

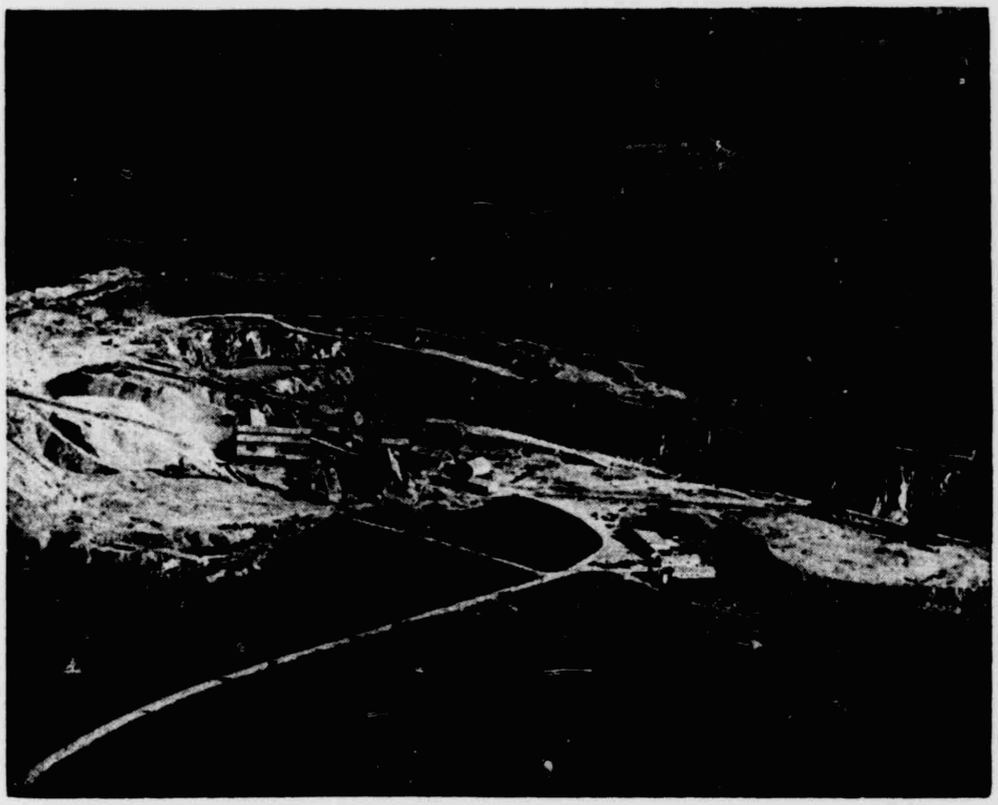
It is interesting to note that, on the heat shield beam, the asbestos is in the form of a tape, 1/8-inch thick by 3 inches wide, with a pressure-sensitive adhesive on one side. Use of this type material permits fact, one-man installation of the insulation on these beams which support the heat shield panels of steel covered with a 1/4-inch thick layer of a ceramic material. After test firings, during which the tape is subjected to temperatures up to 1500°F, the adhesive retains its cohesion and the tape need not be replaced during post-test refitting.

While the total weight of asbestos products used is quite small compared to the weight of the complete booster, they perform functions of the utmost importance to successful operation of the entire system-functions that cannot be performed by any other natural or man-made synthetic materials.

NICOLET INDUSTRIES, INC. has consolidated its administrative, marketing and research groups in a new and modern building at its main plant location in Ambler, Pennsylvania. The move from Florham Park, New Jersey, will result in more effective coordination between the marketing and production functions. In addition to the Ambler plant, Nicolet has substantial manufacturing facilities in Norristown, Pennsylvania; Hamilton, Ohio; and Hollister, California. The company also operates an asbestos mine in Warwick, Quebec, Canada, and maintains sales offices in major United States marketing areas and an international sales office in New York City. Nicolet manufactures commercial and specialty grades of asbestos paper and millboard, compressed asbestos, gasketing and asbestos-cement board and these products are used extensively in the industrial, commercial and residential construction industries.

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A.T.I. General Meeting

The Asbestos Textile Institute held its third General Meeting of this year from October 2-4, 1968, at the Hotel Hershey, in Hershey, Pennsylvania.

The Institute sponsored an Environmental Health Seminar which was held on October 2. The program was arranged by C. L. Sheckler, Manager of Occupational Environmental Control for Johns-Manville Corporation, and featured Dr. George W. Wright of St. Lukes Hospital, Cleveland, Ohio, and Dr. Lewis J. Cralley of the U. S. Public Health Service. Both of these gentlemen are known internationally for endeavors in their respective fields. Also appearing on the program were: J. L. Rainey, Vice President of American Asbestos Textile Corporation; W. P. Raines, Director of Public Relations for Johns-Manville Corporation; and E. M. Fenner, Director of Environmental Control for J-M.

The Technical Committee of the Institute held a joint meeting with Subcommittee A-4 of ASTM Committee D-13, of which P. O. Nicodemus is Chairman. These two committees have achieved a substantial degree of progress and will continue in their work of revising the ASTM specifications for asbestos textiles.

The four working committees of ATI also met and detailed reports of their efforts were presented by the respective Chairmen.

M. P. Carson, Vice President—Sales of Asbestos Corporation Limited, reported on the present situation in respect to supply of asbestos fibers, comparative production figures in Canada vs. last year, and conditions in world markets for asbestos fiber.

The guest speaker at the General Meeting on October 4 was Dr. A. G. Matamoros, Chief Economist for Armstrong Cork Company, who talked on "Business Prospects and Problems in the Year Ahead." This presentation was both interesting and informative and elicited very favorable comments from all who were privileged to hear it.

Miss Edith E. Cox, who retired earlier this year as Editor and Publisher of ASBESTOS, was "Guest-of-Honor" at the General Meeting. Tribute was given Miss Cox for her fifty years of service to the Asbestos Industry through the

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President of the Institute, J. L. Rainey, announced that the Board of Governors had elected the following officers to serve ATI for the ensuing year: President, E. A. Schuman of Johns-Manville Coproration; Vice President, R. P. Clark of Uniroyal, Inc.; and Treasurer, M. Q. Scowcroft of Raybestos-Manhattan, Inc. Continuing as Chairmen of committees will be: H. H. Walter, Air Hygiene & Manufacturing; M. Q. Scowcroft, Sales Promotion; J. W. Hawkins, Technical; and G. F. A. Brink, Fiber Testing. H. L. Sunbury will continue as Executive Secretary.

In appreciation of his outstanding leadership of the Institute during the past two years, retiring President, J. L. Rainey, was presented with an Atmos Clock at a luncheon following the General Meeting.

THE NEXT GENERAL MEETING of the Institute will be held at the Grand Hotel, Point Clear, Alabama, February 6-7, 1969.

LT. COL. JAMES GORDON ROSS, of Amiante Lodge, Seigniory Club, Montebello, Quebec, Canada, passed away in Hawksbury, Ontario, on September 21, 1968, at the age of 90 years.

Colonel Ross, a graduate in Engineering from McGill University, was first associated with the Asbestos Industry in the 1920's when he joined the firm of Milton Hersey, Consulting Engineers in Montreal. In 1929 he joined Asbestos Corporation Limited and shortly thereafter became General Manager. It was under his direction that the underground mining system of block caving was first introduced to asbestos mining at the King Mine of Asbestos Corporation which proved to be the turning point in the growth of the company. He became a Director of the company in 1939 and retired in 1944 but remained as a Director until 1965. He then became an Honorary Director, the position he held at the time of his death.

Colonel Ross was one of the leaders in the establishment of the Quebec Standard Classification of asbestos fibers from which arose the Quebec Asbestos Mining Association. He was recognized as one of the world's leading authorities on asbestos mining and the material itself.

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You may get a rubber stamp with your next Bauer Hurricane Pulverizer-Classifier

This is a customer's idea. Ordering his third Hurricane was practically a rubber stamp routine, he said, because of the excellent record established by his first two units. As most of the more than 100 Hurricanes now in use represent repeat orders, other customers apparently agree with his logic. Nearly 70 of these air attrition mills are processing nonmetallic minerals. One major asbestos producer now uses 21 units! Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. If you haven't ordered your first Hurricane yet, may we send you one . . . complete with rubber stamp for reordering? **The Bauer Bros. Co.**, Springfield, Ohio 45501, and Ontario, Canada.

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THE HISTORY OF BELL ASBESTOS MINES LTD. has been written by G. W. Smith, former President of the Bell Mine, and has just been published as a bound book. As well as a Foreword, Addendum and Appendices, this complete and detailed book contains chapters on Property, Discovery and Ownership, Mining, Milling, Transportation, The Relocations Project, Statistics and Flashes, and Atlas Asbestos Company.

Within the pages of this fascinating narrative the story of the Bell Mine is related, from its simple beginning to its substantial place in the modern Asbestos Industry. In the Foreword, Leigh W. Bladon writes that "local history has a way of passing by without being recognized. Both the color of the times and the lessons of experience fade into the obscurity of the past before being caught in detail and put in place in the march of time. Due to the continuity of management and personnel at the Bell Mine from its early days until the present time, it is possible to record factually the significant features of the past ninety years."

A limited number of copies of this History are available in either French or English and may be obtained by writing to Bell Asbestos Mines Ltd., P. O. Box 99, Thetford Mines, Quebec, Canada.

ANDREW STUART JOHNSON, President of Johnson's Asbestos Company and Johnson's Company Ltd., Thetford Mines, Quebec, Canada, passed away on July 30, 1968, at the age of 68. He had been Managing Director of Johnson's from 1926 until 1946 at which time he was elected President. He was also a Director and a Member of the Executive Committee of Asbestos Corporation Limited.

Mr. Johnson was very prominent in educational circles, both local and regional, and was a Member of the Corporation of Bishop's University for many years. In recognition of his valuable services, the University conferred upon him the Honorary Degree of Doctor of Civil Law in 1948.

Mr. Johnson was the son of A. S. Johnson, one of the founders of Johnson's Company and a pioneer in the as-

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CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

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MARKET CONDITIONS

General Business.

The slowdown in general business is continuing and prognosticators look for this situation to prevail well into the first half of 1969. While Gross National Product and many other indicators show some improvement each month, the *rate* of growth of the overall economy is well below that which is considered normal. Despite the surtax, consumer spending has held up well and businessmen are planning capital expenditures at an increasing rate. However, it is believed the full effect of the surtax on private incomes and spending will not be felt until next April when many taxpayers will be faced with a bill for taxes that were not withheld this year. Meanwhile the increases in social security withholdings seem to be absorbed by a decrease in savings rather than reduced spending.

Automakers are enjoying very good business and predictions are rife that 1969 will be a 9.5 million car year. Housing starts are off slightly but there are factors at work in this area which point toward very good business for homebuilders during the coming year. Our two most pressing problems are the war in Vietnam and the unrest of the "underprivileged" at home. The President-elect is faced with some extremely important decisions as to how to promptly and effectively start moving toward solutions to both these problems. His task will not be easy and his success will depend on the cooperation of all American citizens regardless of race, creed or political party affiliation.

Asbestos Fiber.

Canadian producer shipments of asbestos fiber in 1967 totaled 1,443,011 tons, a decrease of 36,300 tons from the 1966 figure. For the first eight months of 1968, shipments exceeded those for the same period in 1967 by 43,500 tons.

Canada continues as the largest exporter of asbestos fiber and the United States is its largest market. Russian production now exceeds that of Canada by approximately 400,000 tons

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annually but Russian exports remain at about 275,000 tons per year.

The greatest volume of fiber in Groups 4, 5 and 6 is consumed in asbestos-cement pipe and building materials. In most countries of the world, the growth in this segment of the industry has been spectacular. The greater portion of Russian production is, in fact, consumed in these products.

The outlook for the asbestos-cement industry is for continued growth. However, growth in the United States, Australia and Canada and in the more mature countries of Western Europe will be at a lower rate than in the past whereas in most other countries it should continue at a high rate.

In general, the future outlook for asbestos fiber sales is good. The increase in demand has slowed in such countries as the United Kingdom and Western Europe due to a reduction in the level of economic expansion but the rate of demand is estimated to remain about the same in the United States, Australia and Canada and is expected to expand in the so-called under-developed countries of the world.

Producers and Exporters

of

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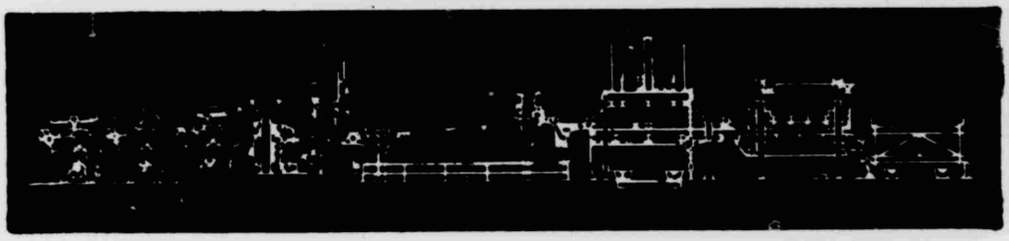
also in U.S.A., Japan and Far East.

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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



More than 50 asbestos-cement plants all over the world are successfully producing:

pressure pipes

socket pipes

flat sheets

corrugated sheets

shingles **on machines of**

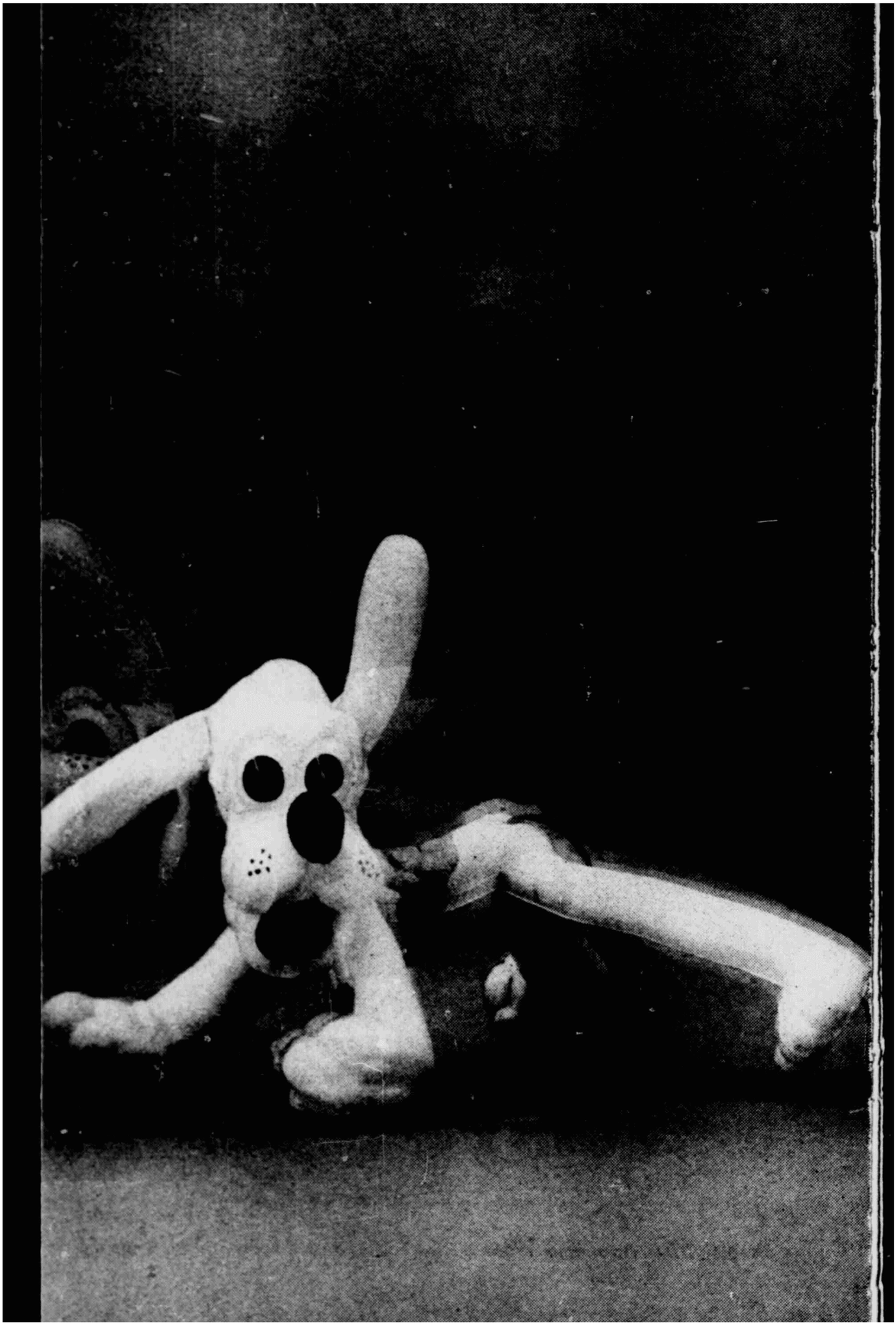
WEHRHAHN

for your asbestos-cement project you are invited to contact:

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Linoleumstr. 3 / P. O. Box 209
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Automobile Sales

AUGUST 1968 motor vehicle factory sales from plants in the *United States* totaled 292,125 (passenger cars—193,099, trucks and buses—99,026). The total for August 1967 was 324,218.

Motor vehicle factory sales from plants in *Canada* totaled 31,768 in August 1968 compared to 43,228 in August 1967.

COMMERCIAL ACCEPTANCE CORPORATION, a real estate developer which is 63% owned by *Certain-teed Products Corporation,* has agreed to acquire VENCEDOR DEVELOPMENT CORPORATION, San Juan, Puerto Rico. The acquisition has been approved by the directors of Commercial Acceptance but is subject to certain favorable tax rulings. Vencedor is a closely held company engaged in real estate development in suburban San Juan and, through a subsidiary, manufactures asbestos-cement pipe and asbestos and concrete structural components.

ROLAND DUGRE, outgoing President of the Quebec Chamber of Commerce, was presented with a plaque by the Quebec Natural Resources Minister, the Hon. Paul Allard, on behalf of the Quebec Metal Mining and Quebec Asbestos Mining Associations. Awarded for the first time this year, the plaque acknowledges Mr. Dugre's efforts toward making the social and economic importance of the Quebec mining industry better understood by the people of Quebec. Mr. Dugre is a Professional Engineer with Canadian Johns-Manville Company Limited.

" Tropag "

Hamburg —:— Ballindamm 6

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ASARCO EXHIBIT—American Smelting and Refining Company's capabilities in the production and packaging of zinc dust, and various applications for asbestos fibers used in the manufacture of protective coatings were spotlighted at the 33rd Annual Paint Industries' Show held in the Coliseum, New York City, October 23-25, 1968. Special water-proof, vapor-proof polyethylene pressure packaging for asbestos fibers was displayed. These asbestos fibers are produced by ASARCO's subsidiary, Lake Asbestos of Quebec Ltd., and are used in the manufacture of asphalt-asbestos roof coatings, automotive underbody coatings and various specialized surfacing systems.

PACIFIC ASBESTOS LIMITED'S shareholders have approved a rights offering which will assure the company of over $1-million to complete a program of further exploration and development work on its asbestos properties in Barraba, New South Wales, Australia. This work will consist of diamond drilling and bulk sampling to obtain final confirmation of tonnage and grade of fibers. If development of the property appears feasible, it is estimated that approximately $12-million will be required to commence production.

NATIONAL GYPSUM COMPANY controls air pollution at its plant in York, Pennsylvania, by utilizing an abandoned mine beneath a quarry as a dust receptacle to supplement existing air cleaning facilities. The plan calls for piping the "washed" air from the existing control system through openings cut vertically through the rock into the massive underground chamber. The dust is trapped therein by reduction of air velocity. This method has been approved by the Pennsylvania Department of Health.

"JOHNS-MANVILLE THROUGHOUT THE WORLD" is a new and beautifully illustrated booklet just published by *Johns-Manville Corporation*. It acquaints the reader with J-M's history, its mining, manufacturing, research and marketing organization and with the quality products the company offers its customers throughout the world.

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or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting fibres of the correct length and with the proper degree of openness for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. For more information or test samples, write to: Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

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Sydney

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Atlanta Bauer & Co.
Bremen, W. Germany

BELGIUM
Keyser & Mackay
Brussels

EGYPT
Textile
Improvements Ltd.
Guildford, England

ENGLAND
Textile
Improvements Ltd.
Guildford

FRANCE
Dieppedalle &
Séailles
Paris

W. GERMANY
Atlanta Bauer & Co.
Bremen

GREECE
Textile
Improvements Ltd.
Guildford, England

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LAKE ASBESTOS

ASARCO

ASARCO INTERNATIONAL CORPORATION
a subsidiary of American Smelting and Refining Company

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Building

From: McGraw-Hill Information Systems Company

SEPTEMBER 1968 showed $5,169,878,000 as the total value of contracts for new construction, 7% above last year.

Residential building reached $2,124,999,000, a 13% advance over last September. The key factor in this strong showing was a 54% gain in apartment projects.

Nonresidential building contracts, at $1,814,751,000, were valued 2% above last year. Manufacturing building showed a gain of 35%, commercial building contracts held steady and contracts for educational projects declined moderately.

Nonbuilding construction contracts totaled $1,230,128,000, 5% over September 1967. Only one category—electric utilities—showed any significant gain. Contracts for new generating facilities outweighed declines in highway construction and other public works.

NINE MONTHS 1968—Nonresidential, $16,416,419,000, up 8%; Residential, $18,733,658,000, up 19%; Nonbuilding, $11,270,755,000, up 13%—Total Construction, $46,420,832,000, up 13%.

DODGE CONSTRUCTION OUTLOOK 1969—Strong housing gains in 1969 are expected to push next year's contract values for future construction to a record $65,000,000,000. Housing starts will number 1,650,000 units. A modest gain of 4% can be anticipated in total educational building contracts. The growth in outlays for hospital construction should climb to $2,225,000,000. The total 1969 value for all community facilities is estimated at $15,275,000,000.

ACTION ON URBAN CRISIS—Wallace F. Traendly, President of McGraw-Hill Information Systems Company, outlined a ten-point program to tackle the urban crisis before more than 500 construction industry executives gathered for the dinner session of the 30th annual Building Products Executives Conference. "It is my conviction," Mr. Traendly said, "that what we need is a centralized body that can function as the construction industry's action commission to coordinate, channel and intensify the industry's activity toward the rehabilitation of both the people and the housing of the urban ghettos."

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CJ-M TRANSITE PIPE—More than three miles of 12-inch Transite asbestos-cement pipe is being installed at the University of Toronto's $38.5-million medical research building now under construction. The Transite pipe is manufactured by *Canadian Johns-Manville Company Limited* and contains fiber produced at CJ-M's Jeffrey Mine. It will be used as the main piping in a complex fume-exhaust system in the University's medical center and will carry gases and other fumes, some of them toxic, from about 200 fume collectors in the center's 160 medical research laboratories. To prevent air pollution, the fumes and gases will be treated at a mechanical floor in the ten-story research building before being discharged to the outside atmosphere. According to a spokesman for the designers of the exhaust system, Transite pipe was selected as it is low in cost, has good flow characteristics and excellent resistance to corrosion, and is a poor conductor of heat thus cutting down on condensation. The pipe has been put to similar use in other university projects in Windsor, London and Hamilton, Ontario, Winnipeg and Montreal.

(Excerpted from September 1968 "Asbestos Producer")

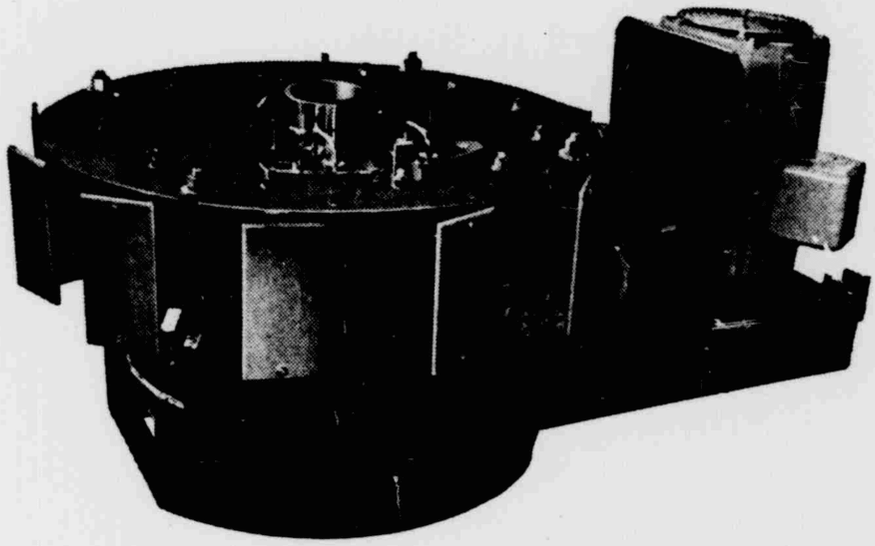
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Asbestos Magazine, 1968, November 1968
ACL Doc 12619 · Page 37 of 56
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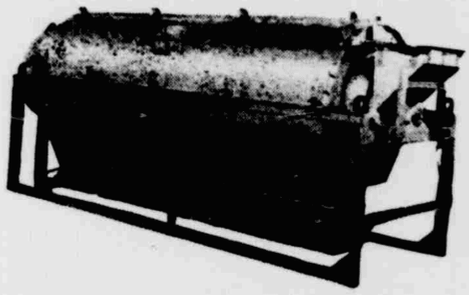
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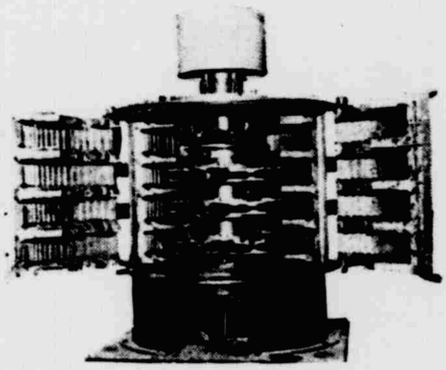
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- Rotary Aspirators
- Mechanical Separators
- Rotary Dryers
- Fibre Fluffers
- Quebec Standard Testing Machines
- Screens
- Pressure Packers
- Screw Graders
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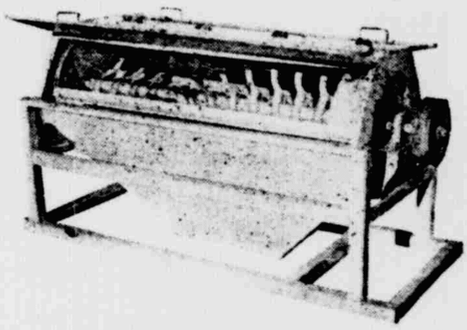
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IMPORTS & EXPORTS

Imports Into U.S.A.

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

Short Tons

Unmanufactured Asbestos:	JULY 1968	AUGUST 1968
Amosite, South Africa	738	1,850
Crocidolite (Blue), South Africa	1,054	1,372
Chrysotile, Crude, Canada	10	25
Finland	44	55
South Africa	161	915
Chrysotile, Spinning Fibers, Canada	1,024	1,527
Chrysotile, Other, Canada	42,648	53,015
South Africa	..	50
Asbestos, Other, Canada	1,085	1,467
Finland	385	160
France	30	..
Mozambique	..	75
Portugal	..	4
South Africa	30	150
	47,209	60,665

July 1968 valued at—$4,511,082

August 1968 valued at—$6,291,398

Manufactured Asbestos Goods:			JULY 1968
Asbestos Yarn, Slivers, etc.	Lb	99,192	$ 89,492
A-C Pipes, Tubes & Fittings	Lb	6,860,022	314,174
Asbestos-Cement Articles, Other	Lb	2,177,766	217,819
Asbestos Articles, Other		..	119,439
			$ 794,924

			AUGUST 1968
Asbestos Yarn, Slivers, etc.	Lb	154,054	$ 112,085
A-C Pipes, Tubes & Fittings	Lb	8,355,129	361,732
Asbestos-Cement Articles, Other	Lb	1,990,307	269,489
Asbestos Articles, Other		..	75,548
			$ 818,854

STANDCO ASBESTOS TEXTILE CO., INC.
ESTABLISHED 1912
Manufacturer of Cloth, Tape, Yarn and Brake Lining
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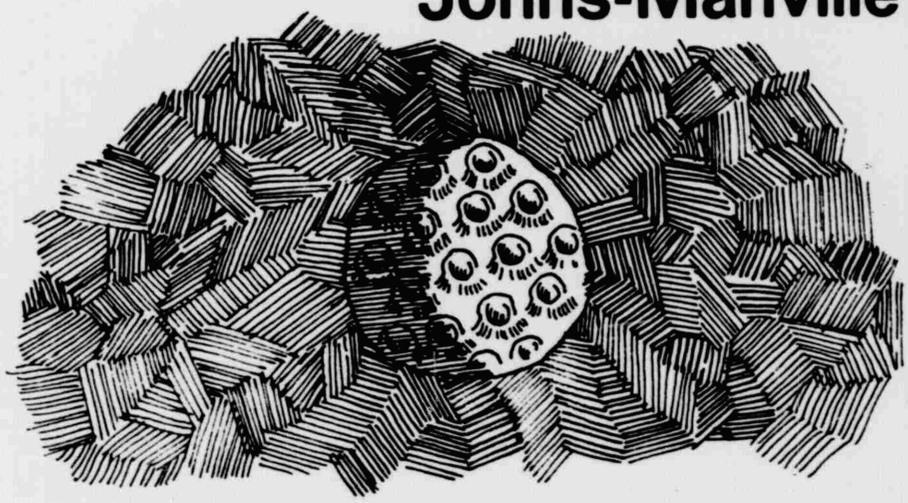
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

We have over 100 grades of asbestos. For just about any application imaginable. We'd like to show you what they can do for 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, New Jersey, U.S.A.

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Exports From U.S.A.

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

Unmanufactured Asbestos:			JULY 1968
Crude & Spinning Fibers	s.tons	78	$ 14,842
Non-Spinning Fibers	s.tons	1,860	254,239
Waste & Refuse	s.tons	2,177	192,824
		4,115	$ 461,905
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,806,343	$ 152,825
Other A-C Articles	Lb	801,124	128,908
Gaskets & Packing	Lb	362,773	456,005
Textiles & Yarns	Lb	1,332,036	260,786
Mfrs. other than Friction Materials		...	478,593
Clutch Facings & Linings for auto. use	No	121,695	104,833
Clutch Facings & Linings, Other	No	49,635	36,495
Brake Linings for automotive use	Lb	504,977	319,830
Brake Linings, Other	Lb	142,815	117,779
			$2,056,054



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Cashew Resins

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CUAUTITLAN, MEXICO GOSFORD, AUSTRALIA

Exports From Canada

(Published by Dominion Bureau of Statistics) **AUGUST 1968**

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	14	1,530	25,688	39,635
United Kingdom	..	364	4,835	3,356
South America	..	..	5,257	1,101
Central America & Mexico	..	40	2,649	883
Europe	..	1,891	14,150	9,164
Japan	3	276	2,447	5,640
Other Countries	..	..	4,790	2,330
	17	4,101	59,816	62,109

Total Unmanufactured Asbestos—126,043 Valued at $16,831,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 56,000
Asbestos-Cement Building Materials	83,000
Asbestos Basic Products, Other	41,000
	$180,000



Exporters of

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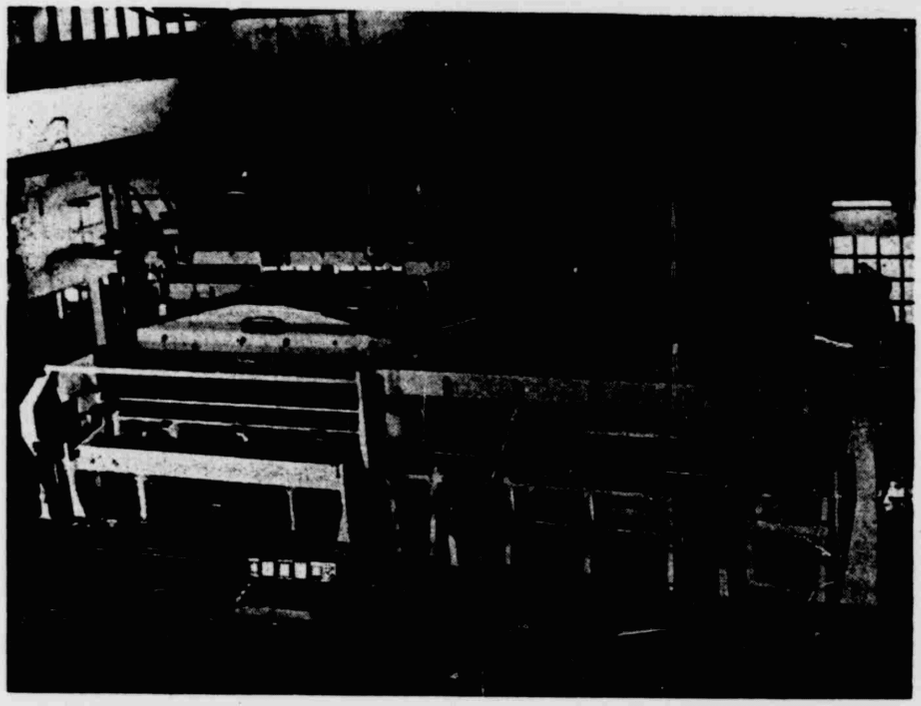
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CALZONI

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INDUSTRY NEWS

HAPPY BIRTHDAY

E. G. Robinson, Regional Manager, Asbestos Corporation (Explorations) Limited, Toronto, Ontario, Canada, November 15.

John Waddell, Chairman & Joint Managing Director, Turner Brothers Asbestos Company Limited, Rochdale, England, November 15.

J. J. Mangan, President & Managing Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 16.

R. V. Hanslip, Vice President, Standco Industries, Inc., Houston, Texas, November 17.

Thornton R. Smith, Controller, Johns-Manville Corporation, New York City, November 19.

Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.

J. J. Walsh, Vice President—Sales, Canadian Asbestos Company, St. Laurent, Montreal, Quebec, Canada, November 19.

F. A. H. Gallop, Vice President—Building Materials, Canadian Johns-Manville Co. Ltd., Port Credit, Ontario, Canada, November 20.

Thomas H. Dermody, Vice President-Finance, GAF Corporation, New York City, November 21.

H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Ambler, Pennsylvania, November 21.

J. A. D. Marcotte, Special Assistant to the President, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, November 22.

L. J. Knippa, Director of Manufacturing, Philip Carey Corporation, Cincinnati, Ohio, November 24.

Ernest J. O'Leary, Director & Vice President—Corporate Marketing, GAF Corporation, New York City, November 24.

William H. Parker, General Manager, Cold Storage & Wall Insulation Division, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 25.

Miles M. Wilson, Vice President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, November 28.

John G. (Jack) Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.

Susanne Servin, Manager, Advertising Services, GAF Corporation, New York City, December 1.

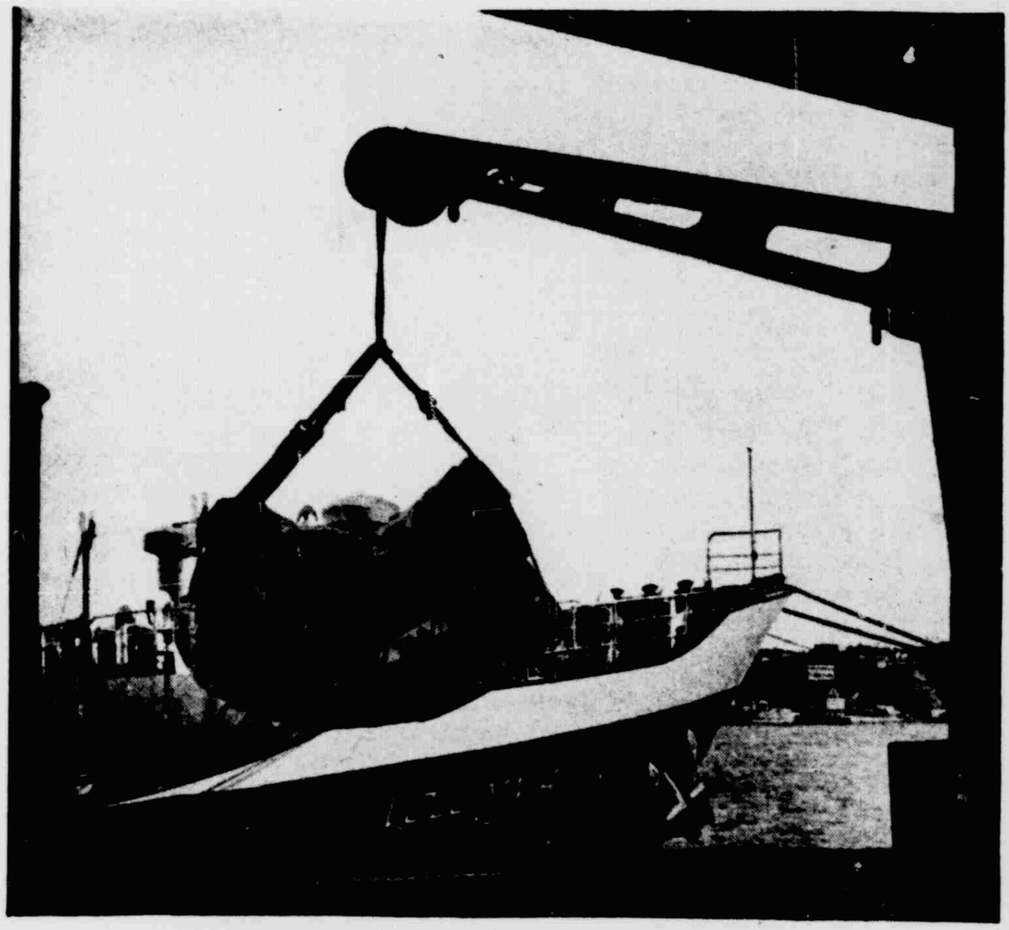
Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., Short Hills, New Jersey, December 2.

Edmund F. Gorton, General Manager, Asbestos Corporation of America, Garwood, New Jersey, December 3.

K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.

J. V. Jones, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, December 4.

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George H. Martens, Jr., Vice President for Marketing, Johns-Manville Corporation, New York City, December 5.
J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.
James A. Main, Vice President, Flintkote Mines Limited, New York City, December 14.

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

Edok S.A.-Eter S.A., Athens, Greece, has established a new $2.5-million asbestos-cement plant at Patras. The Amiantit plant is now producing sanitary pipes and is expected to begin manufacturing pressure pipes and sheets by next July. Due to this new plant, it is anticipated that Greek asbestos consumption will increase to 7,000-8,000 tons per year. During 1967, Greece imported 2,578 tons of asbestos from Canada.

Hellenic Industrial Development Bank plans to reopen its asbestos mine near Kozani in northeastern Greece. The mine is expected to produce 600,000 tons per year of ore for processing and annual output is to be 25,000 tons of fiber. The Bank intends to establish a plant to treat the ore and both the mine and plant should be in operation by the end of 1970. The project, subject to receiving the required amount of foreign technical aid plus an investment of $6.65 million, will be operated by **Hellenic Asbestos Company S.A.**

Benson Mines Limited, Vancouver, British Columbia, has begun drilling on its asbestos property located 40 miles southeast of Timmins, Northern Ontario, Canada. Previous work on the property ,including some underground work, indicated substantial deposits of good quality asbestos; however, several zones are still to be tested. The purpose of this initial drilling program is to determine whether or not there is sufficient tonnage in the shaft area to support a mining operation.

Hedman Mines Limited expects to begin operating its asbestos mine in the Matheson area of Northern Ontario, Canada, by the end of this year. Following a successful period of pilot plant operations, the new plant is being brought to production within a cost of $2-million. The new plant will have an initial fiberizing capacity of 300 tons daily and an ore crushing capacity of 600 tons daily. Hedman's asbestos will be equivalent to Group 7 fiber which is used in paper, paving and plastics. Of the 3,215,500 pounds of asbestos produced by Hedman's pilot plant last year, some 33% went to the plastics industry. (The Northern Miner)

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ASBESTOS STOCK QUOTATIONS

Close—October 31, 1968

Abex	46	G-Alden (pfd 3.15)	106
Asarco	68½	G-Alden (pfd 3)	97
Armstrong Cork	77⅛	G-Alden (pfd 2.25)	53¾
Arm. Cork (pfd 3.75)	64⅞	Grace	48⅜
Asbestos Corp	22½	Gulf & Western	51
Bendix	44½	G&W (pfd 1.75)	160¼
Bendix (pfd 3)	71	G&W (pfd 3.50)	200
Carlisle	33	G&W (pfd 3.87)	84
Cassiar	*$16.00	G&W (pfd 5.75)	76⅛
Certain-teed	33½	Johns-Manville	74½
C-teed (pfd .90)	33⅝	Maremont	22¼
Conwest	*$9.05	National Gypsum	62⅜
Flintkote	32⅛	Natl Gypsum (pfd 4.50)	74⅛
F-kote (pfd-A 4.50)	94½	Patino	*$36.50
F-kote (pfd-B 2.25)	44	Raybestos	58⅞
GAF	30¼	Unarco	15⅜
GAF (pfd 1.20)	39⅜	Union Carbide	44
Garlock	23¼	Uniroyal	63⅛
Glen-Alden	13⅞	Uniroyal (pfd 8)	126¼

*Canadian currency

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HALL MACHINERY DIVISION

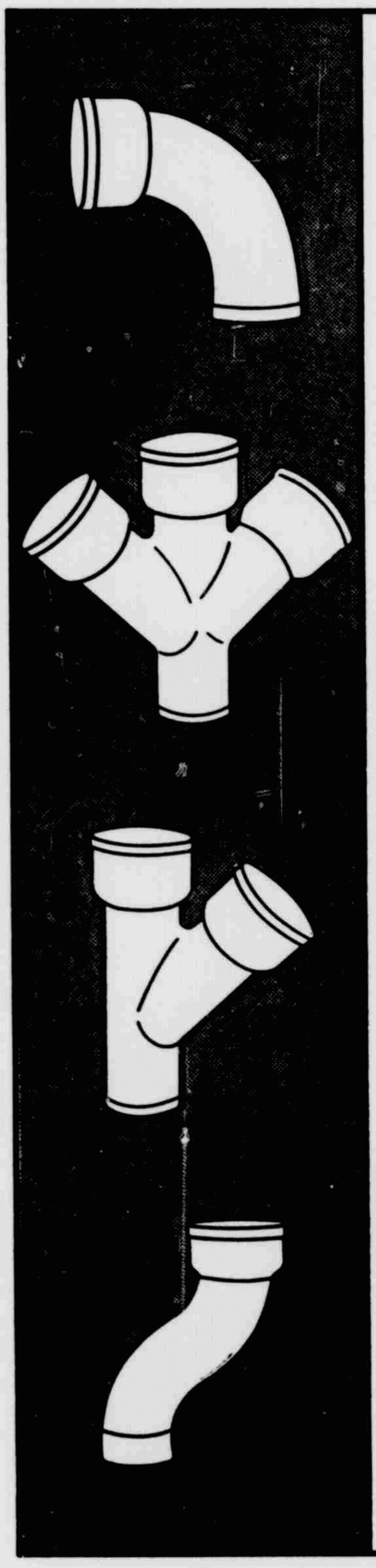
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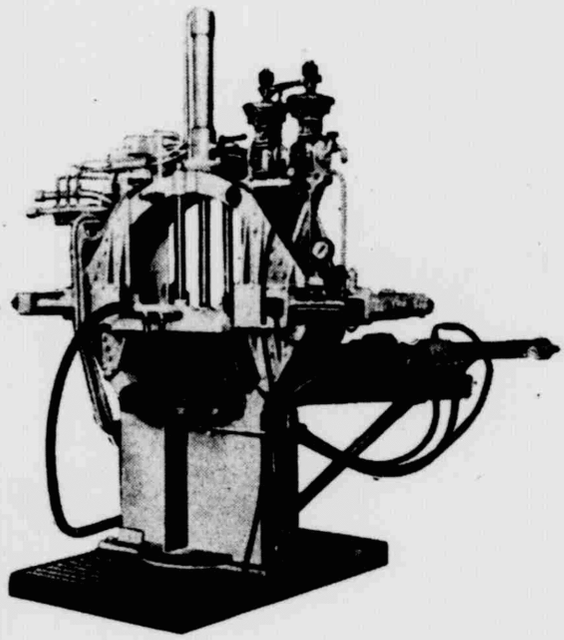
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ASBESTOS PRICES

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

(As of August 1, 1968) U. S. Dollars

No. 1 Crude	$1,410.00	to	$1,650.00
No. 2 Crude	700.00	to	950.00
AAA	..		800.00
Group No. 3 (non-ferrous filtering-plastic)	425.00	to	700.00
Group No. 4 (non-ferrous filtering-plastic)	400.00	to	500.00
Group No. 5 (non-ferrous filtering-plastic)	385.00	to	425.00
Group No. 6 (non-ferrous plastic)	..		250.00
Group No. 7 (white shorts)	65.00	to	90.00

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

(As of April 1, 1968) Canadian Currency

Crude No. 1	$	..	$1,410.00
Crude No. 2	..		760.00
Group No. 3 (spinning fiber)	367.00	to	600.00
Group No. 4 (shingle fiber)	201.00	to	341.00
Group No. 5 (paper fiber)	143.00	to	169.00
Group No. 6 (waste, stucco or plaster)	..	to	104.00
Group No. 7 (refuse or shorts)	45.00	to	87.00

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

(As of January 1, 1968) Canadian Currency

AAA grade (non-ferrous spinning fiber)	$ 810.00
AA grade (non-ferrous spinning fiber)	643.00
A grade (non-ferrous spinning—Canadian Group 3)	484.00
AC grade (asbestos-cement—Canadian Group 4)	345.00
AK grade (shingle fiber—Canadian Group 4)	241.00
CP grade (shingle fiber—Canadian Group 4)	220.00
AS grade (shingle fiber—Canadian Group 4)	200.00
CT grade (shingle fiber—Canadian Group 4)	195.00
AX grade (shingle fiber—Canadian Group 5)	177.00
CY grade (shingle fiber—Canadian Group 5)	126.00
AY grade (shingle fiber—Canadian Group 5)	126.00

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

(As of August 1, 1968) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 319.00	to	$ 342.00
Group No. 4 (shingle fiber)	186.00	to	296.00
Group No. 5 (paper fiber)	132.00	to	156.00
Group No. 6 (waste, stucco or plaster)	..		96.00
Group No. 7 (shorts & floats)	41.50	to	80.00
Group No. 8 (shorts)	..		26.50

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BUILT ON A ROCK

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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 August 13 through October 8, 1968.

3,402,054—Friction Material, F. Wood & E. Clark (assigned to Ferodo Limited, Manchester, England), September 17, 1968.

3,402,228—Methods For Preparing Molded Walls and Molded Walls Produced Thereby, R. L. Wood & H. O. Wood, September 17, 1968.

3,403,038—Asbestos-Phosphoric Acid Molding Composition, V. Abolins & R. M. Lukes (assigned to General Electric Company, Schenectady, New York), September 24, 1968.

3,405,028—Insulating and Refractory Composition and Elements For The Lining of Metal Casting Molds Incorporating Such Compositions, H. Nouveau (assigned to S.A.R.L. Doittau Produits Metallurgie, Corbeil-Essonnes, Seine-et-Oise, France), October 8, 1968.

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Act of October 23, 1962; Section 4369, Title 39, United States Code)

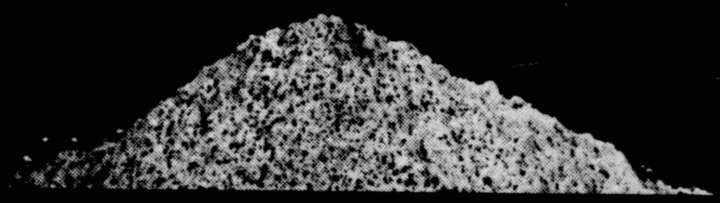
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9. Not Applicable.
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Actual Number of Copies of Single Issue Published Nearest to Filing Date—A. Total No. Copies Printed (Net Press Run), 1,500; B. Paid Circulation: 1. Not Applicable, 2. Mail Subscriptions, 1,045; C. Total Paid Circulation, 1,045; D. Free Distribution (including samples) By Mail, Carrier or Other Means, 230; E. Total Distribution (Sum of C and D), 1,275; F. Office Use, Left-Over, Unaccounted, Spoiled After Printing, 225; G. Total (Sum of E & F—should equal net press run shown in A), 1,500.

I certify that the statements made by me above are correct and complete.

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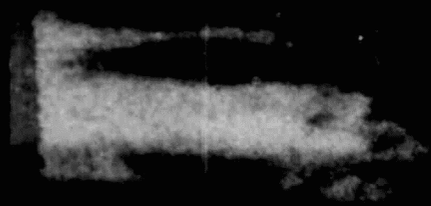
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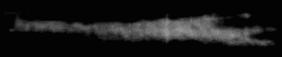
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