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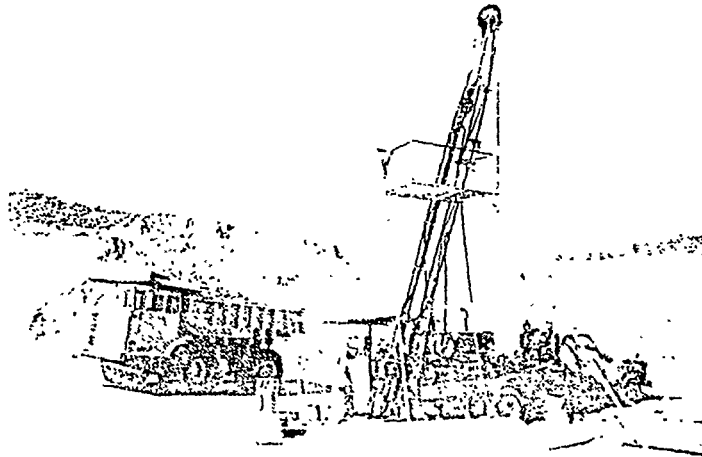
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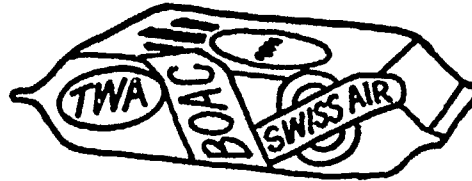
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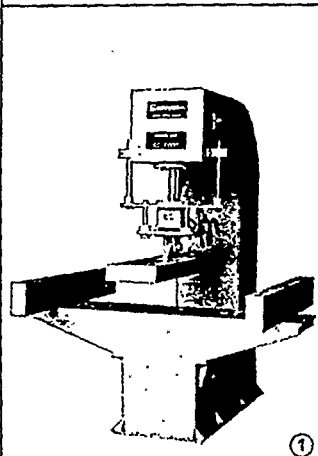
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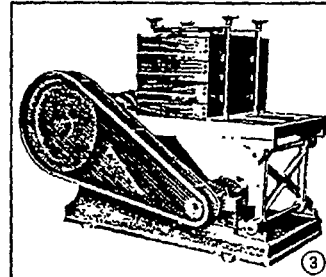
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ASBESTOS

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CONTENTS

THE GEOLOGY & MINING OPERATIONS	
AT PACIFIC ASBESTOS CORPORATION	4
CARL A. GNAM RETIRES	14
ASBESTOS PRODUCTS	16
MARKET CONDITIONS—	
GENERAL BUSINESS & ASBESTOS FIBER	18
GARLOCK HAPPENINGS	20
CONSTRUCTION NEWS	22
MOTOR VEHICLE FACTORY SALES	22
PRODUCTION—IMPORTS—EXPORTS	24
LATEST ASBESTOS PRICES	32
BIRTHDAY GREETINGS	38
BOOKS, ARTICLES & PAPERS	40
NOTES FROM 1971 ANNUAL REPORTS	42
ASBESTOS STOCK QUOTATIONS	44
MEN ON THE MOVE	46
NEW ASBESTOS PATENTS	48
CALENDAR OF EVENTS	52
REMEMBER WHEN?	54

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ASBESTOS—October 1972

Page 3

CAPCO JEN 0004594

THE GEOLOGY & MINING OPERATIONS AT PACIFIC ASBESTOS CORPORATION

By: G. W. Loney & E. E. Loeb

The ore body at Pacific Asbestos Corporation, Copperopolis, California, is rather unique in that it is one of only two major ore bodies in the United States capable of producing a full range of milled Chrysotile asbestos fibers in Groups 4 to 7. The following article contains portions of a comprehensive paper on the geology and mining operations at Pacific's asbestos property that was presented at the annual meeting of the American Institute of Mining Engineers, held in San Francisco, February 21-24, 1972. The concepts of the geology are preliminary in nature and are changing as new information becomes available. *George W. Loney* is Chief Geologist for H. K. Porter Company, Inc., and a Vice President and Director of Pacific Asbestos Corporation. *Eric E. Loeb* is Area Geologist for H. K. Porter Company, Inc., at Copperopolis.

The office and mining operations of Pacific Asbestos Corporation are located near Copperopolis, California, in the foothills of the Sierras about 50 miles east of Stockton. This is historic country in the heart of the old Mother Lode gold district. Mark Twain's famous story of the jumping frog is still commemorated at an annual contest in Calaveras County, and the camp at Poker Flats, described by Bret Harte, was only a few miles from the present asbestos mine. Joaquin Murrieta, the famous Mexican bandit, started his three-year reign of terror in this vicinity, and Black Bart, the Post Laureate of the stagecoach robbers, held up his first stage at Funk Hill, just 3 miles north of the mine.

In spite of its location and apparently prominent exposure, the first work on the asbestos deposit was not recorded until 1904. Development of the present operations was started in 1959 by Jefferson Lake Asbestos Corporation, a subsidiary of Jefferson Lake Sulphur Company. Management control of the firm changed hands several times and it was later reorganized under the name of Pacific Asbestos Corporation. In December 1968, a controlling interest was acquired by H. K. Porter Company, Inc.

Since the beginning of mining operations in 1962, 7¾

THE COVER

THE PHOTOGRAPH ON THE FRONT COVER WAS TAKEN AT THE OPEN PIT MINE SITE OF PACIFIC ASBESTOS CORPORATION AT COPPEROPOLIS, CALIFORNIA.

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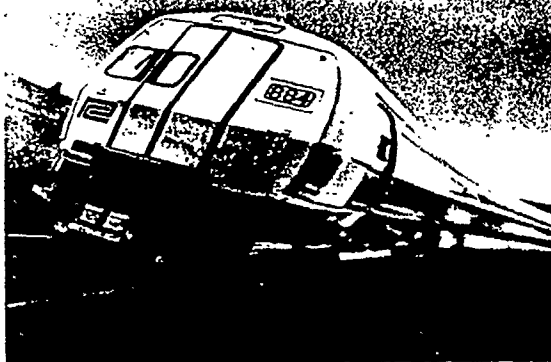
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million tons of ore and 15 million tons of waste have been removed from the open pit which now measures about 1400 x 1800 feet at its widest points. The lowest operating level is at an elevation of 696 feet about 350 feet below the original surface. The company markets an annual production of 30,000-35,000 tons of Chrysotile fiber in Groups 4 through 7, under the Mother Lode Brand.

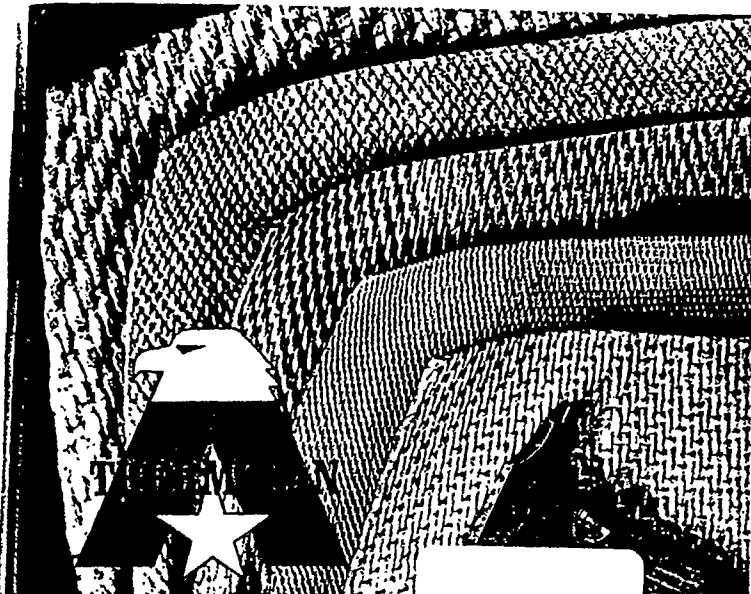
MINING OPERATIONS

The mining operation at Pacific Asbestos is carried out under contract with Porter Cargo, Inc., a wholly-owned subsidiary of H. K. Porter Company, Inc. Mining operations are normally on a five-day, one-shift basis. The essential mining equipment consists of two $4\frac{1}{2}$ yard Northwest shovels and two front-end loaders with 6-yard buckets. A fleet of nine International Harvester Payhauler trucks with 35-ton beds is used for hauling ore and waste. The average length of haul to the crusher is one mile and the steepest grade is about 10%. Shot holes are drilled with two $6\frac{1}{2}$ " Ingersoll Rand Drillmasters and shot with ammonium nitrate prills. Typical spacing of holes is 10 feet in ore and 12 feet in waste. Faces are shot an average of three times a week with about 15,000 tons in each shot. A number of working faces are maintained in each of several ore grades to provide a variety of materials for blending. The ore is sampled at the crusher and daily samples are accumulated and correlated with the mining location in the pit. The results are used to calculate the efficiency of the milling operation, to evaluate estimates of the ore grade and to determine the effectiveness of blending.

At present mining levels, an average of 3400 tons per day of ore and 4500 tons per day of waste are being removed from the pit to maintain a stripping ratio of 1.3. Eight-hundred and fifty-thousand tons of ore were mined in 1971. Ore reserves are considered sufficient for at least twelve years mining.

GEOLOGY

The ore body at Pacific Asbestos lies within a NW-SE trending belt of ultrabasic rock that has been mapped as a serpentinite of Upper Jurassic Age by the State of California, Department of Natural Resources. The trend of the ultrabasic parallels regional faulting in the district and the



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intrusive is bounded on the southwest by the Copperopolis fault over much of its length. It is a concordant intrusive and one interpretation shows it as a folded sill plunging to the northwest. At the mine, the ultrabasic is about two miles wide.

In the center of the ultrabasic area, the ore bodies occupy a zone about 2000 feet wide between two bands of antigorite schist. These schists are the most readily mappable unit in the vicinity of the mine and they mark the limit of any significant occurrence of Chrysotile fiber. Because of their schistosity and the alteration along them, it is believed they represent shear zones in the intrusive. Some shear fiber is found along the contact mostly in the southwest corner of the pit.

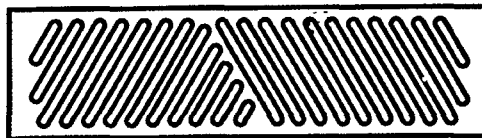
Three main rock types can be identified in the mine area: peridotite, a more highly altered rock that has been called dunite in field mapping, and gabbro porphyry dikes. The main host rock for the ore bodies is a massive, greenish-black peridotite consisting mostly of olivine crystals, some very coarse grained, that have been moderately altered to serpentine along fractures and grain boundaries. The significant feature of the peridotite is the quantity of unaltered olivine remaining. Pyroxenes are present in amounts ranging upward to 30% but averaging about 10%. In the limited number of thin-sections studied, there is a rough correlation between the percentage of pyroxene and the grade of the ore, with the best fiber zones in the pyroxene rich bands. The intrusive may be crudely layered with pyroxene rich and poor layers that influenced the development of the fiber. The alteration products of the peridotite include minor amounts of brucite, anthophyllite and talc. Around the margins of the ore body, the peridotite is transitional into the "dunite", which is now largely altered to serpentine. The dike rocks were emplaced in the later stage of the intrusion and cross-cut both peridotite and dunite.

Magnetite is a universal constituent of all the ultrabasic rocks. It appears within and along the margins of fiber veins and with serpentine along fractures and grain boundaries in olivine. Most of the magnetite is a by-product of serpentinization so that the more highly altered rocks are more magnetic and the ore-bearing peridotite occurs in an area of generally lower magnetic intensity.

Several interesting geologic features have been observed

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ASBESTOS—October 1972

Page 9

CAPCO JEN 0004600

in field mapping. One of them is a flow banding that is sometimes present in the ultrabasic rocks. Fiber veins cross-cut the flow banding with little or no displacement across the veins.

Another feature of interest is the alteration of peridotite to a light gray-green serpentinite adjacent to some of the fiber veins. The alteration provides a striking pattern and is taken as evidence that serpentinization occurred at a late stage contemporaneous with deposition of the fiber.

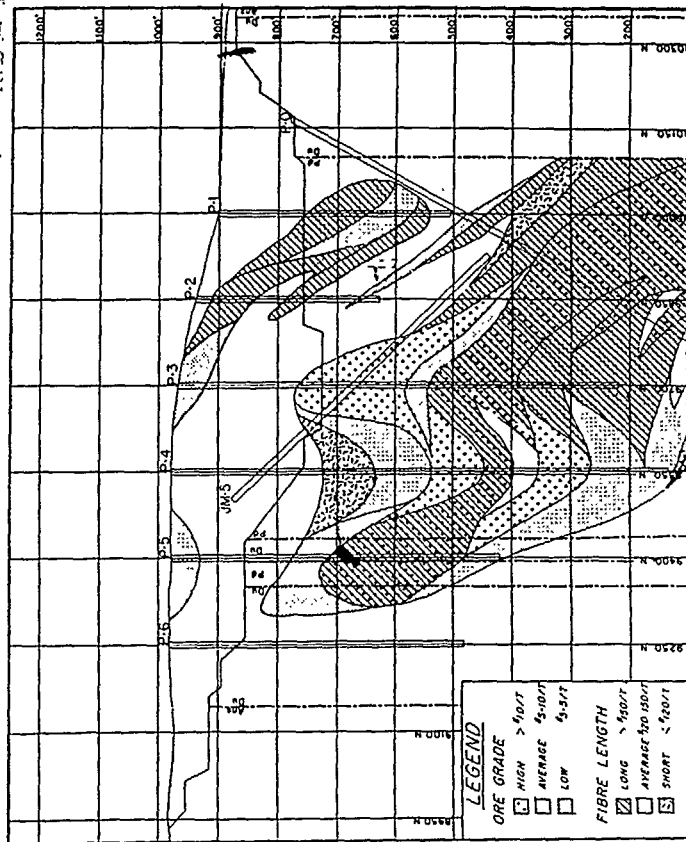
THE ORE BODIES

For mapping in the ore body, the fiber zones have been classified in nine ore types, determined from laboratory milling of drill core samples. The ore is considered to be high, average or low grade, according to its value of over \$10.00 per ton, \$5-\$10.00 per ton, or \$3-\$5.00 per ton. Ore being mined at present averages about \$7.00 per ton. It is also classified as long, average or short fiber, according to the indicated fiber value of over \$150.00 per ton, \$120-\$150.00 per ton, or less than \$120.00 per ton. The ore is entirely cross-fiber Chrysotile. There is no systematic arrangement of the veins which appear to be mostly randomly oriented.

Cross-section 10900E through the center of the ore body looking west is shown in Figure 1. At the top of the figure are the remnants of the upper ore body, now largely mined out on this section. The band of high grade, long fibered ore in the center of the lower ore body illustrates the continuity of ore types and the folded nature of the ore body. The section shows vertical contacts for the wall rocks, but regional dips are to the north, and the antigorite schist may form the footwall of the ore on the south.

The current concept of the ore body at Pacific Asbestos is of a poorly layered intrusive with erratic mineralization tending to favor pyroxene rich horizons and less serpentinitized portions of the body. The layering was probably irregular to start with and may have been complicated by folding resulting in a predominant plunge to the west on long sections and dips to the north on the north half of the ore body. Elsewhere, the dips are erratic. Ore bodies tend to be zoned with a high grade area in the center. The ore bodies are localized between two antigorite schists that probably represent zones of shearing. The "dunites" are highly serpentinitized.

Figure 1—Cross Section 10100E, Looking West



ized portions of the ultrabasic next to the schist and are relatively unfavorable for the occurrence of fiber. The most likely period for development of the fiber was in the closing phases of intrusion of the ultrabasic.

MINE SAMPLING & GRADE DISTRIBUTION

One of the primary objectives of the mining operation at Pacific Asbestos is to provide a uniform feed to the mill. In order to achieve this, working faces are maintained in several different ore grades. Mine heads are sampled every half hour and the samples are accumulated on a daily basis. Samples are processed in the core laboratory and results are available the following day so that adjustments can be made in the mining if necessary. The present objective is to maintain an average grade of 5.5% fiber on mine head samples.

In the core laboratory, a simplified procedure is used for processing samples, and Quebec Standard tests and Bauer-McNett tests are run on the fiber. The Bauer-McNett evaluation is generally 8% to 10% lower than that of the Quebec Standard test and gives a more realistic appraisal of the potential of the fiber.

MINE PLANNING

As part of the mining program, the Mine Superintendent submits a monthly mining plan which shows the areas to be mined and the estimated grade of the ore. The results are evaluated at the end of the period to determine how well the engineer followed his projected plan, the effectiveness of the blending, and errors in the geologic estimates of the ore grade.

COMPUTER PLANNING

As an aid to mine planning, Pacific Asbestos also has devised and is starting to utilize a computer program for the selection of an optimum mining sequence. For this purpose, the ore body is being catalogued in blocks of 2000 tons each. For each block the catalog gives the location, status, as available, fixed, or mined out, the grade in dollars per ton, percent of fiber, and classification as proven, probable or pos-

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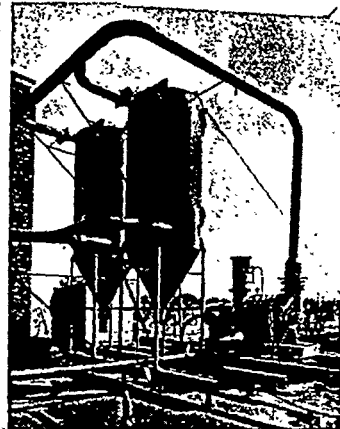
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sible ore. The computer treats the catalog as an inventory from which it is to select the blocks, in order to provide for minimum waste removal and uniform average grade. Optional printouts include lists of the blocks and a tabulation of proven, probable and possible ore, either in the inventory by levels or in order by suggested mining sequence. A supplementary program prints level maps showing either the inventory or the suggested sequence of development for selected levels and various bench heights. Options permit the fixing of any area for haul roads, dumps or installations.

[WE ARE INDEBTED TO THE AUTHORS AND MANAGEMENT OF PACIFIC ASBESTOS CORPORATION FOR PERMISSION TO EXCERPT THIS INTERESTING PAPER. ADDITIONAL INFORMATION IS AVAILABLE DIRECT FROM PACIFIC ASBESTOS CORPORATION, COPPEROPOLIS, CALIFORNIA 95228.]

CARL A. GNAM RETIRES

Carl A. Gnam retired July 1, 1972, as a Commodity Specialist for the Bureau of Domestic Commerce, U.S. Department of Commerce. A recognized authority on the subject of asbestos, Mr. Gnam had previously been a Mineral Economist with the Bureau of Mines and the War Production Board. He was born in 1902 in Carroll, Iowa, graduated from the University of Iowa with a major in economics and some geology and attended Geo. Washington University law school. He served as a Lt. Commander, U.S. Navy, during World War II and then spent a year in Europe for the Economic Cooperative Administration, making recommendations on U.S. loans to foreign mining projects. Mr. Gnam's plans for the future include a great deal of travel, both in the U.S. and in Europe.

Next Issue - -

R/M Novalex at Kennedy Center

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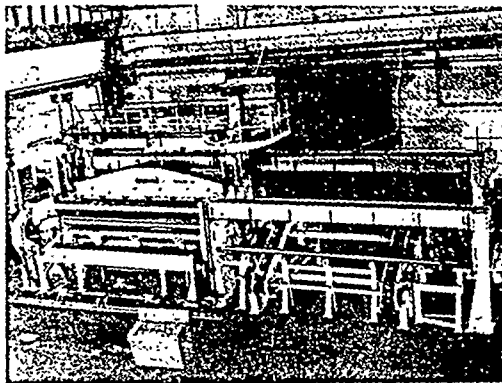
"Asbeston is its most diversified firefighting product," boasts Uniroyal Fiber & Textile. The asbestos fabrics and yarns are suitable for a variety of uses such as fire-smothering blankets, fireproof welder's curtains, firefighting garments and insulation for piping, duct work and turbine wrapping. Perhaps the most dramatic use for the fabrics began shortly after the tragic flash fire that claimed the lives of three astronauts. Uniroyal developed an asbestos material for the U.S. Space Program that is completely nonflammable in a 100% oxygen environment and NASA has used it in the stowage containers for astronauts' survival equipment on every space flight since Apollo 7. [Uniroyal World]

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The Raybestos Division of Raybestos-Manhattan, Inc., gave every driver who qualified for the 1972 "Indianapolis 500" a personalized race car cockpit canopy for his crew to use to shade the driver's seat from blistering sun. The material covering the canopies is Silvabestos, an aluminum-resin coated asbestos cloth manufactured by R/M's Asbestos Textile Division.

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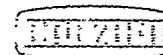


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ASBESTOS—October 1972

Page 17

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MARKET CONDITIONS

GENERAL BUSINESS

General business still shows signs of improvement but the rate of growth of the economy, or whether there is any growth at all, seems to depend on who is interpreting the statistics. While this is to be expected as the political campaigns warm up, it does seem that, more often than usual, government and private sector statistics have been subject to revision months after their publication.

While the stock market made an attempt at the traditional mid-summer rally, the upward move was not nearly so great as some analysts had expected and prices have settled back into a narrow, relatively low trading range. Political uncertainties can be blamed for much of the current lack of investors' confidence in the future of the market. While most public opinion polls show an almost overwhelming lead for the Republican ticket at this time, it is interesting to note that some qualified observers are now hedging a bit, pointing out that this is the sort of lead which could evaporate very quickly under certain conditions. As noted in our comments in the September issue, it is quite conceivable that the contest could go right down to the wire before the winners are decided.

On the international scene the deal involving sale of some \$1 billion of U.S. grain to Russia is a most interesting development. The attendance of a large group of top-level Russians at the recent International Machine Tool Show has led to much speculation as to whether similar deals involving large dollar values of machine tools may also be in the offing. The effect of such transactions on such a large scale could substantially alter the unfavorable U.S. balance of trade situation.

ASBESTOS FIBER

For the first seven months of 1972, shipments of asbestos from Canadian producers were slightly ahead of the levels

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OUR 25TH YEAR

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Page 19

CAPCO JEN 0004610

established for the same period in 1971.

Significantly, the demand for the shorter grades of fiber, principally Group 7, continues to be very strong in the United States and Canada. This demand reflects the general improvement in the economic climates of both countries, but specifically it corresponds to the high level of construction and automotive production. In particular, the sheet flooring market has remained at a high level this year and this activity is forecast to continue at an increasing pace.

Shipments of asbestos fiber to customers in areas of the world outside Canada and the U.S. continue to be at lower levels than in 1971, reflecting not only a lower level of economic activity in the United Kingdom, Europe and Japan but also the numerous disruptions of normal activities that resulted from labor strife. In addition, the lengthy work stoppage at the St. Lawrence River ports in June and July served to disrupt the normal flow of asbestos shipments that were scheduled for delivery to foreign countries.

GARLOCK HAPPENINGS

Garlock Inc., Rochester, New York, has agreed in principle to acquire Service Spring Company, Indianapolis, Indiana, a maker of truck leaf springs and related products. . . . Garlock announced the formation of the new Coatings Division and the opening of the Division's first production facility at Austin, Texas, for the mixing and packaging of a nylon-based liquid coating. The new facility has been established in a leased plant, following the purchase from the Texas State Bank of Austin of certain assets consisting of formulas, machinery and inventory formerly owned by Pace International, a subsidiary of KDI Corporation. Certain specialty chemical and coating products, now administered by Garlock's Mechanical Rubber Division, will be added to the output of the new plant. G. Parry Wiess is Vice President of the Mechanical Products Group, which includes the Coatings Division. Roland Avery, previously with Voplex Corporation, is General Manager of the Coatings Division. Alfred F. Daech, former Pace President, is Manager of the new facility at Austin.

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CONSTRUCTION NEWS

AUGUST 1972—A surge of new homebuilding backed by a solid gain in nonresidential construction sent the Dodge Index of construction contract value to a new peak of 180. The value of contracts for future construction totaled \$8,875,098,000 and topped the value recorded for August 1971 by 16%. Starting from a low of 110 in May 1970 when the credit crisis was at its worst, the recovery and growth of the Dodge Index to its current peak amounts to a gain of over 60%; a remarkable average of more than 2% per month for a period covering 28 months.

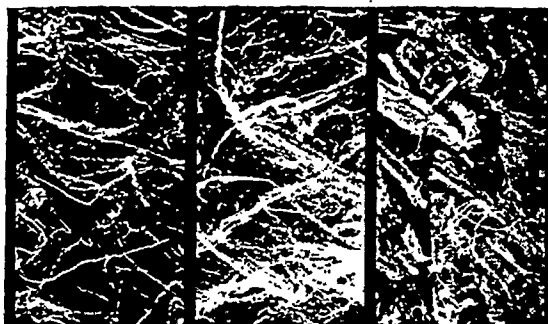
Residential contract value amounted to \$4,671,116,000, a 45% increase over the same month a year ago. Both single-family homes and apartments scored large gains and all four regions of the U.S. shared in the advance. . . . *Non-residential* building contract value jumped ahead 18% with \$2,458,255,000 of new work reported. With the exception of educational buildings, all of the key nonresidential categories were sharply ahead of the depressed year-ago values. . . . *Nonbuilding* construction contracts, valued at \$1,745,727,000, were down 25% from the year-ago month. Most of the drop was concentrated in electric generating plants, resulting from disputes over environmental impacts.

Cumulative construction contract value for the first eight months of 1972 totaled \$61,512,723,000; Residential, \$30,235,924,000; up 34%; Nonresidential, \$18,042,316,000, up 5%; Nonbuilding, \$13,234,483,000, down 8%. The eight-month total was 13% ahead of the same period in 1971. [F. W. Dodge Div., McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

JULY 1972 motor vehicle sales from plants in the *United States* totaled 531,662 (passenger cars—411,925; trucks and buses—119,737). The cumulative total for the First Seven Months of 1972 was 6,510,498 compared with 6,309,110 for the same period in 1971.

Motor vehicle factory sales from plants in *Canada* totaled 71,346 in July 1972. The cumulative total for January-July 1972 was 876,708 against 799,211 for the like 1971 period. [Automobile Manufacturers Association]



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Jensen-Souders Assoc., Inc.—Chicago
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Baker & Collinson, Inc.—Detroit
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NEW YORK
D. H. Litter Co., Inc.—New York

OHIO
The A. C. Mueller Co.—Cleveland
PENNSYLVANIA
Van Horn, Metz & Co., Inc.—Conshohocken
CANADA
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Federated Genco Ltd.—Toronto
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LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company

PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets for the nine-month period July 1971-March 1972 totaled 30,367,000 square yards, compared with 29,504,000 square yards during the same nine months of the previous year. [Commonwealth Bureau of Census and Statistics, Canberra]

Canada—Producers' shipments of asbestos during July 1972 totaled 133,896 short tons (100,819 tons from plants in Quebec and 33,077 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for July 1971 was 132,365 tons . . . The cumulative total of producers' shipments for the First Seven Months of 1972 was 928,676 tons (744,093 tons from Quebec plants and 184,583 tons from plants in the other four Provinces). The total for the same period in 1971 was 892,864 tons. [Statistics Canada, Ottawa]

Canada—For the First Six Months of 1972, shipments of woven and/or needled wet felts and jackets amounted to 848,310 pounds valued at \$7,899,206 to Canadian papermills and 472,082 pounds valued at \$3,096,670 to foreign papermills. Shipments to Canadian papermills of woven and/or needled felts used in asbestos-cement pipe or sheet-forming operations totaled 11,933 pounds valued at \$75,209. [Statistics Canada, Ottawa]

Finland—Production of asbestos in Finland for the Year 1971 totaled 10,360 metric tons. The comparative figure for 1970 was 13,625 tons. [Mineral Trade Notes, U.S. Bureau of Mines]

World—Preliminary data indicates world asbestos production for the Year 1971 totaled 3,581,102 metric tons, an increase in output of 95,106 tons over that of 1970. Canada, the USSR and the Republic of South Africa continued to be the major producers. Preliminary production statistics by groups of countries are: North America, 1,601,675 tons; Latin America, 20,035 tons; Europe, 1,302,201 tons; Africa, 435,455 tons; Asia, 220,836 tons; and Oceania, 900 tons. In addition to the countries included in these figures, Czechoslovakia, North Korea and Romania also produced asbestos but available information was inadequate to make reliable estimates of output levels. [Mineral Trade Notes, U.S. Bureau of Mines]

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:

MAY 1972

Amosite, South Africa	s. tons	909	\$ 175,171
Crocidolite (Blue), South Africa	s. tons	100	21,317
Chrysotile, Crude, South Africa	s. tons	370	79,756
Chrysotile, Spinning Fibers, Canada	s. tons	1,089	545,891
Chrysotile, Other, Canada	s. tons	60,750	6,781,752
Other Crudes & Fibers, Canada	s. tons	161	17,319
Yugoslavia	s. tons	843	42,611
		64,222	\$ 7,663,817

Manufactured Asbestos Goods:

Asbestos yarn, slivers, etc.	Lb	295,105	\$ 253,176
A-C pipes, tubes and fittings	Lb	7,423,417	334,177
A-C articles, other	Lb	1,847,531	277,263
Asbestos articles, other		..	127,086
			\$ 991,702

Unmanufactured Asbestos:

JANUARY-MAY 1972

Amosite, Mozambique	s. tons	33	\$ 4,773
South Africa	s. tons	3,540	657,763
Crocidolite (Blue), Bolivia	s. tons	29	2,966
South Africa	s. tons	1,378	311,062
Chrysotile, Crude, South Africa	s. tons	700	153,255
Chrysotile, Spinning Fibers, Canada	s. tons	5,225	2,498,935
Chrysotile, Other, Canada	s. tons	292,732	33,797,496
Other Crudes & Fibers, Canada	s. tons	1,427	162,349
Finland	s. tons	1,086	67,992
Greece	s. tons	6	1,361
Italy	s. tons	1	1,111
Mozambique	s. tons	33	4,773
South Africa	s. tons	602	113,995
Switzerland	s. tons	4	1,538
Yugoslavia	s. tons	843	42,611
		307,369	\$37,821,980

Manufactured Asbestos Goods:

Asbestos yarn, slivers, etc.	Lb	1,763,255	\$ 1,602,987
A-C pipes, tubes and fittings	Lb	21,190,233	1,000,030
A-C articles, other	Lb	8,262,604	1,323,152
Asbestos articles, other		..	1,015,812
			\$ 4,941,981

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ASBESTOS

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Canadian Asbestos Ontario Ltd.
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Toronto 2, Ont.

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6308 East Sharp Avenue

4-72

EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:

MAY 1972

Fibers not further processed than beaten, washed or graded to length .....s. tons	1,717	\$ 329,947
Waste and refuse .....s. tons	3,553	458,768
	5,270	\$ 788,715

Manufactured Asbestos Goods:

A-C shingles and clapboard .....Lb	1,453,186	\$ 158,989
Other a-c or fiber-cement articles .....Lb	614,306	48,931
Gaskets .....Lb	26,320	70,661
Packing .....Lb	380,279	466,623
Heat or sound insulation .....Lb	871,546	119,639
Textiles and yarns .....Lb	..	282,882
Protective clothing .....Lb	..	6,711
Mfrs. other than friction materials* .....Lb	..	263,667
Cl. facings and linings for auto. use .....No	62,969	70,356
Other clutch facings and linings .....No	134,387	67,928
Brake linings for automotive use .....Lb	419,761	284,284
Other brake linings .....Lb	293,314	246,772
		\$ 2,087,443

Unmanufactured Asbestos:

JANUARY-MAY 1972

Fibers not further processed than beaten, washed or graded to length .....s. tons	11,212	\$ 1,691,658
Waste and refuse .....s. tons	10,434	1,345,154
	21,646	\$ 3,036,812

Manufactured Asbestos Goods:

A-C shingles and clapboard .....Lb	9,547,011	\$ 1,002,113
Other a-c or fiber-cement articles .....Lb	2,589,577	344,606
Gaskets .....Lb	247,988	489,957
Packing .....Lb	1,964,109	2,732,658
Heat or sound insulation .....Lb	..	783,850
Textiles and yarns .....Lb	7,467,176	1,658,042
Protective clothing .....Lb	..	79,255
Mfrs. other than friction materials .....Lb	..	1,690,239
Cl. facings and linings for auto. use .....No	984,954	780,760
Other clutch facings and linings .....No	517,654	241,147
Brake linings for automotive useLb	2,843,764	2,018,577
Other brake liningsLb	1,239,113	1,001,342
		\$12,822,546

20
MONDAY



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ASBESTOS—October 1972

Page 29

CAPCO JEN 0004620

EXPORTS FROM CANADA

Figures from Statistics Canada

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	MAY 1972	
				Short Tons	Shorts Gp 6-9
Western Europe		814	14,992	12,432	
Eastern Europe			3,093		
Middle East		40	3,172	392	
Africa			220	26	
Asia		177	5,874	5,772	
Oceania		30	5,000	1,633	
So. & Cen. America & Antilles ..		20	4,469	2,223	
United States		1,230	18,255	45,338	
		2,311	55,075	67,816	

The total amount of unmanufactured asbestos exported in May 1972 was 125,202 short tons, valued at \$17,232,000.

Manufactured Asbestos Goods:

Brake linings and facings	\$ 45,000
Asbestos-cement building materials	208,000
Other basic products	222,000
	\$ 475,000

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	JANUARY-MAY 1972	
				Short Tons	Shorts Gp 6-9
Western Europe	13	3,962	76,747	51,436	
Eastern Europe		50	14,702	396	
Middle East		40	8,925	2,254	
Africa			3,396	1,191	
Asia	5	965	31,431	39,594	
Oceania		37	17,825	3,789	
So. & Cen. America & Antilles ..		199	27,179	12,220	
United States	1	6,193	86,575	205,781	
	19	11,446	266,780	316,661	

The total amount of unmanufactured asbestos exported in January-May 1972 was 594,906 short tons, valued at \$84,588,000.

Manufactured Asbestos Goods:

Brake linings and facings	\$ 246,000
Asbestos-cement building materials	955,000
Other basic products	1,062,000
	\$ 2,263,000



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But we want to be certain the particular grade of asbestos
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LATEST ASBESTOS PRICES

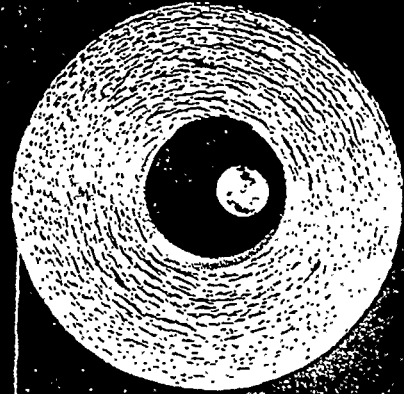
ARIZONA		PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA	
(AS OF AUGUST 1, 1968)		U.S. DOLLARS	
No. 1 Crude	.....	\$1410.00	\$1650.00
No. 2 Crude	.....	700.00	950.00
AAA	.....	..	800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	.....	425.00	700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	.....	400.00	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 2000 LBS., F.O.B. MINE	
(AS OF JULY 1, 1971)		CANADIAN CURRENCY	
Crude No. 1	.....	\$ ..	\$1615.00
Crude No. 2	.....	..	875.00
No. 3 (Spinning Fiber)	.....	412.00	675.00
No. 4 (Asbestos-Cement Fiber)	.....	227.00	383.00
No. 5 (Paper Fiber)	.....	164.00	195.00
No. 6 (Paper & Shingle Fiber)	.....	..	120.00
No. 7 (Shorts)	.....	52.00	100.00

CASSIAR		PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.	
(AS OF JANUARY 1, 1971)		CANADIAN CURRENCY	
AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)		\$	877.00
AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)		..	697.00
A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)		..	529.00
AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)		..	380.00
CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)		..	380.00
AK Grade (Asbestos Cement Fiber/Canadian Gp 4)		..	263.00
CP Grade (Asbestos Cement Fiber/Canadian Gp 4)		..	248.00
AS Grade (Asbestos Cement Fiber/Canadian Gp 4)		..	228.00
CT Grade (Asbestos Cement Fiber/Canadian Gp 4)		..	223.00
AX Grade (Asbestos Cement Fiber/Canadian Gp 5)		..	208.00
CY Grade (Asbestos Cement Fiber/Canadian Gp 5)		..	147.00
AY Grade (Asbestos Cement Fiber/Canadian Gp 5)		..	147.00

VERMONT		PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT	
(AS OF JANUARY 3, 1972)		U.S. DOLLARS	
Grades 3T & 3Z (Fiber)	.....	\$ 400.00	\$ 428.00
Grades 4A thru 4T (Fiber)	.....	218.00	371.00
Grades 5D thru 5R (Fiber)	.....	157.50	185.00
Grade 6D (Waste)	.....	..	114.00
Grades 7D thru 7T (Shorts)	.....	48.00	95.00
Grade 7TF Floats (Shorts)	.....	..	43.50
Grade 8S (Shorts)	.....	..	30.00
Hooker No. 1 (Packaged in 50-lb. Woven Poly Bags)		..	436.00
Hooker No. 2 (Packaged in 100-lb. Woven Poly Bags)		..	218.00

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MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 21: Outlook/Transportation & Textiles

Asbestos is an important part of many types of friction materials used in automobiles, trucks and other transportation vehicles. In addition to using asbestos brake linings, today's motor cars are equipped with automatic transmissions that get their drive from metal transmission discs which are covered with a super-tough paper containing Crocidolite asbestos. The average automobile with power shift contains 8 to 12 discs and although the quantity of asbestos in each transmission is small, the annual output of more than six million automatic transmissions requires disc paper production in the hundreds of tons. . . . A new composition brake shoe unit containing asbestos has been developed that is designed to meet the critical braking requirements of the new 150-mile-per-hour passenger train systems. . . . In 1968, almost 11 million linear feet of woven brake linings were manufactured containing asbestos yarn, tape or cloth. Based on an estimated forecast of the number of motor vehicles to be produced in the year 2000 (about 4 times that of 1968) and on the assumption that the use of asbestos per vehicle will decline to 60% of the 1968 level, the forecast base for asbestos demand in user-operated vehicles is projected to 60,000 tons. Increasing the number of transportation vehicles and equipment having parts made of asbestos or maintaining the present quantity used per vehicle could result in a demand as high as 100,000 tons. Even if the forecast vehicle production is not attained, the lowest demand should not be less than 50,000 tons.

Demand for asbestos used in textiles was projected to 56,000 tons in the year 2000, based on the forecast growth rate for gross national product. Asbestos textiles are used in the manufacture of yarn and cloth for safety clothing, packings, brake linings, filters, etc. Carded fibers are 100% asbestos and are used for the clarification of liquids. Asbestos lap and rovings are used to insulate electrical conductors and heating elements. The projected growth of asbestos demand in electrical appliances, coupled with design improvements that increase asbestos use, could result in increased asbestos demand. Due to its inherent incombustibility and thermal stability, asbestos cloth is required by all maritime specifications as well as many Government specifications and numerous industrial and utility power plants to hold pipe or boiler insulation in place and to serve as a permanent protection and fireproof jacket. Specially processed lint-free asbestos cloth serves as a protective shield in "clean" areas adjacent to nuclear reactors. . . . Since competition from substitute materials is not likely to be important and no competitive factor is considered, the forecast base of 56,000 tons is taken as the low forecast. Based on past production statistics and assuming an increase in asbestos textile usage, the high projected demand in 2000 could be 60,000 tons.

NEXT ISSUE—OUTLOOK/PLASTICS & OTHER USES

FLINTKOTE ASBESTOS



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Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

Flintkote offers you the finest in a wide variety of Chrysotile Asbestos Fibers and the know-how to help you choose the best for your purpose. Call on Flintkote now for fast service.



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CHANGE OF OWNERS AT HAVELOCK

Swaziland and Turner & Newall Ltd. have signed an agreement whereby ownership of the Havelock Asbestos Mine was transferred from New Amianthus Mines (Pty) Ltd., a T&N subsidiary incorporated in South Africa, to Havelock Asbestos Mines (Swaziland) Ltd., a new company to be incorporated in Swaziland. It will have a paid-up capital of R8 million, with T&N through New Amianthus to subscribe 60% of the share capital. The Swazi nation will receive 20% of the share capital free of charge and will purchase the remaining 20% for \$1.2 million, to be paid over a six-year period out of dividends to which Swaziland will become entitled on the purchased shares. Havelock employs more than 1700 Swazis and yearly produces over 35,000 tons of Chrysotile. [Mining Journal]

BANK LOAN FOR TIMMINS PROPERTY

The Mercantile Bank of Canada, 64.5% owned by the First National City Bank of New York, will provide a \$12 million loan to help finance production at the asbestos property owned by Allied Mining Corporation Ltd., located in Midlothian Township, Northern Ontario, about 43 miles south of Timmins. \$18 million is needed and the \$6-million balance will be provided by Allied Mining and United Asbestos Corporation Ltd., which holds an equity interest in Allied. Approval and ratification of the agreement must be obtained from the shareholders of both companies. The fiber concerned is of the cross-fiber Chrysotile variety and mostly falls into Groups 5, 6 and 7.

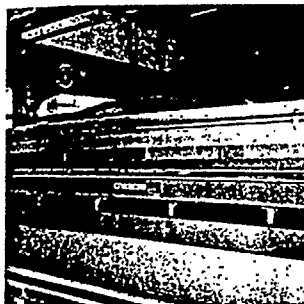
ANGLO WESTERN & BRANTA EXPLORING

Sphere Development Corporation Ltd. (N.P.L.) sold its 58 asbestos claims located in the Clinton area of the Yukon to Anglo Western Minerals Ltd. The sale calls for a royalty payment to Sphere of 25c per ton on all ore produced from the property, up to an aggregate total of \$1 million. Anglo also holds 22 asbestos claims adjacent to the property. . . . Anglo and a partner company, Branta Explorations Ltd., are conducting an exploration program on the property including mapping, geophysics, stripping and diamond drilling and consideration is being given to the feasibility of producing the one million tons of asbestos ore already outlined. The fiber falls within the Group 4 category.

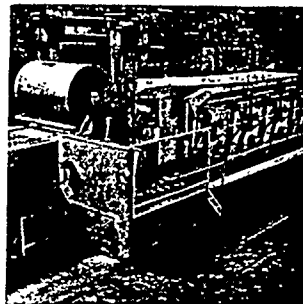
MINING RIGHTS PURCHASED AT BLACK LAKE

United Asbestos Corporation Ltd. and Lake Asbestos of Quebec Ltd. have reached an agreement concerning the purchase from Asbestos Corporation Ltd. of mining rights adjacent to the LAQ open pit at Black Lake, Quebec. The purchase price is \$1,750,000. The acquisition will allow increased access to the present open pit which is being worked under a joint venture between LAQ and United and minable reserves at the joint venture will be increased by some 45 million tons.

(W) Choose performance and efficiency



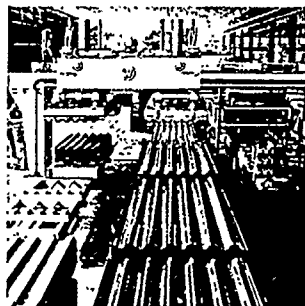
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Automatic sheet machine



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Sheet destacking and oiling plant

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 rugator? — Plant for pressure pipes? —
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 sandwich panels (made of asbestos-
 cement sheets and foamed plastics)?

Presses or cutting-presses for high
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BIRTHDAY GREETINGS TO . . .

- E. G. Robinson, Vice President, Minorex Ltd., subsidiary of Asbestos Corporation Ltd., Toronto, Ontario, November 15.
 J. J. Mangan, President & Managing Director, Hedman Mines Ltd., Timmins, Ontario, November 16.
 A. V. Richardson, General Manager, Humes Ltd., Melbourne, Victoria, Australia, November 17.
 E. W. Russell, Operations Manager, Bennettsville Works, Thermoid Division, H. K. Porter Company, Inc., Bennettsville, South Carolina, November 17.
 Gordon E. MacDonald, Chairman, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 19.
 Thornton R. Smith, Vice President-Finance, Johns-Manville Corporation, Denver, Colorado, November 19.
 Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Ltd., Johannesburg, South Africa, November 19.
 J. J. Walsh, Vice President-Sales, Canadian Asbestos Company, St. Laurent, Montreal, Quebec, November 19.
 Thomas J. Gillick, Jr., Product Manager for Asbestos, Paper & Millboard, Industrial Products Division, GAF Corporation, Greenwich, Connecticut, November 20.
 Philip E. Holmes, President, Pacific Asbestos Corporation, Copperopolis, California, November 20.
 A. Procter, Director, Turner & Newall Ltd., Manchester, Lancashire, England, November 20.
 H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Ambler, Pennsylvania, November 21.
 J. A. D. Marcotte, Honorary Director, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 22.
 Louis J. Knippa, Vice President-Manufacturing, Philip Carey Company, Cincinnati, Ohio, November 24.
 J. T. Ward, Superintendent-Vancouver Operations, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, British Columbia, November 24.
 William H. Parker, General Manager, Cold Storage & Wall Insulation Division, Canadian Asbestos Company, St. Laurent, Montreal, Quebec, November 25.
 Walter Inglis Stewart, General Manager & Director, Cape Asbestos Insulations (Pty) Ltd., Benoni South, Transvaal, South Africa, November 25.
 Russell L. Pellett, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, November 27.
 John G. (Jack) Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.
 Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., Short Hills, New Jersey, December 2.
 K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.
 Frank S. Williams, Product Manager-Asbestos, Asbestos Group,



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Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, December 3.
 J. V. Jones, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, December 4.
 George H. M...es, Jr., Vice President-Corporate Marketing, Johns-Manville Corporation, Denver, Colorado, December 5.
 John Hasselbach, Vice President-Sales, Philip Carey Company, Cincinnati, Ohio, December 8.
 David G. Colwell, Treasurer-International, Johns-Manville Corporation, Denver, Colorado, December 10.
 A. Robert Garofalo, Vice President in charge of Public Relations, GAF Corporation, New York City, December 11.

BOOKS, ARTICLES & PAPERS

Mines Bureau Handbook—Explains how to apply for U.S. Bureau of Mines financing for scientific research and how to administer research grants awarded by the Bureau; summarizes the mining, mineral, energy and industrial safety areas of technology the Bureau is interested in furthering through research grants; lists categories of organizations that are eligible to apply. [Available without cost from the Office of University Relations, Bureau of Mines, 2510 Interior Building, Washington, D. C. 20240]

Mineral Exploration, Mining & Processing Patents 1971—Subject-classified, indexed volume of abstracts, by Oliver S. North, covering significant U.S., Canadian and British patents issued in 1971 on mineral exploration, mining, beneficiation, concentration, extraction and refining; also includes selected patents issued in Germany and the USSR. [Hard Cover; \$25.00]

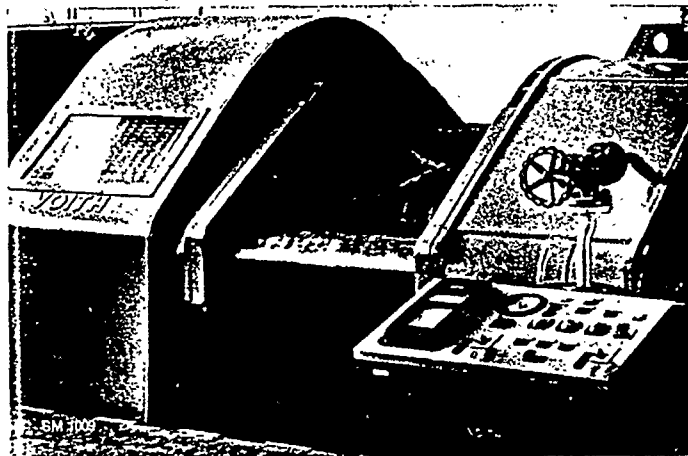
Adhesives, Pollution—Among the books recently published by Noyes Data Corporation, Park Ridge, New Jersey, are: Adhesives 1972 (\$36.00); Noncatalytic Auto Exhaust Reduction 1972, by D. Post (\$36.00); Pollution Analyzing and Monitoring Instruments 1972 (\$36.00); Pollution Control Companies U.S.A. 1972 (\$24.00); Fine Dust and Particulates Removal 1972, by H. R. Jones (\$36.00). [Brief abstracts are available on request]

ISA Literature—The following publications are available from the Instrument Society of America, 400 Stanwix Street, Pittsburgh, Pennsylvania 15222: 1972 ISA Instrumentation Publications Catalog (free); Digital Computer Applications to Process Control (\$42.00); Electrical Instruments in Hazardous Locations (\$24.00); ISA Electrical Safety Publications (free).

USSR Construction Materials—Articles, written in Russian, that appeared in recent issues of "Construction Materials" include: The Building Material Industry of the Czechoslovakian Socialist Republic; Fiber Production by the Flow Method; Equipment for Painting Asbestos-Cement Constructions.

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NOTES FROM 1971 ANNUAL REPORTS

BBA GROUP LTD.

Group sales of BBA Group Ltd., Cleckheaton, Yorkshire, England, again reached a record level in 1971. At £38,486,253, the figure was 5.8% higher than in the previous year. Net balance from trading rose by 15.2% and operating profit rose by 28.7%. Companies in the United Kingdom achieved a 14.2% increase in profit with a 4.2% increase in turnover, and overseas companies' profit increased 39.5% on a turnover which rose by 7.6%. The overseas firms provided 47.8% of Group sales and 62.6% of Group pre-tax profit, an increase over the previous year that was largely attributable to the Group's interests in Germany and in the United States. Taxation absorbed 42.3% more than in 1970, leaving a net profit of £2,014,417. Direct exports from the U.K. together with sales by overseas companies accounted for 58.9% of Group sales. Acquisition of Charles Hirst (Cleckheaton) Ltd. provided BBA with a freehold site of approximately 8½ acres adjoining its main site at Cleckheaton. In March 1972, the name of the Hirst company was changed to BBA Properties Ltd.

Manufacture and marketing of friction and anti-friction materials proved highly successful both at home and abroad and all companies concerned showed profits. World external sales increased by 8% and profit rose by 43%. . . . BBA's brake liners, disc pads and clutch facings are made principally in the Group's factories in the U.K., West Germany and Spain, and in Australia by an associated company. In addition, the Group has licensees throughout the world. . . . A satisfactory increase in sales at Mintex Ltd. offset the continued sharp increases in costs of wages and raw materials and an excellent trading result was achieved. Significant changes are taking place in the marketing and distribution of friction materials, particularly on the replacement side. . . . In spite of some slackening in West German business generally, Textar G.m.b.H. was able to maintain its level of activity. The company received a contract from the Polish State Authorities for the installation of a large manufacturing plant for friction materials and allied products. . . . In Australia, Bendix Mintex Pty Ltd. continued to progress and produced excellent trading results. . . . Friction materials traded under the names of Mintex, Chekko, Textar, Frenosa and Bendix Mintex are distributed internationally by the manufacturers, either direct to customers or through agents. Mintex S.A., an agency company based in France, enjoyed a successful year and plans are at hand for its moving to new premises early in 1973. . . . The agent in Canada for friction materials and industrial products, Mintex Federal Ltd., also bonds brake liners and manufactures wire belting. Its sales of friction materials rose slightly but overall sales and profit were at a lower level than in 1970.

The manufacture and marketing of belting and asbestos products



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also proved successful both domestically and abroad. These products consist of belting and webbings for conveying and other purposes, and asbestos yarn, cloth, tape, jointings and packings. Scandura belting is manufactured at the Group's factories in the U.K. and the U.S. and at the factory of a licensee in the Republic of South Africa. The bulk of BBA's asbestos products is manufactured at U.K. facilities. . . . Scandura Ltd., Cleckheaton, continued to devote its research and development effort toward maintaining its technical leadership in the field of process belting and good progress was made in a number of specialized areas at Scandura Inc., located in Charlotte, North Carolina. Small extensions to the works at Charlotte were completed during the year and plans are in process for a substantial increase in manufacturing capacity which will require the use of a new site. . . . The Mintex licensee in Turkey began production of brake lining in the second half of the year.

In spite of uncertainties facing industry as a whole, BBA Group Ltd. anticipates a satisfactory increase in profit in 1972.

ASBESTOS STOCK QUOTATIONS

CLOSE—SEPTEMBER 19, 1972

Abitibi Asbestos	*\$2.25	G&W (when traded)	11
Advocate Mines	*\$1.45	G&W (pfd 1.75)	110
Allied Mining	*\$3.25	G&W (pfd 3.50)	144 1/4
Asarco	19 1/4	G&W (pfd 3.87)	64 1/2
Armstrong Cork	33 1/2	G&W (pfd 5.75)	70 1/2
Armst Cork (pfd 3.75) ..	55 1/2	Illinois Central	32 1/2
Asbestos Corporation ..	*\$21.125	Ill. Central (pfd-A 6) ..	146 1/4
Bendix	41 1/2	Ill. Central (pfd 3.50) ..	57 1/2
Bendix (pfd 3)	68	Jim Walter Corporation ..	26 5/8
Carlisle	21 3/4	Jim Walter (pfd 1.60) ..	31 1/2
Cassiar Asbestos	*\$16.75	Johns-Manville	29 1/4
Cerro Corporation	14 1/4	Kenecott Copper	22 3/4
Certain-teed Products ..	21 1/4	Maremont	36 1/2
C-teed (pfd .90)	40	McAdam Mining	*\$4.3
Conwest	*\$6.50	National Gypsum	17 1/4
Flintkote	24 3/4	Pathfinder	*\$1.05
F-kote (pfd-A 4.50) ..	74 3/4	Porter (pfd 5.50)	82 1/2
F-kote (pfd-B 2.25) ..	34 1/4	Raybestos-Manhattan ..	27 1/4
Freeport Minerals	19 1/2	Rio Algom Mines	*\$20.00
GAF Corporation	21 1/2	Royal Industries	10 1/4
GAF (pfd 1.20)	27	Unarco	12 1/2
Garlock	18 1/4	Union Carbide	45 3/4
Grace	26	Uniroyal	16 1/2
Gulf & Western	33 1/2	Uniroyal (pfd 8)	102 3/4
		United Asbestos	4

*Canadian Currency

(Sources: The Wall Street Journal & The Northern Miner)



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MEN ON THE MOVE

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L. G. Stopford Sackville has been appointed Deputy Chairman of Cape Asbestos, following the relinquishing of that post by S. Spiro. Mr. Spiro remains a Director of the company.

CERTAIN-TEED PRODUCTS CORPORATION

S. Davidson Herron, Jr., Financial Vice President and Treasurer of INA Corporation, was elected to the Executive Committee of Certain-teed. He has been a member of Certain-teed's Board of Directors since February of this year.

EVERITE LTD.

Hans Thoeni has been appointed Managing Director of Everite effective September 1st, 1972, succeeding Hans R. Benecke who retired after 31 years of service with the company. A native of Switzerland, Mr. Thoeni joined Everite in 1969 as General Manager of the Asbestos Cement Division. . . . W. Melvin retired from Everite at the end of July with 28 years of service with the firm. His position of Factory Secretary at Brackenfell has been filled by H. Weise.

GULF + WESTERN INDUSTRIES, INC.

David N. Judelson, President, announced the election of James A. Graham as Vice President of International Manufacturing Operations. Mr. Graham will be responsible for G + W's industrial activities abroad and for coordinating these activities with the company's domestic manufacturing operations.

SIMPLICITY ENGINEERING COMPANY

Frederick K. Schwarz is now Vice President-General Manager of Simplicity, according to James A. Van Sant, Group Vice President of General Steel Industries, Inc. Mr. Schwarz had been a Consultant to GSI, the parent corporation of Simplicity. He formerly was associated with American Zinc Company and with Olin Corporation.

SPROUT, WALDRON & CO., INC.

Lester L. Murray, formerly Vice President-Sales and Engineering, was elected by the S-W Board of Directors to the newly-established position of Vice President and Chief Executive Officer. Harold J. Alsted, Executive Vice President since 1965, was elected Senior Vice President. Overall policies of the firm will continue to be the responsibility of Harold M. Soars, Chairman of the Board, and H. Marshall Soars, Jr., President. . . . S-W established a branch office of its Contracts & Systems Division in Decatur, Georgia, and appointed Frank W. Fulton as Branch Manager and Terry L. Woodside as Systems Designer.

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

British 1,271,156—Instruments, components, or the like, are coated for protection against corrosion and mechanical damage with a mixture of optimum proportions of masticated rubber, a hydrocarbon solvent for the rubber, asbestos, barite or kaolin, castor oil and aluminum stearate; assigned to Dorit Chemic- und Handels A.G., April 19, 1972; 6 pages.

British 1,271,997—Roofing sheets or shingles are made from a batch comprising 54-70% by weight of Chrysotile asbestos, 10-40% of bitumen or coal tar pitch, about 3% of a fatty acid soap and optionally 5-25% of slate powder or calcium carbonate as a filler and up to 5% of ultramarine blue or other coloring agent; assigned to S.A. Francaise du Ferodo, April 26, 1972; 6 pages.

British 1,272,260—A putty-like composition for sealing and cementing ridge units on roofs comprises expanded polystyrene balls, asbestos, linseed oil as a drying oil, mineral oil as a non-drying oil and p-toluenesulfonate in butanol as a curing agent; E. B. Berthelsen & J. Middleboe, April 26, 1972; 2 pages.

Canadian 898,432—An improved exothermic insulating composition for ferrous metal ingot molds comprises 4-12% by weight of asbestos, up to 12% each of a reactive metal and a cellulosic material, up to 14% of a metal oxide, 3-12% of a binder resin and the remainder sand, glass polishing residue, diatomite and silica flour; N. F. Tisdale, Jr., & J. F. McCarthy; assigned to Susquehanna Corporation, April 18, 1972; 11 pages.

Canadian 898,433—Fibrous, monolithic hardboard is manufactured from a mixture of 70-99% by weight of Grades 5 to 7 QAMA Chrysotile asbestos, 10-60% of a thermoplastic resin and 0-10% of a thermosetting resin; W. T. Donahue, M. C. Hutchins, D. E. Noyes & B. G. Craig; assigned to Johns-Manville Corporation, April 18, 1972; 33 pages.

Russian 287,508—A composition for forming washers useful for either hot or cold pressing operations consists of a sodium silicate solution of 75-85% by weight of asbestos and 15-25% of flake graphite; L. V. Prozorov, et al.; assigned to Central Scientific-Research Institute for Machine Building Technology, November 19, 1970; 1 page.

Russian 292,813—In the production of an improved friction article, asbestos rovings are twisted with wire, the composite impregnated

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with an adhesive and usual additives and the composite molded and heat-treated under pressure; G. S. Uskov; January 15, 1971; 2 pages.

U.S. 3,654,073—A composition for forming non-burning sheets of paper suitable for use on an offset lithographic printing press comprises asbestos, fiber glass, delaminated expanded lithium vermiculite, a latex resin and the usual flocculants and dispersants; E. W. Lard & A. C. White; assigned to W. R. Grace & Co., April 4, 1972; 6 pages.

U.S. 3,654,202—An improved filler for polyethylene compositions is prepared by reacting Chrysotile asbestos fibers with sodium linoleate in an aqueous solution; polyethylene filled with Chrysotile so pretreated has increased tensile strength and flexibility; E. Eusebi; assigned to General Motors Corporation, April 4, 1972; 3 pages.

U.S. 3,655,358—Use of 0.25-4% by weight of Chrysotile asbestos short fibers in a high-analysis, aqueous suspension-type fertilizer composition to prevent settling of the solids; R. S. Rickard & D. L. Whitfill; assigned to Continental Oil Co., April 11, 1972; 3 pages.

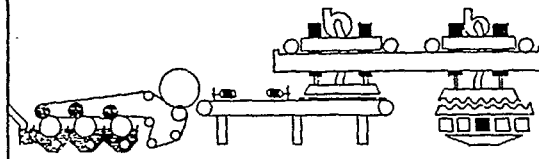
U.S. 3,655,600—A dry mixture for forming into lightweight flame-resistant insulating or structural shapes comprises substantial amounts of sodium silicate, asbestos or kaolin and a surfactant and a minor amount of expanded polystyrene beads; S. S. Stevens; April 11, 1972; 4 pages.

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CALENDAR OF EVENTS

National Insulation Contractors Association—17th Annual Convention; The Greenbrier, White Sulphur Springs, West Virginia; *October 29-November 1.*

Dimensional Accuracy in Manufacturing—National Bureau of Standards; Gaithersburg, Maryland; *October 30-November 1.*

Noise in Manufacturing Plants—seminars by L. N. Miller of Bolt Beranek and Newton Inc.; *October 30-November 1* in Washington, D.C.; *November 13-15* in Boston, Massachusetts.

PMMI Pack Expo 72—sponsored by the Packaging Machinery Manufacturers Institute; McCormick Place, Chicago, Illinois; *October 30-November 2.*

International Tailing Symposium—sponsored by World Mining and affiliated groups; Tucson, Arizona; *November 1-3.*

IFAT—International Sewage and Refuse Engineering Exhibition; Munich Fair Grounds, Munich, Germany; *November 3-9.*

Midwest Roofing Contractors Association—Annual Convention and Trade Show; Broadmoor Hotel, Colorado Springs, Colorado; *November 5-8.*

Environmental Protection Seminar and U.S. Trade Mission—to Czechoslovakia, Poland and Austria; *November 5-17.*

10th Annual Reliability Engineering Management Institute—held by the University of Arizona and Honeywell Information Systems; Tucson, Arizona; *November 6-10.*

Continuing Education Programs—to be held by the University of Wisconsin—Extension during *November*. Programs on the Madison campus include Design of Air Pollution Control Facilities, *6-10*; Occupational Health and Safety in Manufacturing Plants, *14-15*; Structural Design Loads, *28-29*; and Mobile Homes and Parks, *29-30*. Courses at Milwaukee include Noise Measurement and Control, *13-17*; Work Measurement of Indirect Labor, *14-15*; Techniques of Decision Making, *21-22*; and Work Sampling, *28-29*.

Production and Quality Control Instrumentation U.S. Trade Mission—to Belgium and the Netherlands; *November 6-18.*

Solid-Waste Management in Buildings Conference—Building Research Institute; Stouffer's Riverfront Inn, St. Louis, Missouri; *November 15-16.*

Antiquinamento '72—Pollution Control Equipment Exhibition; Milan Trade Center, Milan, Italy; *November 15-19.*

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Remember When?

(October 1922 ASBESTOS)

It was announced that Rene Pothier Doucet, General Sales Manager of Asbestos Corporation of Canada, Ltd., had been elected General Manager of the company, succeeding J. D. Sharpe, recently deceased.

Cape Asbestos Company, Ltd., whose mining operations had been curtailed some 50% for almost a year, was reported to be hiring more labor and expected to be working full shifts in the near future.

The appointment of C. J. Stover as President and General Manager of Consolidated Asbestos, Ltd., of Montreal, was reported. Effective October 1, 1922, Mr. Stover resigned as Editor of ASBESTOS and assumed his new position. Miss Anna S. Rossiter, who had been associated with Mr. Stover for some twelve years, took over the Management and Editorship of the journal on the same date.

Information from Canada indicated the mines in the Thetford area were operating at about 50% of capacity while Black Lake Asbestos & Chrome Company had closed its mine for the winter.

In an advertisement, Franklin Manufacturing Company offered for sale its plant for the manufacture of 85% Magnesia located at Franklin, Pennsylvania.

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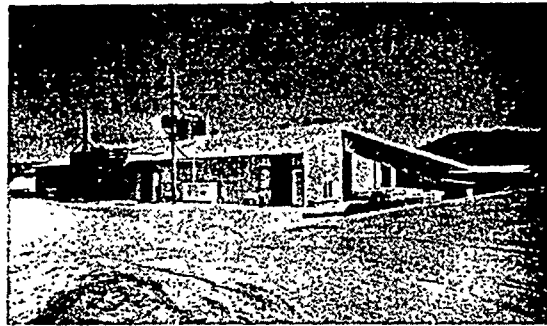
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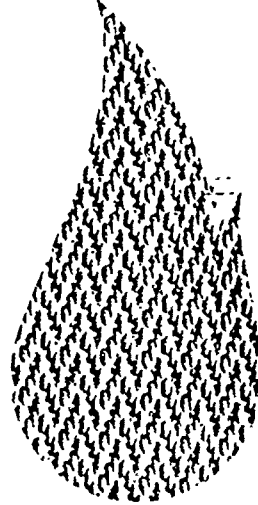
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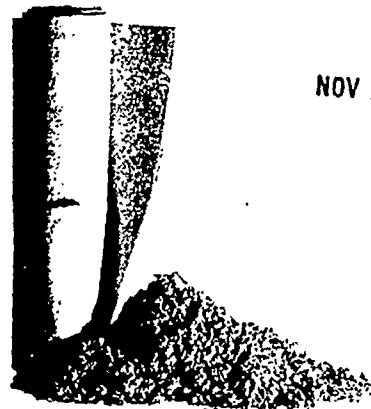


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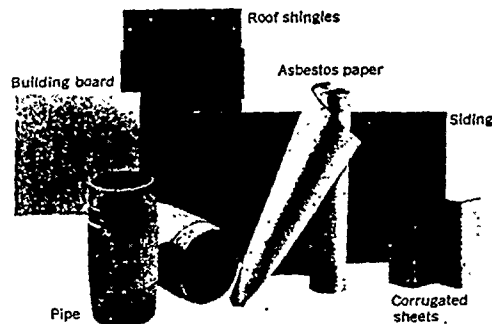
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