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# MARSMAN MAGAZINE

VOL. III  
APRIL  
1939  
NO. 10

MANILA, PHILIPPINES

April  
1939

# THE MARSMAN MAGAZINE

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Vol. III  
No. 10

## MARSMAN MINES ESTABLISH THREE HIGHS

*Three new all time gold production records featured the March operations of the Marsman-managed mines.*

*The total output of the group was also a record, being ₱1,408,194.16 from the milling of 57,784 tons of ore and the dredging of 321,220 cubic yards of gravel.*

*San Mauricio continued to establish new production records in March with a gross recovery of ₱550,601.31. The mill treated 9,470 tons of ore for ₱58.14 per ton average recovery. This recovery also established a new mark and leads all other operating companies in the Philippines in the grade of ore treated.*

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## SAN MAURICIO SETS NEW PRODUCTION RECORD FOR THE MONTH OF MARCH

San Mauricio broke all production records by establishing a high for the month of March with ₱550,601.31. This is an increase of approximately ₱50,000 over the previous month. The mill treated 9,470 tons of ore with an average recovery of ₱58.14 a ton. Extraction was 93.9%.

Total development advance for the month amounted to 1,874 feet; 1,462 were in capital development with 230 feet in ore while of the 392 feet of operating development, 151 were in ore. These developments for March resulted in additional ore reserves for the Company.

With occasional flashes of ore, the Spokane drift on the 200 level was advanced 125 feet. On the Tacoma No. 3 north drift, 44 feet of drifting was done with the vein showing average grade ore. On the 300 level, what appears to be the Tacoma No. 1 vein, was picked up by west 1790 north. An advance of

45 feet was made on this vein with average grade. Also on the 300 level, drift 1990 was advanced 117 feet in ore.

Considerable operating development was done along the contact in stope 2300 north of Tacoma No. 3 indicating a sizable body of very good ore.

On the 500 foot level, Tacoma No. 3 drift was advanced 133 feet during the month in ore averaging above ₱50.00 per ton for considerable stretches.

The 425 level north drift in the Santa Ana mine was advanced 80 feet in ore, averaging ₱81.90 per ton over a width of 59 inches. The 425 level south drift was advanced 71 feet in ore averaging ₱27.30 per ton over a width of 59 inches.

The main San Mauricio shaft was sunk 18 feet and the Santa Ana shaft was sunk 56 feet during March.

During the period under review the operations in the mine and mill were satisfactory.

## J. H. MARSMAN LEAVES FOR EXTENDED BUSINESS TRIP TO THE STATES



*J. H. Marsman, head of the Marsman interests, is shown with President Manuel L. Quezon, at a luncheon given by the President in his honor in Baguio, April 7.*

Sailing from Manila on the President Coolidge, April 8, 1939, along with other leading business executives, was J. H. Marsman, head of the various Marsman agencies. He was accompanied by Mrs. Marsman and the Misses Anne Petronella Marsman and Eileen Wedderburn.

Mr. Marsman plans to spend considerable time on the west coast attending to business matters. While on the west coast he will attend the Golden Gate International Exposition in San Francisco, paying particular attention to the Philippine representation. According to present plans, Mr. Marsman will later go on to New York City.

After several months in the states, Mr. Marsman may go to Europe to confer with the Marsman agencies in London, returning to the Philippines the latter part of this year.

Among other officials of Marsman & Co. who sailed with Mr. Marsman were

Mr. and Mrs. Geo. C. Dankwerth, and Mr. and Mrs. J. O. Enberg. Mr. Dankwerth, and Mr. Enberg will be with Mr. Marsman in advisory capacities. Mr. Dankwerth is a vice-president of Marsman & Company and financial advisor. Mr. Enberg is a chairman of the board of consulting engineers of Marsman & Company.

Accompanying Mr. Marsman when he left for the States, was Maurice Francisco from the Manila office. Mr. Francisco will be the personal secretary for Mr. Marsman.

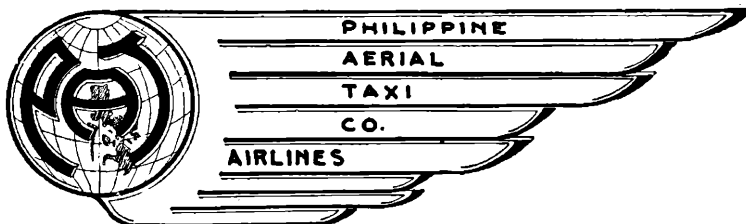
Major A. Beckerleg, director of Marsman Investments Limited, left for a trip around the world. Major Beckerleg is on vacation leave.

G. W. Kerr, left April 9 on the Conte Verde for a business and pleasure trip. He may visit properties in Burma, thence to London. He will be back in Rangoon within a few months.

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Arrive Baguio.....	7:30 "
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Arrive Manila.....	8:40 "

ONE WAY ..... P25  
ROUND TRIP ... P45

**PARACALE -**

Tues.	{	leave Manila .....	6:45 a.m.
Thurs.		arrive Paracale .....	8:00 a.m.
Sat.		leave Paracale .....	8:05 a.m.
		arrive Naga .....	8:40 a.m.

Manila-Paracale, one way P35, round trip P70  
 Manila-Naga, one way P50, round trip P100  
 Manila-Legaspi, one way P65, round trip P130  
 Paracale-Legaspi, one way P30, round trip P60  
 Paracale-Naga, one way P15, round trip P30  
 Naga-Legaspi, one way P15, round trip P30

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## ANTONIO DE LAS ALAS JOINS EXECUTIVE STAFF, MARSMAN & CO.

Antonio de las Alas, former Secretary of Finance, became affiliated with the staff of Marsman & Company on April 15 in an executive position.

Mr. de las Alas started his career in public service 28 years ago as a clerical

las Alas was chairman and member of some of the House's most important committees. He was chairman of the very powerful Committee on Appropriations, which was at the same time the Ways and Means committee. His



*Antonio de las Alas at his desk in the Marsman Building.*

employee, and has steadily and persistently risen to some of the foremost positions in the government of the Philippines.

His first major position was that of Chief of the Executive Bureau in 1919. Later he was promoted to the position of Under-Secretary of the Interior. While in this office, he was designated by the Governor-General of the Philippines, to act as Secretary of the Interior and Secretary of Justice.

In 1922, Mr. de las Alas resigned these cabinet positions to enter the race for membership in the House of Representatives, where he remained until 1933. During his incumbency, Mr. de

last year, 1933, he was Speaker of the House.

Leaving the House, Mr. de las Alas was appointed as Secretary of the Department of Public Works, which position he occupied from 1933 until 1936.

President Quezon appointed him to the ranking position of Chairman of the National Economic Council, which was the organization in charge of the economic planning for the Philippine government. At the same time he was chairman of the National Development Co., a large company formed by the government to promote business and thus help the economic development of this country.

*(Continued on opposite page)*

## UNITED PARACALE PRODUCES

₱241,754.37 IN MARCH

United Paracale set a new monthly record in March with a production of ₱241,754.37, up ₱7,000.00 from February. The mill treated 9,372 tons of ore for an average recovery of ₱25.79 per ton. Extraction was 91.19%.

Total advance in development for the month amounted to 1,214 feet. Capital development accounted for 873 feet with 105 feet in ore. Operating development amounted to 341 feet with 105 feet in ore.

Drift 207 south, San Antonio 200 level, was advanced 58 feet along the vein 4.4 feet wide. On the San Antonio 400 level, 4 south crosscut east was advanced 250 feet in granite.

On the Baluarte 200 level, drift 201 north, was advanced 52 feet in perido-

tite. The 402 counter drift south, Baluarte 400 level, was advanced 56 feet in granite along the hangingwall. The 501 drift north Baluarte 525 level, was advanced 191 feet long the vein averaging 5.7 feet wide.

The Big Bear crosscut, 5 drift south, was advanced 91 feet along the vein 1.2 feet wide, of which 47 feet was in ore.

The Haliguing-Bato Shaft was sunk 32 feet, bringing the shaft to a total depth of 304 feet.

Work on the new Longos power house building was started, and excavation for the foundation for the Allen Diesel engine and compressor are underway. Mine and mill operations during the month were satisfactory.

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## TUBA MILL IN OPERATION

This property, which is being managed by Marsman & Company, Inc. under a profit-sharing agreement with Northern Mining & Development Company, is situated near Tagkawayan, in the Province of Tayabas.

The mine has been developed on two levels, the 150-foot and 175-foot, and during March the shaft was completed to the 350-foot level where the cutting

of the 350 station is now underway.

A 50-ton all-sliming cyanide mill has been completed and was started on February 18. After the usual adjustments, the mill went into full operation during the early part of March.

The production for March was ₱33,416.99 in bullion from 1,140 tons of ore milled with an average recovery of 92.5%.

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## ANTONIO DE LAS ALAS JOINS . . .

The Commonwealth Government in 1938 sent an economic mission to Washington to represent the Philippines in securing from Congress the necessary legislation intended to effectuate the recommendation of the Joint Preparatory Committee on Philippine Affairs. This mission, headed by Vice-President Sergio Osmeña, had as one of its mem-

bers, the then Secretary of Finance and later Financial Adviser to the Commonwealth Government, Mr. de las Alas.

Returning to Manila from Washington in April to join the staff of Marsman & Company, wherein he will occupy an important position, the company is indeed fortunate in having such a man who is especially trained in the administering of economic matters.

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## COCO GROVE, INC.

During March the two dredges handled 321,220 cubic yards of gravel, from which ₱72,233.73 was recovered. The mechanical performance of the two dredges, Mary Angus and Anne Petronella, was satisfactory.

The dredge Mary Angus handled 175,025 cubic yards of gravel from which ₱59,087.25 was produced. This represents a total dredge area of 101,400 square feet to an average depth of 46.6 feet.

The dredge Anne Petronella recovered ₱13,146.48 from 146,195 cubic yards of gravel handled. It dredged an area of 319,470 square feet, to an average depth of 12.4 feet.

The dredge Mary Angus operated smoothly during the month and continues dredging toward the foreshore, which should be reached on or about May 1st.

The Dredge Anne Petronella operated in the Paracale river through March, making her way towards the provincial bridge, which had to be passed by March 31.

During the Anne Petronella's passage down the river numerous difficulties were encountered. Work was hindered by submerged obstacles originating from the old Australian dredges, such as iron plates, steel wire rope and many boulders.

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MANILA



## ITOGON TREATS 28,913 TONS FOR ₱343,290.85 DURING MARCH

During March, the Itogon plant treated 28,913 tons of ore from which ₱343,290.85 was recovered. Average recovery amounted to ₱11.87 per ton and extraction was 84.96%. Total production was approximately ₱31,000.00 higher than that of the previous month.

The total development advance for March was 4,839 feet. Capital development totalled 2,484 of which 593 feet were in ore. Operating development amounted to 2,355 feet with 1,089 in ore.

Satisfactory results were obtained in the 23 drift west, 550 foot level Sesame, and 23 drift east, 350 foot level. Also,

the 23 drift east, 450 foot level gave better than average value.

During the month of April, drifting will be started on the 252 vein to the Balatoc endline. Work has been started on the 16 crosscut north 875 foot level, with the view of the intercepting the 23 and 31 veins which should be cut sometime in April.

The concreting of the Taka shaft from the 300 to the 200 foot levels is progressing satisfactorily.

Operations in the mill were normal, the only major repair being a new belt on the No. 2 conveyor.

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## SUYOC CONSOLIDATED RECOVERY REMAINS NORMAL FOR MARCH

The March production of Suyoc Consolidated was ₱138,044.89, from the treatment of 6,569 tons of ore. The recovery per ton was ₱21.01, while extraction was 86.53%.

The total development during the month was 2,132 feet. Of the 1,328 feet of capital development, 346 were in ore, as were 51 of the 813 feet of operating development.

The 2201 north drift advanced 133 feet during the month in andesite with gypsum, while drift 2201 south and

2215 crosscut east advanced 24 and 45 feet in agglomerate. An advance of 69 feet was made in crosscut 2001 north.

1860-A raise and 1862-B raise, which were started during the month on the 18162 vein and 1862-A raise continued in better than average grade ore. The 18162 south advanced 46 feet in ore while the 18162 north advanced 33 feet.

Mine and mill operations for March were normal, the mill operating steadily and efficiently.

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## ROYAL PARACALE PRODUCTION INCREASES DURING THE MONTH

Marsman & Company, Inc. have become the managers of this corporation which owns mining claims in the Paracale District and also in the Balete District on the Island of Masbate.

An iron deposit on the Paracale District claims has recently been optioned to the Philippine Iron Mines on a royalty basis. All of the Paracale District claims are now being examined by Marsman engineers.

The Masbate property consists of a group of claims known as the Argos mine where a 70-ton concentrating mill is in operation.

The production for March was ₱29,-598.66 from 2,174 tons of ore.

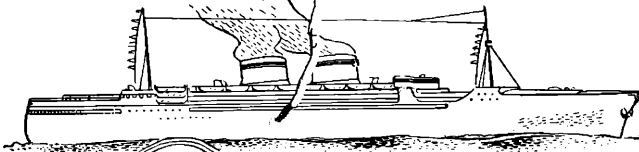
Since Marsman & Company took

over the management, development results have been very encouraging and the most promising feature in this connection is the opening up of a strong vein in the 370 crosscut. This vein which assays ₱50.00 across 6 feet is in the andesite agglomerate which throughout the district carries the highest value ores.

In view of the favorable development results, from which increased production may be anticipated, Marsman & Company are proceeding with construction work to enlarge the power plant, install a cyaniding annex to the mill, and to raise the capacity of the mill to 100 tons per day.

This expansion program should be completed by June.

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## MARSMAN BUILDING CORPORATION ACTIVE ON TWO LARGE CONSTRUCTION PROJECTS

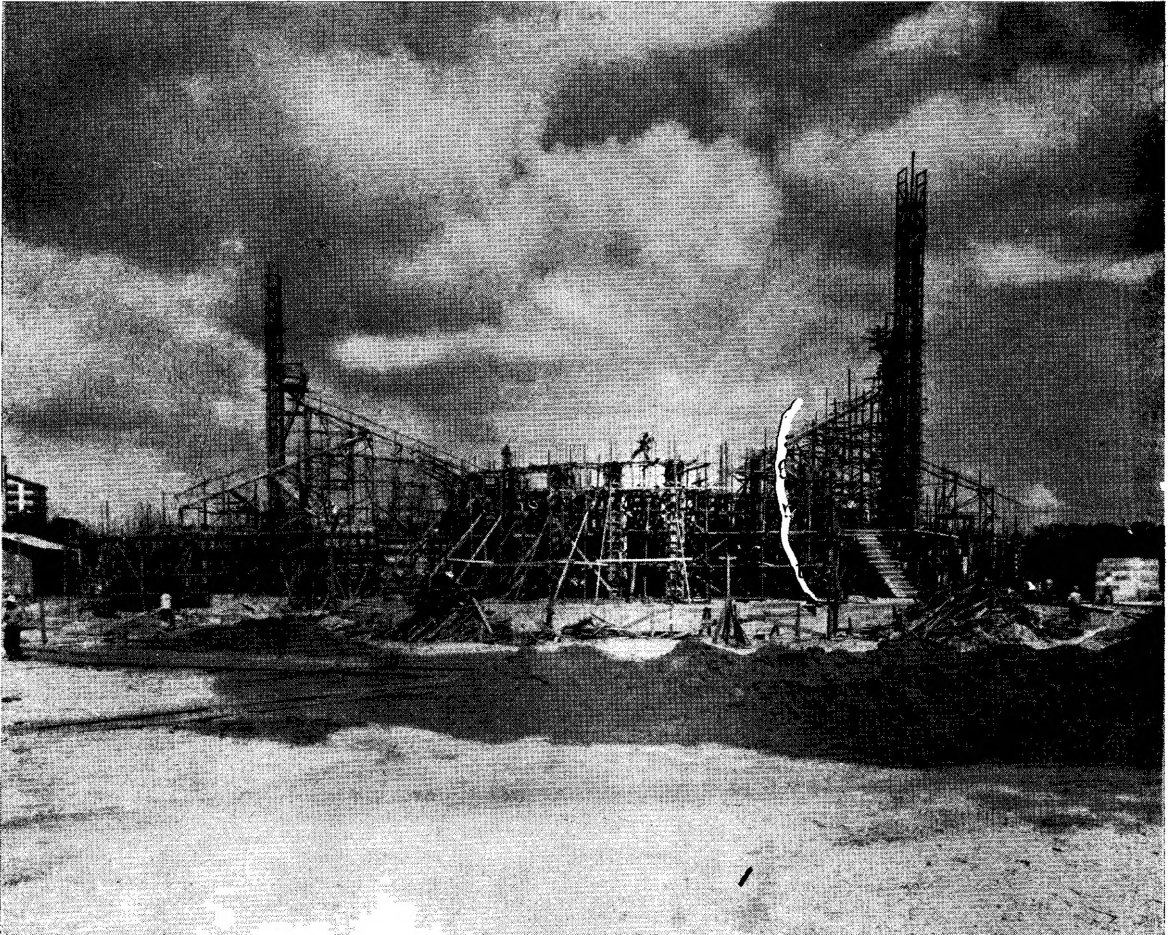
This company, formed in 1936, is controlled and financed by Marsman & Company. The corporation at present is erecting two large buildings, the office and residence of the American High Commissioner, and the new Marsman building.

The contract for the construction of the American High Commissioner's home in Manila, was awarded to the Marsman Building Corporation in June, 1938. The location of the building is on reclaimed ground, off Dewey Boulevard facing Manila Bay. Using the Vibro Pile, for which Marsman Building is exclusive representative, some 600 of these piles have been driven to a depth of 65 feet. The total cost of this edifice

will be about ₱800,000.00. Present plans call for completion of the project in February, 1940.

Work is well underway on the construction of the new Marsman building, to be used by the Marsman interests, and other firms. Facing Manila Bay, the structure will occupy a space of 1,700 square meters. The cost is approximately ₱500,000.00. As a result of the choice location, several firms have taken leases for office space. One of the most modern and efficiently planned, it will be ready for occupancy about October 1, 1939.

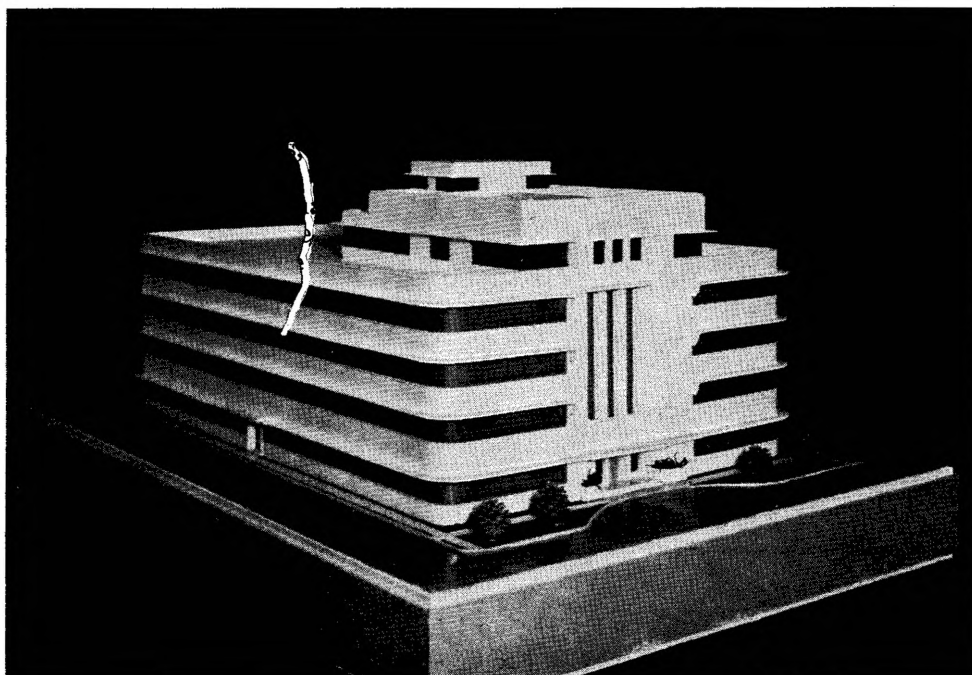
The Building company is also engaged in general contracting and civil engineering work.



*A view of the American High Commissioner's Residence and Office which is under construction by Marsman Building Corporation.*

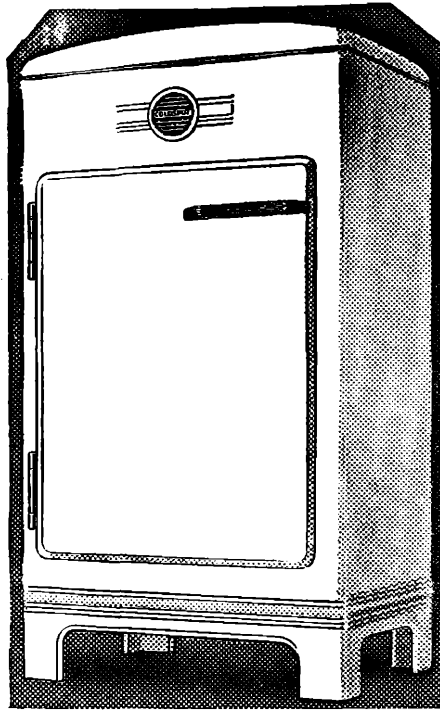


*This is the front view of the model of the new Marsman Building. The structure is expected to be ready for occupancy in October.*



*Another picture of the model, showing the clean-cut design and modern architecture used.*

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20 ESCOLTA

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## MAIL ORDER DESK AT SEARS ROEBUCK INAUGURATED RECENTLY

R. W. Malcolm, who has been connected with the Sears Roebuck Company in the states for many years, has come to Manila as manager of the local office. Marsman Trading Corporation are the sole representatives for Sears in the Philippines.

A new department has been formed at the Escolta office in Manila for the purpose of accommodating people who wish to order from Sears Roebuck. A

Mail Order Desk has been inaugurated to handle orders efficiently and rapidly. This Desk will display samples and catalogues. It will also take charge of forwarding to the states the orders and relieve the customer of the inconvenience of buying money orders.

This system will act as valuable assistance to the buyer in making purchases on a mail order basis.

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## BAGUIO MINES ARE STRESSING SAFETY

The Mine Operators of the Baguio district, which include Itogon Mining Company and Suyoc Consolidated made great strides forward for the progress of safety in the mines during the last year.

Realizing the necessity of such a measure, the companies in the Baguio District appropriated ₱30,000.00 for the construction of a completely modern safety station. This safety station is equipped with the latest underground fire fighting apparatus, gas masks, oxygen breathers, inhalers, and air sampling equipment. The station is centrally located so that in case of emergency the mine safety equipment can be transported to the stricken area in a short time.

Labor conditions in the mines used to be considered a major problem, as the Filipino workmen are of small stature and chiefly farmers by origin. They have come to the mines from many different provinces, speaking a variety of dialects. Due to the high percentage of illiteracy among the men, it is necessary to give much closer supervision than would be found in mines in America. Working directly under American supervisors, keymen known as capatazes are selected to direct the work of a certain shift of men under

them. Orders from the American supervisor, are in turn given to the workmen by the capataz.

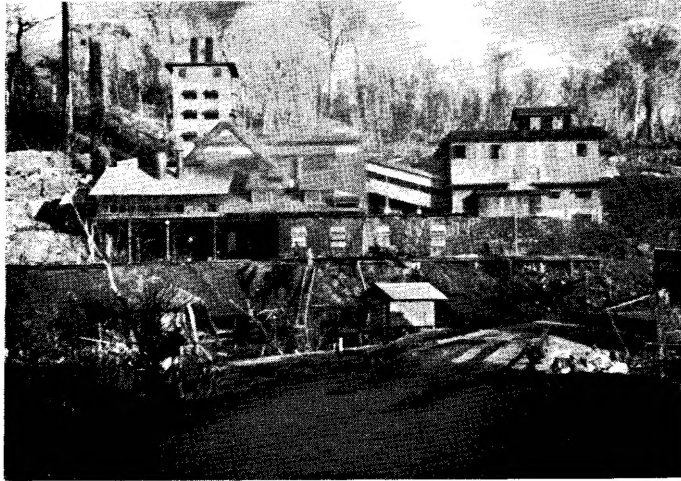
Realizing that every injured man slows down production, the safety council holds semi-monthly meetings, where the capatazes are given lectures and shown the use of safety equipment. These men are taught how to use first aid equipment, apply bandages, and to transport the injured man from the mine with a minimum of pain. At each mine a select group of capatazes are given a rigid and thorough physical examination. Their keen interest in this work, has lead to several competitive contests which are now being looked forward to as an annual event.

Today the miners are 100% equipped with safety hats, and as a result many serious accidents have been averted. Another great advancement in mine safety equipment during the past year has been the introduction of electric cap lamps. Reducing the fire hazard to a minimum, these lamps allow the worker two free hands to work with, and give a greater illuminating power.

Safety work, like any other work, is stimulated by competition, and it is felt that the friendly spirit and cooperation of the Baguio Mine Operators will make this year a safer year than 1938.



## PHILIPPINE SMELTING COMPANY TREATS CONCENTRATES AND ORES VALUED AT ₱900,000.00



*An excellent picture of the Philippine Smelting Company on the Mambulao Bay showing at the left the Cotrell Plant, the main smelter plant in the foreground, with the crushing, sampling and storage plant at the right.*

The Philippine Smelting Company had a record breaking month during March.

The smelter treated 2,189.5 tons of material, of which 1,546.2 tons were concentrates, 250 tons of limerock, 157.8 tons of siliceous ores, with the balance of the total smelter secondaries.

The output of the plant was 105.8 tons containing 10,699.8 ounces of gold,

23,860 ounces of silver, and 89,459 pounds of copper, with a total value of ₱900,000.00.

Joining the companies which ship concentrates to the smelter for further refining was the North Camarines Gold Mining Company.

To correct the overload on the transformers, a 105 KVA Capacitor was installed during March.

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## DEVELOPMENT WORK ON MOUNTAIN MINES IS PROGRESSING

The development work by Marsman & Company on this property is progressing rapidly.

Work on the 28 drift north consisted of crosscutting to the west in the No. 1 crosscut, and to the east in the No. 2 crosscut. No. 1 crosscut was advanced during the month from 5 feet to 100 feet from the main drift.

The 28 drift north was advanced to a point 200 feet from the portal, and a crosscut to the east was started. This

crosscut was advanced 25 feet and is being driven to investigate a fault structure in the main drift.

On the south side of the Pasil River, opposite the camp site, a tunnel has been started. This tunnel was advanced during March approximately 10 feet, in average grade ore.

With weather conditions good, considerable trail work and prospecting in various localities were performed.

## WITH THE MARSMAN MEN

Clarence Woods arrived in Manila April 6, to join the staff of the Itogon Mining Company as a mine shift boss. Mr. Woods is from Rolla, Missouri, and is a graduate of the Rolla School of Mines. Before coming to Manila, Mr. Woods was connected with the INCA Mining and Development Company, Tirapata, Peru.

Another engineer who arrived on April 6 to join the staff of the Itogon Mining Company, is Walter L. Northby. Coming from Minneapolis, Minnesota, Mr. Northby is a graduate of the University of Minnesota and of the University of Idaho. Mr. Northby comes to the Philippines from Ecuador, where he was with the South American Development Company.

*(Continued on page 17)*

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## WITH THE MARSMAN MEN

E. A. Nicolai, who has recently arrived in Manila from California, came to join the staff of the San Mauricio Mining Company. Mr. Nicolai has had considerable experience in mining before coming to the Philippines.

Coming from Australia was Mr. C. R. Gamble, to join the staff of Coco Grove. Before arriving in Manila, Mr. Gamble was with the Bollolo dredging enterprise in New Guinea.

L. W. Buchanan, who has been with the Marsman engineering staff for four years, also left on the Conte Verde for a vacation trip around the world. After visiting his home in Colorado and the two world fairs, Mr. Buchanan will return to Manila in about 6 months.

In the Manila office of Marsman & Company, Mr. L. Kiernan has joined the accounting department. Also in Manila, with Marsman Trading Corporation, is Mr. Sergio Osmeña, Jr., handling marketing survey work, and advertising.

P. A. Lewis, geologist at Itogon Mining Company, left on April 11, 1939, to return to Golden, Colorado, where he will re-enter school for a post graduate course.

Ralph Keeler, editor of the Marsman Magazine, left on the President Coolidge April 8, to represent the Chamber of Mines in the Philippine Participation at the Golden Gate Exposition in San Francisco. Mr. Keeler will also attend the New York World's Fair and will return to the Philippines in about six months.

C. R. Smith, mill superintendent at United Paracale, is on a vacation trip in the states. He is expected back in about four months.

Mr. William K. Grove, has come with the Marsman Trading Corporation, as a factory representative of the Ever-seal Mfg. Co., New York City, manufacturers of technical paints and water-proofings.

Mr. Grove is in charge of the building materials and supplies sales staff for the company. Other companies which Mr. Grove is actively associated with are: The Master Builders Co., of Cleveland, Ohio, manufacturers of Cement Specialties, and the Hawaii Cane Products Ltd., Territory of Hawaii, manufacturers of CANEC. This material is used for insulation, wall board, and accoustical construction.

Mr. R. R. Hermann, has joined the staff of Marsman Trading in charge of European imports.

Mr. Philip Kernan, Jr., joined the staff at the Philippine Smelting Company during March as a shift foreman.

Mr. W. T. Roseler, geologist from Suyoc Consolidated Mining Company, joined the Mountain Mines, Inc. staff during March.

Mr. L. J. Valero, of the Manila office of Marsman & Co. accounting department, has been transferred to the accounting staff at Suyoc Consolidated Mining Company.

## BURGESS BABY

Mr. and Mrs. Frank H. Burgess announced the birth of a son last Saturday, April 8, 1939, at St. Lukes Hospital, Manila. The baby has been named Frank, Jr. Mr. Burgess is connected with Marsman Trading Corporation.

# MARSMAN TRADING CORPORATION

offers efficient service and tested, quality products to the  
Philippine Mining Industry with complete stocks of

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## MINE AND MILL SUPPLIES

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Assay Equipment &  
Supplies  
Heavy Chemicals  
Bone Ash  
Borax Glass  
Litharge  
Pine Oil  
Xanthates  
Zinc Dust  
Dynamite, Caps, Fuse  
Drill Steel & Detach-  
able Bits  
Steel Balls  
Mine Cars  
Rails & Accessories  
Carbide Lamps  
Safety Hats  
Waterproof Clothing

**Carbide, Picks,  
Shovels, Wire  
Rope, Hose and  
Hose Couplings,  
Pipe and Fittings,  
Cement, Galvan-  
ized Iron, Gaso-  
line, Oils, Greas-  
es, and all other  
supplies required  
by the Mining In-  
dustry.**

Agitators  
Akins Classifiers  
Ball Mills  
Crushers  
Diesel Engines  
Flotation Machines  
Magnetic Pulleys  
Mine Hoists  
  
Pumps  
    Cameron  
    Wilfley  
  
Reagent Feeders  
Redwood Tanks  
Thickeners  
Streamline Oil Filters

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BAGUIO

MANILA

PARACALE

## PHILIPPINE MINING INFORMATION IN THE UNITED STATES

There is a deplorable lack of information in the United States about the true picture of conditions in the Philippines. It is not only the case in the lumber industry, the mining industry, the textile industry—but the Philippines as a country.

Such publicity as has appeared in papers and magazines is far short of what might be even termed, true and informative. Many of the articles which appear in the states, are permeated with misinformation. Some transient journalists, visiting the Philippines, have left the Islands with but scant knowledge of existing conditions—nevertheless their articles leave readers with the impression that a complete survey was made. Others have come to the Islands for a short stop; visiting a few of the main points of interest, seeing some of Manila, and sailing with the tide, without having made a mark on the surface of information which is here. These types of stories are the ones seen and read in the States.

The Chamber of Mines of the Phil-  
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## THE MARSMAN MAGAZINE

*Published each month for Marsman & Company, Inc., Marsman Building, Port Area, Manila, Philippines. P. O. Box 297*

*The magazine is sent to all stockholders of Marsman managed properties and to all staff members of the companies associated with the Marsman interests.*

**NOTE:** *All ore values, bullion figures, etc., given in this magazine are expressed in pesos based on gold at \$35.00 an ounce and silver at the market price. Figures given in monthly reports are based on mine assays, and may differ to some extent from final mint or smelter returns.*

**SUBSCRIPTION PRICE, ₱5 A YEAR.**

**RALPH KEELER, Editor and Business Manager**

**DEAN L. SCHEDLER, Acting Editor**



ippines, a body composed of representatives from some of the leading mines in the Islands, have taken a forward move in disseminating authentic information. The Chamber has prepared very comprehensive and understandable reports on the mining industry. The organization releases data to all companies or individuals who are interested in the industry. They recently sponsored a publication, the first of its kind ever published in the Philippines, which graphically presents to the world the mining industry from the time gold was first discovered by the Spaniards up to the present time.

To actively convey these points, a representative has left for the states to personally supervise a publicity campaign at the San Francisco International Exposition. Such a campaign is bound to be effective.

It will be the duty of this representative to bring to the American people, a realization of their great stakes, material and potential, in the Philippines. By the written word and the use of pictures, to bring to these people, who should have a deep interest in this Pacific outpost, the hidden treasures here in not only industry, but in good living such as Americans are accustomed to having. To bring to the investor, the desirable field here for investment.

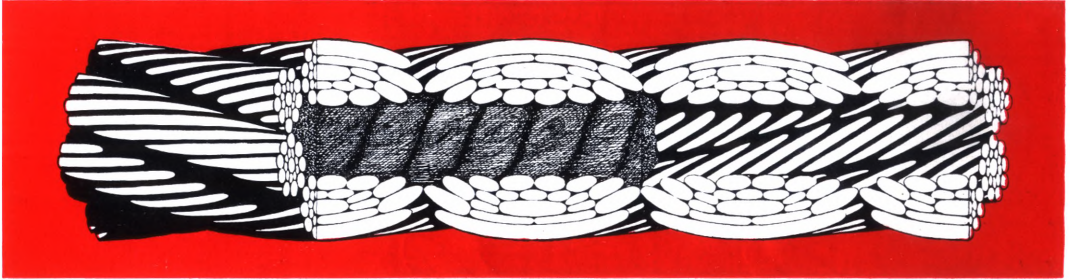
The Chamber of Mines are not following the usual procedure of printed documents, which are heavy with balance sheets, trade arrangements and tariffs, but are using an effective presentation in just plain facts and figures.

Few realize the industry that has sprung up in the Islands from the moun-

tains and the dense tropical forests. Some of the mines are small cities, with American engineers and their families living in company built homes. In place of the few primitive tools that once were used, the finest and most modern equipment that will give the maximum of efficiency is employed. From all over the world and with years of experience in the mining industry, men have gathered here to direct this work. From these we learn that the surface of mining is barely scratched.

At this critical time in relations between the States and the Philippines it is very fitting that the Chamber of Mines has seen to it that serviceable information will be made available in the States. The people of the western states have keenly followed the progress of mining in the Philippines. Most of the engineers engaged in the operation of the mines, either came from or have had much experience in these states. On the coast some of the companies have listed their issues for share dealing. Today, with the achievement that has been made, every feature of the industry should be shown to the millions who will come to the Fair. A remarkable feature indeed, is the fact that American capital has taken practically no part in the industry.

If the mineral section of the Philippine exhibit is properly prepared, it will furnish a splendid opportunity to demonstrate the fact that mining is on a sound basis here; that the operations are carefully and efficiently supervised; and that the ore reserves of the leading companies insure continued and profitable operation at full capacity for many years to come.



## EDWARDS PREFORMED FOR BETTER PERFORMANCE

Here is an Edwards PREformed rope, Seales Construction, right regular lay, hemp core — 6 strands of 19 wires each (9 large wires around 9 small wires around 1 heart wire) twisted to the right around the tough, elastic core. The wires in the strands twist to the left.

The rope has been sliced down the middle and the top half and part of the core removed. The individual wires twist around the helical strand from a crown position down next to the core and then up to the crown again. The cross sections of the strands show that on the surface the wires are laid in the direction of the rope and present a maximum wearing surface and that next to the core they travel diagonally across.

There are 114 wires in this particular construction — 114 parts to the machine,

for a wire rope is a real piece of machinery. Even in a slight bend, each wire undergoes a complete cycle of strain, stress and torsion.

There is no other equipment in which the many working parts are subject to such severe changes in operating conditions, that receives more abuse in the field, or that will deliver as much sheer strength in compact form with flexibility.

Each part must work with every other part and do its full share if the machine is to produce the greatest service of which it is capable.

EDWARDS ROPES are built with a full knowledge of these facts and EVERY WIRE in EVERY EDWARDS ROPE is designed to fit its place and need.



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