

MARSMAN MAGAZINE

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THE MARSMAN MAGAZINE

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MARSMAN GOLD OUTPUT CONTINUES UPWARD MOVE

Gold production for the month of October from the Marsman-managed mines was ₱1,742,572.38, another new high, as compared to ₱1,730,315.39 in September. Three of the mines established new individual high production records: United Paracale, Suyoc Consolidated and the Tuba Mine, each for the second consecutive month.

United Paracale produced ₱251,909.63 from the treatment of 9,980 tons of ore, a slight increase over September. Suyoc's output was ₱164,276.13, from 6,615 tons of ore milled, as compared to ₱159,067.54 from 6,531 tons in September. At the Tuba mine, the newest of the Marsman operations, ₱63,817.17 was produced from 1,777 tons of ore treated, an increase of around ₱13,000.

General operating conditions at all of the mines were good. There was no interference with normal routine at any of them.

COMPARATIVE PRODUCTION TABLE

	October			September			To Date 1939 10 months
	Tons	Per Ton	Value	Tons	Per Ton	Value	
Coco Grove (yds.)	332,135	₱ .746	₱247,870	306,170	₱ .98	₱301,884	₱1,668,416
Itogon	28,070	15.64	438,698	28,628	13.82	395,464	3,772,496
Twin Rivers	8,505	2.12	17,304	10,740	1.14	12,244	205,552
Tuba Mines	1,777	35.90	63,818	1,781	28.84	51,360	
Royal Paracale	3,195	7.88	25,148	3,168	6.30	19,946	239,798
San Mauricio	14,825	35.98	533,558	14,092	38.34	540,310	5,385,178
Suyoc Consolidated	6,615	24.84	164,276	6,531	24.36	159,066	1,324,128
United Paracale	9,980	25.24	251,910	9,240	27.06	250,034	2,410,994

	1 9 3 9 Ten-Month Period, January-October inclusive			1 9 3 8		
	Value	Tonnage	Recovery Per Ton	Value	Tonnage	Recovery Per Ton
Coco Grove (placer)	₱1,668,416	3,261,750 (cu. yds)	₱ .510 (per yd)	₱1,983,372	3,224,377	₱ .616
Itogon (tailings)	3,772,496	283,495	13.32	3,488,466	305,754	11.46
Twin Rivers (9 months)	205,552	102,103	2.04	operation intermittent started Feb. 1939		
Tuba Mines	322,380	13,657	23.74			
Royal Paracale	239,798	18,512	13.20			
San Mauricio	5,385,178	119,387	44.96	3,019,178	90,257	32.42
Suyoc Consolidated	1,324,128	63,990	20.78	1,393,750	64,287	21.72
United Paracale	2,410,994	93,691	25.70	2,146,600	94,025	22.94

MR. MARSMAN RETURNS FROM NETHERLANDS EAST INDIES



Shortly after KNILM plane landed in Manila, this picture was taken. Left to right: J. B. Stapler, Major A. Beckerleg, Mr. Marsman, Flight Master J. Schot, P. C. van Houten, manager, Eastern and Philippines Shipping Agencies, Ltd., Wittert van Hoogland, Flight Superintendent. Dr. Huender, Dutch Consul in Manila, is at the right with his back turned, while at the extreme right is J. M. E. Nikkels, manager, Nederlandsch Indische Handelsbank, N. V.

J. H. Marsman, head of the organization, returned to Manila from Sourabaya on Saturday, November 18, from an extended personal inspection of various properties under development in the Netherlands East Indies. Accompanied by Major A. Beckerleg and J. B. Stapler of the executive staff, and M. L. Francisco, his secretary, Mr. Marsman arrived by chartered air liner at the Nielson airport at 6 p. m., after an all-day trip which covered 1700 miles. Stops were made at Banjarmasin, Balikpapan, and Tarakan.

Mr. Marsman reported a pleasant trip in the KNILM plane, and expressed the wish that a connection be made between the Philippines and the N. E. I. so that regular air service could be maintained. An outlet to Europe through Singapore would thus be available, he told the Manila press on ar-

rival, while the Philippines could also develop considerable new business with Australia if such a contact could be made. The air trip to the N. E. I. from Manila takes but 9 hours, while by ship at least nine days is consumed.

The charter was made possible through the courtesy of the office of the American High Commissioner in Manila in securing a special permit from the State Department at Washington, and through KNILM officials here and in Sourabaya. The plane left on its return trip to the N. E. I. the day after arrival.

Mr. Marsman and his companions visited the Mangani plant in Sumatra, which is nearing completion, and also inspected a placer property at Atjeh, also in Sumatra, which has shown considerable promise.

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ITOGON MINING COMPANY

Another sharp increase in production marked the October operations at Ito-gon. During the month 28,068 tons of ore were treated, from which ₱438,-698.18 was recovered, an average of ₱15.63 per ton. The percentage of extraction was 88.49%.

Total development footage for the month was 2,895 feet, of which 983 feet were in ore, 591.5 feet of the capital and 391.5 feet of the operating advance.

The Itoe vein continues to fulfill its earlier promise. The drift west was advanced 89 feet through ore giving good values over a 4-foot width, as did the drift east 91 feet through ore over a similar width. The 321 crosscut south was advanced 157 feet; this advance is now awaiting the installation of a blower. The zero Frog level is being rehabilitated in an effort to pick up the Itoe vein at this horizon. In the meantime, work is being continued in the 300 level 21 drifts east and west.

In the Sesame, 23 vein, the 21 cross-cut drift east on the 50 level, cut the vein and the results of work done in this locality are good. On the 200 level advances both east and west showed good ore over a 4-foot width in both headings.

Operations on the 600 level of the Gilkison split gave average results, while excellent values were obtained generally on the 700, 800, and 875 levels.

On the 400 level, 31 vein, 30 drifts east and west were advanced through ore showing excellent assays over 5-foot widths. Work on the upper levels is being continued to the east in view of these results coupled with promising structure encountered on the 200 level.

Development footage in general was less than that of the previous month, but more ore of higher value was produced by development in October. The 23 winze, Sesame, was sunk 50 feet. Repair work on the Sesame shaft has progressed rapidly and should be completed in November.

SUYOC CONSOLIDATED MINING COMPANY

October's gold production at Suyoc Consolidated was a new monthly high: ₱164,276.13 from the treatment of 6,615 tons of ore. Recovery per ton was ₱24.-83, while extraction was 87.05%.

The development advance was 1,467 feet, of which 805 were capital and 662 operating. Of the capital footage, 187 feet were in ore, as were 115 feet of the operating advance.

The 22242 drift north was advanced 25 feet, of which 10 feet were on the vein. Dogholing will be started to check the walls after the drift has been advanced 20 feet more.

The 2201 drift north was advanced 66 feet. The counter drive is cutting the same formations cut on 2000 and 1800 level.

The 2244 winze was sunk 27 feet on the No. 2 vein. The vein is 3.6 feet wide and of average grade. The 2001 drift north was advanced 96 feet and was stopped to start the 2062 crosscut east. The crosscut will be driven to cut the No. 2 vein.

The 1862 winze was sunk 28 feet on the No. 2 vein, which is 4 feet wide and of better-than-average grade.

The new compressor building is 90% completed. The moving of the Palidan compressor was started October 29. After this compressor is running the power house compressor will be moved to the mine.

MOUNTAIN MINES, INC.

During October, 1,112 feet of drifting, crosscutting, and dogholing was performed. Of this advance, 243 feet was in massive low-grade non-commercial quartz, while 174 feet was in marginal ore. A total of 22,513 meters of trail was completed during the month.

The weather was excellent during October. Labor conditions, camp health and sanitation were satisfactory.

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DR. WILLIAM HENRY BROWN



The death of Dr. William Henry Brown early in November in Baltimore, Maryland, was a tragic shock to his many friends in Manila. One of the early pioneers who had a prominent part in laying the foundation of scientific research in the Philippines, Dr. Brown won world-wide fame for his scientific writings, devoted mostly to Philippine plants and forests.

He had many close friends in the Marsman organization. His wife, the former Mary Angus Blythe, is a niece of Mrs. Marsman. Dr. Brown himself became interested in the mining industry in recent years, and for some time served as director of the San Mauricio Mining Company, and of Marsman and Company, Inc.

Dr. Brown first came to the Philippines in 1911 as a plant physiologist for the bureau of science. He lived here continuously until early in 1933, when he left to accept an appointment as head of the botany department of John Hopkins University at Baltimore,

Maryland. He retired from the Philippine government in 1933.

Born in Richmond, Virginia, in 1884, he received his bachelor of science degree from Richmond College in 1906 and his Ph. D. from John Hopkins in 1910. Before coming to the Philippines, he was scientific assistant at the U. S. Laboratory at Beaufort, North Carolina; graduate assistant, fellow and later Bruce fellow of John Hopkins; engaged in botanical investigations in Jamaica in 1910; assistant of the Desert Laboratory of Carnegie Institution and of the Michigan Agricultural College.

A year after he received his doctor's degree from John Hopkins University, he came out as plant physiologist with the bureau of science, a position he filled until 1923. From 1915 to 1924 he was also associate professor, later professor and head of the botany department of the University of the Philippines. For two years, from 1918 to 1920 he was at the same time chief of the division of investigation of the bureau of forestry. He became director of science in 1924, continuing in this capacity until he retired on Nov. 30, 1933.

His scientific writings, devoted mostly to Philippine plants and forests, have been bound into 22 volumes. Possibly more than any one man he has contributed to the knowledge of Philippine flora. He has published numerous botanical articles in the Philippine Journal of Science, which he edited from 1924 until his retirement as director of science.

Among his better known works, many of which are used as textbooks throughout the Philippines and at the University of the Philippines, are *Vegetation of Philippine Mountains*, a three-volume work on *Minor Products of Philippine Forests*, *A textbook of Botany*, *Laboratory Manual of Botany*, *General Science for Philippine Schools*, *Health Through Knowledge and Habits*, *The Plant Kingdom* and *Philippine Diptercarp Forests*.

From his retirement until his depar-

ture for the United States early in 1938, he labored on a three-volume work entitled "Useful Plants of the Philippines," the first volume of which is now in press.

He became interested in mining during the period from 1936 to 1938, and for some time served as director of the San Mauricio Mining Company and of Marsman and Company, Inc. He was president of the Philippine Research Institute, and a member of a number of scientific organizations, including the Botanical Society of America, Ecological Society of America,

American Meteorological Society, Phi Gamma Delta, Gamma Alpha and Phi Beta Kappa. In Manila he was a member of University Club, Rotary Club, Manila Polo Club and the Elks Club.

Dr. Brown married in Manila on June 3, 1927, his wife being Mary Angus Blythe, a niece of Mrs. J. H. Marsman. He had two sons, William Angus, 11, and Charles Blythe, 12.

Dr. A. S. Arguelles, director of science and successor of Dr. Brown in the bureau, declared that "the unex-
(Please turn to page 17)

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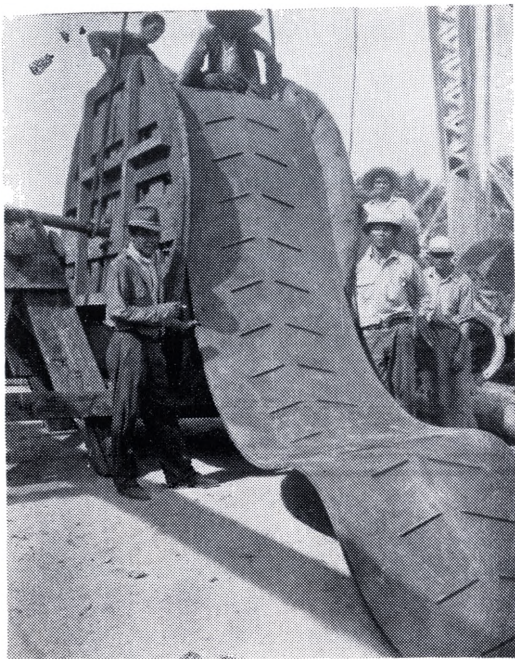
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COCO GROVE, INC.

The dredges at Coco Grove for October recovered a total of ₱247,861.61 from 332,135 cubic yards of gravel handled.

The dredge "Mary Angus" handled 167,210 cubic yards of gravel from which ₱174,494.85 was produced. This represents an increase of approximately ₱61,600 over the previous month. The total area dredged was 105,215 square feet to an average depth of 42.9 feet.

The dredge "Anne Petronella" recovered ₱73,366.76 from 164,925 cubic yards of gravel. This dredge covered 157,990 square feet to an average depth of 28.2 feet.

During October, the dredge "Mary Angus" operated adjacent to the Paracale Lighthouse, with satisfactory results, while the dredge "Anne Petronella" is now in the dredge pond, where she operated at the beginning of 1938. The "Anne Petronella" dredged pay gravel during the first of the month, after which she spent most of the balance of the month dredging for flotation only.

The mechanical performance of both dredges during October was satisfactory. Maintenance work on both dredges is constantly being kept up, and both are in satisfactory condition.

The cutter suction dredge "Rotterdam" continued building up the protecting sandbar. This sandbar has now been built up to such an extent that it furnishes an adequate protection for the floating equipment operating in the vicinity of the seawall and farther out towards the lighthouse.

Weather conditions were, in general, favorable. The northeast monsoon is gradually increasing in force, and the bay is occasionally rough.

UNITED PARACALE MINING CO.

Another monthly output record was made by United Paracale in October, the production being ₱251,909.63 from the treatment of 9,980 tons of ore. Average recovery was ₱25.242 per ton, while extraction was 88.60%.

Development advance was 703 feet of capital and 453 feet of operating, a total of 1,156 feet. Of the capital advance 22 feet were in ore, as were 165 feet of the operating footage.

The 401 footwall drift north, Baluarte 400 level, was advanced 9 feet along the vein 2.5 feet wide. The 119 north crosscut west, Longos 300 level, was advanced 50 feet cutting the vein 8 feet wide, 4 feet of which gave high assays.

The 1 drift south, Malaguit zero level, was advanced 52 feet along the vein, 22 feet of which were in ore with a width of 1.5 feet assaying better than average values.

The ventilation shaft, Baluarte surface, was sunk 82 feet in peridotite to a total depth of 122 feet. The counter shaft No. 3, Baluarte 525 level, was raised 26 feet above 525 level station for head room, and sunk 7 feet to a total depth of 19 feet.

All of the buildings at United Paracale have been painted. The work was under the supervision of Charles F. Fletcher.

North Camarines—United Paracale

The total development advance during the month was 123 feet, all of which was in capital development. The 529 footwall drift north, Sindicato level 87, was advanced 35 feet along the vein 12 inches wide, with good assays.

During the month 40 tons of United Paracale Mining Company's ore were milled by the North Camarines Gold Mining Company.

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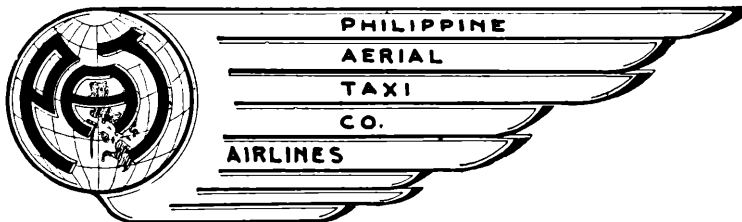
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		arrive Naga	8:40	a.m.

Manila-Paracale, one way P35, round trip P70
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NEW MARSMAN BUILDING NEARS COMPLETION



The new Marsman Building as it appears from the Manila Bay side.

Work on the new Marsman Building in the Port Area, Manila, is nearing completion, and the building itself is an impressive addition to the business skyline of the city.

A number of the units of the organization were moved early in November in their new homes, and are now located as follows:

Accounting Department, Marsman & Co., Inc., third floor near center section.

Purchasing Department, Marsman & Co., Inc., third floor rear right wing.

Marsman Magazine and Publicity Department, third floor right wing center.

Building Superintendent, third floor right wing center.

Cardinal Insurance Company, third floor right front corner.

Stock Transfer Department, Marsman & Co., Inc., third floor front center section.

Marsman Building Corporation, Engineering Department, third floor left wing center.

Engineering Department, Marsman & Co.

Boyle Bros. Diamond Drilling Department, third floor left wing rear.

It is expected that by the end of the month the executive offices will be moved to the fourth floor of the new building. In the meantime, Marsman Trading Corporation has taken over the whole first floor of the Boston Building (formerly the Marsman Building on Boston Street in the Port Area).

MARSMAN TRADING OBTAINS AGENCY FOR SINGAPORE RUBBER WORKS, LTD.

Marsman Trading Corporation has been appointed exclusive distributors in the Philippines for the Singapore Rubber Works, Ltd., a British company established in Singapore in 1898 and one of the first manufacturers of rubber goods in the East. The company has a large factory in Singapore; a new factory recently went into operation in Bandoeng, Java.

Singapore Rubber Works is well known throughout the Far East. It has branches in Irak, India, South Africa, Malaya, Dutch East Indies, Siam, China, and now the Philippines. The company has a broad background of experience in industrial and mechanical rubber goods manufacturing, maintaining a modern research laboratory with a staff of industrial chemists and

engineers.

The company manufactures a complete line of transmission, conveyor, and industrial belting; steam, air, water, and suction hose; everything in soft and hard moulded goods, crepe rubber, latex, and raw rubber. Besides these items, the company is a prominent manufacturer of gas masks and similar articles.

D. S. Wylie, who has had many years' experience in Far Eastern markets, was sent from the China branch of the company to Manila to establish the first branch office and to organize the market. During the short time that the company has been established in the Philippines it has become recognized for the excellent service it offers as well as for the quality of its products.

MARSMAN EXPLORATION COMPANY

During October the Twin Rivers plant treated 8,505 tons of tailings sand, from which ₱17,303 was recovered, an average recovery of ₱2.034. Extraction was 66.4%.

Excavation for wall and repairing dam on upper sand trap of Balatoc River was started. The installation of one of the Gold River 30-foot diameter thickeners in primary circuit was about 90% completed. The new ball mill head

for No. 2 mill has arrived and the installed is about 40% complete.

The tonnage for this month was cut to the point where one mill could grind 60-65% of feed to minus 200 mesh. This was done to determine the tons one mill could grind to this mesh, and the resulting tailing value from this grind. As a result of these operations, tailing values that were ₱.45 per ton lower in gold alone than those for the month of September.

MANGANI MINES

During October the development advance was 376.8 feet. Ore hoisted during the month amounted to 98.5 tons; there are now nearly 5,000 tons of ore on the stockpile.

The construction of the ball mill floor terraced retaining wall is going on and will be completed in a month. Other mill construction work is well under way. Work on the thickener foundations has been started.

By the middle of October 65% of the engineering building was completed. Foundation of the assay office is complete. The power plant at Brani is nearing completion.

The daily heavy rains are hampering outside work to some extent, which, of course, slow down the speed of construction. General conditions, however, are good.

SAN MAURICIO MINING COMPANY

During October San Mauricio treated 14,823 tons of ore from which ₱533,557.80 was produced, an average recovery of ₱35.99 per ton. Extraction was 94.23 %.

The development advance was 1,950 feet, 1,467 capital and 483 operating. Of the former, 209 feet were in ore, as were 290 feet of the operating advance.

In the San Mauricio mine, the north drift on the 200 level Spokane vein was advanced 89 feet in ore over a width of 19 inches. On the 200 level Contact 235 feet of raising was done, all in ore.

The 300 level crosscut east 2260 north (Spokane) was advanced 191 feet in very hard granite gneiss. The Spokane vein was cut; values indicated were high, over a width of 16 inches. The east drift on the 400 level 2250 vein was driven 79 feet in ore giving good assays with a width of 25 inches.

The main shaft was sunk 25 feet, while the Spokane shaft was sunk 63 feet.

In the Santa Ana mine, the north drift on the 300 level Santa Ana vein was driven 48 feet in low grade ore. The north drift on the 425 level Santa Ana vein was advanced 41 feet in ore, over a width of 34 inches. In places this vein was 15 feet wide.

All stopes throughout the property are in good shape. The stopes on the Tacoma No. 3 vein above the 300 level are heavy and require heavy timbering.

Work is going ahead on the 8,000-ton fuel oil tank. The new ore bin at Santa Ana was 50% completed, while the excavation for the dynamite magazine extension was completed.

ROYAL PARACALE MINES, INC.

Production at Royal Paracale for October was ₱25,147.86, from the treatment of 3,196 tons of ore, an average recovery of ₱7.87. Extraction was 81.48 %.

The development advance was 633 feet, of which 593 was capital and 40 operating. Of the capital advance 56 feet were in vein material as were 13 feet of the operating development. The required annual assessment work is being performed. A winze is being sunk on one vein and a crosscut tunnel will soon be started to intersect another promising outcrop.

TUBA MINES

Another monthly gold production record was established at Tuba Mines in October, with an output of ₱63,818 from 1,777 tons treated. The recovered value was ₱35.91 per ton, while extraction was 95 %.

Total development footage was 591.9, of which 484.9 were in capital and 107 were in operating development. Of the capital advance, 82.3 feet were in ore, as were 48 feet of the operating.

Promising results continue to feature work on the 150 and 250 levels. The entire 209 drift west to date on the 250 level has been fair grade ore. On the 350 level, drift 301 is becoming more encouraging.

Mill operations were satisfactory during the entire month. There was but little construction work done during the month, and operations in general proceeded normally.

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MANCHA TRAMMERS STAND UP UNDER SERVICE

The following communication from C. C. Austin, general manager of the Mancha Storage Battery Locomotive division of the Goodman Manufacturing Company, will be of considerable interest to mining men in the Philippines and in the Far East. Mancha "Little Trammers" are already well known in the Islands; they are in use at San Mauricio, Antamok Goldfields, Balatoc, North Camarines, and Mambualao Consolidated, and have proven their worth in rough going. Marsman Trading Corporation has the Philippine agency for this product.

Here is a report which was made by one of our representatives just after visiting the mine of Magma Copper Company, Superior, Arizona.

"Photographs taken on day shift, November 17, 1938.

Location: 2550 level, West drift.

Conditions: Temperature, 95°F; humidity 90%.

Trammer: Mancha, serial No. 992, installed Dec. 28, 1924.

"At present this Trammer is handling about 200 tons of waste per shift, over a distance varying from 200 to 800 feet. Trains consist of three to five cars per trip. Cars weigh about one ton empty and hold 2½ tons of waste rock. The mine operates on two shifts per day. Track is in very bad shape and grade somewhat uncertain. No attempt is

made to keep this track in good condition because this drift will soon be abandoned.

"The Chief Electrician informs me that this Trammer has never burned out an armature, nor broken the armature shaft, and that the original worms and gears are still in it. The only re-

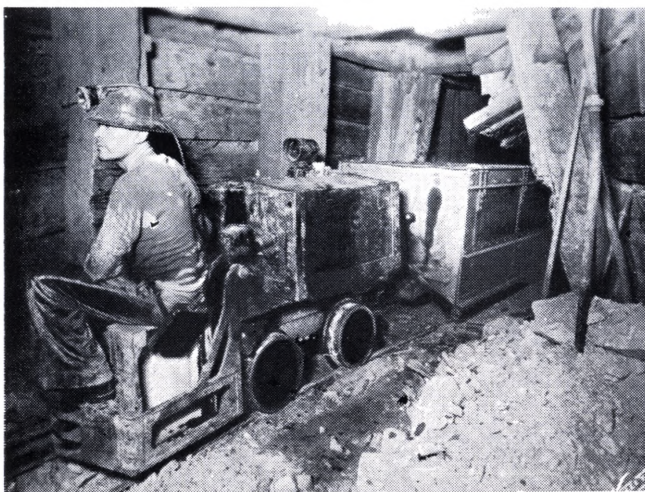
placement parts have been for the controller, new wheels, bearings and head light. The cab has been repaired several times.

"No figures on the cost of maintenance, nor a measure of the work

done in the past, are available. It has operated all over the mine, handling ore, waste, timber and supplies, also on the surface at times."

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Such an attempt might prove that Mancha's LITTLE TRAMMER had made this operation possible, which would be proof enough for any mining man. Will you tell us what a locomotive must do in your mine? In reply, we will quote prices, if a Mancha will pay.



WITH THE MARSMAN MEN

R. J. Veth, of the Padang office of Veth Brothers, accompanied by Mrs. Veth, visited Manila and the Paracale district in November. Veth Brothers, a very old and well established firm, has interest in Marsman Algemeene Exploratie Maatschappij, mining company engaged in exploration in the Netherlands East Indies, and Mr. Veth's trip to the Philippines was on business for the firm.

Mr. Veth was much impressed by the Marsman operations in the Paracale district, and stated that the contented and prosperous condition of the workers at the mines was particularly interesting. Mr. and Mrs. Veth left for Padang on November 24, on the Tjitjalengka.

Word was received in Manila in November, of the death in Chile, South America, of Warren Gilkison, formerly general superintendent of the Itogon Mining Company in Baguio. The cause of death was not reported. Mr. Gilkison left the Philippines last February to accept an executive position with a tin mine in Bolivia; unsettled conditions in that country induced him to resign a few weeks ago, and it is believed that he was on his way back to the United States at the time of his death.

He came to the Philippines in April 1936, as mine superintendent for Itogon, and was promoted to the general superintendency in November, 1936. He resigned early this year to go to Bolivia. Mrs. Gilkison and two children accompanied him to the United States, and are now in Denver, Colorado.

Mr. Gilkison was recognized as one of the outstanding mining men in the Philippines, and he and his family had a wide circle of friends in Baguio, Manila, and Paracale.

William V. Ward arrived in Manila early in November to become assistant to Mr. Dankwerth. Mr. Ward, whose home was in San Francisco, was on the staff of the American Trust Company there.

Mr. and Mrs. J. C. J. Dunn and two children returned October 30th from a six-month vacation in the States and Scotland. Mr. Dunn, formerly of Paracale, is now in the accounting department of the Manila office.

A. R. Olney left on November 3 for Sumatra to assist W. R. Mester at the Hoogenboezem Placer Project at Atjeh.

After spending several months in Burma, J. D. Ross, geologist of Marsman & Company is now at the Hoogenboezem Placer Project at Atjeh, Sumatra.

Dean Schedler, who was acting editor of the Marsman Magazine for the past six months, is now assistant sales manager of Sears International, and makes his headquarters at the Escolta store of that unit in Manila.

A. M. Dixon, who returned in October from a vacation trip around the world with Mrs. Dixon, is now stationed at San Mauricio.

DR. WILLIAM HENRY . . .

(Continued from page 7)

pected death of Dr. Brown is a shock to many of his colleagues in the Philippines." He said that when he saw Dr. Brown last January in Baltimore, he seemed to be in excellent health.

"With his death the Philippines lost one of the early pioneers who have

helped lay the foundation of scientific research in this country," Dr. Arguelles declared. "He was an excellent teacher as well as investigator and scientist. His untimely passing is a distinct loss to the Philippines and to the scientific world. His numerous scientific papers will long be remembered and be an inspiration to those who follow."

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EDITORIAL

Table Of Contents

OUTLOOK FOR MINING

Page

That the Philippine mining industry has but little to worry about in case the war in Europe is prolonged, is clearly brought out in an editorial in the October issue of the Engineering & Mining Journal of New York. Philippine mining is essentially gold mining; base metal mining while growing rapidly, is still comparatively insignificant. Further, most of our gold deposits are high grade in nature and consequently less affected by war conditions than marginal operations. Observations made about American mining apply to a considerable extent to Philippine mining. The E. & M. J. comments follow:

"Inevitably the war in Europe must affect American mining industry, even in the face of widespread determination, to which we ourselves adhere, to keep the United States out of the conflict. No nation lives wholly to itself in these times. The United States is no exception, and its metal-mining industry must feel the impact of world-wide conditions. What, then, is the outlook for the domestic non-ferrous metal business? We offer a few observations.

"In the first place, conditions in 1939 are so vastly different from those of 1914 as to make impossible any appraisal of today's outlook in terms of 1914. One common factor will be rising costs in the form of higher taxes, wages, and prices. But aside from that the old guideposts are useless.

(Please turn to next page)

Marsman Gold Output Continues Upward	1
Marsman Returns	2
Itogon Mining Company	4
Suyoc Consolidated Mining Company ...	4
Mountain Mines, Inc.	4
Obituary—Dr. W. H. Brown	6
Coco Grove, Inc.	9
United Paracale Mining Company	9
New Marsman Building	13
Marsman Trading Obtains Agency	14
Marsman Exploration (Twin Rivers)..	14
Mangani Mines	14
San Mauricio Mining Company	15
Royal Paracale Mines, Inc.	15
Tuba Mines	15
Mancha Trammers	16
With the Marsman Men	17
Marsman Trading Directory	18
Editorial—Outlook for Mining	19
A Real Loss	20

THE MARSMAN MAGAZINE

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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.

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RALPH KEELER, Editor and Business Manager

"The cost of producing an ounce of gold will probably rise as it did in 1915, resulting in the abandonment of some marginal producers, selective mining on the part of others, and reclassification of ore reserves. With the price of the metal fixed by the Government, higher costs must be absorbed by the producer, or offset, if possible, by improved technology. Silver production may be expected to increase as the outputs of copper and lead gradually rise. The higher price for silver established in July will work to the advantage of producers.

"These observations are predicated on

current business conditions in this country and take no account of modification of the neutrality law. If and when the latter is modified, England and France may find it necessary to supplement their metal fabricating facilities by purchasing finished metal goods in the United States. This would almost certainly be the case if their present facilities were seriously damaged or destroyed by bombardment. Cessation or prolongation of the European war would also affect the prospect. But leaving these uncertainties out of account, the near outlook for domestic mining is good."

A REAL LOSS

In the death of Dr. William Henry Brown the Philippines has lost one of its foremost scientists—a man whose knowledge of Philippine flora was unsurpassed and through whose writings this knowledge is lastingly recorded. But Doctor Brown was more than a scientist, more than a pioneer in his chosen field. He was a man of under-

standing, a man who brought to his work the rare combination of unusual talent and a broad perception.

All in the Marsman organization who knew Doctor Brown—and his friends were legion—came to admire and respect him. The heartfelt sympathies of all of us go out to his family.

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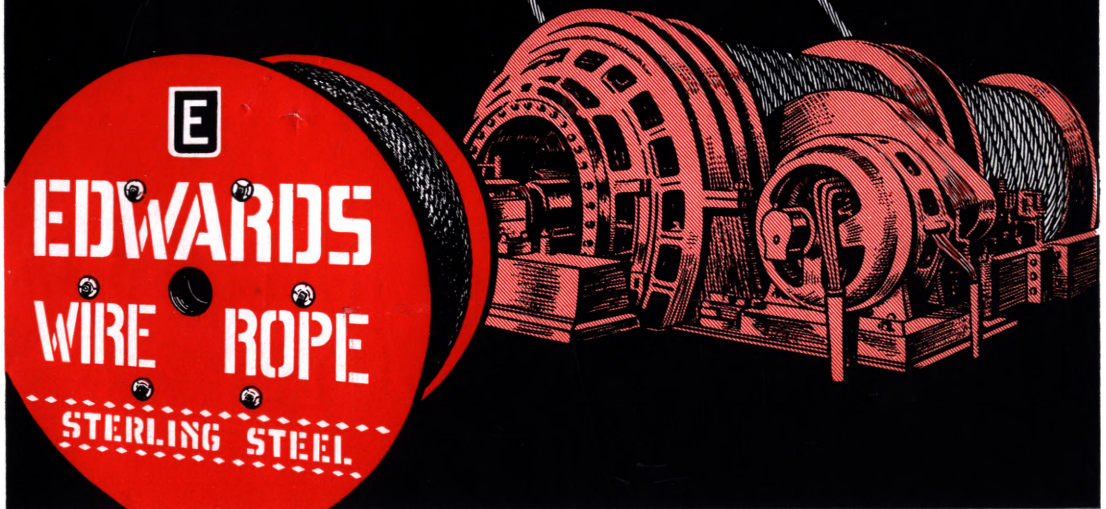
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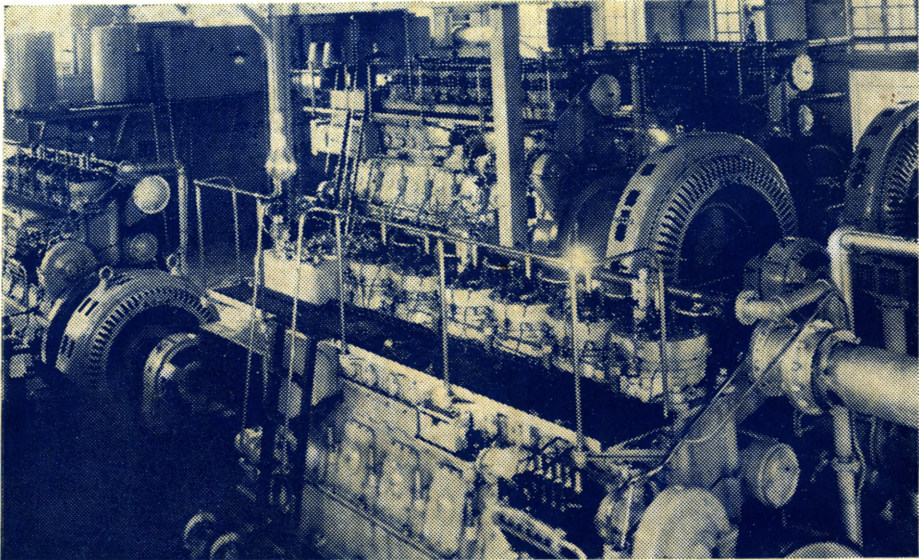
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