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THE COPPER HANDBOOK

A MANUAL OF THE COPPER INDUSTRY
OF THE WORLD

VOL. V

FOR THE YEAR 1904

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HORACE J. STEVENS

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1905

LEVIATHAN MINE.**CALIFORNIA.**

An idle property, 10 miles east of Markleeville, Alpine Co., Cal. Ore occurs as lenses, in porphyry, opened by tunnels of 400' and 700'.

LEXINGTON MINE.**MONTANA.**

Office and mine: care of F. August Heinze, lessee, Butte. Silver Bow Co., Mont. Property is owned by Georges de la Bouglise, of Paris, and has been worked in a small way, on upper levels only, for silver by Louis Girard, for several years past. Lands, 8 claims, lying west of the Cora and Rock Island mines of the United Copper Co. Main shaft, 1,465' deep, is being unwatered and retimbered, which work will require nearly till end of 1905. Is connected underground with the Alice and Moulton mines, which must be unwatered at the same time as the Lexington. Shaft is to have a large new wooden gallows-frame, and hoist good for 2,500' depth. Is held by Mr. Heinze under an 18-month bond and lease providing that production shall be applied on payment. Was worked many years for gold and silver values, but below 1,400' level there is a 30' vein with granitic gangue carrying stringers of sulphide ore averaging 3% to 4% copper.

LIBERTY COPPER MINING & MILLING CO.**MARYLAND.**

Mine office: Libertytown, Frederick Co., Md. Capitalized at \$2,000,000. Thos. E. Ludlam, president; M. C. Stafford, secretary. Owns the old Liberty mine, long idle, which has a variety of ores, including chalcocite, tenorite, tetrahedrite, bornite and malachite.

LIBERTY MINING & SMELTING CO.**ARIZONA.**

Mine office: Tucson, Pima Co., Ariz. Wm. R. Wemple, manager. Ores carry silver, lead and copper. Has gasoline power.

LIBIOLA COPPER MINING CO., LTD.**ITALY.**

Offices: 16, Leadenhall St., London, E. C., England. Mine office: Sestri Levante, Liguria, Italy. Kenneth Haweis James, chairman; W. S. Bartlett, secretary; Robt. H. Craven, mine manager. Reorganized 1888, with capital £252,000, shares £5 par. Has paid dividends of £4 2s. 6d. to close of 1904, dividends being 2s. 6d. annually, in 1901 and 1902 and 1s. interim in 1903 and 1904. Company has a heavy share interest in the Cruccuen silver-lead mine, Sardinia, now idle, and owns the Libiola copper mines in Liguria, northern Italy. Ore of latter is mainly low-grade chalcopyrite, occurring as veins in serpentine and diabase, the mines showing large bodies of ore. Property was discovered and worked by the Romans and was re-opened in 1867. Production in 1902 was 4,564 long tons of ore, averaging 4.75% copper, equivalent to 485,385 lbs. of refined copper, and 22,727 tons of iron pyrites averaging 47.5% sulphur and in 1903 was 4,219 long tons of ore averaging 5.971%, equal to 564,292 lbs. fine copper, and 23,575 tons iron pyrites averaging 47.5% sulphur. Ore reserves are about 100,000 tons of pyrites and 6,000 tons of copper ore. This property, while low in grade, has extensive ore bodies, and by careful management is made to yield fair profits.