

Commercial Feasibility of the Electric Smelting of Iron Ores in B.C.

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Studies

Fisher and Air Force Cambridge Research Laboratories U.

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Variation in limestone quantities was not reflected in the sulfur content of the pig irons, although the iron content of the pig iron rose as larger quantities of silica were slagged by increases of limestone. Naval Material Command, and United States Naval Academy. Silicon and sulfur were virtually removed by the treatments, but only half of the carbon and very little phosphorus were affected.

Studies

This procedure increased oxidation of the charge impurities to such an extent that the analysis of the poured metal was: Fe 99. Because of low slag volume and high metal fall, total power consumption for smelting a charge of concentrate was expected to be less than for smelting the same weight of charge made up of low-grade ore.

Gold Smelting & Metal Melting Equipment

Partial analyses of various reductants and limestone used in the experiments are presented in table 2.

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Radiation Laboratory University of California, Lawrence Radiation Laboratory, and U. Too little oxidation was attained under these conditions to refine the pig iron. The apparent trend of phosphorus in the metal was to rise somewhat with an increase of coal in the charges.

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Consumption of electric power per pound of pig iron is shown for corresponding basicity factor charges in table 8. Commission to investigate electro-thermic processes, Charles Vattier, Ernesto Stassano, Gustave Gin, Henri Harmet, Frank William Harbord, Carlton Emerson Brown, Eugene Haanel, and Canada.

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Oldright, University of Arizona, Utah Engineering Experiment Station. Limestones were obtained from local quarries producing agricultural limestone and from a high-purity eastern Missouri deposit.

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