

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

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Analysis of concentrates		
Metal	United Parcels	San Mauricio
Gold, ounces	5.30	7.65
Silver, ounces	15.80	10.70
Copper, percent	9.10	3.10
Zinc, percent	5.20	3.03
Iron, percent	33.50	33.76
Sulphur, percent	34.20	36.18
Insoluble, percent	1.80	22.70

Description: -

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

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Gold Smelting & Metal Melting Equipment

As the percentage of reductant in the charge was decreased, the iron content of the pig rose, and silicon content decreased preferentially to carbon. Laboratory-scale arc-furnace smelting experiments showed that power consumption was nearly inversely proportional to the grade of ore.

Studies

The insulating effect of slag is believed to have reduced the heat loss from low-grade charges; total power consumption per charge slightly favored the low-grade iron ore.

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Present operations are carried on by the Lone Star Steel Co. These represent some of the lowest grade iron ores employed commercially in steel production in the United States. Breland, and Mississippi State University.

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The second flux remained on the metal for 45 minutes at an average surface temperature of 1,570° C.

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