great structural strength consequently; formerly no very serious attempt was made commercially to make a coke suitable for iron blast furnace work.

"The matter has, however, recently been receiving attention from the Colliery management, and the coke recently made from the Lnwer Seam, Cumberland, shows from 1 to 1.3 per cent. Sulphur, 10.30 per cent. Ash, and has heat value of 13,360 B.T.U."— MINISTER OF MINES.

"The east coast of Vancouver Island has a good supply of coal. The Provincial Mineralogist of British Columbia reports the coke to contain from 15 to 16 per cent Ash, hut thinks that by a more careful separating of the Shale from the coal, the Ash could be reduced to about 12 per cent with very low phosphorus contents."—LINDE-MAN.

FLUXES.

"Large deposits of Limestone of very good quality exist on Texada and Vancouver Islands, British Columbia."--WHIT-TIER,

"The Limestones abundantly met with on the Coast are exceptionally pure and free from deleterious elements, and offer, therefore, a good flux. The supply may be said to be practically unlimited."—LINDEMAN.

"The question of Limestone fluxes can be satisfactorily disposed of in a few words.

"Limestones accompany the iron ore deposits and an adequate supply could be obtained with or adjacent to the iron ores.

"Beds of almost theoretically pure limestone running over 98 per cent carbonate of line, with no deleterious ingredients, are abundant on the salt water's edge and adjacent to Vancouver or Victoria,

"Three large deposits of very pure limestone, practically marble, occur on Texada Island, right on the water's edge."—MINIS-TER OF MINES.

Summary of the Cost of Producing One Long Ton of Pig Iron in the Northwest:

Iron Ore, 2 tons at \$2.50 per ton, per	
long ton pig iron\$	5.00
Coke, 1.25 tons at \$5.00 short ton, per	
tong ton pig iron	7.00
Lamestone, 1.200 pounds at \$1.00 long	
Maintain Maintain and Annual Maintain Maintain Annual Annual Maintain Annual Annual Maintain Annual Annual Annual Annual Annua	.54
Concept	.25
General expense and small items	.71
*Lahor	1,50

Total cost\$15.00

(WHITTIER (p. 112).

Assuming a furnace capacity of 150 tons per 24 hours, and a production of two tons of pig iron per man employed at \$3.50 per day, the cost of labor will be \$1.75 per ton pig iron. The following is the approximate cost. based on the above figures:

Ore (magnetite, roasted, 55 per cent	
iron), 1.8 tons at \$2.50 per ton\$	4,50
Coke 1.25 tons at \$6 per ton	7.50
Lime	0.50
Labor at \$3.50 per day	1.75
steam raising for blowing engine	0.15
liscellaneous materials, repairs, main-	
tenance, general expenses, and	
amortization (machinery and	
buildings) say	1.60
Total	6 00

LINDEMAN (p. 25).

*Present labor conditions on the Pacific Coast would no doubt increase the general cost of production by from ten to fifteen per cent.