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## MINING.

## THE COLLIERIES OF BRITISH NORTH AMERICA.

C. OCHILTREE MAUDONALD IN THE COLLIERY GUARDIAN.

(Concluded.)

CAPE BRETON.

General Mining Association of London.—From 1785 to 1827 275,000 tons of coal came to bank, and on January 1, 1827, the mine passed into the hands of the present owners, who operate.

The Sydney Mines.—The main seam, 5 ft. 4 in. thickness, is wrought by the pillar-and-bord system at an average dip of 1 in 12. It is entered by an 800 ft shaft (bords 16½ ft. wide) and lighted by Museler lamps and naked lights. It is ventilated by means of Guibal fans, and is wrought by some 600 persons, inclusive of bank labor, producing about 160,000 tons per annum. The mine is splendidly equipped with every requisite, and the produce is analysed as follows:—

	Slow coking.	Fast coking.
Moisture.....	.420	.420
Volatile combustible matter.....	34.962	37.110
Fixed carbon.....	59.993	57.815
Ash.....	4.625	4.635
	100.000	100.000
Sulphur.....	.95	.95

Bridgeport Colliery.—The Pholan seam, 6 ft. thick, is wrought by the pillar-and-bord system, at an average dip of 1 in 11. It is entered by a shaft 120 ft. deep; open lights and furnace ventilation being employed. It is operated by sixty persons, and in 1891 the production was 30,000 tons of coal. The drainage is natural.

Caledonia Coal Company, Glace Bay.—This company holds two square miles of coal land, operating a seam 7 ft. in thickness, with a dip of 1 in 10, and entered by a shaft 185 ft. deep, and a slope 1,600 ft. The seam is wrought by the pillar-and-bord system, and is ventilated by two brick funnels. Naked lights are used, and the machinery includes a 20 in. by 30 in. piston-inlet Ingersoll engine, feeding twelve coal-cutters; 400 persons are employed, and 150,000 tons of coal were produced in 1891, distributed among the markets of Nova Scotia, N. W. Brunswick, Prince Edward Island, Quebec, Newfoundland, United States, Miquelon, and others, of which the most important is Quebec. The following are the analyses:—

Volatile matter.....	33.00
Fixed carbon.....	57.37
Ash.....	9.63

Cubic feet of gas per ton, 9,700.

Gowrie Coal Company, Cow Bay.—This company holds an area of two square miles of coal land, and operates Gowrie Colliery.

Glace Bay Mining Company Limited.—This company holds 3½ miles of coal land and operates the colliery of Glace Bay, and holds the artificial harbor of Glace Bay, thereby extracting tolls from their contemporaries for shipping privileges. These areas include the "Hub" seam, 9 ft. thick, which is easily worked and of unsurpassed quality, and the Harbor seam, 6 ft. to 7 ft. thick, out of which the best gas coal of Cape Breton is produced (capacity, 10,000 cubic feet per ton). It is a locomotive and house coal, and analyses thus:—

Volatile matter.....	30.21
Fixed carbon.....	67.78
Ash.....	2.01
Sulphur.....	.90

The machinery is good, and the production was 108,600 tons in 1890, and 110,000 tons in 1891.

International Coal Company Limited.—This company holds five square miles of coal areas, and operates, at the International Colliery, at Bridgeport, the Harbor seam of coal, 6 ft. thick, dipping 1 in 12, by a 90 ft. shaft, and a 2,800 ft. incline from the base thereof. It is wrought upon by the pillar-and-wall system, 369 men and 50 boys being employed. Naked lights are used, and the ventilation is by means of fans. The analyses, as per seam of the Glace Bay Company, with varied percentages are:—

	Per cent.
Volatile matter.....Increase over Glace Bay seam	4.0
Fixed carbon.....Decrease from Do.....	4.86
Ash.....Increase over Do.....	0.98
Sulphur.....Do.....	1.26

Low Point, Barasois and Lingon.—This company operates the Ross seam, 6 ft. 7 in. thick, dip 25 degs. The analysis is as follows:—

	Slow Coking	Fast Coking
Moisture.....	.75	.75
Volatile combustible matter.....	26.85	32.13
Fixed Carbon.....	68.13	62.85
Ash.....	4.27	4.27

Gas capacity, 9,500 cubic feet per ton.

The seam is entered by a slope 1,740 ft. long, out of which 100,000 tons of coal are drawn per annum. It is wrought by the pillar-and-bord system, and some 272 men are employed. Museler lamps and naked lights are used.

Sydney and Louisburg Coal and Railway Company Reserve and Emory Mines.—The Reserve mine, situate in the Bridgeport basin, produces the magnificent Pholan seam, 8 ft. 3 in. thick, dipping 1 in 13. The compo-

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Kidney Regulator  
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TONIC. TRY IT.

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