

	PHALEN SEAM		HARBOR SEAM	
	at Dom. No. 2, at Caledonia.		at Reserve.	at International.
Vol. combustible matter	32.45	30.85	30.75	37.30
Fixed carbon.....	61.45	62.05	63.70	56.90
Sulphur.....	1.99	2.32	1.81	3.11
Ash.....	5.25	6.40	4.65	5 10
Moisture.....	.85	.70	.90	.80

The Phalen seam yields 11,012 cubic ft. of gas per long ton, having an average calorific power of 571.85 B. T. U. and an average illuminating power of 99 candles. and with a Welsbach burner, 54.34 candles. The total yield of coke is 74.68 per cent.; the ammonium sulphate per ton amounts to 32.91 lbs.; the tar, 12.89 gals.; and the benzole, 103 gals.

The company shows a section of the Phalen seam, from roof to pavement, taken from the Reserve Mine. The section is 7 ft. 9 in. in height, weighs 2½ tons, and shows the good quality of this seam as a whole.

2. COKE. Made from Dominion Coal Co.'s coal. at Dominion Iron & Steel Co.'s ovens, Sydney, C. B. Co., and used in the latter company's blast furnaces.

3. COAL BRIQUETTES. Dominion Coal Co., Glace Bay, C. B. Co.—The company formerly had a plant for making these briquettes from slack coal, but it is now disused.

4. BITUMINOUS COAL, VAR. PEACOCK COAL. Dominion Coal Co.'s Hub seam, Hub colliery, Glace Bay C. B. Co. Beautiful specimens of this iridescent coal have been taken from this mine.

5. BITUMINOUS COAL. Main seam, N. S. Steel & Coal Co.'s colliery, Sydney Mines, C. B. Co.—The Point Aconi and Sydney Mines areas of this company consist of 11,709 acres, which contained in 1871, according to the estimate of R. Brown, 155,000,000 tons of coal; and the Sydney Mines submarine areas of 3,200 acres, which contained in 1871, according to the same authority, 66,000,000 tons of coal. Since that date about 5,000,000 tons have been mined from these areas. The main seam at Sydney Mines is 5 ft. 4 in. thick. Besides its older, or No. 3 shaft, the company recently opened two new mines known as Sydney No. 1 and Sydney No. 2, but the last (No. 2) was closed in October, 1904. The workings now extend far beneath the sea, the cover there now being about 1,000 ft. of strata. The collieries are well equipped and the output for 1905 was 504,126 tons. The coal is excellent for house use and makes good coke. The following analyses will serve to indicate the character of the main seam :—