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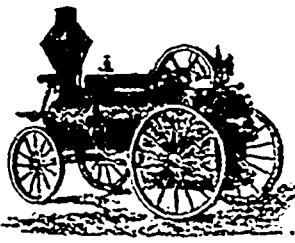
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For Catalogue C and prices.

Chemical Laboratory, Dalhousie College,
Halifax, N. S., July 31st. 1891.

Within the last few months I have purchased promiscuously, at RETAIL GROCERY STORES in this City, packages of

WOODILL'S GERMAN BAKING POWDER,

and have subjected same to Chemical Analysis. The samples were found to consist of Fresh, Wholesome Materials, properly proportioned. This Baking Powder is well suited for family use, and has been employed, when required, in my own house for many years

GEORGE LAWSON, Ph. D., L. J. D.
Fellow of the Institute of Chemistry of Great Britain and Ireland.

MINING.

ANALYSES OF NOVA SCOTIA COALS AND OTHER MINERALS.
By E. GILPIN, JR., A.M., F.G.S., INSPECTOR OF MINES, ETC.

[From the Transactions of the Nova Scotian Institute of Science, Session of 1890-91.]

(Continued.)

A similar mineral found at Lepreaux, near St. John, New Brunswick, was analysed by me some years ago, and proved to contain an amount of ash nearly equal to that of the Mabou sample. As the percentage of ash in an ordinary commercial Anthracite of fair quality should not exceed 10 per centum, it will be seen that these deposits are far below the standard.

Cumberland County Coals.

The following analyses are of samples of coal from seams opened out recently by Mr. E. Sharp and others, of Amherst, at Stanley, a short distance east of the Styles' mine. The samples were all from the crop, and more or less covered with clay.

4. Sample No. 1, marked from "North" Seam. Hard and compact, breaking with a cubical fracture; color black, with a bright lustre; no visible pyrites, and no mineral charcoal on deposition planes. Its composition was:

Moisture.....	2.35
Volatile combustible matter.....	35.86
Fixed carbon.....	53.86
Ash.....	8.43

100.00

Sulphur..... .52

Coke moderately compact by fast coking. Sample kindled readily, and burned with a long white flame, and gave a moderate amount of smoke.

5. Sample No. 2, marked "Bottle-Glass" Seam.

Coal fairly compact, hard, and breaking with a conchoidal fracture; color black and lustrous, with a few thin, dull layers; streak black. A few visible crystals of pyrites and a little mineral charcoal. The partings held a few films of rusted calcic carbonate. Composition:

Moisture.....	3.82
Volatile combustible matter.....	30.15
Fixed carbon.....	56.13
Ash.....	9.90

100.00

Sulphur..... .75

Coke slightly coherent by fast coking; sample ignited readily and burned with a moderate amount of smoke.

6. Sample No. 3, marked "Canneloid Coal from upper part of Eight feet Seam."

Coal hard and compact, with cubical fracture; color dull black, with brownish-black streak. Burned with clear white flame, and left an ash equal in bulk to the original fuel. It yielded:

Volatile matter.....	36.50
Ash.....	63.50

100.00

This composition represents a moderate amount of volatile combustible matter.

7. Sample No. 4, marked "Bench of Eight Feet Seam."

Coal fairly bright and compact, fracture uneven; a little mineral charcoal and a little visible pyrites. Composition:

Moisture.....	4.10
Volatile combustible matter.....	29.85
Fixed Carbon.....	59.13
Ash.....	6.92

100.00

Sulphur..... 1.25

Coal burned readily with good flame.

8. Joggins Main Seam.

Coal bright and lustrous, breaking with little dust and a cubical fracture. The planes hold a few films of calcspar and pyrites. A sample representing both benches yielded:

	Slow Coking.	Fast Coking.
Moisture.....	1.115	1.115
Volatile combustible matter.....	32.582	34.050
Fixed carbon.....	60.013	58.565
Ash.....	6.290	6.290

100.000

100.000

Sulphur..... 1.25

Some years ago, in a paper read before the Montreal meeting of the British Association for the advancement of Science, I gave the average composition of the coals of the Cumberland coal field as follows:

Moisture.....	1.46
Volatile combustible matter.....	33.69
Fixed carbon.....	59.35
Ash.....	5.50

100.00

From this it will be seen that the seams of coal represented by the analyses given in this paper compare favorably with the average.

(To be Continued.)