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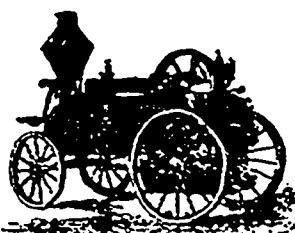
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German } Baking  
Powder }

### 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]

The following analyses, for the most part hitherto unpublished, may be interesting for comparison. They have been made by the writer, and may be considered as representing fair averages

The value of proximate analyses for commercial purposes has certain limits. By its means, in a properly averaged sample representing a bed of coal, the amount of moisture, of ash, and of sulphur can be determined. The estimations of the amounts of volatile matter, and of fixed carbon, vary with the time of heating, amount of heat, bulk of sample, etc., so that they can be regarded only as approximate. For the same reasons the gas values of coals are not satisfactorily determined in the laboratory by this method of analysis. The quality of the coke as left in the crucible after determination of volatile combustible matter is not always found to correspond with that obtained in practice.

The time and cost of ultimate analyses of coal have prevented their adoption for general commercial purposes, and their value may be based principally upon the view, that as they give the total percentage of carbon present in the coals, they are in accord with the idea that the ultimate evaporative power of a coal is in direct proportion to the amount of carbon it contains. The determinations of sulphur and ash by proximate analysis are equally valuable for ordinary purposes.

It is remarkable that more attention is not paid by purchasers to the composition and comparative values of the fuels offered to them. The slight differences in prices which are sometimes allowed for coals generally acknowledged to be of lower grade are in many cases disproportionate to the differences really existing. To manufacturers and other large consumers the study of this matter would prove a considerable item of profit in balancing cost sheets.

In every metallurgical business ores are bought by the percentage of metal they contain, limits are fixed for the impurities, and within these limits the amount to be deducted from the value of the metal varies.

Thus, two coals, showing respectively—

Combustible matter .....	92.00	92.00
Water.....	.50	2.50
Sulphur.....	.50	.50
Ash.....	7.00	5.00

will not have the same values as fuels, nor equal adaptability for many metallurgical purposes. Now, assuming the amount of combustible matter to be suited for the purposes of the purchaser, and he wishes to make gas for lighting, the first fuel is worth more to him than the second; while to the purchaser for domestic purposes the lessened amount of ash in the second coal would outweigh the amount of moisture he would have to purchase with it.

(To be Continued.)

Dr. Koch's cure for consumption went up like a rocket and came down like a stick; but Pullner's Emulsion still shines with undimmed lustre as the best remedy for wasting disease.

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