

I would take this opportunity to thank Messrs. Buist and Greenough for the above facts, and for other valuable information they have kindly given me.

The statements in the following memorandum, sent me by Mr. Jas. Hudson, Chief Manager of the General Mining Association, are partially a repetition of the above facts:—

“Extract from letter of W. W. Greenough, Esq., Treasurer of Boston Gas Light Company, December, 1869.

“We have made no recent analysis of gas made from Pietou coal, but the experience of several years working shews a uniform result:—with cherry-red heats, of 3½ cubic feet to the pound, of 15-candle gas; with a condensation by bromine of 6.75; a specific gravity of 4.75; and the *smallest per centage of sulphuretted compounds of any coal called caking*. Coke fair. Higher heats will give more gas, at the expense of the illuminating power of the gas, and the quality of the coke.”

McGREGOR COAL (ACADIA MINES).

McGregor coal. The following statements are from the published report of Mr. Jesse Hoyt, Manager of the Acadia Coal Company, 1866:—

“On the 9th. of February, 1865, one ton of this coal, a mixture of both benches, was tested in the works of the Manhattan Gas Company, New York, with the following results:—

Trial at New
York, U. S.

“One ton of 2,240 lbs. yielded 9,500 feet of 13.03-candle gas, and 41 bushels of coke, weighing 1,640 lbs. The coke is good; it contains rather much ash, and makes some clinker, but it burns well, keeping up a good strong fire. The coal seems to deserve a trial on a larger scale, as it is very readily carbonized, yielding a good volume of gas and coke.”

Analysis of the coal.

| | |
|----------------------|-------------|
| Volatile matter..... | 32.0 |
| Fixed carbon..... | 59.3 |
| Ash | 8.7 |
| | <hr/> 100.0 |

“A subsequent trial was made by the same company, but the result was not so favourable, as will appear by the following report:—

Second trial.

“One ton of 2,240 lbs. yielded 9,500 feet of 13.34-candle gas, and 38 bushels of coke, weighing 1,744 lbs. The coke is poor; it clinkers badly, and does not keep up the fire under the retorts. It requires 4 bushels of lime to purify a ton.”

Analysis of the coal.

| | |
|----------------------|-------------|
| Volatile matter..... | 26.8 |
| Fixed carbon..... | 57.9 |
| Ash..... | 15.3 |
| | <hr/> 100.0 |