

Mr. Hoyt remarks that he believes the unfavourable result in the latter trial, to have been caused wholly by the admixture with the coal, of foreign matter from the *shale-band* or fire-clay parting, between the first and second benches of the McGregor seam.*

DRUMMOND COAL.

Through the kindness of Mr. Dunn, Manager of the *Imperial Colonial Coal Company*, I procured a special gas-trial of three *Drummond coal* samples, from the three upper divisions of the *Acadia* seam, as worked at the *Drummond colliery*.

This trial was made under the superintendence of Mr. Alexander Thompson, Engineer and Manager of the *Pictou Gas Company*, at their works. The samples were of two barrels each, and believed to be fair *Special gas-trials* averages of the different benches. They were marked and numbered as follows:—

- Sample No. 1,—Top of seam, (2 feet 6 inches thick) left in the workings.
 " No. 2,—From the fireclay *holing*, 2 feet up to the smooth parting. (Fall coal)
 " No. 3,—First bench. Below the *holing*, and 4 feet thick.

The numbers of these samples correspond to the numbers of the divisions and analyses of this seam at the *Drummond colliery*, in Section I. of this Report.

The following is a copy of Mr. Thompson's Report:—

(Copy.)

GAS WORKS, PICTOU, N.S.
 December 4th, 1869.

Mr. Thompson's
 Report.

Edward Hartley, Esq.,
 Geological Survey,

Sir,—

At your request I have carefully examined the contents of six (6) barrels of coal from the *Drummond colliery*, marked respectively Nos., 1, 2, and 3, with the following results:—

- No. 1,—Yields at the rate of 7,000 cubic feet of gas and 32 bushels of coke to the ton.
 No. 2,— " " " 7,500 " " " 32 " " "
 No. 3,— " " " 8,500 " " " 36 " " "

The gas has an illuminating power of 15 candles. The volatile combustible matter is such in amount and character as to promise well in gas-making. The coke is firm and of good quality, well adapted for heating the retorts in gas-making, and can thus take the place of coal for that purpose.

I am, Sir,

Your obedient servant,

(Signed,)

ALEX. THOMPSON,
 Engineer and Manager.

Beside their use as steam and gas-producers, several *Pictou coals* are sold extensively for various other purposes, among which may be mentioned, re-heating iron, blacksmithing and domestic purposes. The cokes of one

* See Geological Report, Section 4, pp. 67-et seq., beds 71—73. See also page 96 of the same Report, and the first Section of this Report.