

the coal by the time it bottom of the retort in coke. At this stage rayed upon the coke for purpose; first to cool it, lly, to form water gas eated coke. For every ood gas coal passing e retorts about 13 or 14 ke is produced. The f gas which can be om a ton of coal is 0,000 cubic feet of a ue of 500.

**RESIDUALS.**  
 process of purifying the is driven off from the nd other residuals are hese residuals are re- a valuable part of the y.  
 required for the car- of the coal in the retort by producer furnaces, coke. The amount of ed to carbonise one ton pproximately 3½ cwt., so the 13 or 14 cwt. of coke y the carbonisation of a coal 3½ cwt. goes into er. The remaining 10 ke can be sold as a ye-product of the gas  
 an important bearing on ce of view between the n the one hand and the pparently as advised by th, on the other, as to eability of using turf, and timber for the of gas. The evidence at the Engineer was the use of turf, which y urged by the Manager ce of Mr. McGrath, the Similarly it was shown City Manager directed should be carbonised , 1943, again on the

coal which was Mr. McGrath's primary reason for suggesting timber) he should do so as a separate undertaking, and thus avoid bringing the wood gas, which has admittedly a very low caloric value, into the town supply. The Manager, however, insisted on the use of turf and timber, and so in the year ending 31st March, 1943, the quantity of coal carbonised was reduced to 4,040 tons, while the quantity of turf was only 2,682 tons, and the timber 220 tons, making a total of 6,942 tons of all materials, as against 9,543 tons of coal and turf in the year 1944, and 8,145 tons of gas coal alone in the year 1941.

**EXCESSIVE PROPORTION OF TURF AND TIMBER.**

The Inspector examined the Manager as to why the quantity of coal should drop in 1942/43 to half what he had in 1941/42. He stated that every effort was made to get coal in 1942/43. The Inspector made inquiries from the Department of Supplies and was informed that in the case of other Gas Works they continued to get their supplies to approximately the same extent in 1943 as in 1942. The Inspector is of opinion that the reason why the total quantity of material used in the year 1942/43 was so low is that the 2,682 tons of turf took up so much retort space that there was only room to use 4,040 tons of coal. It is obvious that if the quantity of coal be reduced by 4,900 tons as compared with the previous year, and that only 2,902 tons of turf and timber are used instead, the output of gas must be reduced. This reduction is apart altogether from the reduction in output which is also the consequence of the use of an excessive proportion of turf and timber as compared with coking coal for carbonisation.

(To be continued).

**THE IRISH NIGHTINGALE**

(To the Editor, "Limerick Leader.")

Dear Sir—Mr. Herbert's account of Catherine Hayes was most interesting, especially to lovers of opera, but he is wrong in stating that she was born at 4 Patrick Street. She was born at Sheep Street, St. Francis Abbey, her father being gardener to Viscount Pery. Professor Manuel Garcia said— "Her singing of 'Kathleen Mavourneen' was never equalled." She visited her native city once and was the guest of the Protestant Bishop, Knox.—Yours truly,

JAMES GLEESON.

**DEATHS.**

**BYRNES**—On January 21st, 1945, at his residence, 6 Newenham St., Limerick, Samuel Byrnes. Deeply regretted by his wife and relatives. R.I.P. Remains will be removed to St. Michael's Church this (Monday) evening at 7 o'clock. Funeral to Mount St. Lawrence Cemetery to-morrow (Tuesday) at 3 o'clock.

**CASEY**—On January 22nd, 1945, at his residence, 5 Roche's Street, Limerick, John J. Casey. Deeply regretted by his loving family. R.I.P. Remains will be removed to St. Michael's Church this (Monday) evening at 8 o'clock. Solemn Requiem Mass to-morrow (Tuesday) at 10.30. Funeral immediately after to Mount St. Lawrence Cemetery.

**ACKNOWLEDGMENT.**

Georgensen—The mother and brothers of the late Georginea Georgensen, Glentworth St., Limerick, wish to return sincere thanks to all those kind friends who sympathised with them; also to those who sent Mass cards and attended the funeral. Trusting this will be accepted by all in grateful acknowledgment.

cost of those a corded," he told h "ran into severa millions of pound clear, therefore, tha paratively early fut likely to see a hu boom in the Twenty ties. This develop of course, set in m other currents of a culated to stimulat in a variety of a thus to create fur ings for our people them.

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Building work, o only one form of er be speeded up war. Under sev heads practical sch for a considerable been under consid there is no reason that these will be ted without any delay. It must borne in mind tha direct and efficacie relieve poverty ar and to bring down to provide full, cont useful employment need work and are it.