

Glasgow
Sept 8th 57.

My dear Sir -

The present size of the
crank shaft forging is about
4th 6" long by 3 ft broad by
3 ft deep - It was cut off
in accordance with your wishes
and I have seen the pieces
cut off, which together make
up the portion shown by the
dotted lines below -



The sound part shown by
the firm lines has been used
as a stove to start the
new forging on, and to work
it by, till the opposite end

is complete - the forging will then be turned end for end, and the part of the original shaft being cut off, the second half will be built up over again - in fact they are making a new shaft altogether -

They have a second furnace nearly ready to put it into to keep it hot if the working furnace should require any repairs -

With reference to the date of completion as, from the manager down to the forger, they will not commit themselves in any way I can only give my own opinion - assuming a safe average

increase to be 10 cut per diem it would be forger in about seven weeks from this date

The slotting cannot be done under a fortnight, if they work night and day, so that the above estimate would give the middle of November as the date of its completion - and considering that from the nature of the work it is impossible to hurry it, with safety - I should think they would do very well if they get it finished by that time -

From examining the flaw, where it was cut off, it is impossible to account for it on any other supposition than that it was caused by the unequal expansion, consequent

Esq

of Leslie

on too rapid heating there
 was another defect in the left
 forging caused by making use
 of too heavy pieces - I believe
 they are now fully alive to
 the danger of such a proceeding
 and that no precautions will
 be lost sight of which can
 ensure the soundness of the
 present forging -

They have one more weld
 to complete the rudder at the
 base of the bend -

They are to have an answer
 tomorrow from the Caledonian
 Re 8^o - whether they can take it
 or not, if they do, it will be
 up by the end of the week, if
 not, it will go by the "Metropolita"
 on Sat. 20th September -

Gleeman

Dear Sir

Yours truly
Bradford Leslie

J. H. Brunel Esq