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is?

I am commencing by saying
that the Commission of the Admiralty
to you the undersigned copy of a letter
which has been received from
Staff Commander Lockwood in which
he reports that the schooner "Mada"
is making nearly an inch of water
an hour, and further he says the
Builders are able to account for it.
As the schooner has been recently
inspected by one of His Majesty's
officers in the course of the
to

The Secretary
to the Admiralty
Whitehall

Copy.

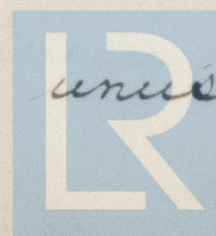
S. 1267-80

A. M. Surveying Sch: "Mada"
Off Inshore N. Devon
5th Feb 1880

Sir, In reply to your telegram of
yesterday I have the honour to report
as follows.

On arrival here from Barnstaple
on the 30th ult., it was found that
the schooner was making water,
and by 9 a.m. on the following
morning, I had ascertained that
it was increasing in the well
(15 feet abaft the mainmast) at the
rate of one inch per hour.

The attention of the Builder being
called to this fact, he stated that
in his opinion such a leak was
by no means unusual in a
The Hydrographer
to the Admiralty
Whitehall



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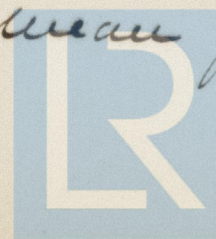
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new vessel, and further, that as the space in the vessel's bottom is $\frac{5}{6}$ timber, the leak was really not so serious as it appeared.

This explanation appearing to me unsatisfactory - the Builder took accurate soundings both forward and aft on the 3rd ulto, and also on the 2nd inst, the latter observations shewing the mean increase fore and aft to be at the rate of $\frac{3}{4}$ of an inch per hour.

On Tuesday 3rd Lloyd's Surveyor came on board at my request, and with Mr. Westacott took careful soundings as to the increase of water in the vessel, the result shewing the mean fore and aft



to be at the rate of $\frac{9}{16}$ of an inch
per hour.

I do not attribute the difference
between the former and the latter
observations, to the vessel having
taken up, but to the fact that in
the first case, the sounding began
with 11 inches aft, and $6\frac{1}{2}$ forward,
and in the 2nd case with $13\frac{1}{4}$ aft
and $7\frac{1}{4}$ forward. Lloyd's Surveyor
forwarded his report to the Committee
last night, but I am not
acquainted with the substance of
it - Mr Westacott having made
some remarks about the efficiency
of the $4\frac{1}{2}$ in Downton pump.
(introduced by me in place of
the pumps usually supplied)



which remarks he may repeat,
I requested the surveyor to note
accurately the quantity of water
pumped out in a given time, with
a view to meeting any statements
that may be made on the
subject - and from the results -
viz - water reduced from $23\frac{3}{4}$ in
to 16 ins in 45 minutes yesterday
morning, and from $20\frac{1}{2}$ ins to
 $7\frac{1}{2}$ ins last evening in the
same time, I think I am
justified in considering the
pump sufficiently large for the
vessel, and capable of throwing
more water than the pump
usually supplied to Merchant-



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vessels of this size - the estimated
cost of which is, according to
Mr. Westacott's own statement,
only £5.

In conclusion I may add that
from 5 P.M. last evening to 7 am
this morning, the water has
increased in the well aft from
7½ ins to 20½ ins, and I am of
opinion that up to the present
I can detect no signs of the
vessel taking up.

I enclose a copy of my
telegram of yesterday
and have to

(Signed) W. E. Archdeacon

Staff Commander in charge of
Survey.



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