

18. 12. 13

STERN FRAME & RUDDER

STEEL SCREW GRAB HOPPER BARGE

SCALE $\frac{3}{4}'' = 1 \text{ FOOT}$

TO CLASS LLOYDS 100 A.I. HOPPER BARGE

OF BEST FORGED IRON

FORMULA

$$A = 25.32 \text{ SQUARE FEET}$$

$D = 1.747 \text{ FEET}$

$$A \times D = 44.23$$

SPEED UNDER 10 KNOTS.

RADIUS OF QUADRANT $3\frac{1}{2}"$

DEPTH OF BOSS $3\frac{1}{2}$ " OUTSIDE DIA. $6\frac{1}{4}$ "

STEERING CHAIN $7/16$ DIA. RODS $9/16$ " DIA

P. OF STOPPER GUDGEON A

SCALE 3" = 1 FOOT

THIS PART OF RUDDER ARM TO BE CAREFULLY CUT OR CHIPPED
TO ALLOW RUDDER TO GO OVER TO 42° AND ALSO TO HAVE A BEARING
OF 2 3/4" AGAINST STOPPER

PLAN OF GUDGEONS B.C. & D.

PINTLES TO BE CHAMPHORED THUS:-

NOTE:- DIAMETER OF MAIN PIECE INCREASED $\frac{3}{8}$ " IN WAY OF ARMS

DRILLING

STERN FRAME DRILLED FOR 1" RIVETS SPACED 5 DIAM'S APART (CENTRES)

RÜPPER " " 1" " " ~~5~~⁷² " " (")

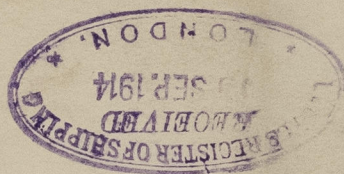
J. CONSTANT
11 BILLITER SQ

LONDON E.C.

don F.C.

009544-009556-0082

"Dredget No 4"
Copper. Barge no. 169.
Stemframe and Rudder.
Rotterdam report.
9457.



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John Lankin
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