

SURVEY ON STEAM BARQUE "BLOODHOUND," NOW THE "DISCOVERY."

No. 20.

SIR,

H.M.S. "Aurora," Greenock,
25th November 1874.

WE have the honour to report that in obedience to your order we have been on board the steam vessel "Bloodhound," and to the best of our ability have held a strict and careful survey, and we beg to report that, in our opinion, the barque is well built and strong.

As we are not acquainted with the requirements necessary for a vessel for service in the Arctic regions, we append a general description of the barque, together with what we have seen as regards her power to withstand the coming into contact with and being pressed with ice.

We have, &c.

(Signed) JAMES HURRY,
 Navigating Lieutenant.
 " JOHN P. ALLEN,
 Chief Engineer.
 " W. J. SMITH,
 Carpenter, 2d Class.

Approved.

H.M.S. "Aurora," Greenock,
25th November 1874.

Submitted for the information of the Lords Commissioners of the Admiralty, together with the report of the surveying officers.

(Signed) J. P. COODE,
 District Captain.

SURVEY ON STEAM BARQUE "BLOODHOUND."

Vessel built in 1873 by Stephen and Son, of Dundee.

Length over all, 166 feet.

Main breadth outside, 29 feet $\frac{1}{10}$.

Depth of hold, 18 feet $\frac{3}{8}$.

Length of engine room, 13 feet $\frac{5}{10}$.

Two decks.

Build, carvel.

Frame work, wood; oak, English.

Height 'tween decks, 6 feet.

Tonnage—

Under tonnage deck	-	-	528.41
„ top-gallant forecastle	-	-	27.86

Deduct engine room space	-	-	178.01
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Register tonnage	-	-	578.26
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Vessel iron-kneed and fastened, sheathed with 3-inch Australian bark wood, from 3 feet below covering board to the keel.

The bows are plated with iron plates, $\frac{1}{2}$ -inch thick, extending from the forepart of the stem to about 4 feet aft, and from the knight heads to the fore foot.

Top sides—oak, English.

Forepart of vessel, trussed with oak, 12 in. \times 13 in., and 14 ins. apart.

Afterpart of vessel built and fastened in the ordinary way.

Main deck beams—oak, 12 in. \times 12 in. 4 feet apart.

Upper deck beams—oak, 10 in. \times 9 $\frac{3}{4}$ in. 4 feet apart.

Deck planking, pine, 3-in. thick.

Covering board, pine, 1 ft. 6 in. \times 11 in.

Stantions, oak, 7 in. \times 7 in. 4 feet apart.

Outside planking, oak.

Size of main hatchway, 8 ft. \times 6 ft. 3 ins.

„ fore „ 5 „ \times 3 „ 5 „

Deep-load line, 17 feet.

Rigging, wire.