

No. 3448 Survey held at Arbroath Date 30 January 1868
on the Schooner "Hornet" Master Mer. Hay
Tonnage under tonnage deck 96.85 Built at Arbroath When built 1867-68 Launched 28/1/68
Ditto of poop or spar deck By whom built Arbroath Ship Co. Owners Hay & Co
Total tonnage 96.85 Port belonging to Nickel & Co Destined Voyage Castley
Surveyed while Building, Afloat, or in Dry Dock Building & afloat

Length as per section 39 ..	Feet. <u>79.5</u>	Inches. <u>10 1/2</u>	Extreme Breadth Outside	Feet. <u>19</u>	Inches. <u>10 1/4</u>	Depth of Hold	Feet. <u>10</u>	Inches. <u>0 1/4</u>	Number of Decks <u>one</u>
Length of Keel	<u>79.5</u>								
Scantlings of Timber.									
TIMBER AND SPACE	<u>20"</u>								
Floors .. <u>Single</u>	<u>8"</u>	<u>8 1/2"</u>	<u>8"</u>	<u>7 1/2"</u>	<u>6 1/2"</u>				
1st Foothooks	<u>7 1/2"</u>	<u>8"</u>	<u>11 1/4"</u>	<u>7"</u>	<u>6 1/2"</u>				
Ditto	<u>6 1/2"</u>	<u>7 1/2"</u>	<u>11 1/4"</u>	<u>6 1/2"</u>	<u>6 1/2"</u>				
Ditto	<u>6"</u>	<u>7"</u>	<u>11 1/4"</u>	<u>6"</u>	<u>6 1/2"</u>				
op Timbers	<u>6"</u>	<u>7"</u>	<u>11 1/4"</u>	<u>6"</u>	<u>6 1/2"</u>				
Deck Beams, length amidships	<u>18.5</u>								
old Beams, length amidships	<u>9 1/2"</u>	<u>13 1/2"</u>	<u>9"</u>	<u>9"</u>					
Keel	<u>5.0</u>	<u>14"</u>	<u>4.3</u>	<u>10"</u>	<u>10"</u>				
Arms of Ditto	<u>10"</u>	<u>14"</u>	<u>4.9</u>	<u>10"</u>	<u>10"</u>				
Arms of Ditto	<u>4.11 1/2"</u>		<u>4.9</u>						
Outside Plank.									
Garboard Strakes ..	<u>3 1/2"</u>	<u>2 1/4"</u>							
Garboard to Bilge ..	<u>2 1/2"</u>	<u>5"</u>							
Bilge Planks ..	<u>3"</u>	<u>5"</u>							
Bilge to Wales ..	<u>2 1/2"</u>	<u>5"</u>							
Wales ..	<u>3 1/2"</u>	<u>30 x 3 1/2"</u>							
Topsides ..	<u>3 1/2"</u>	<u>2 1/2"</u>							
Sheer Strakes	<u>2 1/2"</u>	<u>5"</u>							
Plank Sheers	<u>2 1/2"</u>	<u>2 1/4"</u>							
Water-Ways ..	<u>8 x 6 1/2"</u>	<u>6 3/4"</u>							
Upper Deck ..	<u>4 1/2"</u>	<u>4 1/2"</u>							
Lower Deck ..	<u>5 1/2 x 2 1/2"</u>	<u>2 1/2"</u>							
Ditto, faying surface against Timbers ..									
Upper Deck ..									

Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, or Iron; also of Treenails.									
el-Knee, & Deadwood abaft	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule	el-Knee, & Deadwood abaft	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule	Hold Beam	Waterway ..
Arms of Keel, No. <u>6</u>	<u>3/4"</u>	<u>1 1/16"</u>	<u>15/16"</u>	Arms of Keel, No. <u>6</u>	<u>3/4"</u>	<u>1 1/16"</u>	<u>15/16"</u>	Bolts in	Knees
elson Bolts through Keel	<u>7/8"</u>	<u>1 1/16"</u>	<u>13/16"</u>	elson Bolts through Keel	<u>7/8"</u>	<u>1 1/16"</u>	<u>13/16"</u>	Deck Beam	Waterway ..
at each Floor	<u>7/8"</u>	<u>1 1/16"</u>	<u>13/16"</u>	at each Floor	<u>7/8"</u>	<u>1 1/16"</u>	<u>13/16"</u>	Bolts in	Knees
ts thro' Heels of Timbers	<u>1 1/16"</u>	<u>1 1/16"</u>	<u>1 1/16"</u>	ts thro' Heels of Timbers	<u>1 1/16"</u>	<u>1 1/16"</u>	<u>1 1/16"</u>	Nails or Bolts in Flat of Deck	Gal. <u>5"</u>
gainst Deadwood	<u>1 1/16"</u>	<u>1 1/16"</u>	<u>1 1/16"</u>	gainst Deadwood	<u>1 1/16"</u>	<u>1 1/16"</u>	<u>1 1/16"</u>	Treenails	Inches <u>1"</u>

Numbering.—The Space between the Floor Timbers and Lower Foothooks is Close Inches. The Space between the Top-Timbers is 3 1/4 Inches.
Floors consist of German Oak The First Foothooks of German Oak
Second Foothooks of Ger. Oak The Third Foothooks and Top Timbers of German Oak
Shifts of the First and Second Foothooks are not less than 2 1/2 Feet. N. B. When less than prescribed by the Rule, state how many.
rest of the Shifts of the Frame are

Frame is well squared from First Foothook Heads upwards, and fairly free from sap, and from thence downwards, the frame is square
entire Frames are each bolted together to the Gunwale. N. B. If not, state how bolted. all built in frame
Butts of the Timbers are close together; their thickness not less than 1 1/4 up of the entire moulding at that place.
Frame is Close chocked with a Butt at each end of the chock. The Main piece of Rudder is Ger. Oak of Windlass is Red Oak
Keel is Amer. Elm The Main Keelson is Ger. Oak and free from all defects.
Stem, and Stern Post of German Oak The Transoms, Knight Heads, Hawse Timbers,
and Aprons of Ger. Oak Deadwood, of Ger. Oak and are free from all defects.
Deck and Hold Beams of Ger. Oak The Breasthooks of Ger. Oak The Knees of Ger. Oak

Planking Outside.—From the Keel to the Height defined in Note to Table A, the Plank is Red Pine & Amer. Elm
the above named Height to the Light Water Mark
the Light Water Mark to the Wales Red Pine
Vales and Black-strakes are Ger. Oak The Topsides & Sheer-strakes Red Pine & Ger. Oak
Spirketting and Plank-sheers Ger. Oak The Water-ways { Upper Deck Red Pine & Ger. Oak
Lower Deck Round bow
Decks Yellow Pine State of Good
Shifts of the Planking are not less than 5 Feet — Inches. N. B. If less than prescribed by the Rule, state whether general
partial, and if partial, in what part of the Ship. The Planking is wrought True between, and without step-butting.

Planking Inside.—The Limber-strakes and Bilge-strakes are Red Pine
The Ceiling, Lower Hold, and between Decks Red Pine
Fastenings.—To Hold Beams Breast Beams of Cabin & Forecastle span Red Pine

Deck Beams Staple Lod. Iron Knees between beams & spar Hang Iron Knees Riders 3 x 1
Carried down below Bilge Strakes also 2 space for 1 off each side double Lod. Red Oak
also inner wall edge bolted into main Waterway
Number of Breasthooks 3 for & 3 aft Pointers 4 for at deck Hook Crutches —
Butt End Bolts are of Yell. Met. in the Bottom. Bolts in each Butt End one through and clenched.
Bilge and Limber Strakes Yell. Met. bolted through and clenched. Treenails of Ger. Oak How Made Engine turned
Thickstuff over Double Floors — bolted through and clenched. General Quality of Workmanship Good
We certify that the above is a correct description of the several particulars therein given
Builder's Signature William Gough Manager Surveyor's Signature Thomas Alexander
Arbroath Ship Co. Limited DUN106-0146

Her Masts, Yards, &c. are in Good condition, and sufficient in size and length.

Lloyd's Tyn Public Test R Russell sup

Gatestead public Test J Huntley sup

She has SAILS.		CABLES, &c.		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
No.	<u>1</u>	<u>Fore Sails,</u>	<u>1</u>	<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>431</u>	<u>5.0.0</u>	<u>7.7.20</u>	<u>4.0.0</u>	<u>6 1/2 tons</u>
		<u>Fore Top Sails,</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>Fore Topmast Stay Sails,</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>Main Sails, & Topmast</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>Main Top Sails,</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>and others in all 15</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>pieces</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>
		<u>All of Good quality.</u>		<u>23.68</u>	<u>10</u>	<u>13 1/2 tons</u>	<u>13 1/6</u>	<u>11 9/10</u>	<u>26.67 ABS MT</u>	<u>432</u>	<u>4.1.21</u>	<u>6.16.10</u>	<u>4.0.0</u>	<u>5</u>

Her Standing and Running Rigging Mar. Hemp sufficient in size and in quality.

She has one 15 1/2 ft Long Boat and Good Rudder Good Pumps 2 metal

The present state of the Windlass is Good Capstan Good

Order for Special Survey,

No. _____ Date _____

Order for Ordinary Survey,

No. 126 Date 20/9/67

No 5 in Bulcher's Yard
General Remarks

DATES of Surveys

held while building,

as per Section 35.

1st. When the Frame is completed 20 Sept. 1867

2nd. When the Beams are put in, &c. 4th Nov

3rd. { When completed, and before the } 10 January 68
plank be painted or payed }

This vessel is flesh decked with square stern formed without transoms the stern & counter timbers falling in against cant timbers and combined together otherwise by the planking Hooks Beams & knees &c

Present condition of Caulking of Bottom, efficient Deck, efficient and Waterways efficient

If Sheathed, Doubled, Felted, or Coppered Single bottom When last done _____

I am of opinion this Vessel should be Classed Y A1

The Amount of the Fee.....£ 1 : " : " is received by me,

Special£ 3 : 3 : 0

Certificate£ 2 : 2 : 0

Committee's Minute 4th February 1868

Character assigned A - for Team

To have fee 100/-
21/2/68



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