

## COMPOSITE SHIP.

No. 6703 Survey held at

Limerland

Date

September 3<sup>rd</sup> 1869

1869

on the

Bk. "Borean"

Master

J. W. Grille

Tonnage under tonnage deck

505.54

Ditto of quarter deck

23.01

Ditto of poop, forecabin, or  
other erections on upper deck

13.44

Ditto of spar deck

Ditto of engine room

Gross tonnage, ~~by~~

541.99

Crew space

15.66

Total Register tonnage,

526.33

as cut on beam

Built at

Limerland

When built

1869

Launched Aug 24/69

By whom built

Wm. Pile &amp; Co

Owners

J. B. Walker

Port belonging to

London

Destined Voyage

Vancouver

If Surveyed while Building, Afloat, or in Dry Dock

While Building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	N <sup>o</sup> . of Decks	Inches required by Rule.
160	0	0	30	0	0	17	6	0	1	7 1/2	One	10
(Dimensions of Ship per Register, length 160.5 breadth 30.2 depth 17.2)												
Keel, siding and moulding	13 1/2 x 15		27 x 1 1/6		16 1/2 x 13 1/2		18 1/2 x 1 1/6		13 1/2 x 15		12 x 2 1/6	
" breadth and thickness	27 x 1 1/6		16 1/2 x 13 1/2		18 1/2 x 1 1/6		13 1/2 x 15		12 x 2 1/6		10	
" and moulding	16 1/2 x 13 1/2		18 1/2 x 1 1/6		13 1/2 x 15		12 x 2 1/6		10		5	
" od plate, breadth and thickness	18 1/2 x 1 1/6		13 1/2 x 15		12 x 2 1/6		10		5		4	
" siding and moulding	13 1/2 x 15		12 x 2 1/6		10		5		4		4	
" headwood plate, breadth and thickness	12 x 2 1/6		10		5		4		4		4	
" of Frames from moulding edge to	10		5		4		4		4		4	
" dling edge, all fore and aft	10		5		4		4		4		4	
Frames, Size of Angle Iron, single or double	3 1/4		3 1/2		7		3 1/2		3 1/4		7	
" Reversed Iron, if to every frame	2 3/4		2 3/4		6		3		2 1/2		6	
" doors, depth and thickness of Floor Plate at	19 1/2		8		19 3/4		8		8		8	
" Ditto ditto at Bilge Keelson	7 1/2		6		3		2 1/2		6		6	
" Size of Reversed Angle Iron, and	2 3/4		2 3/4		6		3		2 1/2		6	
" N <sup>o</sup> . at top of Floor Plate	7 1/2		8		1		7 1/2		8		8	
" If of Wood, siding & mould'g, at Mid. line	2 1/2		2 1/2		5		2 3/4		2 1/2		5	
" Beams, Deck (N <sup>o</sup> . 35) double Angle Iron,	4 1/2		9		8 1/2		9		8 1/2		9	
" Plate, Tee, or Bulb Iron	3		3		6		3		3		6	
" " double or single Angle Iron,	4 1/2		9		8 1/2		9		8 1/2		9	
" on edge	3		3		6		3		3		6	
" " average space between	4 1/2		9		8 1/2		9		8 1/2		9	
" Hold, or Lower Deck (N <sup>o</sup> . 31)	3		3		6		3		3		6	
" double Angle, Tee, Plate, or Bulb Iron	4 1/2		9		8 1/2		9		8 1/2		9	
" " double or single Angle Iron	3		3		6		3		3		6	
" on edge	4 1/2		9		8 1/2		9		8 1/2		9	
" " average space between	4 1/2		9		8 1/2		9		8 1/2		9	
" Keelson, single or double plate, box, or intercostal	24		9		2 3/4		9		2 3/4		9	
" Size of Plates	8 1/2		9		8 1/2		9		8 1/2		9	
" Size of Angle Irons	4		3 1/2		7		3 1/2		7		3 1/2	
" If of Wood, siding and moulding	8 1/2		9		8 1/2		9		8 1/2		9	
" Side, single or double plate, box, or intercostal	3		3 1/2		7		3 1/2		7		3 1/2	
" Bilge (N <sup>o</sup> . ) at each Bilge,	4		3 1/2		7		3 1/2		7		3 1/2	
" single or double plate or box	8 1/2		9		8 1/2		9		8 1/2		9	
" Keel consists of	E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal	
" Inner Stern Post	Seal		Seal		Seal		Seal		Seal		Seal	
" Deadwood	Seal		Seal		Seal		Seal		Seal		Seal	
" Knight-heads, and Hawse Timbers	E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal		E. I. Seal	
" The Floors	Iron		Wood		Frames		Iron		and Ceiling upon them		-	
" Beams	Iron		and Keelsons		Iron		and are		Apply		free from all defects.	

Planking Outside.—From the Keel to the Height of one-fifth the depth of Hold as per Table I

Ditto ditto

from Keel to the Height of two-fifths the depth of Hold

ditto

Ditto ditto

from two-fifths the depth of Hold to Gunwale

E. I. Seal

The Upper Deck Waterway

Gutter Gunwale

Planksheer

Moulding

E. I. Seal

and Raughtree Timbers

The Main Piece of Rudder

E. I. Seal

Windlass

E. I. Seal

and Pall Bitt

E. I. Seal

The Decks

Y. Pine

State of

Good

How fastened to Beams

with screw bolts

The Shifts of the Planking are not less than

6

Feet

Inches.

N. B. If less than prescribed by the Rule, state whether general

or partial, and if partial, in what part of the Ship.

The Planking is wrought

3

between, and without step-butting.

Planking Inside.—The Limber-strakes and Bilge-strakes are

Red Pine

Ceiling, Lower Hold, and between Decks

Red Pine

Shelf pieces and Clamps

Straps of Keel Plates, Keelsons, Stringer and Tie Plates, of every description, are they of proper dimensions, and Rivetted in accordance with

the Rules?

Yes

State

where triple

double

or single rivetting exists.

Planksheer, how secured to the plating of the sides?

Explain by sketch

Planksheer and to the Beams?

if necessary.

Gutter Gunwale

Beams, how secured to the side?

Rivetted to Frames &amp; Stringer Plate

For Lower Deck Beams ditto?

ditto

ditto

ditto

General Quality of Workmanship

Good

No. of breasthooks

4

crutches

3

What description of Iron is used for the Frames, Beams, Keelsons, Stringer and Tie Plates, Outside Plating, Rivets, &amp;c.?

Manufacturer's name or trade mark

Frames, Syraack and Co. Plate by J. W. Whitham &amp; Son, Beams Bulb &amp; mass plate Palmer &amp; Son &amp; Iron Co.

I certify that the above is a correct description of the several particulars therein given.

Signature

W. L. Co.

Surveyor's Signature

Leithhouse Martindale

Joseph H. Co.

SLD 938-0121 2/3

SLD 938-0121 2/3



Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, Galvanized Iron, or Iron, and Rivets.

	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule
Deadwood forward and aft ..	1/8	✓	1/8	Transoms and throats of Hooks	—	—	—	Pintles of the Rudder .....	3 3/8	✓	3 3/8
Scarphs of Keel, N° 8	1 3/4	✓	1 3/4	Arms of Hooks .....	—	—	—	Hold Beam { Waterway ....	—	—	—
Keelson Bolts through Keel at each Floor .....	—	—	—	Thro' Frames and Planking....	13/16	13/16	13/16	Boles in { Knees .....	—	—	—
Bolts through Iron Keel Plate and Wood Keel .....	1/8	✓	1/8	Butt End Bolts ..	13/16	13/16	13/16	Deck Beam { Waterway ....	—	—	—
Garboard Bolts Athwartship..	13/16	✓	13/16	Rivets .....	5/8 3/4	5/8 3/4	5/8 3/4	Boles in { Knees .....	—	—	—
								Shelf or Clamp	—	—	—
								Nails or Bolts in Flat of Deck	5/8	✓	5/8

Her Masts, Bowsprit, Yards, &c., are in Good condition, and sufficient in size and length. If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit The Fore & Main Masts & Bowsprit are of Iron and the two lower Yards of Steel. See the Sketches attached

N°.	She has SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N°.	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
✓	Fore Sails,	Chain .....	270	1 3/8	34	1 7/16	37 2/10	Bowers .....	3	18-0-7	18-24-21	18-0-0	18-0-0
✓	Fore Top Sails,	12 links extra lashed as required by the Rules								18-0-4	18-24-21	18-0-0	18-0-0
✓	Fore Topmast Stay Sails,	Hempen Stream Cable..	80	2 1/4	per Certificate			Stream .....		15-3-0	17-5-0-12	15-4-0	15-4-0
✓	Main Sails,	Hawser .....	60	1 7/8	per Certificate								
✓	Main Top Sails,	Towlines .....	80	6 1/2	(2) L.R. Smith					8-2-7		8-0-0	8-0-0
✓	and	Warp .....	80	5 1/2				Kedges .....		14-0-21		4-0-0	4-0-0
		All of <u>best</u> quality.								2-0-0		2-0-0	2-0-0

Her Standing and Running Rigging Complete & sufficient in size and Good in quality.

She has one Long Boat and two others

The present state of the Windlass is Good Capstan Good and Rudder Good Pumps 2 Main & 2 Belp. Good

- Order for Special Survey No. 2211 DATES of Surveys held while building
- Order for Ordinary Survey No. — Date —
- 1st. Examination of the wood keel, stem, stern post, and deadwood before they are coated
  - 2nd. Of the frame before it is painted, strapped, or plated
  - 3rd. Of all the beams, stringers, plates, &c., when in place, rivetted up ready to receive the planking
  - 4th. When the vessel is planked outside, dubbed fair, and all the fastenings completed, but before she is either caulked, coated, or cemented, so that the inside and outside of the planking, and the bolts and their nuts, may be carefully examined
  - 5th. When the vessel is caulked and completed
  - 6th. When the vessel is launched and equipped
- Built under S.S.3 Surveyed 1869 June 11-14-15-18-22-24-26-27-28-29-31 Aug 2-3-4-6-7-10-11-12-13-16-17-18-20-21-23-24-27-28 Sep 1-3.

State if she has a Spar Deck No Poop Half poop Forecastle Monkey & scuttle or raised Quarter Deck No

General Remarks,

This vessel has been constructed under a Roof in conformity with the Rules Page 55-  
The through fastenings are all yellow Metal from the lower part of keel up to the height of one fifth the depth of hold below the topside of main deck, and all the other fastenings above this height are of properly galvanized Iron, including the fastenings in the main deck  
She has diagonal plates fitted on the outside of the frame in pairs transversely all fore and aft, each pair connected to the sheersake plate & bulge plate by Butt straps double rivetted, and rivetted to each other and to the frames they cross. The timber used in her construction are in conformity with the suggestions for the building of Composite Ships.  
Certificates for the test of Chain Cable & anchors have been forwarded issued from the Surveyors & Marine Public Testing Houses & signed by John Hartnup, and it will be seen the Chain & cables have not been tested to the strain required by the Rules, see the Builders letter attached

In what manner are the surfaces of Iron Work preserved from oxidation inside and outside Red Paint & cemented in the latter

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

If Sheathed, Doubled, Felted, or Coppered Yellow Metal on felt When last done Present time

I am of opinion this Vessel should be Classed 17 A1 Subject to the Committee's approval. Senhouse Martindale

The Amount of the Fee.....£ 5 : : : is received by me,

Special .....£ 26 : 6 : : John Hartnup

Certificate ....£ : : : : Joseph Kellie

Committee's Minute 5th October 1869

Character assigned A for 17 A1

To have Log 1 to 6  
13/10/69

with the exception of the question of classing the Chain cables this vessel appears eligible to be Classed as above & is  
14 Oct 69