

IRON SHIPS.

Requisition 16334

Rec 22/8/65

No. 4882 Survey held at Port Glasgow

Date 16th March

18 65

on the Ship "Weathersfield"

Master Marcus Beresford Brown

Tonnage Gross 1050.68 Engine Room

Register

Built at Port Glasgow

When Built 1865

Launched 15th February 1865

By whom built Robert Duncan & Co.

Owners Charles G. Lewis & Co. Port belonging to Liverpool

Destined Voyage Clyde to Liverpool & Hamburg

Surveyed 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.
209			34			21				
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ships.		Inches required per Rule.		Inches in Ships.		Inches required per Rule.		Inches in Ships.	
	21		21							
Floors, Size of Angle Iron, and No. of plates bottom of Floor Plate with doubling	5	3	8	4	3	8				
depth and thickness of Floor Plate at mid line	23		10	23		10				
depth and thickness of Floor Plate at Bilge Keelson	14		10			10				
Size of Reversed Angle Iron, and No. of single at top of Floor Plate	3	3	7	3	3	7				
Frames, Size of Angle Iron, single or double to lower deck	5	3	8	4	3	8				
Reversed Iron, 8 to every frame and on every alternate frame to lower deck	3	3	7	3	3	7				
Transoms, Deck (N ^o .) double Angle Iron, Plate, or Bulb Iron	8		7	8		7				
double or single Angle Iron, on upper edge	3	3	6	3	3	6				
average space between	3 feet 6 inches		3 feet 6 inches							
if wood (N ^o .) sided & moulded										
Hold, or Lower Deck (N ^o .) double Angle Iron, Plate, or Bulb Iron	8		7	8		7				
double or single Angle Iron on upper edge	3	3	6	3	3	6				
average space between	3 feet 6 inches		3 feet 6 inches							
if wood (N ^o .) sided & moulded										
Paddle, wood, sided and moulded, or if Iron, size of Plate										
Engine										
Keelson, single plate, box, or intercostal double, standing on the floor										
Size of Plates	15		14	15		14				
Size of Angle Irons	5	4	7	5	4	7				
Ditto Bilge (No.) double Angle Irons	5	4	7	5	4	7				
Ditto Bilge Keelsons intercostal, plates 4 1/2, Angle Irons 5	5	4	7	5	4	7				
Transoms, material Horn or, if none, in what manner compensated for.										

Knight-heads, and Hawse Timbers Iron

The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (7/8 in.) rivets, about (7 inches) apart.

The reverse angle irons on the floors extend in one length across the middle line from lower deck to Gunwale alternately

Keelson, how are the various lengths of plates or angle irons connected? By single Iron butt straps

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1 1/2 in.) diameter averaging (4 1/2 in.) from centre to centre of rivet.

Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (1 1/2 in.) thick, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

Edges from bilge to sheerstrake, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (7/8 in.) diameter, averaging (3 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No

Edge of Sheerstrake, double or single rivetted? Butt straps 24 inches quadruple rivetted

Butts from bilge to planksheers, worked carvel with a lining piece (1 1/2 in.) thick, double or single rivetted; rivets (7/8 in.) diameter averaging (3 1/2 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (5 ins) Breadth of laps in single rivetting ()

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?

Planksheer, how secured to the plating of the sides { Explain by sketch }

Waterway , , planksheer and to the Beams { if necessary. }

Deck Beams, how secured to the side? Beam ends turned down

Hold or Lower Deck , Beam ends turned down

Paddle , ,

No. of breasthooks Five crutches Four how are pointers compensated?

What description of iron is used for the angle iron and plate iron in the vessel? Manganese & Glasgow Iron Co. Built at Glasgow

IRON 438-0189

4034 *Iron*

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? *Yes*

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes*

Do the fillings between the ribs and plates fill in solid with single pieces, or are they in short lengths of various thicknesses? *Solid lengths*

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? *Yes* and are the rivet holes well and sufficiently countersunk in the outer plate? *Yes*

Are there any rivets which either break into or have been put through the seams or butts of the plating? *A few*

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

She has **SAILS.**

N^o.
Fore Sails,
Fore Top Sails,
Two Fore Topmast Stay Sails,
Suits Main Sails,
4 Main Top Sails,
Sails

CABLES, &c.

	Fathoms.	Inches.
Chain	300	1 3/4
" Stream	60	1 1/2
Hempen Stream Cable	90	10 1/2
Hawser	90	9
Towlines	90	8 1/2
Warp		
All of <i>Good</i> quality.		

ANCHORS, and their weights.

N ^o .	Weight.		
Bower, <i>Test 28, 17, 14, 10, 8, 6, 4, 3, 2, 1, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000</i>	1	37.2.22	
Stream, <i>Test 28, 17, 14, 10, 8, 6, 4, 3, 2, 1, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000</i>	1	36.0.7	
Kedge, <i>Test 28, 17, 14, 10, 8, 6, 4, 3, 2, 1, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000</i>	1	6.2.7	
		1	3.1.0

Her *Rigging is Well* Standing and Running Rigging *Pump* sufficient in size and *Good* in quality.

She has *Two Life* Long Boat and *Pinnace, Lug, and Jolly Boat*

The present state of the Windlass is *Good* Three Capstans *Good* and Rudder *Good* Pumps *Two Cast-iron Good*

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

DATES of Surveys held while building, as per Section 17.

1st. On the several parts of the frame, when in place, and before the plating was wrought	<i>Specially surveyed while building from 1st July 1864 to 16th March 1865 in all 31 visits</i>
2nd. On the plating during the progress of rivetting	
3rd. When the beams were in and fastened, and before the decks were laid	
4th. When the ship was complete, and before the plating was finally coated	
5th. After the ship was launched	

This vessel has been built under special survey as per Order N^o 334; is fitted with a full poop and fore-castle with a House amidships for the crew. The middle line keelson is formed of double plates standing on the floors; has intercostal sister keelsons fitted about midway between the bilge and middle line ditto; there are two stringers fitted above the bilges formed of Angle Irons fitted back to back, the lower one of which has a bulb iron fitted between, see sketch herewith

The certificates of Bower Anchors are dated 21st & 16th February & 16th January 1865; and the certificates of Chain Cables are dated 12th, 19th & 25th January 1865, and signed by David Logan, Superintendent, Tipton Proving Machine. And the 60 fathoms 1 1/2" Stud Stream Chain dated 17th February 1865 and signed, Tinsley, Wright & Co., Dudley.

Mast	Thickness of Plating	Rivetting of Butts	Rivetting of Edges	Size of Angle Irons	N ^o of Angle Irons	Diameter of masts
Main Mast	7/16	Carvel Triple	Blanchet Double	"	"	30 inches
Fore Mast	7/16	do	do	"	"	30 inches
Mizen Mast	7/16	do	do	"	"	23 inches
Bowsprit	7/16	do	do	5 x 3 x 7/16	3 on way of lengthhead	30 inches



In what manner are the surfaces preserved from oxidation? *Portland Cement between the floors to upper part of bilges; and inside and outside coated with three coats of Zinc paint*

I am of opinion this Vessel should be classed *A 1.*

The amount of the Fee£ 5 : " : " is received by me,

Wm Wm Special£ 52 : 11 : "

Certificate (if required)£ , : , : "

Committee's Minute *24th March 1865*

Character assigned *A 1*

H. J. Brocks.
R. H. Luce
This sailing ship of Iron appears to be No 16 in my Report dated August last of ships seen by me building in the Greenwich district. I am of opinion she is eligible for classification as recommended above.
Dated 22nd 1865

Duplicate certificates granted in letter 14. 10. 65