

1 or 2 Dks., R. Q. Dk.,
and Pt. Awng. Dk.

Gwin Srew Bucket and Suction Bredges (Hopper)

IRON OR STEEL STEAMER.

No. 28677.

State if Report is also sent on the Machinery of the Vessel *Yes*
Date of completion of Report
Date, First Survey *July 13th 1909*

Received *WED 23 MAR 1910*

Port of *Glasgow*
Last Survey *Mar 18th 1910*
Rig *Cutter*

Survey held at *Parsley*
On the

TONNAGE under
Tonnage Deck... 562.86
Do. of Poop
Do. of Raised Qr. }
Dk. or Break... }
Do. of Bridge House }
Do. of Forecastle }
Do. of Houses on Deck }
Do. of excess of Hatchways }
Do. above Crown of }
Engine Room }
Gross Tonnage 564.29
Less Crew Space 33.60
Less above Crown of }
Engine Room }
TONNAGE FOR FEES 530.69
Engine Room 284.66
Avigation Spaces 13.12
Crew 33.60
ster Tonnage }
out on Beam... } 232.91

ONE OR TWO DECKED VESSEL.

CLASS A. *Hopper Bredges*

FEET.

Half Breadth (moulded) 17.0
Depth from upper part of Keel to top of Main Deck Bms. 13.7
(with the normal round up of beam)
Girth of Half Midship Frame (as per Rule) 28.71
1st Number 59.41
Length on deck from after part of stem to fore part of stern post 178.875
2nd Number 10626
Proportions—Breadths to Length 5.26
Depths to Length—Main Deck to top of Keel 13.05
Destined Voyage *New Plymouth N.Z. If Surveyed while Building, Afloat, or in Dry Dock* *Yes*

Master (not appointed)

Year of appointment (1) As master in service of owner of present vessel:—19
(2) As master of this vessel:—19

Built at *Parsley*

When built 1910 Launched 13th January 1910

By whom built *J. Fleming & Ferguson Esq.*

Owners *New Plymouth Harbour Board*

Managers

(Where necessary to be entered in Reg. Book).

Residence *New Plymouth N.Z.*

Port belonging to *New Plymouth N.Z.*

DEPTH, ACTUAL—
Top of Floors to top of Main Deck Beams 12.3
No. of Decks with Flat laid one
No. of Tiers of Beams one
Dimensions of Ship per Register, Length, 180.0 breadth, 34.15 depth, 12.25. Moulded Depth, 13 ft. 0 ins. Round of Beam, Actual 8 1/2 ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule or as Approved.	Inches per Rule or as Approved.	16ths or 20ths in Ship.	Inches per Rule or as Approved.	Inches per Rule or as Approved.
NAME, Angles, $\frac{3}{4}$ E or L Bars, for $\frac{3}{4}$ length amidships	4	3	7	4	3	7		
Do. for $\frac{1}{2}$ at each end	4	3	6	4	3	6		
Do. in way of Double Bottoms at Solid Floors								
" " at intermdt. Bkts.								
ing of Frames from centre to centre		24			24			
VERSED FRAME, Angles	3	3	6	3	3	6		
EP FRAMING, depth of girder								
DOORS, depth and thickness of Floor Plate at mid-line for $\frac{3}{4}$ length amidships	17 1/2		7	17 1/2		7		
" in way of Engines and Boilers			9		9			
" thickness at the ends of vessel			6		6			
" depth at $\frac{3}{4}$ the half breadth, as per Rule								
" height extended at the Bilges								
DOORS & BRACKETS, in Cell Dble Bottoms								
" state if flanged (top & bottom)								
" Spacing								
NTR E GIRDER, in Double Bottom, depth and thickness								
" Angles, Top								
" Bottom								
DE GIRDERS, number on each side & thickness								
" state if flanged (top & bottom)								
" Angles								
MARGIN PLATE, depth (exclusive of flange) and thickness								
" Angles to Outside Plating								
" Floors								
" Height of Floors at the Bilges								
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake								
" thickness in Engine and Boiler space								
" Remainder in Holds								
EAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	6	3	8	6	3	8		
" Angles on Upper Edge								
" Spacing		24			24			
EAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	5 1/2	3	7	5 1/2	3	7		
" Angles on Upper Edge								
" Spacing		24	48		48	24		
EAMS, Hold, Plate or Tee Bulb								
" Angles on Upper Edge								
" Spacing								
EAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb								
" Angles on Upper Edge								
" Spacing								
EAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle Plate, or Tee Bulb								
" Angles on Upper Edge								
" Spacing								
EAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb								
" Angles on Upper Edge								
" Spacing								
ILLARS, In 'tween Decks, Size and Spacing								
" Hold		2 3/4			2 3/4			
" Quarter, 'tween Dks., "								
" in Hold		48			48			

WEB FRAMES, In Fore Body, No. and Spacing
" " " Brdth. & Thickness
" No. of Side Stringers
WEB FRAMES, In E. & B. Space, No. & Spacing
" " " Brdth. & Thickness
WEB FRAMES, In After Body, No. and Spacing
" " " Brdth. & Thickness
" No. of Side Stringers
" Size of Angles or Tee Bars to Web Frames
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates depth and thickness	7 x 2	6 3/4 x 2
STEM, moulding and thickness	6 3/4 x 3 1/2	6 3/4 x 3 1/2
STERN-POST for Rudder do. do. (two)	6 3/4 x 3 1/2	6 3/4 x 3 1/2
" for Propeller (two)	6 3/4 x 3 1/2	6 3/4 x 3 1/2
MAIN PIECE of Rudders diameter at head	4 3/4	4 3/4
do. at heel	3 1/2	3 1/2

RUDDERS how constructed *Single plate 12", forged frame*
Can the Rudders be unshipped afloat? *Yes*

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	16ths or 20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	8		8	8		8		
" Rider Plate	9 1/2		8	9 1/2		8		
" Bulb Plate to Intercoastal Keelson, Plate			7			7		
" Horizontal Plates on Floors								
" Angles	4 1/2	3	7	4 1/2	3	7		
SIDE KEELSON, Angles	6	4	10	6	4	10		
" Bulb or Plate above floors for lng.								
" Intercoastal Plate for lng.			6			6		
" Attached to outside plating with Angle	3	3	6	3	3	6		
BILGE KEELSON, Angles	6	4	10	6	4	10		
" Bulb or Plate above floors for lng.								
" Intercoastal Plate for lng.								
" Attached to outside plating with Angle								
BILGE STRINGER Angles	6	4	10	6	4	10		
" Bulb Plate for lng.								
" Intercoastal Plate for lng.								
" Attached to outside plating with Angle								
SIDE STRINGER Angles	6	4	10	6	4	10		
" Bulb or Intercoastal Plate for lng.								
" Attached to outside plating with Angle								

Main and Raised Quarter Deck Stringer Plate, breadth and thickness	33	9	33	9
" Angle on ditto	3 1/2 x 3	6	3 1/2 x 3	6
" Tie Plates, outside Hatchways				
" Diagonal Tie Plates on Bms., No. of Pairs				
" Main Dk* Iron or Steel for full lng.		6		6
" R. Q. Dk* Iron or Steel for lng.				
" Wood Deck, Material & thickness				
Lower Deck Stringer Plate, breadth and thickness				
" Angles on ditto, No.				
" Tie Plates, outside Hatchways				
" Deck* Material and thickness				
Hold Stringer Plate				
" Angles on ditto, No.				
Poop Deck Stringer Plate, breadth & thickness				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				
Bridge or Pt. Awng. Deck Stringer Plate, breadth and thickness				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				
Forecastle Deck Stringer Plate, brdth & thcknss				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.	Number.		Thickness.	STIFFENERS.				Single or Double Frames.	Height up.
	In Vessel.	Per Rule.		Horizontal.	Vertical.	Size.	Spacing.		
W.T. BULKHEADS	65	64	5/8	4 x 3 x 1/2	48	4 x 3 x 1/2	30		5 1/2 Deck
PARTITION									
LONGITUDINAL									

Are the outside Plates doubled two spaces of Frames in length? *Yes*
Are the Sluice Valves and Watertight Doors in efficient working order? *Yes*

PLATING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.	RIVETING.											
	AMIDSHIP.		FORWARD.			AFT.		EDGES.		BUTTS.		IF LAPPED.					
	Breadth.	Thickness.	Breadth.	Thickness.		Breadth.	Thickness.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what Length.	RIVETS.	Spacing cr. to cr.	STRAPS.	Breadth.	Thickness.	For what Length.
FLAT PLATE KEEL (If Bar Keel, state Riveting) GABBOARD OR A Strake	32	12	9	-	32	12	Double	5 1/2	3 3/4	3 3/4	Double	7 1/2	3 3/4	-	-	-	9 1/2
B "	8	7	7	-	8	7	Single	2 1/2	3	3	"	2 1/2	-	-	-	7 1/2	
C "	8	7	7	-	8	7	"	"	"	"	"	"	-	-	-	"	
D "	8	7	7	-	8	7	"	"	"	"	"	"	-	-	-	"	
E "	8	7	7	-	8	7	"	"	"	"	"	"	-	-	-	"	
F "	8	7	7	-	8	7	"	"	"	"	"	"	-	-	-	"	
G "	8	7	7	-	8	7	"	"	"	"	"	"	-	-	-	"	
Sheer H "	40	10	8	8	34	10	Double	4 1/2	-	-	"	3 1/2	-	-	-	9	
I "																	
J "																	
K "																	
L "																	
M "																	
N "																	
O "																	
P "																	
DOUBLING of Flat Plate Keel																	
Length of Bilges																	
Length of Sheerstrakes																	
Length of Strake below																	
POOP SIDES																	
RAISED QUARTER DECK SIDES																	
BRIDGE SIDES																	
FORECASTLE SIDES																	
LENGTHS OF PLATING	Seven frame spaces																

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c. *Open heart steel*
The Sanatoshie Steel Co. Ltd.
David Colville & Sons Ltd.
The Steel Company of Scotland Ltd.
 Has the Steel been tested as required by the Rules. *Yes*

FRAMES extend in one length from *centre line, bottom to deck* state if ordinary or joggled. *Ordinary*
REVERSED FRAMES on floors and frames extend from *across floors to lower side stringer and* state if ordinary or joggled. *Ordinary*
main deck alternately, double across floors in engine and boiler space

MASTS, SPARS, &c.

Lower Masts.	Fore	Main	Mizen	Material.	Total length.	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
						At Partners.	Heel.	Hounds.		Head.	Number.	Size.	Seams.
Fore	52.0	11	Pole mast	3									

Bowsprit *-*
 Topmasts, Yards and Remainder of Spars *-*
Rigging, Material and Size, Shrouds *Galvanized steel wire 2 1/2 each side. Stays Galvanized steel wire 1 1/2, 1 1/2*
Sails. *one sail* Suit of *-* Sails and the following spare sails *-*

Equipment No. *10624* Letter *g* Tonnage U.Dk. or Plating No. for Travers *-*

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.			
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.				lbs.		
6027	1st Bower	16	2	18	4	0	14	17	18	1	21	16	3	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 12/11/09 Paul
6026	2nd "	16	1	4	3	2	18	17	11	3	14	16	3	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 12/11/09 Paul
6025	3rd "	16	0	14	4	0	8	17	9	2	21	16	3	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 12/11/09 Paul
6069	4th "	8	0	6	2	0	2	10	2	2	0	8	0	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 17/11/09 Young
6067	Stream	8	0	4	2	0	2	10	2	2	0	8	0	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 17/11/09 Young
6070	Kedge	8	0	4	2	0	2	10	2	2	0	8	0	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 17/11/09 Young
6068		7	3	22	2	0	6	10	2	2	0	8	0	0	Single arm	W. Bloomer & Sons, Glasgow, Healt 17/11/09 Young

CHAIN CABLES.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.			Length and size supplied.	Test per Certificate.	Description of Cable.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.	Test per Certificate.	Description of Cable.	Makers of Cables.	Where and when tested and Superintendent.
			Supplied.	Per Table 22.	Per Table 22.											
6986	200 1 1/2	22 1/2	45 1/2	201	2.4	16 1/2	210	1 1/2	Short	Woodhouse & Co., Glasgow, Healt 24/10/10 Paul	WIRELINE	75	2 1/2	152	75	2 1/2
36726	105 1 1/2	22 1/2	45 1/2	106	2.13	-	240	1 1/2	Close	W. Bloomer & Sons, Glasgow, Healt 13/11/09 Paul	WIRELINE	90	6	-	90	6
36754	105 1 1/2	22 1/2	45 1/2	106	2.15	-	-	-	Close	W. Bloomer & Sons, Glasgow, Healt 10/11/09 Paul	WIRELINE	90	4	-	90	4
36735	105 1 1/2	22 1/2	45 1/2	150	2.10	-	-	-	Close	W. Bloomer & Sons, Glasgow, Healt 14/11/09 Paul	WIRELINE	75	3	-	75	3

HAWERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	Description of Cable.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.	Test per Certificate.	Description of Cable.	Makers of Cables.	Where and when tested and Superintendent.

Boats *Two*
Pumps, Number *One* *to top of forward hold* Diameter of Barrel *9 at 4 1/2* State whether they are in efficient working order *Yes*
Windlass *Steel* *manufactured by Messrs. Fleming, Glasgow* Capstan *-*
Engine Room Skylights.—How constructed? *Steel plates and angles*
 What arrangements for deadlights in bad weather? *Steel flaps with bull's eye*
Coal Bunker Openings.—How constructed? *Plate & angles* How are lids secured? *cleats & battens* Height above deck? *2-0*
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *open rail at side*
Ceiling in Holds, thickness and material *-* Cargo Battens, thickness and material *-*
Cargo Hatchways.—How formed? *-* Hatches.—If strong and efficient? *-*
 State size No. 1 Hatch (Forward) *-* No. 2 Hatch *-* No. 3 Hatch *-* No. 4 Hatch *-*
 Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *-*
Bulwarks, height above deck and description *(open rail)* Main Rail and Stays, material and size *(open rail)*
 The above is a correct description. *For Fleming & Co.* Surveyor's Signature *B. M. Shaw*
 Builder's Signature (here only) *B. M. Shaw* Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)
 6th May 1909 (M) 18th May 1909 (M) 11th August 1909 (E) 19th January 1910 (M)

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*
 Is the riveted work properly closed? *yes*
 Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes* Do any rivets break into or through the seams or butts of the plating? *a few*
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*
 Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par 24)? *yes* State results of tests *satisfactory*
 Have all the gutterways been tested as required by the Rules (Sec. 23, par 25)? *yes* State results of tests *satisfactory*
General Remarks (State quality of workmanship, &c.) *Workmanship good.*
This vessel has been built in accordance with the approved plans, The Secretary's letter of the above dates, and in general conformity to the Rules for the class contemplated.

4 plans 4 forgings forms

No. of Certificate	Single & size supplied	Close Link	Extra Chain	Cable continued	Breaking test	Height cut in ft.	Makers	Where & when tested
36705	60 fathoms	1	1	12	24	33-1.5	W. Bloomer & Sons	Healt 13/11/09 Paul
36704	60 3/4	1	1	12	24	33-3.11	W. Bloomer & Sons	Healt 13/11/09 Paul
36724	60 3/4	1	1	12	24	33-0.4	W. Bloomer & Sons	Healt 13/11/09 Paul
36702	60 1/2	1	1	12	24	33-1.17	W. Bloomer & Sons	Healt 13/11/09 Paul
6991	200 1/2	1	1	12	24	109-2.6	W. Bloomer & Sons	Healt 13/11/09 Paul
6983	200 1/2	1	1	12	24	110-2.17	W. Bloomer & Sons	Healt 13/11/09 Paul

640 The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *-* ft., R.Q.D. or Break *-* ft., Bridge Dk. *-* ft., F'castle *-* ft. (in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated *-*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book). *1 Dk. STL.*
 Official No. *-*; Signal Letters *-* State if Machinery is fitted aft *no*
 How are the surfaces preserved from oxidation? Inside *paint and cement* Outside *paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft		
Double bottom, if under Boilers only,			Deep tank, forward		
Double bottom, forward,			Other tanks, if fitted,		

* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules *-*

Order for Special Survey No. *4401*
 Date *10.5.09*
 No. *389* in builder's yard
 Dates of Surveys held while building *1909 July 13, 16, 21, 23, 27 Aug 2, 6, 11, 25, 27, 31 Sept 3, 9, 20, 22, 30, Oct 4, 7, 12, 20, 25, 26, 29 Nov 1, 2, 5, 8, 10, 15, 19, 24, 29 Dec 3, 6, 10, 13, 15, 17, 24, 28, 29 1910 Jan 12, 14, 17, 20 Jan 25, 27, 31 Feb 4, 7, 11, 21, 25, 28 Mar 3, 10, 14, 18*
 Total No. of Visits *58*

The amount of Entry Fee *3* : : : Fees applied for, *187 3/19 10*
 Special *26* : : : Received by me, *28/3/1910*
 Travelling Expenses, if any £ : : :
 State whether the Vessel has been built under Special Survey *yes*
 I am of opinion this Vessel should be Classed *A1 Hopper dredger*
 With, or without Freeboard, as condition of Class *without*
 Certificate to be sent to *Glasgow*
 Surveyor to Lloyd's Register of British and Foreign Shipping. *B. M. Shaw*

Committee's Minute **GLASGOW 22 MAR 1910**
 Character assigned *A1*
Hopper dredger
3.10
Lloyd's accp.
+ LMC 3.10