

WRECK  
SECTION

## STEEL STEAMER OR MOTORSHIP

WRECK  
SECTION

Received at London Office

FEB 1945

State if Report has been sent on the Freeboard of the Vessel YesState if Report is sent on the Machinery of the Vessel Yes

FOSSUARCA

Date of completion of report 27th JANUARY 1945Port of GLASGOWEX No. 69254Survey held at GRANGEMOUTHDate First Survey 13th MARCH 1944Last Survey 9th JANUARY 1945On the STEEL SINGLE SCREW STEAMER "EMPIRE JUMNA" MACHINERY AFTState Type FULL SCANTLINGState Type of Erections POOP, TRUNK AND FORECASTLETONNAGE under  
Tonnage Deck 1752.22Do. of space or spaces  
between Tonnage Dk.  
and Upper Dk.Total 1752.22Gross Tonnage 2370.49Register Tonnage 1281.29CLASS +100 A.1State if with freeboard  
as condition of Class NO

CARRYING PETROLEUM IN BULK.

Length from fore part of stem to after part of stern  
post on summer L.W.L. See Sec. 3 (1a) 287.0Breadth (greatest moulded) 44.0Depth, at middle of length from top of keel to top  
of beam at side of uppermost continuous  
deck. See Sec. 3 (1c) 19.51st Longitudinal Number (L x D) (287 x 19.5) = 55962nd Numeral L x (B + D) 287 x (44.0 + 19.5) = 18224Framing Depth "d," at middle of length. See  
Sec. 3 (1d) 14.72Proportions—Depth to Length—Uppermost con-  
tinuous deck to top of keel 19.5  
Do. Long Bridge to  
top of keel 17.11Draught Moulded 17.11Built at GRANGEMOUTHLaunched 31st OCTOBER 1944 Yard No. 458Builders THE GRANGEMOUTH DOCKYARD CO. LD.Owners THE MINISTRY OF WAR TRANSPORTManagers HADLEY SHIPPING CO. LD.

(Where necessary to be entered in Reg. Book)

Residence 53, LEADENHALL ST., LONDON, E.C.3.Port of Registry GRANGEMOUTH

If surveyed while building, afloat, or in dry dock

BUILDING AFLOAT AND IN DRYDOCK

## REGISTERED DIMENSIONS.

FEET

290.744.119.15

## FRAMES, DOUBLE BOTTOM AND BEAMS.

## DINAL FRAMING AS PER PAGE 5

INCHES IN SHIP.

Any Departure from  
Approved Plans to  
be Noted.

INCHES IN SHIP.

Any Departure from  
Approved Plans to  
be Noted.

## MES, Spacing amidships.

39-40 (Dkt. cofferdam)from 1/2 length amidships toCollision bulkhead124-126 (Dkt. cofferdam)in peaks

## E FRAMING.

ame Amidships, Angle, E or FExtends up to Upper Deck

versed Frame Amidships, Angle

Extends up to

pth of Framing Girder

ames in Uppermost Continuous 'tween  
Decks, Angle, E or FSecond 'tween Decks, Angle, E or F

Third

from 1/2 len. for'd. to 15% len. from  
Stemin Peaks, Angle E or Fiameter and Spacing of Rivets through  
Frame and Shell Plating amid-  
ships

ate if Frame Joggled

Are the scantlings and arrangements in the  
Panting Area in accordance with the Rules  
and/or as approved?Are the scantlings and arrangements in way  
of the Bottom Forward in accordance with  
the Rules and/or as approved?

## GLE BOTTOM. IN BOILER SPACE

Floors, Depth and thickness at mid-line in  
HoldsHeight of Brackets at side above  
base line at toe of frameMiddle Line Keelson, on Floors, Angles,  
E or FThrough Plate or Inter-  
costal PlateFoundation Plate on  
Floors

Flat Plate Keel Angles

Side Keelsons, No. each side

thickness of Intercoastal Plate

Angles

## DOUBLE BOTTOM. IN ENGINE SPACE

Solid Floors, thickness and spacing

Are Frame and Reversed Frame  
joggled?Bracket Floors, breadth and thickness at  
middle linebreadth and thickness at  
margin plate

## Bracket Floors, Frame

Reversed Frame

Vertical Struts

Centre Girder, depth and thickness amidships 59 1/2 x 42

top Angles

bottom Angles

Side Girders, No. each side and thickness

Margin Plate depth (excl. of flange) and  
thickness

Vertical Angle to Tank side

Bracket abaft 1/4 len. from  
stem

Vertical Angle to Tank side

Bracket from forward 1/4 len.  
from stem to Panting AreaGussets, spacing and scantling  
abaft 1/4 len. from stemGussets, spacing and scantling  
from forward 1/4 len. from stem  
to Panting AreaTank Side Brackets, height above base line  
at toe of Frame and thickness

## INNER BOTTOM PLATING. IN ENGINE SPACE

Breadth and thickness of Middle Line Strake

Thickness of remainder in Holds

Are Rule requirements complied with regard-  
ing increases of scantlings in way of double  
bottom in E. & B. space and framing in  
Bunkers and Boiler Room?

## BEAMS.

Uppermost Continuous Deck, amidships in  
Well, Angle, E or Fin way of Engine, Angle, E or Fand E or F

Spacing

" " " in way of Forecastle

Second Deck, amidships, Angle, E or F

Spacing

Deep Tank Top Forward

Third Deck, amidships, Angle, E or F

Spacing

Fourth Deck, amidships, Angle, E or F

Spacing

Poop Deck, Angle, E or F

Spacing

Trunk Top

Bridge Deck, Angle, E or F

Spacing

Forecastle Deck, Angle, E or F

Spacing

WRECK  
SECTION  
No. 156



## PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows .....					
" in 'tween Decks, Size and Spacing .....					
" " " " " "					
" in Holds " " " "					
" " " " " "					
Centre Line Bulkhead. Stiffeners and Spacing .....	No 1, 2 and 3 Tanks No 4 and 5 Tanks	7 3 8 3	42 BA spaced 24' apart. 43 BA " 24' "		
Plating, thickness of .....	38" plated vertically ✓				
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	64½ x 46 ✓				
" " " " " " in way of Bridge					
" Angle in Wells .....	5 5 50 ✓				
Thickness of Plating abreast Deck openings } in way of Wells .....	44 ✓				
Thickness of Plating abreast Deck openings } in way of Bridge .....					
Thickness of Plating within line of opening ..					
If Sheathed, material and thickness.....	Unsheathed ✓				
Second Deck. Deep Tank Top Forward .					
Stringer Plate, breadth and thickness in Wells	34 ✓				
Stringer Plate, breadth and thickness in way of Bridge					
Thickness of Plating abreast Deck openings } in way of Wells .....					
Thickness of Plating abreast Deck openings } in way of Bridge .....					
Thickness of Plating within line of opening ..					
If Sheathed, material and thickness.....					
Third Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness .....					
Fourth Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness .....					
Poop Deck.					
Stringer Plate, breadth and thickness.....	27 x 32 ✓				
Plating, Sheathing, material and thickness ...	30 Unsheathed ✓				
Bridge Deck. Trunk Top .					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness ...	40 and 46 Unsheathed ✓				
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	27 x 32 ✓				
Plating, Sheathing, material and thickness...	30 Unsheathed ✓				

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.			
Flat Plate Keel.....	50	.65	.55	.55	Approved .50" at ends.	Double	7/8	3 3/4	At ends. 3	Welded amidships 3/8	3/8	2 lapped and 2 strapped.	
— Dble. (if any)													
Bottom Plating, No. of Strakes ..... 3 }	2 @	.46	.40	.46	Approved .40" at ends.	Double	3/4	2 3/8	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
Bilge Plating, No. of Strakes ..... 1 }	1 @	.48	.40	.46	" .40 " "	Double	3/4	2 3/8	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
		.46	.40	.46	" .40 " "	Double	3/4	2 3/8	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
Side Plating, No. of Strakes ..... 1 }		.44	.40	.46	" .40 " "	Double	3/4	2 3/8	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
Upper Deck, Sheer- strake in Well.....	48	.46	.45	.40	" .40 " "	-	-	-	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
<del>Upper Deck, Sheer- strake in Bridge ...</del>													
Strake below Sheer- strake in Well.....	66	.44	.40	.40		Double	3/4	2 3/8	At ends 3-2	Welded amidships 3/4	2 5/8	Lapped.	
<del>Strake below Sheer- strake in Bridge ...</del>													
Poop Side Plating.....				.33		Single	3/4	3	1	3/4	2 5/8	Lapped.	
<del>Bridge Side Plating.....</del>													
Forecastle Side Plating			.35			Single	3/4	3	1	3/4	2 5/8	Lapped.	

## WATERTIGHT BULKHEADS.

OT and  
Total No. of W.T. BULKHEADS in Vessel— 11. ✓ 11 BH for record  
Extending to ~~Upper Deck~~ Trunk Top 9  
" Upper Deck next below 2  
As per Rule approved

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....		-		
STEM .....	Roller Steel	8" x 2" ✓		
STERN FRAME { Propeller Post .....	Forging.	8 1/2" x 5 1/2" ✓	Y. S. Foster ✓	
{ Rudder .....	Forging.	8 1/2" x 5 1/2" ✓	and Sons, Ltd.	
Speed of Vessel .....		10.5 K ✓		
RUDDER—Type .....		Ordinary ✓		
" A x D .....		273		
" Diam. of head .....	Forging	9" ✓	Y. S. Foster and Sons, Ltd.	
" Mainpiece at top pintle .....	Built of steel plates with			
" " heel .....	plate arms. Of welded			
✓ " " how constructed .....	construction. ✓			
✓ " " double or single plate	Double plate	45" thick. ✓		
✓ " " coupling, vertical or				
✓ " " horizontal .....	Horizontal. ✓			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth*

*Swisses Ltd; Consett Iron Co. Ltd.; South Durham Steel and Iron Co. Ltd.; The Lancashire Steel Co. Ltd.; Appleby, Nottingham Steel Co. Ltd.;*  
*Bairds and Scottish Steel Ltd. Cargo Fleet Iron Co. Ltd.*

Has the Steel been tested as required by the Rules? *Yes* ✓



## PARTICULARS OF LONGITUDINAL FRAMING.

12 FEB 1945

PAGE 5

Glasgow Rpt. 69254.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.				
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam. Ins.	Speng. Ins.		Number.	Diameter. Inches.
Framing of	<del>L</del> , <del>C</del> or <del>E</del>												
Frames in	at Trunk Side.							spaced 26" apart.					
Frames from	Centre Line												
Deck	Uppermost Continuous Deck	10	3½	48	10	3½	48		¾	4½	8 rivets each side of transverses and bulkheads spaced 36"	Welded.	
	No. 1												
	" 2												
	" 3												
	" 4												
	" 5												
	" 6												
	" 7	10	3½	48	10	3½	48		¾	4½	8 rivets each side of transverses and bulkheads spaced 36"	Welded.	
	" 8												
	" 9												
	" 10												
	" 11												
	" 12												
	" 13												
	" 14												
	" 15												
	" 16												
Spacing of Longitudinal Frames	Amidships	28"			28"								
	At Ends												
at Bottom.													
Double Bottom	Trunk Top Longitudinals												
	Bottom												
Spacing of Longitudinals	Amidships												
	At Ends												
Transverses.													
Trunk Side	Depth and Thickness	21" to 15" x 40"			21" to 15" x 40"								
(in 'tween Decks)	Face Angles	Flanged 5"			Flanged 5"								
	Lugs to Shell*	3 3 40			3 3 40				¾	3¾	10 Trunk Side		
Side	Depth and Thickness	21" x 40"			21" x 40" in N°1 Tank								
(in Hold)	Face Angles	5 3 44 D.A. Single			21" 22" and 23" x 40" in N°4 Tank								
	Lugs to Shell*	Welded			24" x 40" in N°5 Tank								
Bottom	Depth and Thickness	33" x 40"			33" x 40" in N°1 Tank								
	Face Angles	9 3½ 46 B.A. Single			39" x 40" in N°5 Tank								
	Lugs to Shell*	Welded			Welded in N°1 Tank				¾	3¾			
	" " Back Bars				42 (continuous) in N°5 Tank								
	Brackets	3-3 x 3-6 x 40 11.5"			3-3 x 3-6 x 40 11.5" in N°1 Tank								
		8'-0"			2-8 x 3-6 x 40 11.5" in N°5 Tank								
Spacing of Transverse Frames		8'-0"			8'-0"								
	* State if jogged or liners.												
Longitudinal Beams of	Trunk Top	7 3 34						Spacing.					
<del>L</del> , <del>C</del> or <del>E</del>	Bridge Deck	7 3 34						28"					
	Upper							28"					
	Second												
	Third												
Transverse Beams.	Plate.	15" x 36"											
	Face Angles.	Flanged 5"											
	Any Departure from Approved Plans to be Noted.	5-3 x 40 D.A. Single											

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.



EQUIPMENT No. 19617

LETTER 5

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.		Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
45806	1st Bower	39	1	0	✓ Stockless			35	5	2	14	✓ 38 1/4 ✓	Byers Improved Stockless	Not Stated	Sunderland: 16.5.44: Joseph Hibbs ✓	
45890	2nd "	38	3	0	✓ Stockless			34	19	1	14	✓ 38 1/4 ✓	" " "	" "	" : 2.6.44: R. J. Vogan ✓	
	3rd "											32 1/2 ✓				
	Collective weight											110 ✓				
2592	Stream	10	1	7	2	2	14	12	6	2	7	✓ 10 ex. stock ✓	✓ Ordinary ✓	B. Taylor & Sons (Brinkley Hill) Ltd. Netherpton:	31.7.44: J. O. R. J. ✓	

## CHAIN CABLES.

## HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and size supplied.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire.	Length and size per Table 53.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.
4221	240 3/4	1 1/8	61.5	85.0	313	1	20	397 1/4	240	1 1/8	Jayco Steel Link	Netherpton: 31.7.44: J. O. R. J.	TOWLINE	90	4 (1/2 x 1/2)	33.2	90	4 (1/2 x 1/2)
													HAWSERS & WARPS	2 @ 90	2 1/2 (1/2 x 1/2)	13.2	2 @ 90	2 1/2 (1/2 x 1/2)
														2 @ 90	2 1/2 (1/2 x 1/2)	10.8	2 @ 90	2 1/2 (1/2 x 1/2)
	75	4 1/2 (1/2 x 1/2)	36.4					75	4 1/2 (1/2 x 1/2)									

Steering Gear, Type (Power or hand)

Steam by Donkin and Co.

Alternative Means of Steering

Blocks and tackle led to steam capstan on poop.

Steering Chains (Size and Test)

Telemotor control

Windlass

Steam by Emerson Walker.

Boats 2 @ 26" 0" steel lifeboats.

Ceiling in Holds, thickness and material

None fitted in forward hold.

Cargo Battens, thickness, material and spacing

None fitted in forward hold.

Cargo Hatchways.

Trunk Top

Welded steel coamings

Thickness of Hatches

Steel hinged covers.

Size of Hatchways

No. 1 (Fwd.)

No. 2 (Fwd.)

No. 3 (Fwd.)

No. 4 (Fwd.)

No. 5 (Fwd.)

No. 6 (Fwd.)

No. 7 (Fwd.)

No. 8 (Fwd.)

No. 9 (Fwd.)

No. 10 (Fwd.)

No. 11 (Fwd.)

No. 12 (Fwd.)

Number of Shifting Beams and/or Fore and Afters

None.

Builder's Signature

THE BRANDMOUTH DOCKYARD CO. LTD.

A. A. MacKellar

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel.

Yes.

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo.

The positions in which oil is carried as fuel or cargo should

be indicated, together with the flash point (where required to be inserted in the Notation).

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans.

The workmanship and materials are good.

The cargo oil tanks, oil fuel bunkers, settling tank, after cofferdam, pump room, forward cofferdam, after peak tank, fore peak tank, forward deep tank and double bottom tank in engine room were tested as required by the Rules and found satisfactory.

Weather decks hose tested and found satisfactory.

Windlass and steering gear tested in dock and found satisfactory.

Freeboard verified and marks cut in.

Oil fuel is carried in oil fuel bunkers and settling tank at fore end of boiler space and in forward deep tank. Flash point of oil fuel above 150°F., Section 20 of the Rules complied with where applicable.

Anchors are in accordance with War Emergency requirements.

The amount of Entry Fee..... £ 6 : 0 : 0

Fees applied for

30 JAN 1945

(Special notations, where part of class, to be stated.)

Special Survey Fee..... £ 290 : 5 : 0

Supervision of Specification..... £ 72 : 11 : 3

Freeboard..... £ 12 : 0 : 0

Travelling Expenses, if any..... £ 8 : 6 : 9

Received by me,

19.....

State whether the Vessel has been built under Special Survey

Yes.

I am of opinion the Vessel should be Classed + 100 A.1. "Carrying Petroleum in Bulk". Special notations "Longitudinal Framing at Bottom, at Deck and in Trunk" and "Butts of Shell Plating, except at ends and butts of Deck Plating electric welded".

Signature

James M. Kinders

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to

Glasgow

Date of issue

3/4/45

Committee's Minute

GLASGOW

30 JAN 1945

Character assigned

- 100 A.1

Carrying Petroleum in Bulk

Longitudinal Framing at Bottom at deck and in trunk.

Note: Egn.

- 100 A.1

Fitted for oil fuel 1.45 F.P. above 150°F.



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The following plans are applicable to this vessel and are forwarded herewith:—

The following Gearing and Coatings certificates are forwarded herewith:—

Midship Section.  
Profile and Decks.  
After End Framing.  
Fore End Framing, Plots and Stringers.  
Oil Fuel Bunkers.  
Break of Shell at Poop Trans Bulkhead.  
Riveting List.  
Welding List.  
Steryframe and Rudder.  
Connection of Trunk Side Plating to Trunk Top Plating.

Sternyframe.  
Rudder Head.  
Tiller.  
Quadrant.

Plan of "As Fitted" Midship Section forwarded in advance.

This vessel is a sister ship to the S.S. "EMPIRE PYM", built by the same Builders in March 1944, see Glasgow Report N° 68260 dated 3rd April 1944.

PARTICULARS OF ELECTRIC WELDING (if employed)

Butts of flat plate keel, bottom shell, side shell, deck, trunk side and trunk top. Butts of centre line bulkhead; centre line bulkhead to flat plate keel; brackets to centre line bulkhead stiffeners, to bottom longitudinals and to transverse bulkhead stiffeners. Stringers to side shell, centre line bulkhead and transverse bulkheads. Bottom and side transverses to shell plating, also butts of transverses. Trunk side to Upper Deck; trunk top to trunk side. Poop and forecastle fronts to deck and trunk side. Pump room entrance to trunk top. Oil cargo hatches and cargo hatch to fore hold. Trunk top in engine room. Upper Deck to shell in way of poop and forecastle. Diltight and watertight flats to shell forward. Also other minor details.

SPECIAL NOTATIONS:—

Either as part of the vessel's class or for record in the Register Book. Longitudinal Framing at Bottom, at Deck and in Trunk.  
Butts of Shell Plating, except at ends, and Butts of Deck Plating, electric welded. Lloyd's A and C.P. Machinery Aft. Cruiser Stern. Winches. Echo Sounding.  
Direction Under.  
(1 lower anchor to be supplied at the conclusion of the present emergency.)

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	25.3.21	A.E.G.	5349	19.11.43.
2nd "	26.0.14	A.E.G.	5378	26.11.43.
3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 72.0 ft., Trunk 178.0 ft., Bridge ft., Forecastle 39.0 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 180361 Signal Letters Extreme Breadth over Belting Over-all Length 301'-9"

No. and Material of Decks One Steel

Parts of Bottom of Vessel coated with cement or approved composition Peaks, Boiler Room and Pumproom. Double bottom tank in engine room.

Particulars of composition (if fitted) and of approval.

PARTICULARS OF WATER BALLAST:—

(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)  
(Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons (S.W.)	Where Fitted.	Length. Feet.	Water Capacity. Tons (S.W.)
Double bottom, aft,			Fore peak tank,	17.0	33.0
Double bottom, under Engines and Boilers,			After peak tank,	16.0	63.5
Double bottom, if under Engines only,	26.0	41.0	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	20.0	122.6
Double bottom, forward,			Other tanks, if fitted, Forward Cofferdam	3.0	40.0
Total length (if continuous) and Capacity	26.0	41.0	After Cofferdam	3.0	84.0

Order for Special Survey No. 6712

Date 10/9/43

Dates of Surveys held while building

1944 Mar 13.24.29 Apr 6.13.18.27 May 2.9.17.19.23.25 Jun 2.9.14.19.30 Jul 11.12.24.27 Aug 1.3.7.11.17.22.25 Sep 1.13.22.29 Oct 11.13.20.23.25.31 Nov 9.17.24.23.27 Dec 4.8.9.12.15.18.19.20.21.25.28.29.30.31 Jan 8.9.

Total No. of Visits 6