

Rpt. 11b
Standard Arrow
22762
Royal Arrow
WRITTEN

(Copy)

TUE. 17. APR. 1917
25109

Lloyd's Register of Shipping. No 2517.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey *Philadelphia*
Date of Survey *While building*
Name of Surveyor *Charles*

Ship's Name. <i>EDWARD L. DOHENY</i> <i>(New York Harbor No. 170)</i> Number in Register Book	Port of Registry and Nationality. <i>Los Angeles, Cal.</i>	Official Number. <i>214951</i>	Gross Tonnage. <i>7794</i>	Date of Build. <i>1917</i>	Particulars of Classification. <i>1100 A-1 Long Framing</i> <i>Carrying Petroleum in bulk.</i> <i>(Completed)</i>
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Registered dimensions from ship's Register.	LENGTH. <i>467.6</i>	BREADTH. <i>62.7</i>	DEPTH. <i>32.0</i>	UNDER DECK TONNAGE. <i>7383.44</i>
Length on LOADLINE.	<i>468</i>	mean Frame Depth Rule <i>7</i> <i>50.42</i> <i>No cargo battens +33</i>	Ceiling +20 Sheer +59 <i>Keel to 39" floor</i> <i>30.0</i>	Peak Tanks <i>39" floor</i> <i>7500</i>
CORRECTED DIMENSIONS.	<i>468</i>	<i>62.55</i> <i>.61</i>	<i>30.79</i> <i>.83</i>	<i>7500</i>

Moulded Depth as measured..... *32.0*
NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

Efficiency of fineness..... *.83*
Any modification necessary [Para. 4 (a) to (e)]*
Efficiency as corrected..... *.82. Highest in tables*

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<i>468</i>	
Length in Table	<i>384</i>	
Difference	<i>.84</i>	
Correction for 10ft., Table A.	<i>1.6</i>	Table C. ✓
× Difference divided by 10	<i>13.44</i>	(if required.)
If $\frac{1}{10}$ ths length covered divide by 2	<i>6.7</i>	<i>+6.7</i>

Sheer { Stem..... *108* } *156* ✓ ÷ 2 = *78* ... Mean
at { Sternpost ... *48* }
Sheer at $\frac{1}{2}$ of the length from { Stem *59.5* } *85.875*
Sternpost *26.375* } *85.875* ÷ 2 = *42.94* ... Mean
Gradual mean Sheer *78* ✓
Standard mean Sheer [Table, Para. 18] *56.8* ✓ Correction
Difference..... *21.2* ✓ ÷ 4 = *5.3*.
If limited as Para. 18 (f)..... *-5.3* ✓

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{1}{10}$ ths length covered
Thickness of usual wood deck, less stringer *-3.5*

Rise in Sheer { At front of bridge house.....
from amidships { Para. 18 (e) } { At after end of forecastle ✓
Fall in Sheer } ÷ 2 =
Para. 18 (d) }
Length uncovered Correction ✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<i>62.0</i>
Round of Beam	<i>14.91</i>
Normal round.....	<i>15.5</i>
Difference	<i>.6</i> ÷ 2 = <i>.3</i>
Proportion of Deck uncovered (Para. 19)	✓

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<i>5.32</i> ✓
Correction for Length, if required (Para. 12, 13, and 14)	✓
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<i>8.24</i> ✓
Difference	<i>2.1034</i> ✓
Percentage as below.....	<i>92%</i> ✓
	<i>31.91</i> ✓

Freeboard, Table A	<i>8.72</i> ✓
Correction for Sheer	<i>-5.34</i> ✓
Correction for Length	<i>8.24</i> ✓
Allowance for Deck Erections	<i>+6.34</i> ✓
Correction for Round of Beam.....	<i>8.9</i> ✓
Correction for fall in Sheer (if any).....	<i>2.8</i> ✓
Correction for Iron Deck (if required)	<i>6.1</i> ✓
Corrections for Round of Beam.....	✓
Correction for fall in Sheer (if any).....	✓
Correction for Iron Deck (if required)	<i>-3.5</i> ✓
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	<i>5.92</i> ✓
Other Corrections (if any)	✓

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)		
Allowance for Deck Erections	<i>2.8</i> ✓	
Length.	Length allowed.	Height.
Forecastle..... <i>352.33</i>	<i>351.46</i> ✓	<i>7.6</i>
Bridge House..... <i>3.6</i>		
Engine openings..... <i>8.0</i>		
Boiler openings..... <i>107.67</i>	<i>90.84</i> ✓	<i>7.6</i>
Total	<i>468.0</i>	
Length of Ship	<i>455.15</i>	<i>442.3</i> ✓
Corresponding percentage (Para. 11, 12, 13, or 14) }	<i>92%</i>	<i>468</i>

Winter Freeboard	<i>5.92</i> ✓
Summer Freeboard	<i>5.3</i> ✓
Indian Summer Freeboard	<i>4.82</i> ✓
N. A. Winter Freeboard	
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side.	<i>+1.34</i> ✓
Winter Freeboard from deck line	<i>5.114</i> ✓
Summer " " " "	<i>5.434</i> ✓
Indian Summer " " " "	<i>4.104</i> ✓
N. A. Winter " " " "	
Stat Deck (Iron) Deck:—	<i>5.42</i> ✓

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck:—

Fresh Water Line	above centre of Disc
Indian Summer Line	" " "
Winter Line	below " "
Winter North Atlantic Line	" " "

State dimensions of freeing port area on back of this form.
The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

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† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
‡ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth of the vessel's length from stem and sternpost.

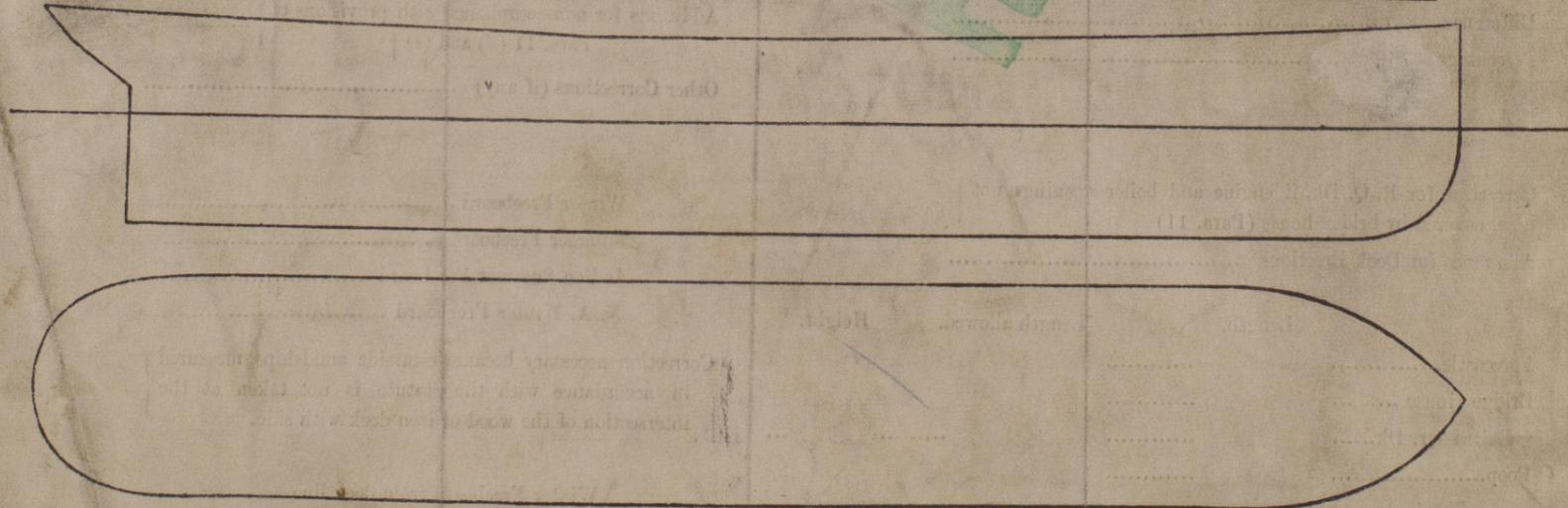
Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *✓* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *✓*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *✓* Has the Bridge House an efficient Bulkhead at the fore end?
 Give particulars of the means for closing the openings in Bulkhead *Complete shelter deck*
 What is the thickness of the Bridge Front plating? *and Coaming plate?*
 Give scantlings and spacing of the Stiffeners
 Are bracket plates fitted at each end of the Stiffeners? *✓* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?
 Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*
 How are the openings closed? *Storm boards to full height in riveted channels*
 Is the Forecastle at least as high as the main or top-gallant rail? *✓* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *✓*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *By shelter deck*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *✓*
 Give thickness of plating; scantlings and spacing of Stiffeners
 What is the height of the exposed Casings? *✓* Are suitable means provided for closing all openings in them in bad weather? *✓*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *yes*

Position and Size.	No. 1700 16' x 20'		No. 218 9' 13" x 20'		No. 304 18' 2" x 20'		No. 527 18' 8" x 20'		No. 6 7' x 13'	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING										
Height above top of DECK	27	24	24	24	24	24	24	24	24	24
Thickness	Sides	18 lb	18	18	18	18	18	18	18	18
	Ends									
SHIFTING BEAMS OR WEB PLATES	Number	Three	One	Three	Three		Three		One	
	Section and Scantlings	9" x 15" x 18" Centre	No. 2 25" x 15" lb	18" Centre x 15" lb	18" Centre x 15" lb		as box		10" x 13" lb	
	Material	L ¹ 4 x 3 x 9.8 lb	L ⁵ 4 x 3 x 9.8 lb	L ⁵ 4 x 3 x 9.8 lb	L ⁵ 4 x 3 x 9.8 lb				L ¹ 4 x 3 x 9.8 lb	
* FORE AND AFTERS	Number	None								
	Section and Scantlings									
	Material									
HATCHES Thickness	3" Pitchpine									
Remarks										

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *82* Strake between Main and Bridge Sheerstrakes? *76*
 Delete the words *The Crew are, are not, berthed in the bridge house.*
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*
 Length of Bulwarks in well
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *6.3* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *6.3* Sq. ft.
 3. 5 x 1. 5 x 1.
 Total deficiency or excess = *6.3* Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *This vessel is a duplicate of the Yc Royal Arrow, the Rye No. 2453 (760) which was assigned the freeboard recommended hereon. See approved plans now in London office. Freeboard request is enclosed herewith.*
 Owners Builders *New York S.B. Corporation*
 Address *Camden N.Y.*

Fee £ *15* Received by me *(Signature)* Lloyd's Register Foundation
 15 February 1917