

Lloyd's Register of  
SURVEYS FOR FREEBOARD-STEAMERS

(Under the Provisions of the U. S. A. Load Line Act of March 2, 1929)

Date of Survey...  
Name of Surveyor...

Ship's Name: **Herbert L. Pratt**  
Port of Registry and Nationality: **Philadelphia U.S.A.**  
Official Number: **215969**  
Gross Tonnage: **7118**  
Date of Build: **1918-2**  
Particulars of Classification: **+100 A1. "Carr Petroleum in bulk" Longitudinal Framing**  
Owner: **The Atlantic Refining Co.**  
Builder: **Baltimore Shipbuilding & Repairing Co., Baltimore, Md.**  
Hull No.: **111**  
Moulded dimensions: **435.0' x 56.0' x 33.5'** (85% = **28.47'**)  
Moulded displacement at a moulded draught of 85 per cent. of moulded depth: **160.40 Tons**  
Coefficient of fineness for use with tables: **80.9**

DEPTH FOR FREEBOARD. CORRECTION FOR DEPTH. CAMBER  
Moulded depth ... **33.50** (a) When **D** is greater than  $\frac{L}{15}$   
Stringer plate ... **(.64) .05**  $(D - \frac{L}{15}) \times R = (33.50 - 29.00) \times 3 = +13.65$   
Sheathing in wells }  $T(\frac{L-S}{L}) =$  (b) When **D** is less than  $\frac{L}{15}$  (if allowed).  
Depth **D** = **33.55**  $(\frac{L}{15} - D) \times R =$   
If restricted by height of superstructures

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S <sub>1</sub> (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	121.50	121.50	7.75	✓	121.50
" overhang	50	25			25
R.Q.D. enclosed					
" overhang					
Bridge enclosed	42.00	42.00	7.75	✓	42.00
" overhang aft (5.5 + 1.25)	6.75	5.06			5.06
" overhang forward	1.25	.62			.62
F'cle enclosed	42.00	34.33	7.75	✓	34.33
" overhang					
Trunks forward					
" aft					
Tonnage opening					
TOTAL =	214.00	203.76			203.76
Length of ship (L) =	435.00	435.00			435.00
% Covered... =	49.19%	46.84%			46.84%
Corresponding %, corrected for absence of forecastle if required	A = Tanker	B = 37.84			
Allowance ... =	42	× .3784			-15.89

Correction for Bridge less than 2 L if required } Tanker - does not apply.

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	45.00	53.50	45.00	1	45.00
2	18.95	23.78	18.95	4	75.80
3	4.75	5.94	4.75	2	9.50
4				4	
5	9.70	11.88	9.70	2	19.40
6	38.70	47.55	38.70	4	154.80
F.P. 7	88.00	107.00	88.00	1	88.00

If excess sheer forward and deficient sheer aft:-

Actual sheer aft =  
Standard sheer aft =  
Actual sheer forward =  $\frac{233.2}{285.29} = 81.74\%$   
Standard sheer forward =  
∴ allow 81.74% of open forecastle.

Length of enclosed superstructure L

Forward of amidships =  
Aft of amidships =

Mean effective sheer ... =  $\frac{392.50}{18} = 21.80$   
Standard sheer .05 L + 5 =  $26.75$   
Difference (Df) ... =  $4.95$   
Allowance =  $Df \times (.75 - \frac{S}{2L}) = 4.95 (.75 - .246) = 2.49$   
If limited on account of amidship superstructure ... =  
If limited on account of excess sheer (1½ in. per 100 ft.) ... =

DRAFTS.

F. W. ALLOWANCE

TABULAR FREEBOARD (corrected for flush deck if required) =

Moulded Depth **D** = **33'-6"**  
Stringer Plate = **3/4"**  
Freeboard = **33'-6 3/4"**  
Moulded draught = **27'-0 1/4"**  
Addition for keel below base line = **2 1/4"**  
Extreme draught = **27'-2 1/2"**  
Displacement = **15180**  
Tons per inch = **50.8**  
Correction for Coefficient =  $\frac{1.489}{1.36} = 1.095$   
Correction for Depth ... **13.65**  
Superstructures ... **15.89**  
Sheer ... **2.49**  
Camber ... **.19**  
Thickness of deck ...  
Scantlings, etc. ...  
Summer Freeboard = **78.39'**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, upper Deck:-

Tropical Fresh Water Line (above center of Disc)	14 1/4"	Tropical Fresh Water Freeboard	5'-4 1/4"
Fresh Water Line	7 1/2"	Fresh Water	5'-11"
Tropical Line	6 3/4"	Tropical	5'-11 3/4"
Winter Line (below " " )	6 3/4"	Winter	7'-1 1/4"
Winter North Atlantic Line	11"	Winter North Atlantic	7'-5 1/4"

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Lloyd's Register Foundation



Is the poop or raised quarter deck connected with the bridge? Yes  
 Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? Yes  
 Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44) None  
 Has the bridge an efficient steel bulkhead at the fore end? Yes  
 Give particulars of the means of closing the openings in this bulkhead Two W.T. doors  
 Has the bridge an efficient steel bulkhead at the after end? Yes  
 Give particulars of the means of closing the openings in this bulkhead Steel tonnage doors, locks 12" apart  
 Has the forecastle an efficient steel bulkhead at the after end? No, open  
 Give particulars of the means of closing the openings in this bulkhead  
 Are the engine and boiler openings covered by a bridge, poop, raised quarter deck, or enclosed by a strong steel deckhouse? Yes  
 If the openings are not so protected, are the exposed parts of the casing efficiently constructed?  
 Give thickness of plating, scantlings and spacing of stiffeners  
 Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)? Yes

Particulars of bulkheads of erections:

	Poop or Raised Quarter Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	.50	.50	.50	
Scantlings of stiffeners	10 x 3 1/2" x 1/2" B.A.	8 x 3 1/2" x 1/4" B.A.	5 x 3 1/2" x 1/4" (angle)	
Spacing of stiffeners, and if bracketed	33" <u>Yes</u>	36" <u>Yes</u>	36" <u>Yes</u>	
Height of sills of openings above deck	No opening	18"	24"	

Particulars of weather deck hatchways.

(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	No. 1 10' x 10'									
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	24"		Oil hatchways 6' x 4' (18)							
COAMING. Thickness	Sides.....	.44	" " 4' x 2' 6" (10)							
	Ends.....	.44	Comings 8' x 3 1/2' x 1/2" angle with O.T. covers + stiffened							
SHIFTING BEAMS OR WEB PLATES	Number.....	plate .31								
	Section and Scantlings.....	angle 3 x 3 x 1/4								
	Material.....	Steel								
* FORE AND AFTERS.	Number.....									
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness	3"									
Remarks	Wood									

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

Are Rules 12, 13, 14, 15, 16, 17, 18 complied with as far as practicable? Yes

Are hatchway coamings stiffened in accordance with Rule 9? Not required

Length of bulwarks in wells—forward: \_\_\_\_\_ feet; aft: \_\_\_\_\_ feet.

Area of freeing ports required by regulations (Rules 30 and 100) forward: \_\_\_\_\_ sq. ft.; aft: \_\_\_\_\_ sq. ft.

No. Ft. X Ft.

Particulars of freeing ports fitted { forward well } \_\_\_\_\_ sq. ft.

on each side of vessel { after well } \_\_\_\_\_ sq. ft.

Are Rules 23 and 24 complied with as far as practicable? Yes

Are air pipes to tanks in accordance with Rule 25? Yes

Are all scuppers and sanitary discharge pipes in accordance with Rule 27? Yes

In oil tankers, what is the extent of the fore and aft gangway? All F & A

Is the gangway strong and efficiently braced fore and aft? Yes

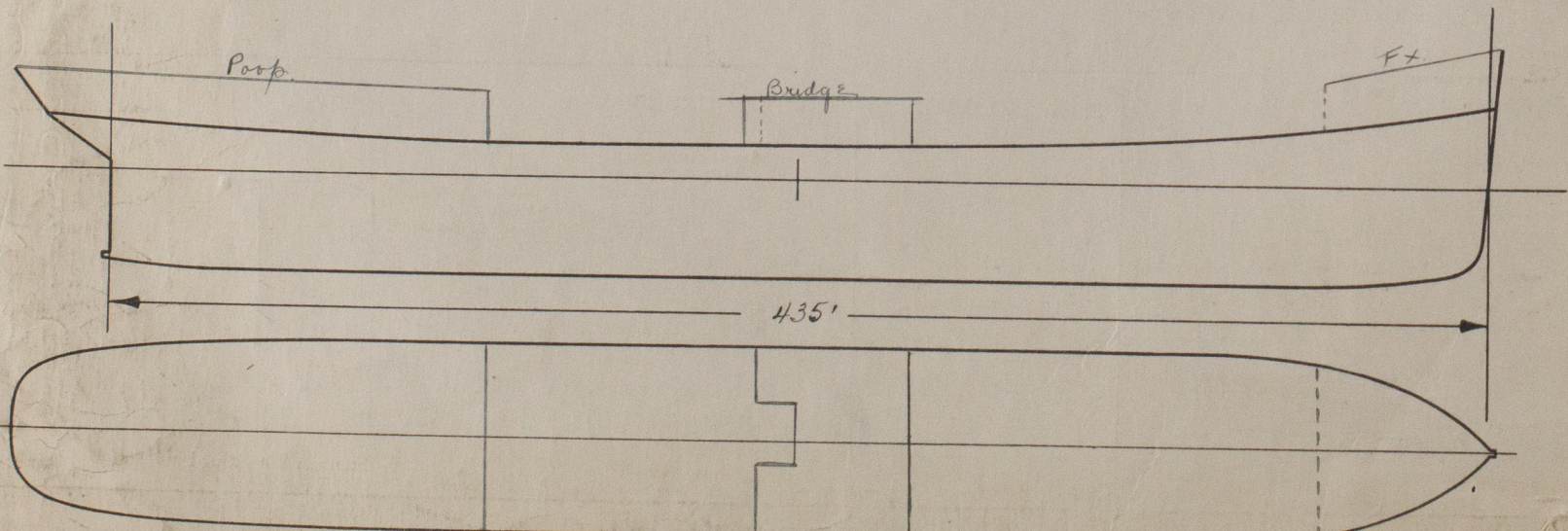
Are the crew berthed in the forecastle? (Rule 96). No

State spacing of supports. 10 feet

In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100). Yes, 60%

Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? Yes

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? Yes



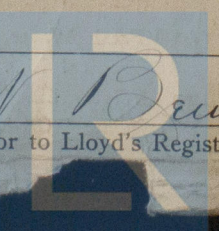
Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).  
Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels: "J. E. O'Neil" "W. M. Irish"

Fee: \$100.00 Expenses (if any) \$1.00

(Signed) W. B. Bennett  
Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register  
Foundation

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