

# AMERICAN BUREAU OF SHIPPING

Sheet 1

DATE Sept. 3, 1920

REPORT NO.	<b>SURVEY FOR FREEBOARD</b>		PORT OF SURVEY Seattle
OFFICIAL NO.	NAME OF VESSEL S.S. "GRIFFDU"		PORT OF REGISTRY Seattle
CLASS Contemplated B.S.* B.C.	ERECTIONS Forecastle-Poop		YEAR OF CERTIFICATE 1920
GROSS TONNAGE Not yet calculated by U.S. Customs	BUILT BY J. F. Duthie & Company		WHEN BUILT 1920
PARTICULARS OF ERECTION BULKHEADS, ENGINE & BOILER CASINGS, ETC.			
	POOP OR RAISED QR. DK.	BRIDGE HOUSE	FORECASTLE
DO ALL THE FRAMES EXTEND TO THE TOP HEIGHT?	No. Alternate frames, Int. Frames of 4x3x <sup>3</sup> / <sub>8</sub> L	No bridge house	Yes, from W.T. Flat
TO WHAT HEIGHT DO REVERSE FRAMES EXTEND?	No reverse frames	"	To main Deck only
THICKNESS OF SIDE PLATING	.28"	"	.38 and .32
ARE EFFICIENT BULKHEADS FITTED AT THE ENDS?	Yes	"	Yes
THICKNESS OF COAMING	No coaming. Bottom bound- ing L 6x3 <sup>1</sup> / <sub>2</sub> x.38	"	No coaming bottom bounding L 6x3 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>8</sub>
THICKNESS OF PLATING	.30"	"	.25"
SCANTLINGS, SHAPE AND SPACING OF STIFFENERS	5x3x.38L's with reverse angles 3 <sup>1</sup> / <sub>2</sub> x3x.38 spaced 30"	"	4x3x <sup>3</sup> / <sub>8</sub> L's spaced 24"
ARE STIFFENERS BRACKETED OR CLIPPED AT ENDS	Clipped at top, bracket- ed at bottom	"	No
NUMBER AND SIZE OF OPENINGS	2 Opgs. 2'0"x5'0"	"	2-2'0" x 4' 9"
STATE MEANS OF CLOSING (i.e. Steel doors, Portable plates, Weather boards etc.)	W.T. Steel Doors hinged	"	W.T. Steel Door hinged
IF WEATHERBOARDS ARE FITTED STATE THICKNESS AND WHETHER CHANNELS FOR SAME ARE RIVETED TO BULKHEAD	"	"	"
ARE THE MACHINERY OPENINGS PROTECTED BY BRIDGE, POOP, OR RAISED QR. DK. OR ENCLOSED BY A STRONG STEEL HOUSE?	Main deck - E. & B. casing protected by poop. Poop Deck - Engine casing enclosed by a strong steel house. Boiler casing exposed at sides and forward		
IF NOT WHAT IS THE HEIGHT OF CASINGS ABOVE DECK?	Top of boiler casing 7' 9" above poop deck		
ARE SUITABLE MEANS PROVIDED FOR CLOSING ALL OPENINGS IN CASINGS AND WHAT IS HEIGHT OF SILLS?	Yes Height of sills 15"		
THICKNESS OF CASING COAMINGS	.38"		
THICKNESS OF CASING PLATING	.25"		
SIZE AND SPACING OF STIFFENERS	Engine casing - 2x2 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> L's Spaced 23" Boiler " - 3x4x 5-1 <sup>1</sup> / <sub>16</sub> L's spaced 28"		



SURVEY FOR FREEBOARD					
FREEING PORTS FITTED ON EACH SIDE OF VESSEL	NUMBER <b>7</b>	DIMENSIONS <b>15 x 37</b>	AREA IN SQ. FT. <b>24.5</b>		
FREEING PORT AREA REQUIRED ON EACH SIDE OF VESSEL (RULES SECT. 24 PAR. 1.)	Bulwarks <b>30"</b>	TOTAL EXCESS <del>OR DEFICIENCY</del> <b><math>\frac{16.5}{8.0}</math></b>			
<p>ARE THE CREW BERTHED IN THE BRIDGE HOUSE? <b>No bridge house</b></p> <p>ARE THE ARRANGEMENTS FOR ENABLING THE CREW TO GET TO AND FROM THEIR QUARTERS SATISFACTORY? <b>Yes</b></p> <p>CAN THE BOILER ROOM BE ENTERED FROM THE <del>BRIDGE</del> <b>Poop</b> DECK? <b>Yes</b></p>					
<p>VERTICAL DISTANCE OF THE SILL OF LOWEST SIDELIGHT OR AIRPORT BELOW TOP OF THE FREEBOARD DECK AT SIDE AMIDSHIPS <b>No such sidelight or airport</b></p> <p>ARE SIDELIGHTS FITTED WITH EFFICIENT HINGED DEADLIGHTS WHERE SITUATED:</p> <p>1.—IN CLOSED SPACES WITHIN ONE-EIGHTH OF THE VESSEL'S LENGTH ABAFT THE STEM? <b>Yes</b></p> <p>2.—BELOW A DECK THE UNDERSIDE OF WHICH AT ITS LOWEST POINT IS LESS THAN SEVEN FEET ABOVE THE DEEPEST LOAD LINE? <b>No such sidelights</b></p> <p>3.—BELOW THE FREEBOARD DECK EXCEPT IN CASES WHERE THE SIDELIGHTS ARE ALWAYS ACCESSIBLE <b>No such sidelight</b></p> <p>4.—WITHIN CLOSED SUPERSTRUCTURES UNLESS THE SIDELIGHTS ARE ALWAYS ACCESSIBLE <b>Yes</b></p> <p>ARE THE SCUPPERS FROM FREEBOARD DECK WITHIN A CLOSED SUPERSTRUCTURE OR FROM DECKS BELOW FREEBOARD DECK LED TO THE BILGE, OR IF THROUGH VESSEL'S SIDE ARE THEY FITTED WITH EFFICIENT AND ACCESSIBLE MEANS FOR PREVENTING WATER FROM PASSING INWARD? <b>No scupper from forecandle. Scupper from poop leads overboard and has non return valve</b></p> <p>DOES VESSEL HAVE CARGO PORTS? <b>No</b></p> <p>WHAT IS DISTANCE OF BOTTOM OF LOWEST CARGO PORT BELOW FREEBOARD DECK AMIDSHIPS</p> <p>SUBMIT DETAILS OF CARGO PORTS.</p>					
<p>ARE ALL BUNKER HATCHWAYS, SCUTTLES, AND SIMILAR OPENINGS IN THE UPPER DECK WHETHER WITHIN THE DECK ERECTIONS OR OTHERWISE, PROVIDED WITH SUITABLE COVERS AND MEANS OF SCREWING THEM WATERTIGHT?</p>					
VENTILATOR COAMINGS ON WEATHER DECK					
DECK	Forecandle	Main	Poop	Boat	
DIAMETER	<b>8" 18"</b>	<b>18"</b>	<b>12"</b>	<b>18"</b>	
THICKNESS	Standard <b><math>\frac{3}{8}</math></b> PIPE	<b><math>\frac{3}{8}</math>"</b>	<b><math>\frac{3}{8}</math>"</b>	<b><math>\frac{3}{8}</math>"</b>	
HEIGHT	<b>36" 36"</b>	<b>36"</b>	<b>36"</b>	<b>36"</b>	
IS COAMING PROVIDED WITH STRONG WOOD PLUG & CANVAS COVER OR EFFICIENT METAL COVER?	<b>Yes Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Non removable cowls</b>	



OFFICIAL NO.		SURVEY FOR FREEBOARD		NAME OF VESSEL	
PARTICULARS OF HATCH COAMINGS, WEBS, FORE & AFTERS, ETC., FOR HATCHWAYS ON WEATHER DECK.					
NO. OF HATCHWAY COUNTING FROM FOR'D		1	2		
DIMENSIONS OF HATCHWAY		20'0"x38'4"	20'0"x40'3"		
COAMINGS	HEIGHT ABOVE <small>STEEL DECK</small> <small>WOOD</small>	2' 9"	2' 9"		
	THICKNESS <small>{ SIDES</small> <small>{ ENDS</small>	.50 "	.50 "		
	NUMBER AND SIZE OF STAYS IF FITTED	5 at sides 3 at ends Brackets 15"	5 at sides 3 at ends Brackets 15"x		
HATCH BEAMS	NUMBER	x23"x.38" 8	23"x.38" 8		
	SPACING	4'3"	4' 5 <sup>3</sup> / <sub>4</sub> "		
	SCANTLINGS AND SKETCH	15"x5 <sup>1</sup> / <sub>2</sub> "x50# I Beams 56	15"x5 <sup>1</sup> / <sub>2</sub> "x50# I Beams 56		
	BEARING SURFACE OF CARRIERS ON COAMING	5.4 sq.in.	5.4 sq.in.		
FORE & AFTERS	NUMBER	None	None		
	SPACING	"	"		
	UNSUPPORTED LENGTHS	"	"		
	SCANTLINGS * (If of wood state if Iron shod at ends and give dimensions below hatches)	"	"		
	BEARING SURFACE AT ENDS	"	"		
HATCH COVERS	MATERIAL AND THICKNESS	3" Fir	3" Fir		
	HOW FITTED	Fore & Aft in 5 lengths	Fore & Aft in 5 lengths		
	STATE IF BATTENING ARRG'TS ARE SATISFACTORY	Yes	Yes		

\*Surveyors are to note that it is recommended that all wood fore & afters be iron shod.



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Foundation0227<sup>3</sup>/<sub>4</sub>



TYPE OF ERECTIONS		FREEBOARD CALCULATION		NAME OF VESSEL																					
REGISTERED DIMENSIONS	LENGTH	BREADTH	DEPTH	MOLDED DEPTH AMIDSHIPS AS MEASURED <u>21'0"</u> Note: If the depth is measured when the vessel is afloat the details of measurement should be reported. CORR. FOR UNSHEATHED DECK } WHERE REQ. [PAR. 6(A)] } MOLDED DEPTH USED WITH TABLES																					
MODIFICATIONS PAR. 4 (a) TO (e)	219.9	40.1	18.5																						
CORRECTED DIMENSIONS	LENGTH L.W.L. <u>219'-10"</u>																								
UNDER DECK TONNAGE Including F.P. & A.P. <u>1303.60</u> COEFF. <u>1.0</u> ANY MODIFICATIONS NECESSARY } FOR DOUBLE BOTTOM } CORRECTED COEFF.				LENGTH CORRECTION LENGTH OF SHIP ON LOADLINE LENGTH IN TABLE DIFFERENCE CORRECTION FOR ONE FT. IF $\frac{0}{10}$ LENGTH COVERED BY } ERECTIONS DIVIDE BY 2 }																					
CORRECTIONS FOR SHEER SHEER AT $\frac{1}{2}$ L. FROM STEM = <u>9.87</u> SHEER AT STEM = <u>-41.87</u> SHEER AT $\frac{1}{2}$ L. FROM STERNPOST = <u>3.13</u> SHEER AT STERNPOST = <u>20.88</u> 2) _____ .55) _____ GRADUAL MEAN SHEER = STANDARD SHEER (TABLE PAR. 18) = DIFFERENCE = <u>          </u> $\div 4 =$ CORR.				CORRECTION FOR UNSHEATHED STEEL DECK THICKNESS OF USUAL WOOD DECK LESS STRINGER = PROPORTION COVERED BY ERECTIONS = ALLOWANCE = % CORRECTION =																					
ALLOWANCE FOR DECK ERECTIONS <table border="1"> <thead> <tr> <th>ITEM</th> <th>LENGTH</th> <th>LENGTH ALLOWED</th> <th>HEIGHT</th> </tr> </thead> <tbody> <tr> <td>FORECASTLE <u>CLOSED</u> <u>OPEN</u> <u>TOTAL</u></td> <td><u>21'-10"</u> <u>15'-4"</u> <u>37'-2"</u></td> <td></td> <td><u>7'-9"</u></td> </tr> <tr> <td>BRIDGE HOUSE</td> <td><u>NONE</u></td> <td></td> <td></td> </tr> <tr> <td>POOP OR R. QR. DK.</td> <td><u>65'-9"</u></td> <td></td> <td><u>7'-9"</u></td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				ITEM	LENGTH	LENGTH ALLOWED	HEIGHT	FORECASTLE <u>CLOSED</u> <u>OPEN</u> <u>TOTAL</u>	<u>21'-10"</u> <u>15'-4"</u> <u>37'-2"</u>		<u>7'-9"</u>	BRIDGE HOUSE	<u>NONE</u>			POOP OR R. QR. DK.	<u>65'-9"</u>		<u>7'-9"</u>	TOTAL				CORRECTION FOR ROUND OF BEAM Straight pitch of beam <u>12"</u> ROUND OF BEAM BREADTH AT GUNWALE AMIDSHIPS NORMAL ROUND DIFFERENCE $\div 2$ PROPORTION OF DECK UNCOVERED (PAR. 19)	
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LENGTH OF SHIP CORRESPONDING PERCENTAGE } (PAR. 11, 12, 13, 14 & 15) } FREEBOARD TABLE A CORRECTED FOR SHEER } AND FOR LENGTH, IF REQ. (PAR. 12, 13, 14 & 15) } FREEBOARD TABLE C } CORRECTED FOR LENGTH, (IF REQ.) } DIFFERENCE PERCENTAGE AS ABOVE ALLOWANCE IF ENGINE AND BOILER OPENINGS } ARE COVERED BY R. QR. DK. ONLY [PAR. 11 (c)] } ALLOWANCE FOR DK. ERECTIONS				FREEBOARD TABLE A CORRECTION FOR SHEER CORRECTION FOR LENGTH ALLOWANCE FOR DECK ERECTIONS CORRECTION FOR ROUND OF BEAM CORRECTION FOR UNSHEATHED STEEL DECK (If Req.) ADDITIONS FOR NON-COMPLIANCE WITH PROVISIONS OF PAR. 11 (d) and (e) OTHER CORRECTIONS (IF ANY) WINTER FREEBOARD DEDUCTION FOR FRESH WATER DEDUCTION FOR INDIAN SUMMER DEDUCTION IN SUMMER ADDITION FOR WINTER NORTH ATLANTIC																					



## SURVEY FOR FREEBOARD

TONS DISPLACEMENT SALT WATER AT ESTIMATED LOAD DRAFT AND STATE DRAFT. 3510 @ 17' 10 $\frac{1}{2}$ "

TONS PER INCH IMMERSION AT ESTIMATED LOAD DRAFT. 18.6

WHAT IS THE DEPTH OF SIDE FRAMES IN HOLDS? 7"

HAS VESSEL CARGO BATTENS IN HOLD? No STATE THICKNESS

HAS VESSEL CARGO BATTENS IN 'TWEEN DECKS? No STATE THICKNESS

HAS VESSEL CEILING ON TANK TOP? Yes STATE THICKNESS 2 $\frac{1}{2}$ "STATE TOTAL THICKNESS IF CEILING IS LAID ON BATTENS. 4 $\frac{1}{2}$ "

DOES TANK TOP SLOPE FROM CENTER TO BILGE? Yes HOW MUCH? 3"

IS THE LOWEST POINT OF SHEER AT MIDDLE OF THE LENGTH? Yes IF AFT OF AMIDSHIPS

STATE DISTANCE AFT AND MOULDED DEPTH AT THAT POINT.

SHEER HEIGHTS SHOULD ALWAYS BE GIVEN WITH REFERENCE TO A LINE PARALLEL TO THE BASE LINE THROUGH THE POINT OF MOULDED DEPTH AMIDSHIPS WHETHER THE LOWEST POINT OF SHEER IS AT AMIDSHIPS OR OTHERWISE.

IF SHEER LINE IS NOT FAIR FULL PARTICULARS SHOULD BE GIVEN. Sheer as a straight line for a distance of 42' 3" aft of midships and for a distance of 61' 3" forward of midships. Total 103' 6"

IF SHEERS ARE MEASURED AFLOAT THE DETAILS OF MEASUREMENT SHOULD BE REPORTED, INCLUDING DRAFT AT STEM AND STERN.

STATE IF ANY SPECIAL FEATURES IN THE CONSTRUCTION OF THE VESSEL. No special features in construction.

The main deck does not have the ordinary circular round of beam but a straight pitch from center line to sides of ships

SHOW ON THIS DIAGRAM THE LENGTH AND HEIGHT OF ERECTIONS, DEPTH OF HOLD, EXTENT AND DEPTH OF DOUBLE BOTTOM AND HEIGHT OF BULKHEADS.

